WorkCentre 7228/7235/7245/7328/7335/7345/7346

Service Documentation

WorkCentre 7228/7235/7245/7328/7335/7345/7346

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Prepared by:

Xerox Corporation

Global Knowledge and Language Services

800 Phillips Road, Bldg. 0218-01A

Webster, New York 14580-9791

USA

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Changes are periodically made to this document. Changes, technical inaccuracies, and typographic errors will be corrected in subsequent editions.

CAUTION

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 this 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

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. Individual wire networks are shown in the Circuit Diagrams contained in Section 2. This section also contains the Block Schematic Diagrams.

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

Circuit Diagrams (CDs) are included in Sections 2 (Status Indicator RAPs) and 3 (Image Quality RAPs) of the Service Manual. All wirenets, with the exception of power distribution wirenets, are shown on the 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.

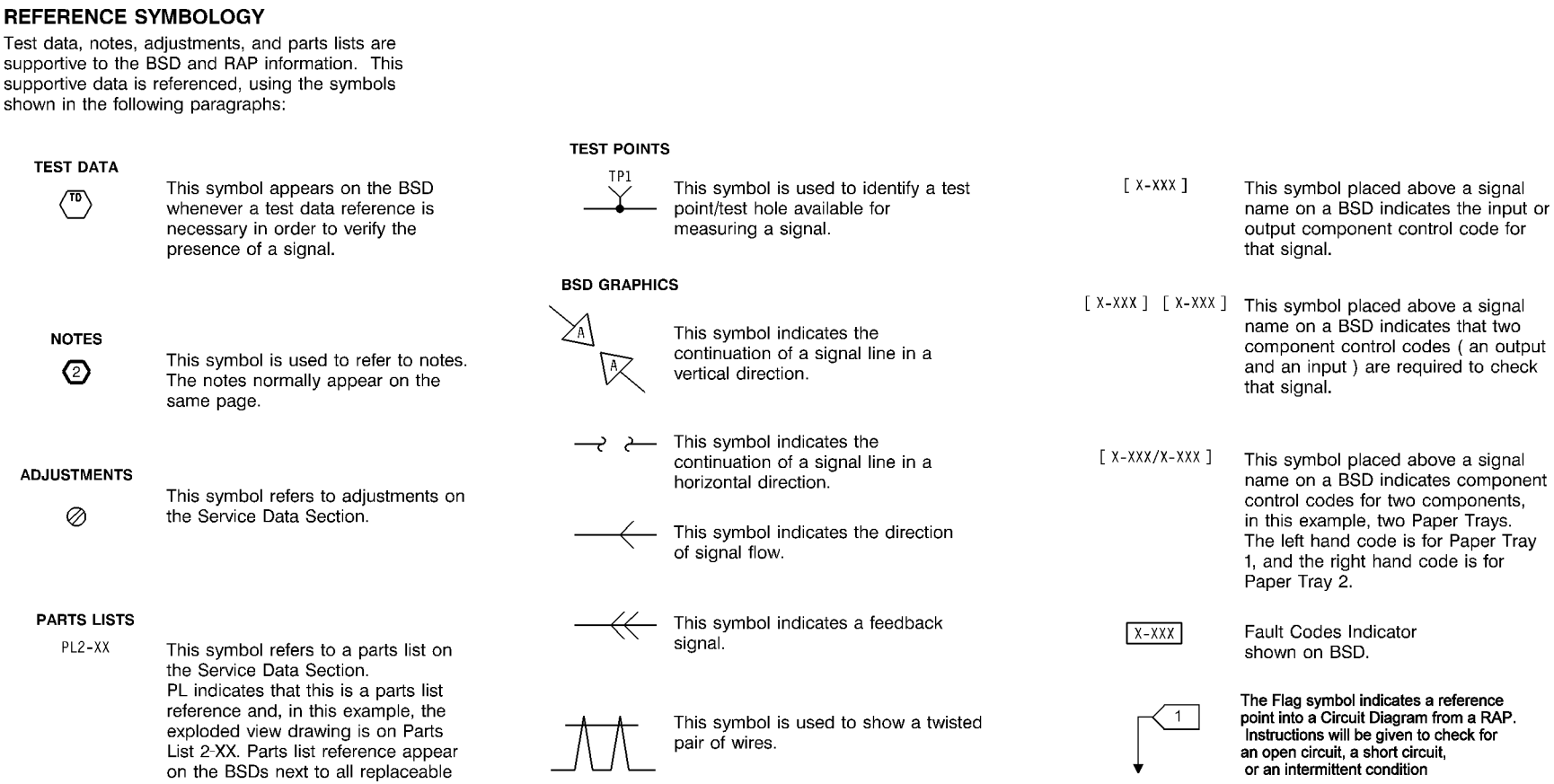


Figure 6 Illustration Symbols

Signal Nomenclature

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

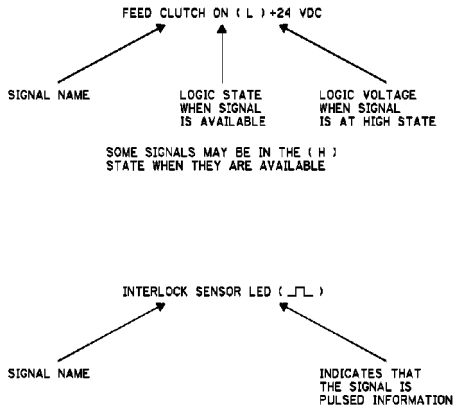


Figure 7 Signal Nomenclature

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

Introduction

Symbology and Nomenclature

WARNING

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

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

WARNING

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

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

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

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

WARNING

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

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

2 Status Indicator RAPS

06.371, 14-517 Exposure Lamp

WARNING

To avoid personal injury or shock, be aware there is live AC voltage on the heatsinks and capacitors.

Afin d'éviter des blessures ou des chocs électriques, ne pas oublier qu'une tension CA de phase est présente sur le radiateurs et condensateurs.

2 Other Faults

Of 2-1 Dark / Blank Control Panel RAP

WARNING

To avoid personal injury or shock, be aware there is live AC voltage on the heatsinks and capacitors.

Afin d'éviter des blessures ou des chocs électriques, ne pas oublier qu'une tension CA de phase est présente sur le radiateurs et condensateurs.

3 Image Quality

IQ6 IOT Background RAP

WARNING

HIGH VOLTAGE!

DANGER: HAUTE TENSION!

Exercise care when making the voltage check in the following steps.

DANGER: Soyez extrêmement vigilant lorsque vous effectuez les tests de tension au cours des étapes qui suivent.

IQ21 Developer Bias RAP

WARNING

HIGH VOLTAGE!

DANGER: HAUTE TENSION!

Exercise caution when performing the voltage checks in this procedure.

DANGER: Soyez extrêmement vigilant lorsque vous effectuez les tests de tension au cours de cette procédure.

IQ22 2nd BTR Checkout RAP

WARNING

HIGH VOLTAGE!

DANGER: HAUTE TENSION!

Exercise caution when performing the voltage checks in this procedure.

DANGER: Soyez extrêmement vigilant lorsque vous effectuez les tests de tension au cours de cette procédure

4 Repairs and Adjustments

Electrical

REP 1.1 LVPS Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 1.2 MCU PWB

WARNING

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

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

activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 1.2.1 MCU NVM PWB Chassis

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 1.3 MCU NVM PWB

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 1.4 +5 V LVPS 1 or +5 V LVPS 2

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 1.5 24 V LVPS

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 1.6 HVPS Chassis

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 1.7 HVPS T13 (DEV/BTR2/DTS); HVPS T14 (BCR)

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 1.8 Interface PWB (MDD)

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 1.9 24V LVPS Bracket Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 1.10 HVPS (T12) BTR1

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 1.11 AC Drive PWB

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 1.12 ESS PWB Unit

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 1.12.1 ESS PWB

WARNING

To avoid personal injury or shock, do not perform repair or adjustment activities with

the power switch on or electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 1.12.2 ESS NVM PWB

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 1.12.3 ESS ROM

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 1.12.4 Hard Drive Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 1.12.5 UI PWB

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 1.12.6 JPEG PWB

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 1.12.7 System and Page Memory

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 1.13 Backplane PWB

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

Main Drives

REP 4.1 Main Drive Motor Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 4.2 IBT Motor

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 4.3 Developer Drive Motor

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 4.4 Drum Motor Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

Imaging

REP 6.1 ROS

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

Paper Trays

REP 7.1 Tray 5 Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 7.2 Feed Roll Tray 5

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 7.3 Tray 1 Feeder

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 7.4 Tray 1 Feed/Lift Motor

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 7.5 Tray 1 Paper Size Sensor

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 7.6 Tray 3 (TTM)

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 7.7 Tray 4 (TTM)

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 7.8 Tray 1

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 7.9 Tray 2

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 7.10 Tray 2 Feeder

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 7.11 Tray 3 Feeder

WARNING

To avoid personal injury or shock, do not perform repair or adjustment activities with

the power switch on or electrical power applied to the machine.

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 7.12 Tray 4 Feeder

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 7.13 Tray 2 (3TM)

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 7.14 Tray 3 (3TM)

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 7.15 Tray 4 (3TM)

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 7.16 Tray 2 Feeder (3TM)

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 7.17 Tray 3 Feeder (3TM)

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 7.18 Tray 4 Feeder (3TM)

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

Paper Feed and Registration

REP 8.1 Left Cover Unit

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 8.2 Duplex Chute

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 8.3 Duplex Transport Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 8.5 Inverter Transport

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 8.6 Registration Transport Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 8.7 Exit Transport Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

Xerographic

REP 9.1 Drum Cartridge

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 9.2 ROS Shutter Motor

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 9.3 Waste Toner Cartridge Cover

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 9.4 Waste Toner Cartridge

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 9.5 Full Toner Sensor

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 9.6 Inner Cover

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 9.7 Assembly Dispenser

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 9.8 Plate Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 9.9 Developer Housing

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 9.10 Developer

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon

d'alimentation branché.

REP 9.11 Toner Dispenser Base Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 9.12 IBT Steering Motor

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 9.13 Agitator Motor Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 9.14 MOB Sensor Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 9.15 IBT Belt Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 9.16 IBT Cleaner Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 9.17 Auger Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 9.18 IBT Cam Lever

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 9.19 Left Hinge/Right Hinge

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 9.20 Right Lift Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 9.21 Left Lift Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 9.22 Transfer Belt

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 9.23 1st BTR Roll

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 9.24 2nd BTR Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 9.25 Erase Lamp Rail (K,Y,M,C)

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 9.26 ATC Sensor

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

Fuser

REP 10.1 Fuser

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

WARNING

Personal injury may result from grasping hot areas of Fuser Module. If a hot Fuser Module must be removed, grasp Fuser Module by black plastic frame component, shown in figure (Figure 1).

DANGER: Des blessures peuvent résulter si les zones chaudes du module de four sont touchées. Si un module de four chaud doit être enlevé, le saisir par l'élément en plastique noir du bâti, montré sur la figure (Figure 1).

WARNING

If machine was making copies within 30 minutes, Fuser Module is hot. Grasp Fuser Module using Grip Rings.

DANGER: Si moins de 30 minutes se sont écoulées depuis le dernier tirage de copies, le module de four est chaud. Saisir ce module par les demi-cercles en plastique noir.

REP 10.2 Fuser Fan

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

WARNING

Personal injury may result from grasping hot areas of Fuser Module. If a hot Fuser Module must be removed, grasp Fuser Module by black plastic frame component, shown in figure (Figure 1).

DANGER: Des blessures peuvent résulter si les zones chaudes du module de four sont touchées. Si un module de four chaud doit être enlevé, le saisir par l'élément en plastique noir du bâti, montré sur la figure (Figure 1).

REP 10.3 Main/Sub Heater Rod

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

Input Imaging

REP 11.1.1 Platen Cushion

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

11.1.2 Control Panel Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 11.3.1 Platen Glass

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 11.3.2 IIT/IPS PWB

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 11.4.1 CCD Lens Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 11.5.1 Carriage Cables

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 11.5.2 Carriage Motor

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 11.6.1 Exposure Lamp

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 11.6.2 Lamp Wire Harness

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 11.7 IIT LVPS Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

Finisher

REP 12.1 H Transport Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.2 H Transport Belt

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.3 Entrance Sensor

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.5 Stack Height Sensor Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.6 Eject Roll Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.7 Decurler Roll

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.8 Finisher Drive Motor

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.9 Belt

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.10 Rail

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.11 Stapler Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.12 Compiler Tray Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.13 Stacker Motor Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.14 Front Elevator Bracket

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.15 Paddle Gear Shaft

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.16 Finisher PWB

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.18 Finisher Drive Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.19 Finisher Rack Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.20 Lowering Stacker Tray

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.40 A/P Finisher Front Door

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.41 A/P Finisher Rear Upper Cover

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.42 A/P Finisher Rear Lower Cover

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.43 A/P Finisher Top Cover

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.44 A/P Finisher Front Top Cover

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.45 A/P Finisher Top Tray

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.46 A/P Finisher Eject Cover

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.47 A/P Finisher Tray Spring Guide

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.48 A/P Finisher Inner Cover

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.49 A/P Finisher Left Top Cover

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.50 A/P Finisher

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.51 A/P Finisher H-Transport Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.52 A/P Finisher Punch Frame Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.53 A/P Finisher Stapler Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.54 A/P Finisher Stapler Rail

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.55 P Finisher Booklet Maker Unit

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.56 P Finisher Booklet Stapler

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.57 A/P Finisher Compiler Tray

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.58 A/P Finisher Stacker Tray Position

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.59 A/P Finisher Paddle Shaft

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.60 A/P Finisher Stacker Drive Belt

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.61 A/P Finisher Buffer Path Sensor

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.62 A/P Finisher Gate Sensor

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.63 A/P Finisher Top Tray Full Sensor

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.64 A/P Finisher Buffer Roll

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.65 A/P Finisher Bottom Buffer Chute Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.66 A/P Finisher H-Transport Drive Belt

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.67 A/P Finisher Eject Chute Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 12.68 A/P Finisher PWB

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

Covers

REP 14.1 Top Cover

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 14.2 Rear Cover

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 14.3 Right Cover

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 14.4 Rear Left Middle Cover

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 14.5 Rear Left Upper Cover

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 14.6 Left Lower Cover Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 14.7 Front Cover Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 14.8 Fuser Cover

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 14.9 Rear Cover

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 14.10 Inner Cover

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 14.11 Left Cover Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 14.12 Left Lower Cover

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

Document Handler

REP 15.1.1 DADF

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 15.1.2 DADF Platen Cushion

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 15.2.1 DADF Document Tray

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 15.2.2 DADF Feeder Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 15.2.3 DADF Cover Front

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 15.2.4 DADF Rear Cover

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 15.3.1 DADF PWB

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 15.3.2 Left Counter Balance

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 15.3.3 Right Counter Balance

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 15.4.1 Retard Roll

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 15.4.2 Top Cover Assembly

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 15.6.1 Nudger Roll, Feed Roll

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

REP 15.8.1 Registration Roll

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

Scanner

ADJ 11.6.1 Full/Half Rate Carriage

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

Xerographic/Registration

ADJ 9.6 Color Registration (dC685)

WARNING

To avoid exposure to laser light, reinstall the Waste Cartridge before attempting to recheck the adjustment.

DANGER: Pour éviter toute exposition au rayon laser, réinstaller la cartouche de toner usagé avant de re-vérifier le réglage.

Finisher

ADJ 12.1 Office Finisher Alignment

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

ADJ 12.2 A/P Finisher Leveling

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

ADJ 12.4 P Finisher Fold Skew

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

ADJ 12.8 P Finisher Booklet Wrinkle

WARNING

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

DANGER: Afin d'éviter des blessures ou des chocs électriques, ne pas effectuer des activités de maintenance ou de réglage avec l'équipement sur Marche ou avec le cordon d'alimentation branché.

1 Service Call Procedures

Service Call Procedures

Service Strategy

The service strategy for the WorkCentre 7228/7235/7245 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 dC135 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 the customer if the problems are related to Xerox Secure Access. 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. If the machine appears to be inoperative, go to Call Flow RAP and repair the problem. Then continue below.
   e. Inspect any rejected copies. Inquire as to, or otherwise determine, the paper quality and weight. The specified papers for optimum image quality with this machine are 24 lb. Xerox Color Xpressions Plus (XC) or 90 gsm Colortech + (XE). Look for any damage to the copies, oil marks, image quality defects, or other indications of a problem.
   f. Record the billing meter readings.
   g. Enter the CE Mode (see Entering and Exiting CE Mode).
   h. Go to Printing CSE Reports. and print an HFSI report.

      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.*

   i. Determine what HSFI action is required based on the customer output volume. Refer to the Detailed Maintenance Activities section for the detailed HSFI information. Record any items that require action.
   j. Access UI Diagnostics see Accessing UI Diagnostics and select Faults and display and record the information in the Jam Counter, Failure Counter, and the 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.
   k. 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 HSFI 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

NOTE: *Go to SGS 8 o'clock 'Top Problems', check for problems that are associated with the this machine problem. If no problems are found in the Top Problem table, return here and continue.*

NOTE: *If customers cannot access machine functions because Xerox Secure Access is not functioning properly go to OF 13-1 to repair the problem, then return here and continue.*

Switch on the Main Power. **There is some luminance in the UI display.**

Y N

Switch on the Main Power. **There are operational fans and UI LED's and a recognizable image on the UI.**

Y N

Switch on the Main Power. While observing indications of power such as 2nd BTR movement in the IOT, or Scanner movement, or fans in the Controller or IOT, or indicators on the UI. **There is at least one indication of power.**

Y N

Go to the OF 1-4 AC Input Power RAP.

Switch on the Main Power. **The Touch Screen is black (no recognizable image is visible).**

Y N

Go to the OF 1-5 Power On RAP.

Go to the OF 2-1 Dark / Blank Control Panel RAP

The reported problem occurs in Print Mode ONLY.

Y N

Place the Color Test Pattern on the Document Glass. Make a copy from each paper tray. **The Copier/Printer can copy from all trays.**

Y N

NOTE: *Some codes will appear only in the Last 40 Faults list Other faults (paper feed and Tray Module faults) appear only as messages on the UI; fault codes for these problems are generated only when the machine is operated (printing test patterns) in diagnostic mode.*

A fault code is displayed.

Y N

The problem is related to a specific paper tray (for example, erroneous "Tray X out of Paper" message).

Y N

For intermittent problems, Go to GP 4.

A B C D

Enter CE Mode, (see Entering and Exiting CE Mode) and Access UI Diagnostics (see Accessing UI Diagnostics. Select Print Test Patterns and Print Test Pattern 2 from the suspect tray. When a fault is declared, go to the RAP for that fault code.

Go to the RAP for the displayed fault.

Place two originals into the DADF and program a duplex job. **The Copier/Printer can copy from the DADF.**

Y N

A fault code is displayed.

Y N

Check the DADF Document Sensors for debris or damage. Check the mechanical drives and Feed Rolls for contamination, wear, damage, or binding.

Go to the RAP for the displayed fault code.

Check the image quality in the BASIC COPIER MODE:

- Select a tray that is loaded with 11 X 17 or A3 paper.
- Select the following parameters:
  - Output Color to **Auto**
  - Original Type to **Photo and Text Halftone**
  - Reduce/Enlarge **Auto**
  - Lighter/Darker to **Auto Contrast**
  - Sharpness to **Normal**
  - Preset Color Balance **Normal**
  - Color Shift to **Normal**
  - Color Saturation to **Normal**
  - Copy Position to **No Shift**
  - Variable Color Balance **Normal**
- Run four copies of the Color Test Pattern.

The Image Quality of the copies produced is acceptable.

Y N

Go to the IQ1 RAP.

Go to Final Actions.

The problem occurs in all print jobs.

Y N

If the problem is specific to a single application or group of applications, ensure that current drivers are loaded. If the problem persists, escalate the call to the Customer Support Center.

Go to GP 1 (Network Printing Simulation) and send a print job. **An acceptable print is produced.**

Y N

- verify machine settings
- reload system software

E

E

- replace the ESS PWB (PL 13.2 WC7228/35/45 WC 7328/35/45).

The problem is in the customer network or the setup. Check the following:

- Ensure that the Static IP/DHCP setting matches the customer's network
- Verify that the IOT IP address is correct.

When resolved, go to Final Actions.

Detailed Maintenance Activities (HFSI)

Procedure

1. Clean the ADC Sensor on every call.
2. Enter CE Mode see Entering and exiting CE mode and select Initialize HFSI Counter.
3. Perform the Service Actions in Table 1 for any High Frequency Service Item (HFSI) counters that are over threshold or approaching the threshold. Using the customer's output volume numbers (high, medium, or low volume), evaluate which HFSI actions should be performed now to avoid an additional service call in the near future.
4. Refer to Cleaning Procedures for detailed cleaning instructions.

Table 1 High Frequency Service Items

Counter	Name	Threshold	Service Action to be performed
006-802	IIT Scan No. of scans (Including pre-scan) after HFSI counter cleared		No action required - counter only
955-806	Document Feed No. of DADF Feed after HFSI Counter Cleared.	2400000	No action required - counter only
954-801	IBT Belt Assembly	600K increments by 1 for letter size or smaller; by 2 for longer than letter size	Replace the IBT Assembly (PL 5.2)
954-802	2nd BTR Unit	150K	Replace the 2nd BTR Unit (PL 2.8)
954-803	Transfer Belt Cleaner Assy	150K	Replace the Transfer Belt Cleaner (PL 5.2) Warning at 98.5K
954-804	Fuser	15,000,000 counts Area conversion, with A4L = 100 counts/sheet, 8.5x11 = 96 counts/sheet, 11x17 = 193 counts/sheet, A3 = 200 counts/sheet, etc.	Replace the Fuser (PL 7.1) Warning at 14,700,000 counts
954-806	Tray 1 Feed counter	300K	Replace the Roll Kit (PL 2.5).
954-807	Tray 5 Feed counter	300K	Replace the Feed Roll Assembly and Retard Pad (PL 2.13).
954-808	Tray 2 Feed counter	300K	Replace the Roll Kit (PL 16.8 for TTM or PL 15.4 for 3TM).

Table 1 High Frequency Service Items

Counter	Name	Threshold	Service Action to be performed
954-809	Tray 3 Feed counter	300K	Replace the Roll Kit (PL 16.10 for TTM or PL 15.6 for 3TM).
954-810	Tray 4 Feed counter	300K	Replace the Roll Kit (PL 16.12 for TTM or PL 15.8 for 3TM).
954-811	Black Developer Housing	592800 increments by 1 for letter size or smaller; by 2 for longer than letter size	Replace Black Developer Housing PL 6.2
954-812	Cyan Developer Housing	592800 increments by 1 for letter size or smaller; by 2 for longer than letter size	Replace Cyan Developer Housing PL 6.2
954-813	Magenta Developer Housing	592800 increments by 1 for letter size or smaller; by 2 for longer than letter size	Replace Magenta Developer Housing PL 6.2
954-814	Yellow Developer Housing	592800 increments by 1 for letter size or smaller; by 2 for longer than letter size	Replace Yellow Developer Housing PL 6.2

Cleaning Procedures

Purpose

The purpose is to provide cleaning procedures to be performed at every 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. **ROS Windows**

   Use the cleaning wand to clean the ROS windows (follow the procedure in the User Guide).
3. **Toner Dispense Units**

   Vacuum the Toner Dispense units.
4. **Jam Sensors**

   Clean the sensors with a dry cotton swab.
5. **IBT Cleaning**

   Check the Transfer Belt surface and wipe with a dry lint free cloth. If the surface is excessively dirty, replace the Transfer Belt (PL 5.3).

   Do not rub the IBT Cleaning Blade. If it is necessary to clean the blade, use a soft brush or dry swab to brush away contamination. Rubbing will remove the protective coating on the blade.
6. **Fuser Components** (best cleaned when hot)

   Wipe with a lint free cloth.
7. **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.
8. **DADF**

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

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

Final Actions

Purpose

The intent of this procedure is to be used as a guide to follow 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. Conduct any operator training that is needed. Ensure that the operator understands that the Automatic Gradation Adjustment procedure in the User Guide should be used to calibrate the colors.
4. Complete the Service Log.
5. Perform the following steps to make a copy of the Demonstration Original for the Customer:
   a. Load Tray 1 with 8.5 x 11 inch (A4) or 11 x 17 inch paper.
   b. Place the Color Test Pattern on the glass with the short edge of the test pattern registered to the left edge of the glass. Select Tray 1 and make a single copy.
   c. Print out the Machine Settings (Configuration Report). Store this report with the service log in Tray 1.
   d. Ask the customer to verify the Print and Scan functions.
   e. Present the copies to the customer.
6. Go to dC351 and select **Save Machine Settings**. When the save is complete, exit the PWS Tool. Save the machine data to the PWS.
7. Reconnect the machine to the customer network. Verify function.
8. Issue copy credits as needed.
9. Discuss the service call with the customer to ensure that the customer understands what has been done and is satisfied with the results of the service call.

2 Status Indicator RAPs

005 - DADF

010 - Fusing and Post-Fuser Xprt.

012 - Office Finisher

012 - A/P Finisher

013 - A/P Finisher

016 - ESS

018 - LDAP

021 - FI

024 - IOT-ESS Communication

025 - HDD

027 - Mail

033 - Fax Control

034 - Fax Communication

035 - Fax Network

036 - Fax Parameter

127 - Software

133 - Fax Control

134 - Fax Card

202 - Timer

Other Faults

001-300 Left Cover RAP

BSD-ON: 1.9 (Figure 9)

Procedure

Enter Component Control [001-301] and press Start. Open and close Left Cover (PL 2.7). **Display changes state.**

Y N

Measure the voltage between +24 LVPS P/J502-1 and GND(-). **+24 VDC measured.**

Y N

Go to the OF 1-3 RAP.

Remove Rear Cover (REP 14.2). Disconnect P/J172 from Left Cover Interlock Switch (PL 2.10). Check resistance between A1 and B1 when switch is actuated. **Resistance is less than 3 ohms.**

Y N

Replace Left Cover Interlock Switch (PL 2.10).

Reinstall switch. Close the Left Cover (PL 2.7). Measure the voltage at P/J535-B13 on the I/F (MDD) PWB. **+24 VDC measured.**

Y N

Repair the open circuit between the +24 VDC LVPS and the I/F (MDD) PWB.

Replace the I/F (MDD) PWB (PL 9.1).

If the problem continues, replace the MCU PWB (PL 13.1).

Check installation of Cover/Actuator.

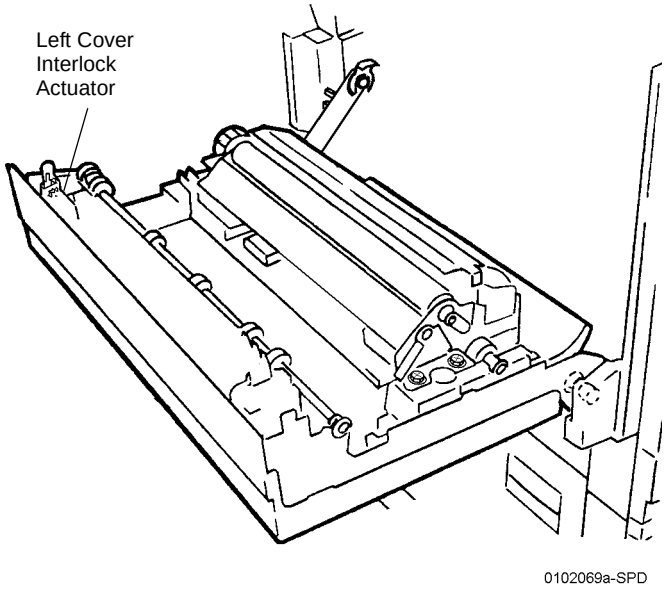


Figure 1 Left Cover Interlock Actuator Location

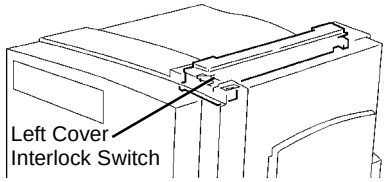


Figure 2 Left Cover Interlock Switch Location

001-301 Left Lower Cover RAP

BSD-ON: 8.2B (Figure 3)

Left Lower Cover (Area 3) is open

Procedure

Enter Component Control [001-302] and press Start. Open Left Lower Cover. Actuate Left Lower Cover Interlock Switch (PL 2.3) with screwdriver. **Display changes state.**

Y N

Go to the OF 99-3 RAP and repair LH Lower Cover Interlock Switch (PL 2.3).

Check Sensor, Actuator and Left Lower Cover installation (PL 2.3).

001-302 Front Cover/Right Side Cover RAP

BSD-ON: 1.9 (Figure 9)

Front Cover or the Right Side Cover is open.

Initial Actions

NOTE: *The* ***Open Door*** *message on the UI DOES NOT show the Right Cover.*

Check the operation of the Actuator and the switch for Front Cover and Right Side Cover.

Procedure

Open the Front Cover. Cheat the Front and RightInterlock Switches (PL 10.1). **The Cover Open message is cleared.**

Y N

+24VDC is measured between the I/F (MDD) PWB P/J531-1 (+) and GND (-).

Y N

+24VDC is measured between the Front Interlock Switch P/J171-B1 (+) and GND (-).

Y N

+24VDC is measured between the Front Interlock Switch P/J171-A1 (+) and GND (-).

Y N

Repair the open circuit between the Left Cover Interlock Switch P/J172-B1 and the Front Interlock Switch P/J171-A1.

Replace the Front Interlock Switch (PL 10.1).

+24VDC is measured between the Right Interlock Switch **J173-B1 (+) and GND (-)**

Y N

+24VDC is measured between the Right Interlock Switch **J173-A1 (+) and GND (-).**

Y N

Repair the open circuit between the Front Interlock Switch P/J171-B1 and the Right Interlock Switch J173-A1.

Replace the Right Interlock Switch (PL 10.1).

Check the wire for an open circuit between the Right Interlock Switch J173-B1 and P/J531-1 on the I/F (MDD) PWB.

Replace the I/F (MDD) PWB (PL 9.1).

If the problem continues, replace the MCU PWB (PL 13.1).

Check installation of Cover/Actuator (PL 10.1).

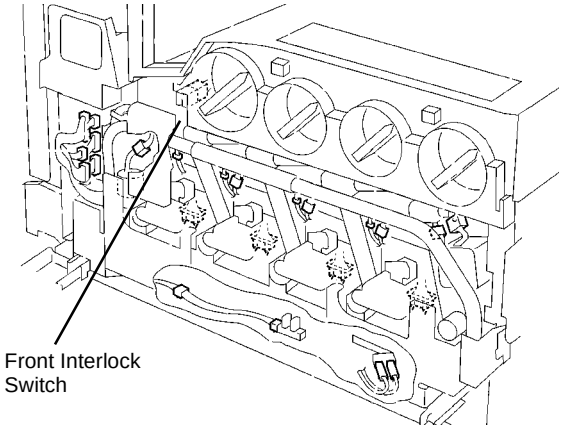


Figure 1 Front Interlock Switch Location

001-303 Tray Module Left Door RAP

BSD-ON: 1.11 (Figure 11)

Tray Module Left Door (Area 4) is open.

Procedure

Enter Component Control [001-304] and press Start. Actuate Tray Module LH Cover Interlock Switch (PL 16.13 TTM, PL 15.10 3TM) with a screwdriver. **Display changes state.**

Y N

Check voltage between Tray Module PWB P/J554-3(+) and GND(-). **+24 VDC is measured.**

Y N

Check the wires from the Tray Module PWB P/J554-3 to Tray Module Cover Interlock Switch FS813 for damage. If the wires are good, replace Tray Module Cover Interlock Switch (PL 16.13 TTM, PL 15.10 3TM).

Replace Tray Module PWB (PL 16.15 TTM, PL 15.9 3TM).

Check Cover Actuator and Cover installation (PL 16.13).

001-306 Duplex Door RAP

BSD-ON: 10.5 (Figure 7)

Duplex Door (Area 2) is open.

Procedure

Enter Component Control [008-300] and press **Start**. Open Duplex Transport. Actuate Duplex Cover Interlock Switch (PL 12.2) with a screwdriver. **Display changes state.**

Y N

Deactuate Duplex Cover Interlock Switch. Check voltage on the Drawer Connector between P/ J626-A6 (+) and GND(-). **+5 VDC is measured.**

Y N

Check voltage between P/J406-A6 on the MCU PWB and GND(-). **+5 VDC is measured.**

Y N

Replace the MCU PWB (PL 13.1).

Check for an open circuit between P/J406-A6 on the MCU PWB and Drawer Connector P/ J626-A6

Check the wires between Drawer Connector P/ J626-A6 and Duplex PWB P/J540-1. If the wires are good, replace the Duplex Cover Interlock Switch (PL 12.2).

Check Cover Actuator and Cover installation. If the problem continues, replace the MCU PWB (PL 13.1).

002-770 JT Processing - HDD Full RAP

HDD becomes Full during Job Template processing while in a job and also when the job is cancelled.

Procedure

Complete processing of the job (documents) stored in that partition of HDD and delete the job to make space on the HDD.

003-318 IIT Software RAP

The IIT software is corrupt.

Procedure

Reload Software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).

003-319 IIT Video Driver Detection RAP

One of the following errors is detected:

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

Procedure

Reload Software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).

003-320 IISS-ESS Communication 1 RAP

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

Procedure

Disconnect and reconnect the IIT Harness (PL 18.3).

Reload Software (GP 7).

If the problem persists, replace the IIT/IPS PWB (PL 18.3).

003-321 IISS-ESS Communication 2 RAP

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

Procedure

Disconnect and reconnect the IIT Harness (PL 18.3).

Reload Software (GP 7).

If the problem persists, replace the IIT/IPS PWB (PL 18.3).

003-322 IISS-ESS Communication 3 RAP

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

Procedure

Disconnect and reconnect the IIT Harness (PL 18.3).

Reload Software (GP 7).

If the problem persists, replace the IIT/IPS PWB (PL 18.3).

003-323 IISS-ESS Communication 4 RAP

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

Procedure

Disconnect and reconnect the IIT Harness (PL 18.3).

Reload Software (GP 7).

If the problem persists, replace the IIT/IPS PWB (PL 18.3).

003-324 IISS-ESS Communication 5 RAP

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

Procedure

Disconnect and reconnect the IIT Harness (PL 18.3).

Reload Software (GP 7).

If the problem persists, replace the IIT/IPS PWB (PL 18.3).

003-325 IISS-ESS Communication 6 RAP

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

Procedure

Disconnect and reconnect the IIT Harness (PL 18.3).

Reload Software (GP 7).

If the problem persists, replace the IIT/IPS PWB (PL 18.3).

003-326 IISS-ESS Communication 7 RAP

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

Procedure

Disconnect and reconnect the IIT Harness (PL 18.3).

Reload Software (GP 7).

If the problem persists, replace the IIT/IPS PWB (PL 18.3).

003-327 IISS-ESS Communication 8 RAP

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

Procedure

Disconnect and reconnect the IIT Harness (PL 18.3).

Reload Software (GP 7).

If the problem persists, replace the IIT/IPS PWB (PL 18.3).

003-328 IISS-ESS Communication 9 RAP

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

Procedure

Disconnect and reconnect the IIT Harness (PL 18.3).

Reload Software (GP 7).

If the problem persists, replace the IIT/IPS PWB (PL 18.3).

003-329 IISS-ESS Communication 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.)

Procedure

Disconnect and reconnect the IIT Harness (PL 18.3).

Reload Software (GP 7).

If the problem persists, replace the IIT/IPS PWB (PL 18.3).

003-330 IISS-ESS Communication 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.)

Procedure

Disconnect and reconnect the IIT Harness (PL 18.3).

Reload Software (GP 7).

If the problem persists, replace the IIT/IPS PWB (PL 18.3).

003-331 IISS-ESS Communication 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.)

Procedure

Disconnect and reconnect the IIT Harness (PL 18.3).

Reload Software (GP 7).

If the problem persists, replace the IIT/IPS PWB (PL 18.3).

003-332 IISS-ESS Communication 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.)

Procedure

Disconnect and reconnect the IIT Harness (PL 18.3).

Reload Software (GP 7).

If the problem persists, replace the IIT/IPS PWB (PL 18.3).

003-333 IISS-ESS Communication 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.)

Procedure

Disconnect and reconnect the IIT Harness (PL 18.3).

Reload Software (GP 7).

If the problem persists, replace the IIT/IPS PWB (PL 18.3).

003-334 IISS-ESS Communication 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.)

Procedure

Disconnect and reconnect the IIT Harness (PL 18.3).

Reload Software (GP 7).

If the problem persists, replace the IIT/IPS PWB (PL 18.3).

003-335 IISS-ESS Communication 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.)

Procedure

Disconnect and reconnect the IIT Harness (PL 18.3).

Reload Software (GP 7).

If the problem persists, replace the IIT/IPS PWB (PL 18.3).

003-336 IISS-ESS Communication 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.)

Procedure

Disconnect and reconnect the IIT Harness (PL 18.3).

Reload Software (GP 7).

If the problem persists, replace the IIT/IPS PWB (PL 18.3).

003-337 IISS-ESS Communication 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.

Procedure

Disconnect and reconnect the IIT Harness (PL 18.3).

Reload Software (GP 7).

If the problem persists, replace the IIT/IPS PWB (PL 18.3).

003-338 IISS-ESS Communication 19 RAP

The driver detected an incorrect send parameter.

Procedure

Reload Software (GP 7).

Pull out and insert or replace the IIT Cable.

003-339 IISS-ESS Communication 20 RAP

The establishment of parameter transmission failed.

Procedure

Reload Software (GP 7).

Pull out and insert or replace the IIT Cable.

003-340 IISS-ESS Communication 21 RAP

A parameter synchronization error during sending occurred.

Procedure

Reload Software (GP 7).

Pull out and insert or replace the IIT Cable.

003-341 IISS-ESS Communication 22 RAP

A parameter transmission error during sending occurred.

Procedure

Reload Software (GP 7).

Pull out and insert or replace the IIT Cable.

003-342 IISS-ESS Communication 23 RAP

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

Procedure

Reload Software (GP 7).

Pull out and insert or replace the IIT Cable.

003-343 IISS-ESS Communication 24 RAP

A parameter synchronization error during receiving occurred.

Procedure

Pull out and insert or replace the IIT Cable.

Reload Software (GP 7).

003-344 Hotline Power On

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

Initial Actions

Power On/Off

Procedure

Disconnect and reconnect the IIT Harness (PL 18.3).

If the problem persists replace the IIT/IPS PWB (PL 18.3).

If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).

003-345 PIO Unlatched 1 RAP

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

Procedure

Disconnect and reconnect the IIT Harness (PL 18.3).

If the problem persists replace the IIT/IPS PWB (PL 18.3).

If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).

003-346 PIO Unlatched 2 RAP

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

Procedure

Disconnect and reconnect the IIT Harness (PL 18.3).

If the problem persists replace the IIT/IPS PWB (PL 18.3).

If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).

003-701 Duplication Prevention Code Detect RAP

When document being scanned, HWM Detect Hardware detects duplication prevention code in the document data.

Procedure

Fault detection due to Hybrid WaterMark PWB failure. To replace Hybrid WaterMark PWB.

003-750 Book Duplex Documents RAP

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

Procedure

Ask customer to check the Book Duplex setup menu.

003-751 Panther Capacity RAP

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

Procedure

Ask customer to use a backup page behind the document.

003-752 600dpi Cannot be Scanned RAP

This status code is displayed if 600dpi cannot be scanned (DADF).

Procedure

Perform scanning below 400 dpi resolution or perform scanning in other than mixed mode.

If powering OFF then ON does not resolve the problem, perform the following:

1. Check the connection between IT/IPS PWB and ESS PWB.
2. Replace IIT/IPS PWB (PL 18.3).
3. Replace ESS PWB (PL 13.2/PL 13.4).

003-753 300dpi Cannot be Scanned RAP

This status code is displayed if over 300dpi cannot be scanned (DADF).

Procedure

- Perform scanning below 200 dpi resolution.

  Or perform scanning in other than mixed mode.
- If powering OFF then ON does not resolve the problem, perform the following:
  1. Check the connection between IT/IPS PWB and ESS PWB.
  2. Replace IIT/IPS PWB (PL 18.3).
  3. Replace ESS PWB (PL 13.2/PL 13.4).

003-754 S2X Recovery RAP

There is a recoverable S2X error. (WorkCentre 7228 only)

Initial Actions

Power Off/On

Procedure

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

003-755 S2X Command Error RAP

There is an S2X command error. (WorkCentre 7228 only)

Initial Actions

Power Off/On

Procedure

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

003-756 Blank Originals RAP

No image data was scanned from the documents.

Initial Actions

Power Off/On

Procedure

Disconnect and reconnect the IIT Harness (PL 18.3).

Reload Software (GP 7).

If the problem persists, replace the IIT/IPS PWB (PL 18.3).

003-757 400dpi Cannot be Scanned RAP

This status code is displayed if over 400dpi cannot be scanned (DADF).

Procedure

- Perform scanning at 300 dpi or lower resolution or perform scanning in other than mixed mode.
- If powering OFF then ON does not resolve the problem, perform the following:
  1. Check the connection between IT/IPS PWB and ESS PWB.
  2. Replace IIT/IPS PWB (PL 18.3).
  3. Replace ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).

003-760 Scan Settings RAP

The job properties are incorrect.

Procedure

Ask customer to verify the setups.

If the problem persists disconnect and reconnect the IIT Harness (PL 18.3).

If the problem persists reload Software (GP 7).

If the problem persists, replace the IIT/IPS PWB (PL 18.3).

003-761 Incorrect Paper Tray Size RAP

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

Procedure

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

003-763 Adjustment Chart RAP

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

Procedure

Place the Automatic Gradation Correction Chart correctly.

003-764 Image Overlay RAP

There is an image overlay problem.

Initial Actions

Power Off/On

Procedure

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

003-780 Scanned Image Compression RAP

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

Procedure

Ask customer to cancel and rerun the job.

If the problem persists disconnect and reconnect the IIT Harness (PL 18.3).

If the problem persists reload Software (GP 7).

If the problem persists, replace the IIT/IPS PWB (PL 18.3).

003-795 AMS Limit RAP

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

Initial Actions

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

Procedure

If the problem persists disconnect and reconnect the IIT Harness (PL 18.3).

If the problem persists reload Software (GP 7).

If the problem persists, replace the IIT/IPS PWB (PL 18.3).

003-930 300 DPI Scan RAP

There is a problem scanning 300 DPI.

Procedure

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

003-931 400 DPI Scan RAP

There is a problem scanning 400 DPI.

Procedure

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

003-932 600 DPI Scan RAP

There is a problem scanning 600 DPI.

Procedure

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

003-933 300 DPI Scan RAP

There is a problem scanning 300 DPI on successive documents.

Procedure

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

003-934 400 DPI Scan RAP

There is a problem scanning 400 DPI on successive documents.

Procedure

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

003-935 600 DPI Scan RAP

There is a problem scanning 600 DPI on successive documents.

Procedure

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

003-940 Memory RAP

A scanner memory limit is reached.

Procedure

Power Off/On.

If the problem persists replace the IIT/IPS PWB (PL 18.3)

003-942 Document Size Auto Detect RAP

The document size cannot be automatically detected.

Procedure

Ask customer to manually set the document size.

003-944 Image Repeat Count RAP

No complete images are output using Automatic Size.

Procedure

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

003-946 Image Rotation (Copy APS) RAP

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

Initial Actions

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

Procedure

Replace the IIT/IPS PWB (PL 18.3).

003-947 Return Documents Count RAP

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

Procedure

Check the number of documents and repeat the operation.

003-948 Return Documents Mismatch RAP

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

Procedure

Check the document setup and repeat the operation.

003-952 Document Color Mismatch RAP

There is a color mismatch among returned documents.

Procedure

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

If the problem persists, replace the IIT/IPS PWB (PL 18.3).

003-955 Documents Size Exchange RAP

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

Initial Actions

Check the document size/orientation and repeat the operation.

Procedure

Replace the DADF PWB (PL 20.3).

If the problem persists, replace the IIT/IPS PWB (PL 18.3).

003-956 Document Size Unknown Error RAP

Documents Size Unknown Error. The platen was selected and the size of the original cannot be specified (only applies to APS).

Procedure

Enter a document size from the Panel or select a tray.

If powering OFF then ON does not resolve the problem, perform the following:

1. Check the connection between IT/IPS PWB and ESS PWB.
2. Replace IIT/IPS PWB (PL 18.3).
3. Replace ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

003-963 APS Object Tray RAP

The correct size is not loaded for APS operation.

Initial Actions

Check Tools mode. Ensure that the affected tray has not been excluded from Auto Tray Switching (Customer Tools/Paper tray Priority settings).

Procedure

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

003-965 ATS/APS Paper Detect RAP

The correct size is not loaded for APS operation.

Procedure

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

003-966 ATS/APS Destination (IIT) RAP

The correct size is not loaded for APS operation.

Procedure

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

003-967 DADF APS No Destination RAP

- Document size with DADF 8.5×11SEF Document size input not included.
- Mix Size is not selected.
- Magnification is variable.

APS Copy job with the above is designated but the tray to be selected is not available.

Although A4SEF original is set, it is detected as 8.5×11SEF.

Procedure

1. Load tray with the paper of the size displayed on the Panel or select the tray in which the paper requested is loaded.
2. If A4SEF document is detected as Letter document, cancel the job and then readjust DADF document guide securely until they touches the edges of the documents. Re-run the job.

003-968 Punch Position Error RAP

Punch Position Error. It is not possible to punch at the selected location.

Procedure

- Specify an appropriate punch position, clear Punching or cancel Punch, and execute the job again.
- If powering OFF then ON does not resolve the problem, perform the following:
  1. Check the connection between IIT/IPS PWB and ESS PWB.
  2. Replace IIT/IPS PWB (PL 18.3).
  3. Replace ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

003-969 Punch Size Error RAP

Punch Size Error, it is not possible to punch with the selected paper size.

Procedure

- Clear Punching and retry.
- If powering OFF then ON does not resolve the problem, perform the following:
  1. Check the connection between IT/IPS PWB and ESS PWB.
  2. Replace IIT/IPS PWB (PL 18.3).
  3. Replace ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

003-972 Maximum Stored Page RAP

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

Procedure

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

003-973 Image Rotation RAP

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

Procedure

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

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

003-974 Next Original Specification RAP

Scanning is complete for all loaded documents.

Procedure

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

003-976 FAX Line Memory Overflow RAP

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

Initial Actions

Power Off/On

Procedure

Check the electrical connections on the FAX PWB (PL 9.4).

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

If the problem persists replace the FAX PWB (PL 9.4).

003-977 Document Mismatch (Multiple Scan) RAP

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

Procedure

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

003-978 Color Document Mismatch RAP

Color Document Mismatch (Multi Scan).

1. The originals were replaced during consecutive page copying, or ‘as book’, or during poster scanning.
2. In a multi-scan job on the platen (consecutive page copying, ‘as book’, or poster), there was motion that accompanied the replacement of the originals, and the user replaced originals with a different size from before, or replaced originals with a different color for ACS.

Procedure

- Reload a correct size paper and resume operation.
- If powering OFF then ON does not resolve the problem, perform the following:
  1. Check the connection between IT/IPS PWB and ESS PWB.
  2. Replace IIT/IPS PWB (PL 18.3).
  3. Replace ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

003-980 Staple Position RAP

Stapling could not be done at the specified position.

Procedure

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

003-981 Staple Size RAP

Stapling could not be done for the selected paper size.

Procedure

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

004-322 Main Motor Fail

BSD-ON: BSD 4.1A (Figure 1)

The Main Motor does not start within the specified time.

Initial Actions

Switch the power off, then on.

Procedure

Enter Component Control [004-004] (Main Motor). **The Main Motor turns.**

Y N

There is +24 VDC between P/J536, pins 11(+) and 8(-) on the I/F PWB (MDD).

Y N

There is 24 VDC between P/J531, pin 5 on the I/F PWB (MDD) and GND.

Y N

There is 24 VDC between P/J502, pin 1 on the 24V LVPS and GND.

Y N

Go to the OF 1-3 RAP.

Check the wires between P/J502 (BSD 1.7 - Figure 7) and P/J531 (BSD 1.9 - Figure 9).

Replace the I/F PWB (MDD) (PL 9.1)

Enter Component Control [004-004]. Make the following voltage checks at P/J536 on the I/F PWB (MDD):

- pin 5: Low (less than 1 VDC)
- pin 6: Low (less than 1 VDC)
- pin 7: High
- pin 2: approximately 2.5 ~ 3 VAC

All voltage checks are good

Y N

Replace the MCU PWB (PL 13.1). If the problem continues, replace the I/F PWB (MDD) (PL 9.1).

Check the wires between P/J536 on the I/F PWB and J203 on the Main Motor Assembly (BSD 4.1A - Figure 1).
Check the drive belts and gears for binding or damage (BSD 4.1B - Figure 2).
If the checks are good, replace the Main Motor Assembly (PL 1.1).

There is less than 1 VDC at P/J536 pin 3.

Y N

Check the wire between P/J203 pin 8 on the Main Motor Assembly and P/J536 pin 3 on the I/F PWB (MDD) for an open circuit. If the wire is OK, replace the Main Motor Assembly (PL 1.1).

Check the wire between P/J203 pin 8 on the Main Motor Assembly and P/J536 pin 3 on the I/F PWB (MDD) for a short circuit. If the wire is OK, replace the MCU PWB (PL 13.1). If the problem remains, replace the /F PWB (MDD) (PL 9.1).

004-331 MCU Failure

BSD-ON: BSD 1.7 Figure 7

MCU PWB Fuse failure

Procedure

Check Fuse #1 on the MCU PWB. **The Fuse is bad.**

Y N

Replace the MCU PWB (PL 13.1).

Replace the Fuse. If the problem continues, check the wires and components powered through F1 (refer to +24 VDC Wirenets, Figure 2) for a short circuit.
If no short circuit is found, replace the MCU PWB (PL 13.1).

004-332 MCU Failure

BSD-ON: BSD 1.7 Figure 7

MCU PWB Fuse failure

Procedure

Check Fuse #2 on the MCU PWB. **The Fuse is bad.**

Y **N**

Replace the MCU PWB (PL 13.1).

Replace the Fuse. If the problem continues, check the wires and components powered through F2 (refer to +24 VDC Wirenets, Figure 2) for a short circuit.

If no short circuit is found, replace the MCU PWB (PL 13.1).

004-333 MCU Failure

MCU PWB Fuse failure

Procedure

Check Fuse #3 on the MCU PWB. **The Fuse is bad.**

Y **N**

Replace the MCU PWB (PL 13.1).

Replace the Fuse. If the problem continues, check the wires and components powered through F3 (refer to +24 VDC Wirenets, Figure 2) for a short circuit.

If no short circuit is found, replace the MCU PWB (PL 13.1).

004-334 I/F (MDD) PWB Failure

BSD-ON: BSD 1.7 Figure 7

I/F (MDD) PWB Fuse #1 failure

Procedure

Replace the I/F (MDD) PWB (PL 9.1).

004-335 I/F (MDD) PWB Failure

BSD-ON: BSD 1.9 Figure 9

I/F (MDD) PWB Fuse #2 failure

Procedure

Replace the I/F (MDD) PWB (PL 9.1).

004-336 I/F (MDD) PWB Failure

BSD-ON: BSD 1.9 Figure 9

I/F (MDD) PWB Fuse #3 failure

Procedure

Replace the I/F (MDD) PWB (PL 9.1).

004-337 I/F (MDD) PWB Failure

BSD-ON: BSD 1.9 Figure 9

I/F (MDD) PWB Fuse #4 failure

Procedure

Replace the I/F (MDD) PWB (PL 9.1).

004-338 I/F (MDD) PWB Failure

BSD-ON: BSD 1.7 Figure 7

I/F (MDD) PWB Fuse #5 failure

Procedure

Replace the I/F (MDD) PWB (PL 9.1).

004-340 IOT RAM Failure

BSD-ON: BSD 3.1 Figure 1

MCU PWB RAM test failed.

Procedure

Switch the power off, then on. **The problem continues.**

Y N

Return to Service Call Procedures.

Check the connection between the MCU PWB and the MCU NVM PWB. If the check is OK, replace the MCU PWB (PL 13.1).

CAUTION

Careful replacement of the MCU NVM PWB (REP 1.2.1) is important to avoid serious machine failure.

If the problem continues, replace the MCU NVM PWB (PL 13.1).

004-341 IOT Logic Failure

BSD-ON: BSD 1.10 Figure 10

MCU PWB cannot detect INTLK +5 VDC.

Initial Actions

- Check that the Waste Toner Bottle and all four Drum Cartridges are seated correctly.
- Check fault history for 9-925 faults. If this fault has occurred recently, go to the 009-925 RAP.
- Check that the I/F (MDD) PWB is securely connected to the MCU PWB at P410.
- Reinstall the IOT software. Refer to GP 7.

Procedure

There is +5VDC from P/J537-A7 on the I/F (MDD) PWB to GND.

Y N

There is +5VDC from P/J631-1 to GND.

Y N

There is +5VDC from P/J631-3 to GND.

Y N

Check the wire from FS134 to P/J631-3 for an open circuit.

Check the +5VDC INTLK wiring through the Drum connectors (P/J151 - P/J154). If the wires are OK, check the CRUM connectors on the Drum Cartridges for damage, wear, or contamination. Clean, repair, or replace as required (PL 4.1).

Check for an open circuit between P/J631-1 and P/J568-2 on the Interlock Relay PWB (PL 9.1). If this wire is OK, check for an open circuit between P/J535-B13 and P/J568-1. If this wire is OK, replace the Interlock Relay PWB (PL 9.1).

There is +5VDC from P/J401-B20 to GND.

Y N

There is +5VDC from P/J400-4 to GND.

Y N

Check the wire from J568-5 to J400-9 for an open circuit. If the wire is OK, replace the Interlock Relay PWB (PL 9.1).

Check the four wires from J401 to P/J526 - P/J529 on the ROS for a short circuit. If the wires are OK, replace the MCU PWB (PL 13.1). If the problem continues, replace the ROS (PL 3.1).

Check the wires between the MCU PWB and the ROS for an open circuit or loose connection:

- J401-A1 to J527-1
- J401-A2 to J526-1
- J401-B19 to J528-1
- J401-B20 to J529-1

If the wires are OK, replace the MCU PWB (PL 13.1). If the problem continues, replace the ROS (PL 3.1).

004-342 Flash ROM Limit Failure

Limit failure of Flash ROM

Procedure

Switch the power off, then on. **The problem continues.**

Y N

Return to Service Call Procedures.

Replace the MCU PWB (PL 13.1).

004-343 IOT Flash ROM Read Write

Flash ROM operation failure.

Procedure

Switch the power off, then on. **The problem continues.**

Y **N**

Return to Service Call Procedures.

Replace the MCU PWB (PL 13.1).

004-344 IOT Micro Pitch

The micro pitch did not occur within the specified time.

Procedure

Switch the power off, then on. **The problem continues.**

Y **N**

Return to Service Call Procedures.

Replace the MCU PWB (PL 13.1).

004-345 MCU/HVPS Communication

BSD-ON: 3.2 Figure 2

Communication error between MCU PWB and HVPS Control PWB

Procedure

There is +5 VDC from P/J574-5 to P/J574-4 on the HVPS Control PWB.

Y N

Disconnect P/J574. **There is +5 VDC from J574-5 to J574-4.**

Y N

There is +5 VDC from P/J406-B5 on the MCU PWB to GND.

Y N

Go to the OF 1-2A IOT +5 VDC RAP.

Check for open circuit or loose connections in the 5VDC supply wires between P/J406, pins B5 and B6; and P/J574, pins 5 and 4.

Check the wire from J406-B5 to J574-5 for a short circuit to GND. If the wire is OK, replace the HVPS Control PWB (PL 9.1).

Switch off the power. Check these wires for an open or short circuit to GND:

- HVPS Control PWB P/J574-9 to MCU PWB P/J406-B1.
- HVPS Control PWB P/J574-8 to MCU PWB P/J406-B2.
- HVPS Control PWB P/J574-7 to MCU PWB P/J406-B3
- HVPS Control PWB P/J574-6 to MCU PWB P/J406-B4.

If the problem continues, replace the MCU PWB (PL 13.1). If this does not resolve the problem, replace the HVPS Control PWB (PL 9.1).

004-346 Transfer Belt Home

BSD-ON: 9.19 Figure 20, 9.17 Figure 18

The IBT Home Sensor does not detect the Belt Home signal.

NOTE: *If this fault is declared 3 times in succession, print mode will be disabled. In order to clear this condition, reset NVM location 741-056 to 0 in NVM Read/Write.*

Initial Actions

Check the following:

- If the fault occurs immediately after installation, ensure that the IBT shipping brackets on the left side of the IBT Assembly have been removed.
- Check that the Transfer Belt Cleaner is not damaged, binding, or incorrectly assembled.
- Ensure that the Transfer Belt is clean, free from damage, and that the Home position reflector is intact.

Procedure

- If any Developer Housings were just serviced, verify installation is correct (REP 9.9).
- If the IBT was just serviced, verify the installation is correct (REP 9.15).
- If a Finisher status code occurred just before the 004-346 in fault history, go to the RAP for the Finisher status code.

Block the IBT Home Sensor with paper. Enter Component Control [004-014], then [004-100]. Press **Start**. **The display indicates H.**

Y N

There is +5 VDC between P/J539-A5(+) on the I/F (MDD) PWB and GND(-).

Y N

There is +5 VDC between P/J539-A1(+) and P/J539-A4-) on the I/F (MDD) PWB.

Y N

Replace the MCU PWB (PL 13.1).

Check the wires between P/J121 on the IBT Home Sensor and P/J539 on the I/F (MDD) PWB. If no problems are found, replace IBT Home Sensor (PL 5.4).

Replace the MCU PWB (PL 13.1). If the problem continues, replace the I/F (MDD) PWB (PL 9.1).

Remove the IBT Assembly (REP 9.15). Ensure that the Belt can be rotated manually by turning the gears on the rolls.

Check the Transfer Belt Cleaner Assembly for binding or damage to the shutter actuator. **The IBT Assembly is OK.**

Y N

Repair or replace the IBT Assembly (PL 5.2).

Enter Component Control [004-002] and press Start. **The IBT Motor energizes.**

Y N

There is +24 VDC between P/J551-3(+) and GND(-) on the I/F (MDD) PWB.

Y N

Go to the 24 VDC Wirenets and check the +24VDC circuit up to I/F (MDD) PWB P/J551-3

A B

A B

Check for wire damage or bad connection between the IBT Motor and P/J551 on the I/F (MDD) PWB. If the wires are OK, replace the IBT Motor (PL 1.1).

Replace the MCU PWB (PL 13.1). If the problem continues, replace the I/F (MDD) PWB (PL 9.1).

004-347 Transfer Belt Out of Position

BSD-ON:BSD 9.19 (Figure 20)

The IBT Edge Sensor does not sense the Transfer Belt edge in the correct position.

Initial Actions

Check the following:

- Check that the IBT Belt Cleaner is not damaged, binding, or incorrectly assembled.
- Ensure that the Transfer Belt is clean and free from damage, especially the inboard edge.
- Check if the actuator for IBT Edge Sensor touches the belt edge; check actuator installation.

Procedure

Switch the power on. Enter Component Control [004-014] and press **Start**. Measure voltage between P/J539-A3(+) on the I/F (MDD) PWB and GND(-). **Between +3 VDC and +1 VDC is measured.**

Y N

There is +5 VDC between P/J539-A1(+) and P/J539-A4(-) on the I/F (MDD) PWB**.**

Y N

Close the Front Cover. If the voltage between P/J539-A1(+) P/J539-A4(-) is less than +5VDC, replace the MCU PWB (PL 13.1).

There is +5 VDC between P/J539-A11(+) on the I/F (MDD) PWB **and GND(-).**

Y N

0 VDC is measured between P/J539-A11(+) on the I/F (MDD) PWB **and GND(-).**

Y N

Refer to BSD 9.19 Figure 20. Check the wires from J539 on the I/F (MDD) PWB to J119 on the IBT Edge Sensor for damage or loose connections. If the wires are OK, replace the IBT Edge Sensor (PL 5.4)
If the problem continues, replace the MCU PWB (PL 13.1).

Refer to BSD 9.19. Check the wires from J539 on the I/F (MDD) PWB to J119 on the IBT Edge Sensor for a short circuit. If the wires are OK, replace the IBT Edge Sensor (PL 5.4).

Refer to BSD 9.19. Check the wires from J539 on the I/F (MDD) PWB to J119 on the IBT Edge Sensor for an open circuit. If the wires are OK, replace the IBT Edge Sensor (PL 5.4).

+24 VDC is measured between P/J537-6(+) on the I/F (MDD) PWB **and GND(-).**

Y N

Go to the 24 VDC Wirenets (Figure 3) and check +24VDC circuit up to P/J537-5 on the I/F (MDD) PWB.

Remove the IBT Assembly. Enter Component Control [004-001] and press **Start**. **The Steering Motor energized.**

Y N

Refer to BSD 9.19. Check the wires from P537 on the I/F (MDD) PWB to J207 on the IBT Steering Motor for damage or a loose connection. If the wires are OK, Replace the MCU PWB (PL 13.1). If the problem continues, replace the I/F (MDD) PWB (PL 9.1), and IBT Steering Motor (PL 1.3).

Check the Transfer Belt installation (REP 9.22). If no problems are found, replace the MCU PWB (PL 13.1).

004-348 Transfer Belt Edge

BSD-ON: 9.19 Figure 20

Transfer Belt Edge not detected.

Procedure

Check if actuator for IBT Edge Sensor touches belt edge. **IBT Edge Sensor touches belt edge.**

Y N

Check actuator installation.

Switch the power on. Measure voltage between I/F (MDD) PWB P/J539-A3(+) and GND(-). **Between +3 VDC and 1 VDC is measured.**

Y N

Measure voltage between I/F (MDD) PWB P/J539-A1(+) P/J539-A2(-). **+5 VDC is measured.**

Y N

Close Front Cover. If voltage between P/J539-A1(+) P/J539-A2(-) is less than +5VDC, replace MCU PWB (PL 13.1).

Measure voltage between I/F (MDD) PWB P/J539-A1(+) and GND(-). **+5 VDC is measured.**

Y N

Measure voltage between I/F (MDD) PWB P/J539-3(+) and GND(-). **0 VDC is measured.**

Y N

Check wire damage or bad connection between I/F (MDD) PWB P/J539 and IBT Edge Sensor P/J119.
If no problems are found, replace IBT Edge Sensor (PL 5.4).
If the problem continues, replace MCU PWB (PL 13.1).

Check wire damage or bad connection between I/F (MDD) PWB P/J539-A3 and IBT Edge Sensor P/J119-2.

Replace IBT Edge Sensor (PL 5.4).

Measure voltage between I/F (MDD) PWB P/J537-6(+) and GND(-). **+24 VDC is measured.**

Y N

Following Wire Network, check +24VDC circuit up to I/F (MDD) PWB P/J537-6.

Remove IBT Assembly. Enter Component Control [004-001] and energize the Steering Motor. **Steering Motor energized.**

Y N

Check wire damage or bad connection between I/F (MDD) PWB P/J537 and IBT Steering Motor P/J207. **There are broken wires or bad connections.**

Y N

Replace MCU PWB (PL 13.1). If the problem continues, replace I/F (MDD) PWB (PL 9.1), and IBT Steering Motor (PL 1.3).

Repair broken wire and bad connection.

A

A

Check Transfer Belt installation (REP 9.22). If no problems are found, replace MCU PWB (PL 13.1).

004-349 Marking Software Logic

Control Logic detected a fatal failure in the Marking software.

Procedure

Switch the power off, then on. **The problem continues.**

Y **N**

Return to Service Call Procedures.

Reload IOT software GP 7, if the problem persists replace the MCU PWB (PL 13.1).

004-350 IOT Video Failure

Failure occurred in IOT video.

Procedure

NOTE: *An auto-reset should be underway.*

If the problem continues switch power off then on.

If the problem continues, reload software GP 7.

004-351 IOT Xerographic failure

Failure occurred in IOT xerographics.

Procedure

NOTE: *An auto-reset should be underway.*

If the problem continues switch power off then on.

If the problem continues, reload software GP 7.

004-352 IOT Communications Failure

Failure occurred in IOT communications.

Procedure

NOTE: *An auto-reset should be underway.*

If the problem continues switch power off then on.

If the problem continues, reload software GP 7.

004-353 IOT Paper Handling Failure

Failure occurred in IOT paper handling.

Procedure

NOTE: *An auto-reset should be underway.*

If the problem continues switch power off then on.

If the problem continues, reload software GP 7.

004-354 IOT Communications Failure

Failure occurred in IOT communications.

Procedure

NOTE: *An auto-reset should be underway.*

If the problem continues switch power off then on.

If the problem continues, reload software GP 7.

004-358 IOT Communications Failure

Failure occurred in IOT communications.

Procedure

NOTE: *An auto-reset should be underway.*

If the problem continues switch power off then on.

If the problem continues, reload software GP 7.

004-361 (YMC) Drum Motor

BSD-ON: 9.1 Figure 1

Drum Motor failure.

Procedure

Remove Y/M/C/K Drum Assembly. Enter Component Control [004-003] and press Start. **Drum Motor energizes and drives rotate**

Y N

Measure voltage between Drum Motor P/J210-4(+) and GND(-). **+5 VDC is measured.**

Y N

Go to the +5VDC Wirenets and check +5VDC circuit to Drum Motor P/J210-4.

Measure voltage between Drum Motor P/J210-6(+) and GND(-). **+24 VDC is measured.**

Y N

Go to the +24VDC Wirenets and check +24VDC circuit to Drum Motor P/J210-6.

Measure voltage between Drum Motor P/J210-1(+) and GND(-). Ensure Component Control [004-003] is entered and press Start. **0 VDC is measured.**

Y N

Measure voltage between I/F (MDD) PWB P/J532-1(+) and GND(-). Ensure Component Control [004-003] is entered and press Start. **0 VDC is measured.**

Y N

Check for wire damage or bad connection between Drum Motor P/J210-1 to I/F (MDD) PWB P/J532-1. If no problems are found, replace MCU PWB (PL 13.1).

Check for wire damage or bad connection between Drum Motor P/J210-1 to I/F (MDD) PWB P/J532-1.

Measure voltage between Drum Motor P/J210-2(+) and GND(-). Ensure Component Control [004-003] is entered and press Start. **0 VDC is measured.**

Y N

Measure voltage between I/F (MDD) PWB P/J532-2(+) and GND(-). Ensure Component Control [004-003] is entered and press Start. **0 VDC is measured.**

Y N

Check for wire damage or bad connection between Drum Motor P/J210-2 and I/F (MDD) PWB P/J532-2. If no problems are found, replace I/F (MDD) PWB (PL 9.1).

Check for wire damage or bad connection between Drum Motor P/J210-2 and I/F (MDD) PWB P/J532-2.

Measure voltage between Drum Motor P/J210-3(+) and GND(-). Ensure Component Control [004-003] is entered and press Start. **Frequency is between 1KHz and 1.3 KHz.**

Y N

Measure voltage between I/F (MDD) PWB P/J532-3(+) and GND(-). Ensure Component Control [004-003] is entered and press Start. **Frequency is between 1KHz and 1.3 KHz.**

A B

A B

Y N

Check frame short between Drum Motor P/J210-3 and I/F (MDD) PWB P/J532-3. If no problems are found, replace I/F (MDD) PWB (PL 9.1).

Check for wire damage or bad connection between Drum Motor P/J210-3 and I/F (MDD) PWB P/J532-3.

Measure voltage between Drum Motor P/J210-4(+) and GND(-). Ensure Component Control [004-003] is entered and press Start. **Frequency is between 1KHz and 1.3 KHz.**

Y N

Measure voltage between I/F (MDD) PWB P/J532-4(+) and GND(-). Ensure Component Control [004-003] is entered and press Start. **Frequency is between 1KHz and 1.3 KHz.**

Y N

Check frame short between Drum Motor P/J210-4 and I/F (MDD) PWB P/J532-3. If no problems are found, replace I/F (MDD) PWB (PL 9.1).

Check for wire damage or bad connection between Drum Motor P/J210-4 and I/F (MDD) PWB P/J532-4.

Replace Drum Motor (PL 1.1).

Measure voltage between I/F (MDD) PWB P/J532-9(+) and GND(-). Ensure Component Control [004-003] is entered and press Start. **+5 VDC is measured.**

Y N

Replace I/F (MDD) PWB (PL 9.1).

Measure voltage between Drum Motor P/J210-9(+) and GND(-). Ensure Component Control [004-003] is entered and press Start. **+5 VDC is measured.**

Y N

Check for wire damage or bad connection between I/F (MDD) PWB P/J532-9 and Drum Motor P/J210-9.

Replace Drum Motor (PL 1.1).

004-362 IOT NVM Read Write

BSD-ON: 3.1 Figure 1

Read Write at the MCU PWB NVM R/W.

Procedure

Switch the power off, then on. **The problem continues.**

Y **N**

Return to Service Call Procedures.

Check the connection between the MCU PWB and the MCU NVM PWB.

If the problem continues, replace the MCU PWB (PL 13.1).

CAUTION

Careful replacement of the MCU NVM PWB (REP 1.2.1) is important to avoid serious machine failure.

If the problem continues, replace the MCU NVM PWB (PL 13.1).

004-363 K Drum Motor

BSD-ON: 9.2 Figure 2

Drum Motor K failure

Procedure

Remove K Drum. Enter Component Control [004-006] and press Start. **Drum Motor K energizes.**

Y N

Measure voltage between Drum Motor K P/J235-4(+) and GND(-). **+5 VDC is measured.**

Y N

Go to the +5VDC Wirenets and check +5VDC circuit to Drum Motor K P/J235-4.

Measure voltage between Drum Motor K P/J235-1(+) and GND(-). **+24 VDC is measured.**

Y N

Go to the +24VDC Wirenets and check +24VDC circuit to Drum Motor K P/J235-1.

Measure voltage between Drum Motor K P/J235-5(+) and GND(-). Ensure Component Control [004-006] is entered and press Start. **0 VDC is measured.**

Y N

Measure voltage between I/F (MDD) PWB P/J535-6(+) and GND(-). Ensure Component Control [004-006] is entered and press Start. **0 VDC is measured.**

Y N

Check connection between MCU PWB and I/F (MDD) PWB P410.
If no problems are found, replace MCU PWB (PL 13.1).
If the problem continues, replace I/F (MDD) PWB (PL 9.1).

Check wire damage or bad connection between I/F (MDD) PWB P/J535-6 and Drum Motor K P/J235-5

Measure voltage between Drum Motor K P/J235-8(+) and GND(-). Ensure Component Control [004-006] is entered and press Start. **Frequency is between 1KHz and 1.3 KHz.**

Y N

Measure voltage between I/F (MDD) PWB P/J535-2 and GND (-). **Frequency is between 1KHz and 1.3 KHz.**

Y N

Check connection between MCU PWB and I/F (MDD) PWB P410.
If no problems are found, replace MCU PWB (PL 13.1).
If the problem continues, replace the I/F (MDD) PWB (PL 9.1).

Check wire damage or bad connection between I/F (MDD) PWB P/J535-2 and Drum Motor K P/J235-8.

Measure voltage between I/F (MDD) PWB P/J535-A10 and Drum Motor K P/J235-6 between I/F (MDD) PWB P/J535-4 and Drum Motor K P/J235-7. If no problems are found, replace Drum Motor K (PL 1.1).

A

A

Measure voltage between I/F (MDD) PWB P/J535-A7(+) and GND(-). Enter Component Control [004-006] and press Start.

Y N

Check connector between MCU PWB and I/F (MDD) PWB P410. If the check is good, replace MCU PWB (PL 13.1).
If the problem continues, replace the I/F (MDD) PWB (PL 9.1).

Measure voltage between Drum Motor K P/J235-9 (+) and GND(-). Ensure Component Control [004-006] is entered and press Start. **+5 VDC is measured**

Y N

Check wire damage or bad connection between Drum Motor K P/J235-9 and I/F (MDD) PWB P/J535-1.

Check if there is load on K DRUM. If the check is good, replace Drum Motor K (PL 1.1).

004-371 IOT Controller Timing Failure

There is a communication failure between the ESS and MCU.

Procedure

Switch the power off, then on. **The problem continues.**

Y **N**

Return to Service Call Procedures.

Check the MCU PWB connectors.
If the problem continues, re-install software (GP 7).
If the problem continues, replace the MCU PWB (PL 13.1).

004-375 IOT Software Mismatch

There is a communication failure. This fault can be also be caused by installing the incorrect MCU PWB for the machine model.

Initial Actions

If this fault appears after replacing the MCU PWB, go to PL 13.1, order and install the correct MCU PWB.

Procedure

Switch the power off, then on. **The problem continues.**

Y **N**

Return to Service Call Procedures.

If the problem continues, re-install software (GP 7).

004-376 Zero Crossing Signal Not Detected

BSD-ON: 10.1 Figure 1, 1.2 Figure 2

The zero crossing signal is not detected.

Procedure

Check that P/J590 on the AC Drive PWB is securely connected.
Check that P/J412 on the MCU PWB is securely connected.
Check the condition of the wires between P/J590 and P/J412. **The connections and wires are good.**

Y N

Repair as required.

Measure the voltage at P/J590-6 on the AC Drive PWB. Check for both DC and AC voltages of 0.44 VDC and 0.92 VAC. **The voltage measures approximately 0.5 VDC and 1 VAC.**

Y N

Measure the voltage at P/J590-7. **The voltage measures +5 VDC.**

Y N

The wires were previously checked. Replace the MCU PWB (PL 13.1).

Measure the voltage at P/J590-5 for less than +1 VDC. **The voltage measures less than 1 VDC.**

Y N

The wires were previously checked. Replace the MCU PWB (PL 13.1).

Replace the AC Drive PWB (PL 9.2).

Measure the voltage at P/J412-14 on the MCU PWB. **The voltage measures less than 1 VDC.**

Y N

Repair the open circuit between P/J590-6 on the AC Drive PWB and P/J412-14 on the MCU PWB.

Replace the MCU PWB (PL 13.1).

004-414 Transfer Belt Cleaner

BSD-ON:9.28 Figure 30

Transfer Belt Cleaner near end of life.

Procedure

Replace the Transfer Belt Cleaner Assembly (PL 5.2). **The problem continues.**

Y N

Return to Service Call Procedures.

Was the Transfer Belt Cleaner Assembly HFSI Counter reset in Initialize HFSI Counter.

Y N

Reset the Transfer Belt Cleaner Assembly Counter.

Replace the MCU PWB (PL 13.1).

CAUTION

Careful replacement of the MCU NVM PWB (REP 1.2.1) is important to avoid serious machine failure.

If the problem continues, replace the MCU NVM PWB (PL 13.1).

004-415 2nd BTR Unit

The 2nd BTR Unit is near end of life.

Procedure

Replace the 2nd BTR Unit (PL 2.8). **The problem continues.**

Y **N**

Return to Service Call Procedures.

Was the 2nd BTR Unit HFSI Counter reset in Initialize HFSI Counter.

Y **N**

Reset the 2nd BTR Unit Counter.

Replace the MCU PWB (PL 13.1).

CAUTION

Careful replacement of the MCU NVM PWB (REP 1.2.1) is important to avoid serious machine failure.

If the problem continues, replace the MCU NVM PWB (PL 13.1)

004-416 2nd BTR Unit

It is time to replace the 2nd BTR Unit.

Procedure

Replace the 2nd BTR Unit (PL 2.8). **The problem continues.**

Y **N**

Return to Service Call Procedures.

Was the 2nd BTR Unit HFSI Counter reset in Initialize HFSI Counter.

Y **N**

Reset the 2nd BTR Unit Counter.

Replace the MCU PWB (PL 13.1).

CAUTION

Careful replacement of the MCU NVM PWB (REP 1.2.1) is important to avoid serious machine failure.

If the problem continues, replace the MCU NVM PWB (PL 13.1)

004-417 IBT Belt Assembly

IBT Belt Assembly near end of life.

Procedure

Replace the IBT Belt Assembly (PL 5.2). **The problem continues.**

Y **N**

Return to Service Call Procedures.

Was the IBT Belt Assembly HFSI Counter reset in Initialize HFSI Counter.

Y **N**

Reset the IBT Belt Assembly Counter.

Replace the MCU PWB (PL 13.1)

CAUTION

Careful replacement of the MCU NVM PWB (REP 1.2.1) is important to avoid serious machine failure.

If the problem continues, replace the MCU NVM PWB (PL 13.1).

004-420 IBT Belt Assembly

IBT Belt Assembly end of life.

Procedure

Replace the IBT Belt Assembly (PL 5.2). **The problem continues.**

Y **N**

Return to Service Call Procedures.

Was the IBT Belt Assembly HFSI Counter reset in Initialize HFSI Counter.

Y **N**

Reset the IBT Belt Assembly Counter.

Replace the MCU PWB (PL 13.1).

CAUTION

Careful replacement of the MCU NVM PWB (REP 1.2.1) is important to avoid serious machine failure.

If the problem continues, replace the MCU NVM PWB (PL 13.1).

004-421 Transfer Belt Cleaner Life End

Transfer Belt Cleaner Assembly end of life.

Procedure

Replace the Transfer Belt Cleaner Assembly (PL 5.2). **The problem continues.**

Y N

Return to Service Call Procedures.

Was the Transfer Belt Cleaner Assembly HFSI Counter reset in Initialize HFSI Counter.

Y N

Reset the Transfer Belt Cleaner Assembly Counter.

If the problem continues, replace the MCU PWB (PL 13.1).

CAUTION

Careful replacement of the MCU NVM PWB (REP 1.2.1) is important to avoid serious machine failure.

If the problem continues, replace the MCU NVM PWB (PL 13.1).

004-605 IOT NVM Corrupt

The system detected that the NVM of the IOT is empty.

Procedure

Switch the power off, then on. **The problem continues.**

Y **N**

Return to Service Call Procedures.

Replace the MCU PWB (PL 13.1).

CAUTION

Careful replacement of the MCU NVM PWB (REP 1.2.1) is important to avoid serious machine failure.

If the problem continues, replace the MCU NVM PWB (PL 13.1).

004-640 Belt Tracking

BSD-ON: 9.19 Figure 20, 9.31A Figure 33

IBT tracking failure

Procedure

Check if actuator for IBT Edge Sensor touches belt edge. **IBT Edge Sensor touches belt edge.**

Y N

Check actuator installation.

Switch the power on. Measure voltage between I/F (MDD) PWB P/J537-A3(+) and GND(-). **Between +3 VDC and 1 VDC is measured.**

Y N

Measure voltage between I/F (MDD) PWB P/J539-A1(+) P/J539-A2(-). **+5 VDC is measured.**

Y N

Check +5VDC circuit to I/F (MDD) PWB.

Measure voltage between I/F (MDD) PWB P/J539-A1(+) and GND(-). **+5 VDC is measured.**

Y N

Measure voltage between I/F (MDD) PWB P/J539-A11(+) and GND(-). **0 VDC is measured.**

Y N

Check wire damage or bad connection between I/F (MDD) PWB P/J539 and IBT Edge Sensor P/J119.
If the check is good, replace IBT Edge Sensor (PL 5.4).
If the problem continues, replace MCU PWB (PL 13.1).

Check wire damage or bad connection between I/F (MDD) PWB P/J539-A3 and IBT Edge Sensor P/J119-2.

Replace IBT Edge Sensor (PL 5.4).

Measure voltage between I/F (MDD) PWB P/J537-6(+) and GND(-). **+24 VDC is measured.**

Y N

Following Wire Network, check +24VDC circuit up to I/F (MDD) PWB P/J537-6.

Remove IBT Assembly (REP 9.15). Enter Component Control [004-001] and press Start. **IBT Steering Motor energizes.**

Y N

Check wire damage or bad connection between I/F (MDD) PWB P/J537 and IBT Steering Motor P/J207. **There are broken wires or bad connections.**

Y N

Replace MCU PWB (PL 13.1).
If the problem continues, replace I/F (MDD) PWB (PL 9.1).
If the problem continues, replace IBT Steering Motor (PL 1.3).

Repair broken wire and/or bad connection.

A

A

Check Transfer Belt installation (REP 9.22). If the check is good, replace MCU PWB (PL 13.1).

004-641 Belt Edge

BSD-ON: 9.19 Figure 20

Transfer Belt edge not detected.

Procedure

Check if actuator for IBT Edge Sensor touches belt edge. **IBT Edge Sensor touches belt edge.**

Y N

Check actuator installation.

Switch the power on. Measure voltage between I/F (MDD) PWB P/J537-A3(+) and GND(-). **Between +3 VDC and 1 VDC is measured.**

Y N

Measure voltage between I/F (MDD) PWB P/J539-A1(+) P/J539-A2(-). **+5 VDC is measured.**

Y N

Close Front Cover. If voltage between P/J539-A1(+) P/J539-A2(-) is less than +5VDC, replace MCU PWB (PL 13.1).

Measure voltage between I/F (MDD) PWB P/J539-A1(+) and GND(-). **+5 VDC is measured.**

Y N

Measure voltage between I/F (MDD) PWB P/J539-A11(+) and GND(-). **0 VDC is measured.**

Y N

Check wire damage or bad connection between I/F (MDD) PWB P/J539 and IBT Edge Sensor P/J119.
If the check is good, replace IBT Edge Sensor (PL 5.4).
If the problem continues, replace MCU PWB (PL 13.1).

Check wire damage or bad connection between I/F (MDD) PWB P/J539-A3 and IBT Edge Sensor P/J119-2.

Replace IBT Edge Sensor (PL 5.4).

Measure voltage between I/F (MDD) PWB P/J537-8(+) and GND(-). **+24 VDC is measured.**

Y N

Following Wire Network, check +24VDC circuit up to I/F (MDD) PWB P/J537-8

Remove IBT Assembly (REP 9.15). Enter Component Control [004-001] and press Start. **IBT Steering Motor energizes.**

Y N

Check wire damage or bad connection between I/F (MDD) PWB P/J537 and IBT Steering Motor P/J207. **There are broken wires or bad connections.**

Y N

Replace MCU PWB (PL 13.1).
If the problem continues, replace I/F (MDD) PWB (PL 9.1).
If the problem continues, replace IBT Steering Motor (PL 1.3).

Repair broken wire and bad connection.

A

A

Check Transfer Belt installation (REP 9.22). If the check is good, replace MCU PWB (PL 13.1).

004-642 Belt Edge

BSD-ON: 9.19 Figure 20

Transfer Belt edge not in position.

Procedure

Check if actuator for IBT Edge Sensor touches belt edge. **IBT Edge Sensor touches belt edge.**

Y N

Check actuator installation.

Switch the power on. Measure voltage between I/F (MDD) PWB P/J539-A3(+) and GND(-). **Between +3 VDC and 1 VDC is measured.**

Y N

Measure voltage between I/F (MDD) PWB P/J539-A1(+) P/J539-A2(-). **+5 VDC is measured.**

Y N

Close Front Cover. If voltage between P/J539-A1(+) P/J539-A2(-) is less than +5VDC, replace MCU PWB (PL 13.1).

Measure voltage between I/F (MDD) PWB P/J539-A1(+) and GND(-). **+5 VDC is measured.**

Y N

Measure voltage between I/F (MDD) PWB P/J539-A1(+) and GND(-). **0 VDC is measured.**

Y N

Check wire damage or bad connection between I/F (MDD) PWB P/J539and IBT Edge Sensor P/J119.
If the check is good, replace IBT Edge Sensor (PL 5.4).
If the problem continues, replace MCU PWB (PL 13.1).

Check wire damage or bad connection between I/F (MDD) PWB P/J539-A11 and IBT Edge Sensor P/J119-2.

Replace IBT Edge Sensor (PL 5.4).

Measure voltage between I/F (MDD) PWB P/J537-6(+) and GND(-). **+24 VDC is measured.**

Y N

Following Wire Network, check +24VDC circuit up to I/F (MDD) PWB P/J537-6

Remove IBT Assembly (REP 9.15). Enter Component Control [004-001] and press Start. **IBT Steering Motor energizes.**

Y N

Check wire damage or bad connection between I/F (MDD) PWB P/J537 and IBT Steering Motor P/J207. **There are broken wires or bad connections.**

Y N

Replace MCU PWB (PL 13.1).
If the problem continues, replace I/F (MDD) PWB (PL 9.1).
If the problem continues, replace IBT Steering Motor (PL 1.3).

Repair broken wire and bad connection.

A

A

Check Transfer Belt installation (REP 9.22). If the check is good, replace MCU PWB (PL 13.1).

004-650 IOT Cycle Down Time Out

Incorrect print processing continued for 2 minutes.

Procedure

Check the harness connections on the MCU PWB (PL 13.1). **The problem continues.**

Y **N**

Return to Service Call Procedures.

Replace the MCU PWB (PL 13.1)

004-661 MCU Connector

MCU Connector Warning

Procedure

Check that connector P/J400 is securely fastened to the MCU PWB.

004-662 MCU Connector

MCU Connector Warning

Procedure

Check that connector P/J401 is securely fastened to the MCU PWB.

004-663 MCU Connector

MCU Connector Warning

Procedure

Check that connector P/J402 is securely fastened to the MCU PWB.

004-664 MCU Connector

MCU Connector Warning

Procedure

Check that connector P/J403 is securely fastened to the MCU PWB.

004-665 MCU Connector

MCU Connector Warning

Procedure

Check that connector P/J404 is securely fastened to the MCU PWB.

004-666 MCU Connector

MCU Connector Warning

Procedure

Check that connector P/J405 is securely fastened to the MCU PWB.

004-667 MCU Connector

MCU Connector Warning

Procedure

Check that connector P/J406 is securely fastened to the MCU PWB.

004-668 MCU Connector

MCU Connector Warning

Procedure

Check that connector P/J/407 is securely fastened to the MCU PWB.

004-669 MCU Connector

MCU Connector Warning

Procedure

Check that connector P/J408 is securely fastened to the MCU PWB.

004-670 MCU Connector

MCU Connector Warning

Procedure

Check that connector P/J409 is securely fastened to the MCU PWB.

004-671 MCU Connector

MCU Connector Warning

Procedure

Check that connector P410 is securely fastened to the MCU PWB.

004-672 MCU Connector

MCU Connector Warning

Procedure

Check that connector P/J411 is securely fastened to the MCU PWB.

004-673 MCU Connector

MCU Connector Warning

Procedure

Check that connector P/J412 is securely fastened to the MCU PWB.

004-674 MCU Connector

MCU Connector Warning

Procedure

Check that connector P413 is securely fastened to the MCU PWB.

004-675 MCU Connector

MCU Connector Warning

Procedure

Check that connector P/J414 is securely fastened to the MCU PWB.

004-676 MCU Connector

MCU Connector Warning

Procedure

Check that connector P460 is securely fastened to the MCU PWB.

004-677 I/F (MDD) PWB Connector

I/F (MDD) PWB Connector Warning

Procedure

Check that connector P/J530 is securely fastened to the I/F (MDD) PWB.

004-678 I/F (MDD) PWB Connector

I/F (MDD) PWB Connector Warning

Procedure

Check that connector P/J531 is securely fastened to the I/F (MDD) PWB.

004-679 I/F (MDD) PWB Connector

I/F (MDD) PWB Connector Warning

Procedure

Check that connector P/J532 is securely fastened to the I/F (MDD) PWB.

004-680 I/F (MDD) PWB Connector

I/F (MDD) PWB Connector Warning

Procedure

Check that connector P/J533 is securely fastened to the I/F (MDD) PWB.

004-681 I/F (MDD) PWB Connector

I/F (MDD) PWB Connector Warning

Procedure

Check that connector P/J534 is securely fastened to the I/F (MDD) PWB.

004-682 I/F (MDD) PWB Connector

I/F (MDD) PWB Connector Warning

Procedure

Check that connector P/J535 is securely fastened to the I/F (MDD) PWB.

004-683 I/F (MDD) PWB Connector

I/F (MDD) PWB Connector Warning

Procedure

Check that connector P/J536 is securely fastened to the I/F (MDD) PWB.

004-684 I/F (MDD) PWB Connector

I/F (MDD) PWB Connector Warning

Procedure

Check that connector P/J537 is securely fastened to the I/F (MDD) PWB.

004-685 I/F (MDD) PWB Connector

I/F (MDD) PWB Connector Warning

Procedure

Check that connector P/J539 is securely fastened to the I/F (MDD) PWB.

004-686 I/F (MDD) PWB Connector

I/F (MDD) PWB Connector Warning

Procedure

Check that connector P/J540 is securely fastened to the I/F (MDD) PWB.

004-687 I/F (MDD) PWB Connector

I/F (MDD) PWB Connector Warning

Procedure

Check that connector P/J541 is securely fastened to the I/F (MDD) PWB.

004-688 I/F (MDD) PWB Connector

I/F (MDD) PWB Connector Warning

Procedure

Check that connector P/J542 is securely fastened to the I/F (MDD) PWB.

004-689 I/F (MDD) PWB Connector

I/F (MDD) PWB Connector Warning

Procedure

Check that connector P/J543 is securely fastened to the I/F (MDD) PWB.

004-690 I/F (MDD) PWB Connector

I/F (MDD) PWB Connector Warning

Procedure

Check that connector P/J551 is securely fastened to the I/F (MDD) PWB.

004-691 I/F (MDD) PWB Connector

I/F (MDD) PWB Connector Warning

Procedure

Check that connector P/J552 is securely fastened to the I/F (MDD) PWB.

004-908 2nd BTR Life End

2nd BTR end of life.

Procedure

Replace the 2nd BTR (PL 2.8). **The problem continues.**

Y **N**

Return to Service Call Procedures.

Was the 2nd BTR Unit HFSI Counter reset in Initialize HFSI Counter.

Y **N**

Reset the 2nd BTR Unit Counter.

Replace the MCU PWB (PL 13.1).

CAUTION

Careful replacement of the MCU NVM PWB (REP 1.2.1) is important to avoid serious machine failure.

If the problem continues, replace the MCU NVM PWB (PL 13.1).

005-121 CVT Feed Sensor On Jam RAP

BSD-ON:5.4 Figure 4 / 5.5 Figure 5

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

Initial Actions

- Power Off then On

Procedure

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

Y N

Check the connections of P/J769 and P/J758 **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 20.3).

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 20.9).

Replace the DADF PWB (PL 20.3).

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

Y N

Check the connections of 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 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 20.3).

Replace the DADF Feed Motor (PL 20.9). If the problem persists, replace the DADF PWB (PL 20.3).

Replace the DADF PWB (PL 20.3).

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

BSD-ON:5.4 Figure 4 / 5.5 Figure 5

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

Initial Actions

- Power Off then On

Procedure

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

Y N

Check the connections of P/J781 and P/J761 **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 20.3).

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 20.7).

Replace the DADF PWB (PL 20.3).

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

Y N

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

Y N

Connect P/J764 and P/J754.

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

Y N

Repair the open circuit or short circuit.

A B

A B

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

Y N

Replace the DADF PWB (PL 20.3).

Replace the DADF Feed Motor (PL 20.9). If the problem persists, replace the DADF PWB (PL 20.3).

Replace the DADF PWB (PL 20.3).

005-123 CVT Simplex/Side1 Registration Jam RAP

BSD-ON:5.4 Figure 4 / 5.5 Figure 5

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

Initial Actions

- Power Off and then On

Procedure

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

Y N

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

Y N

Connect P/J782 and P/J761.

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

Y N

Repair the open circuit or short circuit.

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

Y N

Replace the DADF PWB (PL 16.3).

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

Y N

Replace the DADF Registration Sensor (PL 20.7).

Replace the DADF PWB (PL 20.3).

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

Y N

Check the connections of 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 P754-1 (+) and GND (-), and between P754-7 (+) and GND (-) (BSD 5.5 Flag 1). **The voltage is approx. +24VDC.**

A

A

Y N

Replace the DADF PWB (PL 20.3).

Replace the DADF Feed Motor (PL 20.9). If the problem persists, replace the DADF PWB (PL 20.3).

Replace the DADF PWB (PL 20.3).

005-125 CVT Registration Sensor Off Jam RAP

BSD-ON:5.4 Figure 4 / 5.5 Figure 5

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

Initial Actions

- Power Off then On

Procedure

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

Y **N**

Check the connections of P/J782 and P/J761 **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 20.3).

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

Y **N**

Replace the DADF Registration Sensor (PL 16.7).

Replace the DADF PWB (PL 20.3).

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

Y **N**

Check the connections of 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 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 20.3).

Replace the DADF Feed Motor (PL 20.9). If the problem persists, replace the DADF PWB (PL 20.3).

Execute Component Control [005-026]. The DADF Registration Motor (PL 20.9) starts up.

Y **N**

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

Y **N**

Connect P/J765 and P/J755.

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

Y **N**

Repair the open circuit or short circuit.

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

Y **N**

Replace the DADF PWB (PL 20.3).

Replace the DADF Registration Motor (PL 20.9). If the problem persists, replace the DADF PWB (PL 20.3).

Replace the DADF PWB (PL 20.3).

005-131 CVT Invert On Jam RAP

BSD-ON:5.4 Figure 4 / 5.5 Figure 5

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

Initial Actions

- Power Off then On

Procedure

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

Y N

Check the connections of P/J780 and P/J761 **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 20.3).

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 20.7).

Replace the DADF PWB (PL 20.3).

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

Y N

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

Y N

Connect P/J765 and P/J755.

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

Y N

Repair the open circuit or short circuit.

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

A

Y N

Replace the DADF PWB (PL 20.3).

Replace the DADF Registration Motor (PL 20.9). If the problem persists, replace the DADF PWB (PL 20.3).

Replace the DADF PWB (PL 20.3).

005-132 CVT Invert On Jam 2 RAP

BSD-ON:5.4 Figure 4 / 5.5 Figure 5

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

Initial Actions

- Power Off then On

Procedure

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

Y N

Check the connections of P/J780 and P/J761 **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 20.3).

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 20.7).

Replace the DADF PWB (PL 20.3).

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

Y N

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

Y N

Connect P/J765 and P/J755.

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

Y N

Repair the open circuit or short circuit.

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

A

A

Y N

Replace the DADF PWB (PL 20.3).

Replace the DADF Registration Motor (PL 20.9). If the problem persists, replace the DADF PWB (PL 20.3).

Replace the DADF PWB (PL 20.3).

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

BSD-ON:5.4 Figure 4 / 5.5 Figure 5

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

Initial Actions

- Power Off then On

Procedure

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

Y N

Check the connections of P/J780 and P/J761 **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 20.3).

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 20.7).

Replace the DADF PWB (PL 20.3).

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

Y N

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

Y N

Connect P/J765 and P/J755.

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

Y N

Repair the open circuit or short circuit.

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

A

Y N

Replace the DADF PWB (PL 20.3).

Replace the DADF Registration Motor (PL 20.9). If the problem persists, replace the DADF PWB (PL 20.3).

Replace the DADF PWB (PL 20.3).

005-135 CVT Side2 Pre-Registration On Jam RAP

BSD-ON:5.4 Figure 4 / 5.5 Figure 5 / 5.6 Figure 6

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

Initial Actions

- Power Off then On

Procedure

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

Y N

Install the Invert Gate correctly.

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

Y N

Check the connections of P/J781 and P/J761 **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 4Flag 4). **The voltage is approx. +5VDC.**

Y N

Replace the DADF PWB (PL 20.3).

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 20.7).

Replace the DADF PWB (PL 20.3).

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

Y N

Check the connections of 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

A

Y N

Repair the open circuit or short circuit.

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

Y N

Replace the DADF PWB (PL 20.3).

Replace the DADF Registration Motor (PL 20.9). If the problem persists, replace the DADF PWB (PL 20.3).

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

Y N

Check the connections of P/J766 and P/J756 **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 Figure 6). **The wire between P756 and J766 is conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Replace the Exit Nip Release Solenoid (PL 16.4). If the problem persists, replace the DADF PWB (PL 20.3).

Replace the DADF PWB (PL 20.3).

005-136 CVT Side2 Registration On Jam RAP

BSD-ON:5.4 Figure 4 / 5.5 Figure 5 / 5.6 Figure 6

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

Initial Actions

- Power Off then On

Procedure

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

Y N

Check the connections of P/J782 and P/J761 **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 2Flag 2). **The voltage is approx. +5VDC.**

Y N

Replace the DADF PWB (PL 20.3).

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 20.7).

Replace the DADF PWB (PL 20.3).

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

Y N

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

Y N

Connect P/J764 and P/J754.

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

Y N

Repair the open circuit or short circuit.

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

A

Y N

Replace the DADF PWB (PL 20.3).

Replace the DADF Feed Motor (PL 16.9). If the problem persists, replace the DADF PWB (PL 20.3).

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

Y N

Check the connections of P/J766 and P/J756 **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). **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 20.7). If the problem persists, replace the DADF PWB (PL 20.3).

Replace the DADF PWB (PL 20.3).

005-139 CVT Invert Sensor Off Jam RAP

BSD-ON:5.4 Figure 4 / 5.5 Figure 5 / 5.6 Figure 6

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

Initial Actions

- Power Off then On

Procedure

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

Y N

Install the Invert Gate correctly.

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

Y N

Check the connections of P/J780 and P/J761 **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 20.3).

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 20.7).

Replace the DADF PWB (PL 20.3).

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

Y N

Check the connections of 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

A

Y N

Repair the open circuit or short circuit.

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

Y N

Replace the DADF PWB (PL 20.3).

Replace the DADF Registration Motor (PL 20.9). If the problem persists, replace the DADF PWB (PL 20.3).

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

Y N

Check the connections of P/J766 and P/J756 **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 Figure 6). **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 20.4). If the problem persists, replace the DADF PWB (PL 20.3).

Replace the DADF PWB (PL 20.3).

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

BSD-ON:5.4 Figure 4 / 5.5 Figure 5

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

Initial Actions

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

Procedure

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

Y N

Check the connections of P/J782 and P/J761 **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 20.3).

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 20.7).

Replace the DADF PWB (PL 20.3).

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

Y N

Check the connections of 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 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 20.3).

Replace the DADF Feed Motor (PL 20.9). If the problem persists, replace the DADF PWB (PL 20.3).

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

Y N

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

Y N

Connect P/J765 and P/J755.

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

Y N

Repair the open circuit or short circuit.

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

Y N

Replace the DADF PWB (PL 20.3).

Replace the DADF Registration Motor (PL 20.9). If the problem persists, replace the DADF PWB (PL 20.3).

Replace the DADF PWB (PL 20.3).

005-146 CVT Pre Registration Sensor Off Jam RAP

BSD-ON:5.4 Figure 4 / 5.5 Figure 5 / 5.6 Figure 6

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

Initial Actions

Power Off then On

Procedure

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

Y N

Install the Invert Gate correctly.

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

Y N

Check the connections of P/J781 and P/J761 **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 20.3).

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 20.7).

Replace the DADF PWB (PL 20.3).

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

Y N

Check the connections of 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 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 20.3).

Replace the DADF Registration Motor (PL 20.9). If the problem persists, replace the DADF PWB (PL 20.3).

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

Y N

Check the connections of P/J766 and P/J756 **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). **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 20.4). If the problem persists, replace the DADF PWB (PL 20.3).

Replace the DADF PWB (PL 20.3).

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

BSD-ON:5.4 Figure 4 / 5.5 Figure 5 / 5.6 Figure 6

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

Initial Actions

Power Off then On

Procedure

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

Y N

Install the Invert Gate correctly.

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

Y N

Check the connections of P/J781 and P/J761 **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 20.3).

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 20.7).

Replace the DADF PWB (PL 20.3).

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

Y N

Check the connections of 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

A

Y N

Repair the open circuit or short circuit.

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

Y N

Replace the DADF PWB (PL 20.3).

Replace the DADF Registration Motor (PL 20.9). If the problem persists, replace the DADF PWB (PL 20.3).

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

Y N

Check the connections of P/J766 and P/J756 **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). **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 20.4). If the problem persists, replace the DADF PWB (PL 20.3).

Replace the DADF PWB (PL 20.3).

005-194 Mixed Size Mismatch RAP

BSD-ON:5.1 Figure 1

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

Initial Actions

Power Off then On

Check the document guide and repeat the operation.

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

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

Procedure

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

Y N

Check the connections of P/J771 and P/J759 **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 20.3).

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 20.10).

Replace the DADF PWB (PL 20.3).

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 **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 20.3).

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 20.10).

Replace the DADF PWB (PL 20.3).

Replace the DADF PWB (PL 20.3).

005-196 CVT Size Mismatch RAP

BSD-ON:5.1 Figure 1

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

Initial Actions

- Power Off then 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 **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 20.3).

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 20.10).

Replace the DADF PWB (PL 20.3).

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 **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 20.3).

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 20.10).

Replace the DADF PWB (PL 20.3).

Replace the DADF PWB (PL 20.3).

005-197 Prohibit Combine Size RAP

BSD-ON:5.1 Figure 1

A prohibited size combination was detected.

Initial Actions

- Power Off then 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 **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 20.3).

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 20.10).

Replace the DADF PWB (PL 20.3).

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 **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 20.3).

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 20.10).

Replace the DADF PWB (PL 20.3).

Replace the DADF PWB (PL 20.3).

005-198 Document Length RAP

BSD-ON:5.4 Figure 4

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

Initial Actions

- Power Off then On

Procedure

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

Y **N**

Use a paper size within the specification.

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

Y **N**

Check the connections of P/J769 and P/J758 **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 20.3).

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 20.9).

Replace the DADF PWB (PL 20.3).

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

Y **N**

Check the connections of P/J781 and P/J761 **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 2). **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**

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 20.3).

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 20.7).

Replace the DADF PWB (PL 20.3).

Replace the DADF PWB (PL 20.3).

A **B**

005-199 Document Length RAP

BSD-ON:5.4 Figure 4

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

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

Initial Actions

- Power Off then On

Procedure

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

Y N

Use a paper size within the specification.

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

Y N

Replace the Transport Roll.

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

Y N

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

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

Y N

Check the connections of P/J769 and P/J758 **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 20.3).

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 20.9).

Replace the DADF PWB (PL 20.3).

A

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

Y N

Check the connections of P/J781 and P/J761 **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 20.3).

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 20.7).

Replace the DADF PWB (PL 20.3).

Replace the DADF PWB (PL 20.3).

A

005-280 DADF EEPROM RAP

BSD-ON:3.5 Figure 5

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

Initial Actions

- Power Off then On

Procedure

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

Y N

Connect the connectors.

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

Y N

End

Replace the DADF PWB (PL 20.3).

005-283 DADF Nudger Sensor RAP

BSD-ON:5.2 Figure 2

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

Initial Actions

- Power Off then 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 **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 20.3).

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 20.5).

Replace the DADF PWB (PL 20.3).

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

Y N

Check the connections of 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 20.3) P786-1 (+) and GND (-) (BSD 5.2 Flag 5). **The voltage is approx. +24VDC.**

Y N

Replace the DADF PWB (PL 20.3).

Replace the DADF Nudger Motor (PL 20.6). If the problem persists, replace the DADF PWB (PL 20.3).

Replace the DADF PWB (PL 20.3).

005-284 DADF APS Sensor Logic RAP

BSD-ON:5.4 Figure 4

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

Initial Actions

- Power Off then 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 **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 20.3).

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 20.7).

Replace the DADF PWB (PL 20.3).

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 **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.**

A

Y N

Replace the DADF PWB (PL 20.3).

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 20.7).

Replace the DADF PWB (PL 20.3).

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 **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 20.3).

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 20.7).

Replace the DADF PWB (PL 20.3).

Replace the DADF PWB (PL 20.3).

A

005-285 DADF Nudger Lift Up RAP

BSD-ON:5.2 Figure 2

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

Initial Actions

- Power Off then 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 **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 20.3).

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 20.5).

Replace the DADF PWB (PL 20.3).

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

Y N

Check the connections of 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

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

Y N

Replace the DADF PWB (PL 20.3).

Replace the DADF Nudger Motor (PL 20.6). If the problem persists, replace the DADF PWB (PL 20.3).

Replace the DADF PWB (PL 20.3).

A B

005-286 DADF Feed Out Sensor RAP

BSD-ON:5.4 Figure 4

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

Initial Actions

Power Off then On

Procedure

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

Y N

Check the connections of P/J769 and P/J758 **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 20.3).

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 20.9).

Replace the DADF PWB (PL 20.3).

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

Y N

Check the connections of P/J781 and P/J761 **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.**

A

Y N

Replace the DADF PWB (PL 20.3).

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 20.7).

Replace the DADF PWB (PL 20.3).

Replace the DADF PWB (PL 20.3).

005-302 CVT Feeder Cover Interlock Open RAP

BSD-ON:1.3 Figure 3

The DADF Interlock is open.

Initial Actions

- Power Off then 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). **The wires between J753 and F1, and between J753 and F2 are conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Check the conductivity of the DADF Interlock Switch between J753-2 and J753-1 (BSD 1.3). **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 20.7).

Replace the DADF PWB (PL 20.3).

Replace the DADF PWB (PL 20.3).

005-304 CVT Platen Interlock Open RAP

BSD-ON:6.1 Figure 1

The Platen Interlock is open.

Initial Actions

- Power Off then 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 **are connected correctly.**

Y N

Check the wire between J727 and J722 for an open circuit or a short circuit (BSD 6.1). The wire between J727 and J722 is conducting without an open circuit or a short circuit.

Connect P/J727 and P/J722.

Y N

Repair the open circuit or short circuit.

Check the conductivity of the Platen Open Switch between J722A-10 and J722A-11 (BSD 6.1). **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 Interlock Switch (PL 18.4).

Replace the IIT/IPS PWB (PL 18.3).

Replace the IIT/IPS PWB (PL 18.3).

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

BSD-ON:1.3 Figure 3

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

Initial Actions

- Power Off then 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). **The wires between J753 and F1, and between J753 and F2 are conducting without an open circuit or a short circuit.**

Y N

Repair the open circuit or short circuit.

Check the conductivity of the DADF Interlock Switch between J753-2 and J753-1 (BSD 1.3). **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 20.7).

Replace the DADF PWB (PL 20.3).

Replace the DADF PWB (PL 20.3).

005-307 CVT Platen Interlock Open on Running RAP

BSD-ON:6.1 Figure 1

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

Initial Actions

- Power Off then 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). **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 between J722-A10 and J722-A11 (BSD 6.1). **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 Interlock Switch (PL 18.4).

Replace the IIT/IPS PWB (PL 18.3).

Replace the IIT/IPS PWB (PL 18.3).

005-500 Downloader Fail Cannot be Displayed on PSW RAP

Error detected while in write to DADF-ROM.

ROM contents are deleted. Does not operate normally.

Procedure

If retry fails, replace DADF PWB (PL 20.3).

005-906 CVT Feed Sensor RAP

BSD-ON:5.4 Figure 4

Paper remains on the DADF Feed Out Sensor.

Initial Actions

- Remove the paper.
- Power Off then On

Procedure

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

Y **N**

Check the connections of P/J769 and P/J758 **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 20.3).

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 20.9).

Replace the DADF PWB (PL 20.3).

Replace the DADF PWB (PL 20.3).

005-907 CVT Pre-Registration Sensor RAP

BSD-ON:5.4 Figure 4

Paper remains on the DADF Pre Registration Sensor.

Initial Actions

- Remove the paper.
- Power Off then On

Procedure

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

Y N

Check the connections of P/J781 and P/J761 **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 20.3).

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 20.7).

Replace the DADF PWB (PL 20.3).

Replace the DADF PWB (PL 20.3).

005-908 CVT Registration Sensor RAP

BSD-ON:5.4 Figure 4

Paper remains on the DADF Registration Sensor.

Initial Actions

- Remove the paper.
- Power Off then On

Procedure

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

Y N

Check the connections of P/J782 and P/J761 **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 20.3).

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 20.7).

Replace the DADF PWB (PL 20.3).

Replace the DADF PWB (PL 20.3).

005-913 CVT Invert Sensor RAP

BSD-ON:5.4 Figure 4

Paper remains on the DADF Invert Sensor.

Initial Actions

- Remove the paper.
- Power Off then On

Procedure

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

Y N

Check the connections of P/J780 and P/J761 **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 20.3).

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 20.7).

Replace the DADF PWB (PL 20.3).

Replace the DADF PWB (PL 20.3).

005-915 CVT APS No1 Sensor RAP

BSD-ON:5.4 Figure 4

Paper remains on the APS Sensor 1.

Initial Actions

- Remove the paper.
- Power Off then On

Procedure

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

Y N

Check the connections of P/J777 and P/J761 **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 20.3).

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 20.7).

Replace the DADF PWB (PL 20.3).

Replace the DADF PWB (PL 20.3).

005-916 CVT APS No2 Sensor RAP

BSD-ON:5.4 Figure 4

Paper remains on the APS Sensor 2.

Initial Actions

- Remove the paper.
- Power Off then On

Procedure

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

Y N

Check the connections of P/J778 and P/J761 **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 20.3).

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 20.7).

Replace the DADF PWB (PL 20.3).

Replace the DADF PWB (PL 20.3).

005-917 CVT APS No3 Sensor RAP

BSD-ON:5.4 Figure 4

Paper remains on the APS Sensor 3.

Initial Actions

- Remove the paper.
- Power Off then On

Procedure

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

Y N

Check the connections of P/J779 and P/J785 **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 20.3).

Measure the voltage between the DADF PWB P785-2 (+) and GND (-) (BSD 5.4 Flag 11). Actuate the DADF APS 3 Sensor with paper. **The voltage changes.**

Y N

Replace the DADF APS 3 Sensor (PL 16.7).

Replace the DADF PWB (PL 20.3).

Replace the DADF PWB (PL 20.3).

005-940 DADF No Original Fail

BSD-ON:5.2 Figure 2

The machine detected the original was removed from the DADF when feed was requested.

Initial Actions

- Reinsert original into document tray and try again.
- Power Off then On

Procedure

Execute Component Control [005-102 DADF Document Set Sensor]. Actuate the DADF Document Set Sensor with paper. **The display changes.**

Y N

Check the connections of P/J770 and P/J770 are connected correctly.

Y N

Connect P/J770 and or P/J770

Check the wire between J770 and J758 for and open circuit or a short circuit (BSD 5.2 Flag 1). **There is no open or short circuit.**

Y N

Repair the open circuit or short circuit.

Measure the voltage between the DADF PWB P758-7 (+) and GND (-) (BSD 5.2 Flag 2). **The voltage is approx. +5VDC.**

Y N

Replace the DADF PWB (PL 20.3).

Measure the voltage between the DADF PWB P758-6 (+) and GND (-) (BSD 5. 2 Flag 1). Actuate the DADF Document Set Sensor with paper. **The voltage changes**

Y N

Replace the DADF Document Set Sensor (PL 20.8).

Replace the DADF PWB (PL 20.3).

Replace the DADF PWB (PL 20.3).

005-941 Doc Number of Sheets is Insufficient RAP

Number of document sheets is insufficient for [Return All Originals/Return N-sheet originals].

Procedure

Shortage of the number of original sheet. Re-load the correct number of originals.

005-942 Document Loading RAP

BSD-ON:5.2

Due to too many documents, documents could not be fed.

Initial Actions

Reduce the no. of documents and repeat the operation.

Power Off then On

Procedure

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

Y N

Replace the parts that are interfering with operation.

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

Y N

Check the connections of P/J788 and P/J786 **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 20.3).

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 20.5).

Replace the DADF PWB (PL 20.3).

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

Y N

Check the connections of 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

Y N

Repair the open circuit or short circuit.

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

Y N

Replace the DADF PWB (PL 20.3).

Replace the DADF Nudger Motor (PL 20.6). If the problem persists, replace the DADF PWB (PL 20.3).

Replace the DADF PWB (PL 20.3).

005-943 DADF Tray Lift Up RAP

BSD-ON:5.2 Figure 2

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

Initial Actions

Reduce the no. of sheets and repeat the operation.

Power Off then On

Procedure

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

Y N

Replace the parts that are interfering with operation.

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

Y N

Check the connections of P/J788 and P/J786 **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 20.3).

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

Y N

Replace the DADF Nudger Sensor (PL 16.5).

Replace the DADF PWB (PL 20.3).

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

Y N

Check the connections of P/J787 and P/J786 **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

Y N

Repair the open circuit or short circuit.

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

Y N

Replace the DADF PWB (PL 20.3).

Replace the DADF Nudger Motor (PL 16.6). If the problem persists, replace the DADF PWB (PL 20.3).

Replace the DADF PWB (PL 20.3).

006-372 ROS Polygon Motor

BSD-ON: 6.9 Figure 13

ROS Motor failure.

Procedure

Enter Component Control [006-031]. **+3.3VDC is measured between the MCU PWB P/J402-3 (+) and ground (-)**

Y N

Check the wire between the ROS Relay Connector P/J518-4 and the MCU PWB P/J402-3 for an open circuit.

+24VDC is measured between the MCU PWB P/J518-1 (+) and ground (-).

Y N

+24VDC is measured between the MCU PWB P/J402-6 (+) and ground (-)

Y N

Check the +24VDC circuit to the MCU PWB P/J402-6 by referring to Section 7 Wiring Data (+24V).

Check the wire between the MCU PWB P/J402-6 and the ROS Relay Connector P/J518-1 for an open circuit.

Enter Component Control [006-031]. **0VDC is measured between the MCU PWB P/J402-4 (+) and ground (-)**

Y N

Check the wire between the MCU PWB P/J402-4 and the ROS Relay Connector P/J518-3 for an open circuit. If no problems are found, replace the MCU PWB (PL 13.1).

Check the wire between the MCU PWB P/J402-4 and the ROS Relay Connector P/J518-3 for an open circuit.

Enter Component Control [006-031]. **The frequency between the MCU PWB P/J402-2 (+) and ground (-) is 2 KHz to 2.5 KHz.**

Y N

Check the wire between the MCU PWB P/J402-2 and the ROS Relay Connector P/J518-5 for an open circuit. If no problems are found, replace the MCU PWB (PL 13.1).

Check the wire between the MCU PWB P/J402-2 and the ROS Relay Connector P/J518-5 for an open circuit.

Check the wiring status of the Harness in the ROS. If no problems are found, replace the ROS (PL 3.1).

006-380 ROS SOS Y Length

BSD-ON: 6.5A Figure 5, 6.5B Figure 6

The interval of the ROS SOS (Y) signals exceeds the specified value.

Procedure

+5VDC is measured between the MCU PWB P/J401-B20 (+) and ground (-)

Y N

Replace the MCU PWB (PL 13.1).

Check that P/J401 is free of damage.

Check the wire between the SOS PWB (Y) P/J516-1 and the MCU PWB P/J401 for an open circuit.

Check the wire between the LD Drive (Y) P/J529 and the MCU PWB P/J401 for an open circuit.

If no problems are found, replace the ROS Assembly (PL 3.1).

If the problem continues, replace the MCU PWB (PL 13.1).

006-381 ROS SOS M Length

BSD-ON: 6.6A Figure 7, 6.6B Figure 8

The interval of the ROS SOS (M) signals exceeds the specified value.

Procedure

Check the voltage between P/J401-B20 (+) and ground (-) on MCU PWB. **+5VDC is measured between the MCU PWB P/J401-B20 (+) and ground (-).**

Y N

Replace the MCU PWB (PL 13.1).

Check that P/J401 is free of damage.
Check the wire between the SOS PWB (M) P/J517-1 and the MCU PWB P/J401 for an open circuit.
Check the wire between the LD Drive M P/J528 and the MCU PWB P/J401 for an open circuit.
If no problems are found, replace the ROS Assembly (PL 3.1).
If the problem continues, replace the MCU PWB (PL 13.1).

006-382 ROS SOS C Length

BSD-ON: 6.7A Figure 9, 6.7B Figure 10

The interval of the ROS SOS (C) signals exceeds the specified value.

Procedure

+5VDC is measured between the MCU PWB P/J401-B20 (+) and ground (-).

Y N

Replace the MCU PWB (PL 13.1).

Check that P/J401 is free of damage.
Check the wire between the SOS PWB (C) P/J514-1 and the MCU PWB P/J401 for an open circuit.
Check the wire between the LD Drive C P/J527 and the MCU PWB P/J401 for an open circuit.
If no problems are found, replace the ROS Assembly (PL 3.1).
If the problem continues, replace the MCU PWB (PL 13.1).

006-383 ROS SOS K Length

BSD-ON: 6.8A Figure 11, 6.8B Figure 12

The interval of the ROS SOS (K) signals exceeds the specified value.

Procedure

Check the voltage between the MCU PWB P/J401-B20 (+) and ground (-). **+5VDC is measured.**

Y N

Replace the MCU PWB (PL 13.1).

Check that P/J401 is free of damage.
Check the wire between the SOS PWB (K) P/J515-1 and the MCU PWB P/J401 for an open circuit.
Check the wire between the LD Drive K P/J526 and the MCU PWB P/J401 for an open circuit.
If no problems are found, replace the ROS Assembly (PL 3.1).
If the problem continues, replace the MCU PWB (PL 13.1).

006-385 ROS ASIC

Operation failure of the ROS ASIC in the MCU PWB.

Procedure

Switch power off then on. **The problem continues.**

Y N

Return to Service Call Procedures.

Replace the MCU PWB (PL 13.1).

007-104 Tray 1 Feed Out Sensor

BSD-ON: 8.2 Figure 2, 8.3 Figure 4, 8.6 Figure 9

The Tray 1 Feed Out Sensor does not detect paper fed from Tray 2, 3, or 4 in time after the Takeaway Sensor actuated.

Initial Actions

- Check condition and specification of paper in Tray 2, 3 and 4.
- For intermittent misfeeds ensure paper type selection is correct (open tray, select Change Description).
- Check the paper path for obstructions. Ensure that the Left Lower Cover (PL 2.3) latches correctly.
- Check for wear and clean the Takeaway Rolls and the Pinch Rolls.

Procedure

Open the Left Lower Cover (PL 2.3). Enter Component Control [008-100] and press **Start**. Block and unblock Tray 1 Feed Out Sensor (PL 2.3). **The display changes.**

Y N

Press Stop. Check the circuit of the Tray 1 Feed Out Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop. Close the Left Lower Cover and open the Left Cover and cheat the Left Cover Interlock Switch (PL 16.13). Enter Component Control [008-106] and press **Start**. Block and unblock the Takeaway Sensor (PL 16.6). **The display changes.**

Y N

Press Stop. Check the circuit of the Takeaway Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop. Enter Component Control [008-036] and press **Start**. **Both Takeaway Rolls (PL 16.6) rotate.**

Y N

Takeaway Motor 1 energizes.

Y N

Press Stop. Check the circuit of the Takeaway Motor 1. Refer to the OF 99-9 RAP for troubleshooting procedure.

Press Stop. Check Takeaway Motor 1 and its associated Gears (PL 16.15) for damage, contamination or misalignment. Repair or replace as required.

Press Stop.

- Ensure that the Chutes (PL 2.3, PL 16.5, PL 16.6) are properly seated and not damaged.
- Check the Pinch Rolls (PL 2.3, PL 16.13) for damage or contamination.
- Ensure that the connectors in the circuit are securely connected and that the wires are not damaged.
- If the problem persists, replace the Tray Module PWB (PL 16.15).

007-105 Tray 1 Misfeed

BSD-ON: 7.5 Figure 7, 8.2 Figure 2

The Tray 1 Feed Out Sensor does not detect paper after feeding from Tray 1.

Initial Actions

- Check condition and specification of paper in Tray 1.
- For intermittent misfeeds ensure paper type selection is correct (open tray, select Change Description).
- Check the paper path for obstructions. Ensure that the Left Lower Cover (PL 2.3) latches correctly.
- Check for wear and clean the Tray 1 Feed Roll, Takeaway Roll and the Pinch Roll.

Procedure

Open the Left Lower Cover (PL 2.3). Enter Component Control [008-100] and press Start. Block and unblock the Tray 1 Feed Out Sensor (PL 2.3). **The display changes.**

Y N

Press Stop. Check the circuit of the Tray 1 Feed Out Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop and close the Left Lower Cover. Enter Component Control [008-001] and press Start. **The Tray 1 Feed/Lift Motor (PL 2.4) energizes.**

Y N

Press Stop. Check the circuit of the Tray 1 Feed/Lift Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

- Check the Tray 1 Feed / Lift Motor and its associated gears (PL 2.4) for damage, contamination or misalignment.
- Ensure that the Tray 1 Chute (PL 2.3) is properly seated and not damaged.
- Ensure that the connectors in the circuit are securely connected and that the wires are not damaged.
- If these checks are OK, replace the I/F (MDD) PWB (PL 9.1).
- If the problem persists, replace the MCU PWB (PL 13.1).

007-110 Tray 2 Misfeed

BSD-ON: 7.6 Figure 8, 8.4 Figure 6, 8.6 Figure 9

The Takeaway Sensor does not detect paper after feeding from Tray 2.

Initial Actions

- Remove Tray 1 (REP 7.8). Ensure PJ840 is securely connected (below the left paper tray rail, near the rear side of the machine).
- Check condition and specification of paper in Tray 2.
- For intermittent misfeeds ensure paper type selection is correct (open tray, select Change Description).
- Check the paper path for obstructions.
- Check for wear and clean the Tray 2 Feeder Roll, Takeaway Roll and the Pinch Roll.

Procedure

Open the Left Cover and cheat the Left Cover Interlock Switch (PL 16.13 - TTM or PL 15.10 - 3TM). Enter Component Control [008-106] and press **Start**. Block and unblock the Takeaway Sensor (PL 16.6- TTM or PL 15.10 - 3TM). **The display changes.**

Y N

Press **Stop**. Check the circuit of the Takeaway Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Press **Stop**. Enter Component Control [008-036] (TTM) or [008-028] (3TM). and press **Start**. **Both Takeaway Rolls (PL 16.6 - TTM or PL 15.10 - 3TM) rotate.**

Y N

Takeaway Motor 1 energizes.

Y N

Press Stop. **+24 VDC is measured between P/J552-3 and GND on the Tray Module PWB.**

Y N

+24 VDC is measured at P/J555-3 on the Tray Module PWB.

Y N

Refer to the +24 VDC Wirenets. Check the +24 VDC to the Tray Module PWB.

Replace the Tray Module PWB (PL 16.15 - TTM or PL 15.9 - 3TM).

+24 VDC is measured at each of the following pins on P/J552: Pin 1, 2, 5, and 6.

Y N

Check the wires from the Tray Module PWB to the Takeaway Motor 1 for an open circuit. If the wires are good, replace the Takeaway Motor 1 (PL 15.9)

With Component Control [008-036] (TTM) or [008-028] (3TM) still entered, press Start and check that the voltage at P/J552 pins 1, 2, 5, and 6 each drop to approximately +22 VDC. **The voltage at P/J552 pins 1, 2, 5, and 6 all drop to approximately +22 VDC when [008-036] is entered.**

Y N

Replace the Tray Module PWB (PL 16.15 - TTM or PL 15.9 - 3TM).

A B C

A B C

Replace the Takeaway Motor 1 (PL 16.15 - TTM or PL 15.9 - 3TM).

Press **Stop**. Check the Takeaway Motor 1 (PL 16.15 - TTM or PL 15.9 - 3TM) and its associated gears for damage, contamination and misalignment.

Press **Stop**. Enter Component Control [008-003] and press **Start**. **The Tray 2 Feed/Lift Motor energizes.**

Y N

Press **Stop**. Check the circuit of the Tray 2 Feed/Lift Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Press **Stop**.

- Check the Tray 2 Feed / Lift Motor and its associated gears (PL 16.7) for damage and misalignment.
- Ensure that the Tray 2 Chute (PL 16.6) is properly seated and not damaged.
- Ensure that the connectors in the circuit are securely connected and that the wires are not damaged.
- If these checks are OK, replace the Tray Module PWB (PL 16.15 - TTM or PL 15.9 - 3TM).

007-115 Tray 3 Misfeed (TTM)

BSD-ON: 8.3 Figure 4, 7.7 Figure 10, 8.6 Figure 9

The Tray 3 Feedout Sensor does not detect paper after feeding from Tray 3.

Initial Actions

- Remove Tray 1 (REP 7.8). Ensure PJ840 is securely connected (below the left paper tray rail, near the rear side of the machine).
- Check condition and specification of paper in Tray 3.
- For intermittent misfeeds ensure paper type selection is correct (open tray, select Change Description).
- Check the paper path for obstructions.
- Check for wear and clean the Tray 3 Feeder Roll, Takeaway Roll and the Pinch Roll.

Procedure

Open the Left Cover and cheat the Left Cover Interlock Switch (PL 16.13). Enter Component Control [008-102] and press Start. Block and unblock the Tray 3 Feed Out Sensor (PL 16.6).
The display changes.
Y N

Press Stop. Check the circuit of the Tray 3 Feed Out Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop. Enter Component Control [008-005] and press Start. **The Tray 3 Feed/Lift Motor energizes (PL 16.9).**
Y N

Press Stop. Check the circuit of the Tray 3 Feed/Lift Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Press Stop. Enter Component Control [008-036] and press Start. **Both Takeaway Rolls (PL 16.6) rotate.**
Y N

Takeaway Motor 1 energizes.
Y N

Press Stop. Check the circuit of the Takeaway Motor 1. Refer to the OF 99-9 RAP for troubleshooting procedure.

Press Stop. Check the Takeaway Motor 1 and its associated gears (PL 16.15) for damage, contamination and misalignment.

Press Stop.

- Check the Tray 3 Feed / Lift Motor and its associated gears (PL 16.9) for damage and misalignment.
- Ensure that the Tray 3 Chute (PL 16.6) is properly seated and not damaged.
- Ensure that the connectors in the circuit are securely connected and that the wires are not damaged.
- If these checks are OK, replace the Tray Module PWB (PL 16.15).

007-117 Tray 3 Misfeed (3TM)

BSD-ON: 8.3 Figure 4, 7.7 Figure 10, 8.6 Figure 9

The Tray 3 Feedout Sensor does not detect paper after feeding from Tray 3.

Initial Actions

- Check condition and specification of paper in Tray 3.
- For intermittent misfeeds ensure paper type selection is correct (open tray, select Change Description).
- Check the paper path for obstructions.
- Check for wear and clean the Tray 3 Feeder Roll, Takeaway Roll and the Pinch Roll.

Procedure

Open the Left Cover and cheat the Left Cover Interlock Switch (PL 15.10). Enter Component Control [008-102] and press Start. Block and unblock the Tray 3 Feed Out Sensor (PL 15.10).
The display changes.
Y N

Press Stop. Check the circuit of the Tray 3 Feed Out Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop. Enter Component Control [008-005] and press Start. **The Tray 3 Feed/Lift Motor (PL 15.5) energizes.**
Y N

Press Stop. Check the circuit of the Tray 3 Feed/Lift Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Press Stop. Enter Component Control [008-028] and press Start. **All 3 Takeaway Rolls (PL 15.10) rotate.**
Y N

Takeaway Motor 1 (PL 15.9) energizes.
Y N

Press Stop. Check the circuit of the Takeaway Motor 1. Refer to the OF 99-9 RAP for troubleshooting procedure.

Press Stop. Check the Takeaway Motor 1 and its associated gears (PL 15.9) for damage, contamination and misalignment.

Press Stop.

- Check the Tray 3 Feed/Lift Motor and its associated gears (PL 15.5) for damage, contamination and misalignment.
- Ensure that the Tray 3 Chute (PL 15.10) is properly seated and not damaged.
- Ensure that the connectors in the circuit are securely connected and that the wires are not damaged.
- If these checks are OK, replace the Tray Module PWB (PL 15.9).

007-119 Tray 4 Misfeed (TTM)

BSD-ON: 8.3 Figure 4, 7.8 Figure 12, 8.4 Figure 6

The Tray 4 Feed Out Sensor does not detect paper after feeding from Tray 4.

Initial Actions

- Remove Tray 1 (REP 7.8). Ensure PJ840 is securely connected (below the left paper tray rail, near the rear side of the machine).
- Check condition and specification of paper in Tray 4.
- For intermittent misfeeds ensure paper type selection is correct (open tray, select Change Description).
- Check the paper path for obstructions.
- Check for wear and clean the Tray 4 Feeder Roll, Takeaway Roll and the Pinch Roll.

Procedure

Enter Component Control [008-103] and press Start. Block and unblock the Tray 4 Feed Out Sensor (PL 16.5) by sliding Tray 4 in and out of the machine. **The display changes.**

Y N

Press Stop. Check the circuit of the Tray 4 Feed Out Sensor. Refer to the OF 99-1 RAP for troubleshooting procedure.

Press Stop. Enter Component Control [008-007] and press Start. **The Tray 4 Feed/Lift motor energizes (PL 16.11).**

Y N

Press Stop. Check the circuit of the Tray 4 Feed/Lift Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Press Stop. Remove the TTM Rear Cover. Enter Component Control [008-048] and press Start. **The Takeaway Motor 2 (PL 16.15) energizes.**

Y N

Press Stop. Check the circuit of the Takeaway Motor 2. Refer to the OF 99-9 RAP for troubleshooting procedure.

Press Stop.

- Check the Tray 4 Feed / Lift Motor and its associated gears (PL 16.11) for damage, contamination and misalignment.
- Check the Takeaway Motor 2 and its associated gears (PL 16.15) for damage, contamination and misalignment.
- Check that the Tray 4 Upper and Lower Chutes (PL 16.5) are properly seated and not damaged.
- Ensure that the connectors in the circuit are securely connected and that the wires are not damaged.
- If these checks are OK, replace the Tray Module PWB (PL 16.15).

007-120 Tray 4 Misfeed (3TM)

BSD-ON: 8.3 Figure 4, 7.8 Figure 12, 8.4 Figure 6

The Tray 4 Feed Out Sensor does not detect paper after feeding from Tray 4.

Initial Actions

- Check condition and specification of paper in Tray 4.
- For intermittent misfeeds ensure paper type selection is correct (open tray, select Change Description).
- Check the paper path for obstructions.
- Check for wear and clean the Tray 4 Feeder Roll, Takeaway Roll and Pinch Roll.

Procedure

Open the Left Cover and cheat the Left Cover Interlock Switch (PL 15.10). Enter Component Control [008-103] and press Start. Block and unblock the Tray 4 Feed Out Sensor (PL 15.10). **The display changes.**

Y N

Press Stop. Check the circuit of the Tray 4 Feed Out Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop. Enter Component Control [008-007] and press Start. **The Tray 4 Feed/Lift Motor (PL 15.7) energizes.**

Y N

Press Stop. Check the circuit of the Tray 4 Feed/Lift Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Press Stop. Enter Component Control [008-028] and press Start. **All 3 Takeaway Rolls (PL 15.10) rotates.**

Y N

Takeaway Motor 1 (PL 15.9) energizes.

Y N

Press Stop. Check the circuit of the Takeaway Motor 1. Refer to the OF 99-9 RAP for troubleshooting procedure.

Press Stop. Check the Takeaway Motor 1 and its associated gears (PL 15.9) for damage, contamination and misalignment.

Press Stop.

- Check the Tray 4 Feed/Lift Motor and its associated gears (PL 15.7) for damage, contamination or misalignment.
- Ensure that the Tray 4 Chute (PL 15.10) is properly seated and not damaged.
- Ensure that the connectors in the circuit are securely connected and that wires are not damaged.
- If these checks are OK, replace the Tray Module PWB (PL 15.9).

007-122 Tray 4 Opened (TTM)

BSD-ON: 8.3 Figure 4

The Tray 4 Feed Out Sensor detected paper when Tray 4 is pulled out and pushed in during a print.

Initial Actions

- Check condition and specification of paper in Tray 4.
- Check the paper path for obstructions and clean the Tray 4 Feed Out Sensor.
- Check the Tray 4 mechanical operation.
- Check that Tray 4 is properly closed.

Procedure

Enter Component Control [008-103] and press Start. Block and unblock the Tray 4 Feed Out Sensor (PL 16.5) by sliding Tray 4 in and out of the machine. **The display changes.**

Y N

Press Stop. Check the circuit of the Tray 4 Feed Out Sensor. Refer to the OF 99-1 RAP for troubleshooting procedure.

Press Stop.

- Ensure that the connectors in the circuit are securely connected and that the wires are not damaged.
- Check the machine Shutdown History Report. If there is a history of this failure, replace the Tray 4 Feed Out Sensor (PL 16.5).
- If the problem continues, replace the Tray Module PWB (PL 16.15).

007-250 Tray Communication

BSD-ON: 3.2 Figure 2

Communication fault between Tray Module PWB and MCU PWB.

Initial Actions

Switch power off then on.

Procedure

NOTE: *An IOT +5 VDC failure will cause this fault.*

There is +5 VDC between the gray wires on P511 of the +5 VDC Power Supply (PL 9.1) and gnd.

Y N

Go to the OF 1-2A IOT +5 VDC RAP.

+5 VDC is measured at P/J555 -1 on the Tray Module PWB (PL 16.15 - TTM or PL 15.9 - 3TM).

Y N

Go to the +5 VDC wirenets and troubleshoot the circuit.

Check the wires and connectors. If the check is OK, replace the Tray Module PWB (PL 16.15 - TTM or PL 15.9 - 3TM).
If the problem continues, replace the MCU PWB (PL 13.1).

NOTE: *In rare instances the Feed Motor could be damaged because of a communication failure of this type.*

007-252 Out Module Logic

Incorrect software data was detected.

Procedure

Switch the power off then on. **The problem continues.**

Y **N**

Return to Service Call Procedures.

Check Software versions if incorrect reload software.

If the problem continues, replace the MCU PWB (PL 13.1).

007-270 Tray 1 Size Sensor

BSD-ON: 7.1 (Figure 1)

An abnormal A/D value was detected by the Tray 1 Paper Size Sensor.

Initial Actions

- Check that the paper size setting is correct.
- Check the Tray 1 Paper Size Sensor (PL 2.1) for damage or incorrect mounting. Repair or replace as required.
- Check the switch actuators on Tray 1 (PL 2.1) for wear or damage. Repair or replace as required
- Check the Side Guide and End Guide positions
- Check the tray bottom to see if the link is disconnected or broken.
- Check the rear actuator of the tray to see if it is operating improperly or broken.

Procedure

Ensure Tray 1 is closed. **The voltage measured at P/J414-A10 on the MCU corresponds to the paper size in Table 1.**

Y **N**

There is +3.3 VDC from P/J115 pin 1 to P/J115 pin 3 on the Tray 1 Size Sensor.

Y **N**

There is +3.3VDC from P/J414-A11 to P/J414-A9.

Y **N**

Go to the +3.3 VDC / +3.3 VDC RTN Wirenets to troubleshoot the power circuit. If the wiring is OK replace the MCU PWB (PL 13.1).

Check the wires from J414 to J115.

Replace the Tray 1 Paper Size Sensor (PL 2.1).

Check the connection between the I/F (MDD) PWB and the MCU PWB. If the check is OK, but the problem persists, replace the MCU PWB (PL 13.1).

Table 1 Tray 1 Size Sensor Values

Paper Size	S1 [007-100]	S2 [007-101]	S3 [007-102]	S3 [007-103]	Voltage @ P/J414-A10
No Tray	OFF	OFF	OFF	OFF	3.18
A3 SEF	OFF	OFF	OFF	ON	2.96
11x17 SEF	OFF	OFF	ON	OFF	2.75
8.5x13 SEF	OFF	OFF	ON	ON	2.55
B5 or 16K LEF	OFF	ON	OFF	ON	2.12
B5 or 8x10 SEF	OFF	ON	ON	OFF	1.92
8.5x11 SEF	OFF	ON	ON	ON	1.71
B4 or 8K SEF	ON	OFF	OFF	ON	1.32
A4 SEF	ON	OFF	ON	OFF	1.24

Table 1 Tray 1 Size Sensor Values

Paper Size	S1 [007-100]	S2 [007-101]	S3 [007-102]	S3 [007-103]	Voltage @ P/J414-A10
8.5x14 SEF	ON	OFF	ON	ON	0.92
A4 LEF	ON	ON	OFF	ON	0.51
8.5x11 LEF	ON	ON	ON	OFF	0.32
A5 or 5.5x8.5 SEF	ON	ON	ON	ON	0.12

007-271 Tray 2 Size Sensor

BSD-ON: 7.2 Figure 2

An abnormal AD value was detected by the Tray 2 Paper Size Sensor.

Initial Actions

- Check that the paper size setting is correct.
- Check the Tray 2 Paper Size Sensor (PL 16.1 - TTM, PL 15.1 - 3TM) for damage or incorrect mounting. Repair or replace as required.
- Check the switch actuators on Tray 2 (PL 16.1 - TTM, PL 15.1 - 3TM) for wear or damage. Repair or replace as required

Procedure

Ensure Tray 2 is closed. **The voltage measured at P/J546-8 on the Tray Module PWB (PL 15.9/PL 16.15) corresponds to the paper size in Table 1.**

Y

N

There is +5 VDC from P/J816-1 to P/J816-3 on the Tray 2 Size Sensor.

Y

N

There is +5VDC from P/J546-9 to P/J546-7 on the Tray Module PWB.

Y

N

Go to the +5VDC Wirenets to troubleshoot the power circuit.

Check the wires from P/J546 to P/J816.

Check the wire from P/J546-8 to P/J816-2. If the wire is OK, replace the Tray 2 Paper Size Sensor (PL 16.1).

Replace the Tray Module PWB (PL 16.15 - TTM or PL 15.9 - 3TM). If the problem continues, replace the Tray 2 Paper Size Sensor (PL 16.1 - TTM, PL 15.1 - 3TM).

Table 1 Tray 2 Size Sensor Values

Paper Size	S1 [007-104]	S2 [007-105]	S3 [007-106]	S3 [007-107]	Voltage (J546-8)
No Tray	OFF	OFF	OFF	OFF	4.78
A3 SEF	OFF	OFF	OFF	ON	4.45
11x17 SEF	OFF	OFF	ON	OFF	4.12
8.5x13 SEF	OFF	OFF	ON	ON	3.81
B5 or 16K LEF	OFF	ON	OFF	ON	3.18
B5 or 8x10 SEF	OFF	ON	ON	OFF	2.87
8.5x11 SEF	OFF	ON	ON	ON	2.57
B4 or 8K SEF	ON	OFF	OFF	ON	1.98
A4 SEF	ON	OFF	ON	OFF	1.67
8.5x14 SEF	ON	OFF	ON	ON	1.37
A4 LEF	ON	ON	OFF	ON	0.77
8.5x11 LEF	ON	ON	ON	OFF	0.47
A5 or 5.5x8.5 SEF	ON	ON	ON	ON	0.17

007-272 Tray 3 Size Sensor (3TM)

BSD-ON: 7.3 Figure 4

An abnormal AD value was detected by the Tray 3 Paper Size Sensor.

Initial Actions

- Check that the paper size setting is correct.
- Check the Tray 3 Paper Size Sensor (PL 15.1) for damage, or incorrect mounting. Repair or replace as required.
- Check the switch actuators on Tray 3 for wear or damage.

Procedure

Ensure Tray 3 is properly closed. Measure the voltage at P/J548-11 on the Tray Module PWB (PL 15.9). **The voltage measured corresponds with the paper size in Table 1.**

Y N

There is +5 VDC between P/J820-1 and 3 on the Paper Size Sensor (PL 15.1).

Y N

There is +5 VDC between P/J548-12 and 10 on the Tray Module PWB.

Y N

Go to the +5VDC Wirenets to troubleshoot the power circuit.

Check the wires from P/J548 to P/J820 for damage. Repair or replace as required.

Check the wire from P/J548-11 to P/J820-2 for damage. Repair or replace as required. If the wire check out OK, replace the Tray 3 Paper Size Sensor (PL 15.1).

- Ensure that the connectors shown in the circuit diagram are securely connected and that the wires are not damaged.
- Replace the Tray 3 Paper Size Sensor (PL 15.1).
- If the problem persists, replace the Tray Module PWB (PL 15.9).

Table 1 Tray 3 Paper Size Sensor Values

Paper Size	S1 [007-108]	S2 [007-109]	S3 [007-110]	S4 [007-111]	Voltage J548-11
No Tray	OFF	OFF	OFF	OFF	4.78
A3SEF	OFF	OFF	OFF	ON	4.45
11x17SEF	OFF	OFF	ON	OFF	4.12
8.5x13SEF	OFF	OFF	ON	ON	3.81
B5 or 16K LEF	OFF	ON	OFF	ON	3.18
B5 or 8 x 10 SEF	OFF	ON	ON	OFF	2.87
8.5x11SEF	OFF	ON	ON	ON	2.57
B4 or 8K SEF	ON	OFF	OFF	ON	1.98
A4SEF	ON	OFF	ON	OFF	1.67
8.5x14SEF	ON	OFF	ON	ON	1.37
A4LEF	ON	ON	OFF	ON	0.77
8.5x11LEF	ON	ON	ON	OFF	0.47

Table 1 Tray 3 Paper Size Sensor Values

Paper Size	S1 [007-108]	S2 [007-109]	S3 [007-110]	S4 [007-111]	Voltage J548-11
A5 or 5.5x8.5SEF	ON	ON	ON	ON	0.17

007-273 Tray 4 Size Sensor (3TM)

BSD-ON: 7.4 Figure 5

An abnormal AD value was detected by the Tray 4 Paper Size Sensor.

Initial Actions

- Check that the paper size setting is correct.
- Check the Tray 4 Paper Size Sensor (PL 15.1) for damage, or incorrect mounting. Repair or replace as required.
- Check the switch actuators on Tray 4 for wear or damage. Repair or replace as required.

Procedure

Ensure Tray 4 is properly closed. Measure the voltage at P/J548-5 on the Tray Module PWB (PL 15.9). **The voltage measured corresponds with the paper size in Table 1.**

Y N

There is +5 VDC between P/J824-1 and 3 on the Paper Size Sensor (PL 15.1).

Y N

There is +5 VDC between P/J548-6 and 4 on the Tray Module PWB.

Y N

Go to the +5VDC Wirenets to troubleshoot the power circuit.

Check the wires from P/J548 to P/J824 for damage. Repair or replace as required.

Check the wire from P/J548-5 to P/J824-2 for damage. Repair or replace as required. If the wire check out OK, replace the Tray 4 Paper Size Sensor (PL 15.1).

- Ensure that the connectors in the circuit are securely connected and that the wires are not damaged.
- Replace the Tray 4 Paper Size Sensor (PL 15.1).
- If the problem persists, replace the Tray Module PWB (PL 15.9).

Table 1 Tray 4 Paper Size Sensor Values

Paper Size	S1 [007-112]	S2 [007-113]	S3 [007-114]	S4 [007-115]	Voltage J548-5
No Tray	OFF	OFF	OFF	OFF	4.78
A3SEF	OFF	OFF	OFF	ON	4.45
11x17SEF	OFF	OFF	ON	OFF	4.12
8.5x13SEF	OFF	OFF	ON	ON	3.81
B5 or 16K LEF	OFF	ON	OFF	ON	3.18
B5 or 8 x 10 SEF	OFF	ON	ON	OFF	2.87
8.5x11SEF	OFF	ON	ON	ON	2.57
B4 or 8K SEF	ON	OFF	OFF	ON	1.98
A4SEF	ON	OFF	ON	OFF	1.67
8.5x14SEF	ON	OFF	ON	ON	1.37
A4LEF	ON	ON	OFF	ON	0.77
8.5x11LEF	ON	ON	ON	OFF	0.47

Table 1 Tray 4 Paper Size Sensor Values

Paper Size	S1 [007-112]	S2 [007-113]	S3 [007-114]	S4 [007-115]	Voltage J548-5
A5 or 5.5x8.5SEF	ON	ON	ON	ON	0.17

007-274 Tray 5 Size Sensor

BSD-ON: 7.9 Figure 14

An abnormal A/D value was detected by the Tray 5 Paper Size Sensor.

Initial Actions

Check the connectors between the Tray 5 Paper Size Sensor and the I/F (MDD) PWB

Procedure

Check the voltage between P/J265-2 (yellow wire toward rear) and ground. Move the Side Guide (PL 2.14) for Tray 5. **The voltage changes from 0 VDC to 3 VDC.**

Y N

+3.3 VDC is measured at P/J265-1 on the Tray 5 Paper Size Sensor.

Y N

Check the wires and connectors. If the check is OK, replace the I/F (MDD) PWB (PL 9.1)

Replace the Tray 5 Assembly (PL 2.12).

Check the wires and connectors. If the check is OK, replace the I/F (MDD) PWB (PL 9.1).

007-276 Tray 3 Size Sensor (TTM)

BSD-ON: 7.3 Figure 4

An abnormal A/D value was detected by the Tray 3 Paper Size Sensor.

Initial Actions

- Check that the paper size setting is correct.
- Check the Tray 3 Paper Size Sensor (PL 16.1) for damage or incorrect mounting. Repair or replace as required.
- Check the switch actuators on Tray 3 (PL 16.1) for wear or damage. Repair or replace as required

Procedure

Ensure Tray 3 is closed. **The voltage measured at P/J548-11 on the Tray Module PWB (PL 16.15) corresponds to the paper size in Table 1.**

Y N

There is +5 VDC from P/J820-1 to P/J820-3 on the Tray 3 Size Sensor.

Y N

There is +5VDC from P/J548-12 to P/J548-10.

Y N

Go to the +5VDC Wirenets to troubleshoot the power circuit.

Check the wires from J548 to J820. If the check is OK, replace the Tray Module PWB (PL 16.15).

Check the wire from J548-11 to J820-2. If the wire is OK, replace the Tray 3 Paper Size Sensor (PL 16.1).

Check the wires and connectors for intermittent shorts or loose connections. If the check is OK, replace the Tray Module PWB (PL 16.15). If the problem continues, replace the Tray 3 Paper Size Sensor (PL 16.1).

Table 1 Tray 3 Size Sensor Values

Paper Size	S1 [007-108]	S3 [007-109]	Voltage (J548-11)
No Tray	OFF	OFF	4.78
B5 LEF	OFF	ON	4.11
8.5x11 LEF	ON	OFF	2.23
A4 LEF	ON	ON	1.59

007-277 Tray 4 Size Sensor (TTM)

BSD-ON: 7.4 Figure 5

An abnormal A/D value was detected by the Tray 4 Paper Size Sensor.

Initial Actions

- Check that the paper size setting is correct.
- Check the Tray 4 Paper Size Sensor (PL 16.1) for damage or incorrect mounting. Repair or replace as required.
- Check the switch actuators on Tray 4 (PL 16.1) for wear or damage. Repair or replace as required

Procedure

Ensure Tray 4 is closed. **The voltage measured at P/J548-5 on the Tray Module PWB (PL 16.15) corresponds to the paper size in Table 1.**

Y N

There is +5VDC from P/J824-1 to P/J824-3 on the Tray 4 Size Sensor.

Y N

There is +5VDC from P/J548-6 to P/J548-4.

Y N

Go to the +5VDC Wirenets to troubleshoot the power circuit.
Check the wires and connectors. If the check is OK, replace the Tray Module PWB (PL 16.15).

Check the wires from J548 to J824. If the check is OK, replace the Tray 2 Paper Size Sensor (PL 16.1).

Check the wire from J824-2 to J548-5. If the wire is OK, replace the Tray 2 Paper Size Sensor (PL 16.1).

Check the wires and connectors for intermittent shorts or loose connections. If the check is OK, replace the Tray Module PWB (PL 16.15). If the problem continues, replace the Tray 4 Paper Size Sensor (PL 16.1).

Table 1 Tray 4 Size Sensor Values

Paper Size	S1 [007-112]	S3 [007-113]	Voltage (J548-5)
No Tray	OFF	OFF	4.78
B5 LEF	OFF	ON	4.11
8.5x11 LEF	ON	OFF	2.23
A4 LEF	ON	ON	1.59

007-281 Tray 1 Lift

BSD-ON: 7.5 Figure 7

The Tray 1 Level Sensor does not detect tray lift.

Initial Actions

Remove Tray 1 from the machine and empty the paper stock, then:

- Manually turn the gear at the rear of Tray 1 to check that the Bottom Plate moves up and down smoothly.
- Check that the Tray 1 Level Sensor Actuator (PL 2.4) is properly seated and operates smoothly.
- Gently push Tray 1 in to check that the drive transmission is firmly engaged.
- Ensure that Tray 1 is properly closed.

Procedure

Enter Component Control [008-002] and press Start. **The Tray 1 Feed/Lift Motor (PL 2.4) energizes.**

Y N

Press Stop. Check the circuit of the Tray 1 Feed/Lift Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Press Stop. Enter Component Control [007-116] and press Start. Open and close Tray 1. **The display changes.**

Y N

Press Stop. Check the circuit of the Tray 1 Level Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop.

- Check the Tray 1 Feed / Lift Motor and its associated gears (PL 2.4) for damage, contamination or misalignment.
- Ensure that the connectors in the circuit are securely connected and that the wires are not damaged.
- Replace the Tray 1 Level Sensor (PL 2.4).
- If the problem persists, replace the I/F (MDD) PWB (PL 9.1).

007-282 Tray 2 Lift

BSD-ON: 7.6 Figure 8

The Tray 2 Level Sensor does not detect tray lift.

Initial Actions

Remove Tray 1 from the machine and empty the paper stock, then:

- Manually turn the gear at the rear of Tray 2 to check that the Bottom Plate moves up and down smoothly.
- Check that the Tray 2 Level Sensor Actuator (PL 16.7) is properly seated and operates smoothly.
- Gently push Tray 2 in to check that the drive transmission is firmly engaged.
- Ensure that Tray 2 is properly closed.

Procedure

Enter Component Control [008-004] and press Start. **The Tray 2 Feed/Lift Motor (PL 16.7) energizes.**

Y N

Press Stop. Check the circuit of the Tray 2 Feed/Lift Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Press Stop. Enter Component Control [007-117] and press Start. Open and close Tray 2. **The display changes.**

Y N

Press Stop. Check the circuit of the Tray 2 Level Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop.

- Check the Tray 2 Feed / Lift Motor and its associated gears (PL 16.7) for damage, contamination or misalignment.
- Ensure that the connectors in the circuit are securely connected and that the wires are not damaged.
- Replace the Tray 2 Level Sensor (PL 16.7).
- If these checks are OK, replace the Tray Module PWB (PL 16.15).

007-283 Tray 3 Lift (3TM)

BSD-ON: 7.7A Figure 10

The Tray 3 Level Sensor does not detect tray lift.

Initial Actions

Remove Tray 3 from the machine and empty the paper stock, then:

- Manually turn the gear at the rear of Tray 3 to check that the Bottom Plate moves up and down smoothly.
- Check that the Tray 3 Level Sensor Actuator (PL 15.5) is properly seated and operates smoothly.
- Gently push Tray 3 in to check that the drive transmission is firmly engaged.
- Ensure that Tray 3 is properly closed.

Procedure

Enter Component Control [008-006] and press Start. **The Tray 3 Feed/Lift Motor (PL 15.5) energizes.**

Y N

Press Stop. Check the circuit of the Tray 3 Feed/Lift Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Press Stop. Enter Component Control [007-118] and press Start. Open and close Tray 3. **The display changes.**

Y N

Press Stop. Check the circuit of the Tray 3 Level Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop.

- Check the Tray 3 Feed/Lift Motor and its associated gears (PL 15.5) for damage, contamination or misalignment.
- Ensure that the connectors in the circuit are securely connected and that the wires are not damaged.
- Replace the Tray 3 Level Sensor (PL 15.5).
- If the problem persists, replace the Tray Module PWB (PL 15.9).

007-284 Tray 4 Lift (3TM)

BSD-ON: 7.8A Figure 12

The Tray 4 Level Sensor does not detect tray lift.

Initial Actions

Remove Tray 4 from the machine and empty the paper stock, then:

- Manually turn the gear at the rear of Tray 4 to check that the Bottom Plate moves up and down smoothly.
- Check that the Tray 4 Level Sensor Actuator (PL 15.7) is properly seated and operates smoothly.
- Gently push Tray 4 in to check that the drive transmission is firmly engaged.
- Ensure that Tray 4 is properly closed.

Procedure

Enter Component Control [008-008] and press Start. **The Tray 4 Feed/Lift Motor (PL 15.5) energizes.**

Y N

Press Stop. Check the circuit of the Tray 4 Feed/Lift Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Press Stop. Enter Component Control [007-119] and press Start. Open and close Tray 4. **The display changes.**

Y N

Press Stop. Check the circuit of the Tray 4 Level sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop.

- Check the Tray 4 Feed/Lift Motor and its associated gears (PL 15.7) for damage, contamination or misalignment.
- Ensure that the connectors in the circuit are securely connected and that the wires are not damaged.
- Replace the Tray 4 Level Sensor (PL 15.7).
- If the problem persists, replace the Tray Module PWB (PL 15.9).

007-291 Tray 3 Lift (TTM)

BSD-ON: 7.7B Figure 11

The Tray 3 Level Sensor does not detect tray lift.

Initial Actions

Pull out Tray 3 and empty the paper stock, then:

- Manually turn the gear on the left side of Tray 3 to check that the Bottom Plate moves up and down smoothly.
- Check that the Tray 3 Level Sensor Actuator (PL 16.9) is properly seated and operates smoothly.
- Gently push Tray 3 in to check that the drive transmission is firmly engaged.
- Ensure that Tray 3 is properly closed.

Procedure

Enter Component Control [008-006] and press Start. **The Tray 3 Feed/Lift Motor (PL 16.9) energizes.**

Y N

Press Stop. Check the circuit of the Tray 3 Feed/Lift Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Press Stop. Enter Component Control [007-118] and press Start. Open and close Tray 3. **The display changes.**

Y N

Press Stop. Check the circuit of the Tray 3 Level Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop.

- Check the Tray 3 Feed / Lift Motor and its associated gears (PL 16.9) for damage, contamination or misalignment.
- Check the Tray 3 Tray Cables, Pulleys and associated gears (PL 16.3) for damage, contamination or misalignment.
- Ensure that the connectors in the circuit are securely connected and that the wires are not damaged.
- Replace the Tray 3 Level Sensor (PL 16.9).
- If these checks are OK, replace the Tray Module PWB (PL 16.15).

007-293 Tray 4 Lift (TTM)

BSD-ON: 7.8B Figure 13

The Tray 4 Level Sensor does not detect tray lift.

Initial Actions

Pull out Tray 4 and empty the paper stock, then:

- Manually turn the gear underneath Tray 4 to check that the Bottom Plate moves up and down smoothly.
- Check that the Tray 4 Level Sensor Actuator (PL 16.11) is properly seated and operates smoothly.
- Gently push Tray 4 in to check that the drive transmission is firmly engaged.
- Ensure that Tray 4 is properly closed / seated.

Procedure

Enter Component Control [008-008] and press Start. **The Tray 4 Feed/Lift Motor (PL 16.11) energizes.**

Y N

Press Stop. Check the circuit of the Tray 4 Feed/Lift Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Press Stop. Enter Component Control [007-119] and press Start. Open and close Tray 4. **The display changes.**

Y N

Press Stop. Check the circuit of the Tray 4 Level Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop.

- Check the Tray 4 Feed / Lift Motor and its associated gears (PL 16.11) for damage, contamination or misalignment.
- Check the Tray 4 Tray Cables, Pulleys and associated gears (PL 16.4) for damage, contamination or misalignment.
- Ensure that the connectors in the circuit are securely connected and that the wires are not damaged.
- Replace the Tray 4 Level Sensor (PL 16.11).
- If these checks are OK, replace the Tray Module PWB (PL 16.15).

007-397 All Trays Lift Sensors

BSD-ON:1.7 Figure 7, 1.5 Figure 5

All the Tray Level Sensors did not energize.

Procedure

Check the Shutdown History. **A 007-281, 007-282, 007-291, or 007-293 fault has occurred.**

Y N

+24 VDC is measured at P/J555-7 on the Tray Module PWB (PL 16.15 - TTM or PL 15.9 - 3TM).

Y N

Go to the +24VDC Wirenets to troubleshoot.

+5 VDC is measured at P/J555-1 on the Tray Module PWB (PL 16.15 - TTM or PL 15.9 - 3TM).

Y N

Go to the +5 VDC Wirenets to troubleshoot.

Replace the following in sequence:

- Tray Module PWB (PL 16.15 - TTM or PL 15.9 - 3TM)
- MCU PWB (PL 13.1)

Go to the appropriate RAP.

007-401 Tray 1 Feed Roller Assembly

Tray 1 Feed Roller Assembly near end of life.

Procedure

Replace the Tray 1 Feed Roll Kit (PL 2.5). **The problem continues.**

Y N

Return to Service Call Procedures.

Was the Tray 1 Feed HFSI Counter reset in Initialize HFSI Counter.

Y N

Reset the Tray 1 Feed Counter.

Replace the MCU PWB (PL 13.1)

CAUTION

Careful replacement of the MCU NVM PWB (REP 1.2.1) is important to avoid serious machine failure.

If the problem continues, replace the MCU NVM PWB (PL 13.1).

007-402 Tray 2 Feed Roller Assembly

Tray 2 Feed Roller Assembly near end of life.

Procedure

Replace the Tray 2 Feed Roll Kit (PL 16.8). **The problem continues.**

Y N

Return to Service Call Procedures.

Was the Tray 2 Feed HFSI Counter reset in Initialize HFSI Counter.

Y N

Reset the Tray 2 Feed Counter.

Replace the MCU PWB (PL 13.1)

CAUTION

Careful replacement of the MCU NVM PWB (REP 1.2.1) is important to avoid serious machine failure.

If the problem continues, replace the MCU NVM PWB (PL 13.1).

007-403 Tray 3 Feed Roller Assembly

Tray 3 Feed Roller Assembly near end of life.

Procedure

Replace the Tray 3 Feed Roll Kit (PL 16.10). **The problem continues.**

Y N

Return to Service Call Procedures.

Was the Tray 3 Feed HFSI Counter reset in Initialize HFSI Counter.

Y N

Reset the Tray 3 Feed Counter.

Replace the MCU PWB (PL 13.1)

CAUTION

Careful replacement of the MCU NVM PWB (REP 1.2.1) is important to avoid serious machine failure.

If the problem continues, replace the MCU NVM PWB (PL 13.1).

007-404 Tray 4 Feed Roller Assembly

Tray 4 Feed Roller Assembly near end of life.

Procedure

Replace the Tray 4 Feed Roll Kit (PL 16.12). **The problem continues.**

Y N

Return to Service Call Procedures.

Was the Tray 4 Feed HFSI Counter reset in Initialize HFSI Counter.

Y N

Reset the Tray 4 Feed Counter.

Replace the MCU PWB (PL 13.1)

CAUTION

Careful replacement of the MCU NVM PWB (REP 1.2.1) is important to avoid serious machine failure.

If the problem continues, replace the MCU NVM PWB (PL 13.1).

007-406 Tray 1 Feed Roller Assembly

Tray 1 Feed Roller Assembly end of life.

Procedure

Replace the Tray 1 Feed Roll Kit (PL 2.5). **The problem continues.**

Y N

Return to Service Call Procedures.

Was the Tray 1 Feed HFSI Counter reset in Initialize HFSI Counter.

Y N

Reset the Tray 1 Feed Counter.

Replace the MCU PWB (PL 13.1)

CAUTION

Careful replacement of the MCU NVM PWB (REP 1.2.1) is important to avoid serious machine failure.

If the problem continues, replace the MCU NVM PWB (PL 13.1).

007-407 Tray 2 Feed Roller Assembly

Tray 2 Feed Roller Assembly end of life.

Procedure

Replace the Tray 2 Feed Roll Kit (PL 16.8). **The problem continues.**

Y N

Return to Service Call Procedures.

Was the Tray 2 Feed HFSI Counter reset in Initialize HFSI Counter.

Y N

Reset the Tray 2 Feed Counter.

Replace the MCU PWB (PL 13.1)

CAUTION

Careful replacement of the MCU NVM PWB (REP 1.2.1) is important to avoid serious machine failure.

If the problem continues, replace the MCU NVM PWB (PL 13.1).

007-408 Tray 3 Feed Roller Assembly

Tray 3 Feed Roller Assembly end of life.

Procedure

Replace the Tray 3 Feed Roll Kit (PL 16.10). **The problem continues.**

Y N

Return to Service Call Procedures.

Was the Tray 3 Feed HFSI Counter reset in Initialize HFSI Counter.

Y N

Reset the Tray 3 Feed Counter.

Replace the MCU PWB (PL 13.1)

CAUTION

Careful replacement of the MCU NVM PWB (REP 1.2.1) is important to avoid serious machine failure.

If the problem continues, replace the MCU NVM PWB (PL 13.1).

007-409 Tray 4 Feed Roller Assembly

Tray 4 Feed Roller Assembly end of life.

Procedure

Replace the Tray 4 Feed Roll Kit (PL 16.12). **The problem continues.**

Y N

Return to Service Call Procedures.

Was the Tray 4 Feed HFSI Counter reset in Initialize HFSI Counter.

Y N

Reset the Tray 4 Feed Counter.

Replace the MCU PWB (PL 13.1)

CAUTION

Careful replacement of the MCU NVM PWB (REP 1.2.1) is important to avoid serious machine failure.

If the problem continues, replace the MCU NVM PWB (PL 13.1).

007-930 Tray 1 Paper Size Mismatch

The paper in Tray 1 does not match the paper size selected.

Procedure

The correct size paper is loaded in Tray 1 and the paper guides are set correctly.

Y **N**

Load the correct size paper.

Go to the 007-270 RAP.

007-931 Tray 2 Paper Size Mismatch

The paper in Tray 2 does not match the paper size selected.

Procedure

The correct size paper is loaded in Tray 2 and the paper guides are set correctly.

Y **N**

Ensure Paper Guides are correctly adjusted.
Load the correct size paper.

Go to the 007-271 RAP.

007-932 Tray 3 Paper Size Mismatch

The paper in Tray 3 does not match the paper size selected.

Procedure

The correct size paper is loaded in Tray 3 and the paper guides are set correctly.

Y **N**

Ensure Paper Guides are correctly adjusted.
Load the correct size paper.

Go to the 007-276 RAP.

007-933 Tray 4 Paper Size Mismatch

The paper in Tray 4 does not match the paper size selected.

Procedure

The correct size paper is loaded in Tray 4 and the paper guides are set correctly.

Y **N**

Ensure Paper Guides are correctly adjusted.
Load the correct size paper.

Go to the 007-277 RAP.

007-935 Job Continue Not Available

Automatic Tray switching cannot be continued because a tray was not programmed.

Procedure

Program the appropriate tray. **The problem continues.**

Y **N**

Return to Service Call Procedures.

Refer to the Interactive User Guide, How To, Loading Paper and Media.

007-954 Tray 5 Size Mismatch (Slow Scan Direction)

The paper in the slow scan direction is shorter than the specified paper size.

Procedure

The correct size paper is loaded in the Tray 5.

Y **N**

Load the correct size paper.

Both paper guides are adjusted correctly.

Y **N**

Adjust the guides.

Replace the Registration Sensor. (PL 2.6).

007-959 Tray 5 Paper Mismatch 1

BSD-ON: 8.5 Figure 8

Incorrect media detected by the OHP sensor.

Initial Actions

- Check for obstructions and clean the OHP Sensor (PL 2.6).
- Check that the transparencies are oriented correctly.

Procedure

Open the Left Cover Assembly (PL 2.9). Enter Component Control [008-110] and press Start. Block the OHP Sensor R (PL 2.6) using a plain sheet of paper. **The display changes.**

Y N

Press Stop. Check the circuit of the OHP Sensor. Refer to the OF 99-1 RAP for trouble-shooting procedure.

Press Stop.

- Ensure that the connectors shown in the circuit diagram are securely connected and that the wires are not damaged.
- If the problem persists, replace the MCU PWB (PL 13.1).

007-960 Tray 5 Paper Mismatch 2

BSD-ON: 8.5 Figure 8

A different paper type or transparency was detected when plain/heavyweight paper was specified.

Initial Actions

- Check that the loaded paper type matches the UI selection.
- Check the OHP sensor area for contamination or blockage.

Procedure

Open the Left Cover Assembly (PL 2.9). Enter Component Control [008-110] and press Start. Block the OHP Sensor (PL 2.6) using a plain sheet of paper. **The display changes.**

Y N

Press Stop. Check the circuit of the OHP Sensor. Refer to the OF 99-1 RAP for trouble-shooting procedure.

Press Stop.

- Ensure that the connectors shown in the circuit diagram are securely connected and that the wires are not damaged.
- If the problem persists, replace the MCU PWB (PL 13.1).

007-969 Full Paper Stack

BSD-ON: 10.3 Figure 4

The Full Paper Stack Sensor detects that Face Down Tray is full.

Initial Actions

Check the Full Paper Stack Sensor for obstructions and actuator operation.

Procedure

Enter Component Control [010-102] and press Start. Move the Full Paper Stack Sensor Actuator (PL 2.10) up and down. **The display changes.**

Y N

Press Stop. Check the circuit of the Full Paper Stack Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop.

- Ensure that the connectors in the circuit are securely connected and that the wires are not damaged.
- If the connectors and wires check out OK, replace the Full Paper Stack Sensor (PL 2.10).
- If the problem continues, replace the MCU PWB (PL 13.1).
- If the problem persists, replace the I/F (MDD) PWB (PL 9.1).

008-149 3TM Takeaway Sensor On

BSD-ON: 8.3 Figure 4, 8.4 Figure 6

The Takeaway Sensor does not detect paper fed from Tray 3.

Initial Actions

- Check condition and specification of paper in Tray 3.
- Check the paper path and sensor area for obstructions.
- Check for wear and clean the Tray 3 Feeder Roll, Takeaway Roll and the Pinch Roll.
- Check that the Left Cover is properly latched and that the Interlock Actuator is not damaged.

Procedure

Open the Left Cover and cheat the Left Cover Interlock Switch (PL 15.10). Enter Component Control [008-106] and press Start. Block and unblock the Takeaway Sensor (PL 15.10). **The display changes state.**

Y N

Press Stop. Check the circuit of the Takeaway Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop. Enter Component Control [008-033] and press Start. **All three Takeaway Rolls (PL 15.10) rotates.**

Y N

Takeaway Motor 1 (PL 15.9) energizes.

Y N

Press Stop. Check the circuit of the Takeaway Motor 1. Refer to the OF 99-9 RAP for troubleshooting procedure.

Press Stop. Check the Takeaway Motor 1 and its associated gears (PL 15.9) for damage, contamination or misalignment.

Press Stop.

- Ensure that the Chutes (PL 15.10) are properly seated and not damaged.
- Ensure that the connectors in the circuit are securely connected and that the wires are not damaged.
- Replace the Takeaway Sensor (PL 15.10).
- If the problem persists, replace the Tray Module PWB (PL 15.9).

008-150 3TM Tray 4 Takeaway Sensor On

BSD-ON: 8.3 Figure 4, 8.4 Figure 6

The Takeaway Sensor does not detect paper fed from Tray 4.

Initial Actions

- Check condition and specification of paper in Tray 4.
- Check the paper path and sensor area for obstructions.
- Check for wear and clean the Tray 4 Feeder Roll, Takeaway Roll and the Pinch Roll.
- Check that the Left Cover is properly latched and that the Interlock Actuator is not damaged.

Procedure

Open the Left Cover and cheat the Left Cover Interlock Switch (PL 15.10). Enter Component Control [008-106] and press Start. Block and unblock the Takeaway Sensor (PL 15.10). **The display changes state.**

Y N

Press Stop. Check the circuit of the Takeaway Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop. Enter Component Control [008-033] and press Start. **All three Takeaway Rolls (PL 15.10) rotates.**

Y N

Takeaway Motor 1 (PL 15.9) energizes.

Y N

Press Stop. Check the circuit of the Takeaway Motor 1. Refer to the OF 99-9 RAP for troubleshooting procedure.

Press Stop. Check the Takeaway Motor 1 and its associated gears (PL 15.9) for damage, contamination or misalignment.

Press Stop.

- Ensure that the Chutes (PL 15.10) are properly seated and not damaged.
- Ensure that the connectors in the circuit are securely connected and that the wires are not damaged.
- Replace the Takeaway Sensor (PL 15.10).
- If the problem persists, replace the Tray Module PWB (PL 15.9).

008-151 Tray 3 Takeaway Sensor On

BSD-ON: 8.3 Figure 4, 8.4 Figure 6

The Takeaway Sensor does not detect paper fed from Tray 3.

Initial Actions

- Check condition and specification of paper in Tray 3.
- Check the paper path and sensor area for obstructions.
- Check for wear and clean the Tray 3 Feeder Roll, Takeaway Roll and the Pinch Roll.
- Check that the Left Cover is properly latched and that the Interlock Actuator is not damaged.

Procedure

Open the Left Cover and cheat the Left Cover Interlock Switch (PL 16.13). Enter Component Control [008-106] and press Start. Block and unblock the Takeaway Sensor (PL 16.6). **The display changes state.**

Y N

Press Stop. Check the circuit of the Takeaway Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop. Enter Component Control [008-033] and press Start. **Both Takeaway Rolls (PL 16.6) rotate.**

Y N

Takeaway Motor 1 (PL 16.15) energizes.

Y N

Press Stop. Check the circuit of the Takeaway Motor 1. Refer to the OF 99-9 RAP for troubleshooting procedure.

Press Stop. Check the Takeaway Motor 1 and its associated gears (PL 16.15) for damage, contamination or misalignment.

Press Stop.

- Ensure that the Chutes (PL 16.6) are properly seated and not damaged.
- Ensure that the connectors in the circuit are securely connected and that the wires are not damaged.
- Replace the Takeaway Sensor (PL 16.6).
- If the problem persists, replace the Tray Module PWB (PL 16.15).

008-152 Tray 4 Takeaway Sensor On

BSD-ON: 8.3 Figure 4, 8.4 Figure 6

The Takeaway Sensor does not detect paper fed from Tray 4.

Initial Actions

- Check condition and specification of paper in Tray 4.
- Check the paper path and sensor area for obstructions.
- Check for wear and clean the Tray 4 Feeder Roll, Takeaway Roll and the Pinch Roll.
- Check that the Left Cover is properly latched and that the Interlock Actuator is not damaged.

Procedure

Open the Left Cover and cheat the Left Cover Interlock Switch (PL 16.13). Enter Component Control [008-106] and press Start. Block and unblock the Takeaway Sensor (PL 16.6). **The display changes state.**

Y N

Press Stop. Check the circuit of the Takeaway Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop. Enter Component Control [008-033] and press Start. **Both Takeaway Rolls (PL 16.6) rotate.**

Y N

Takeaway Motor 1 (PL 16.15) energizes.

Y N

Press Stop. Check the circuit of the Takeaway Motor 1. Refer to the OF 99-9 RAP for troubleshooting procedure.

Press Stop. Check the Takeaway Motor 1 and its associated gears (PL 16.15) for damage, contamination and misalignment.

Press Stop. Remove the TTM Rear Cover. Enter Component Control [008-048] and press Start. **The Takeaway Motor 2 (PL 16.15) energizes.**

Y N

Press Stop. Check the circuit of the Takeaway Motor 2. Refer to the OF 99-9 RAP for troubleshooting procedure.

Press Stop.

- Check the Takeaway Motor 2 and its associated gears (PL 16.15) for damage, contamination and misalignment.
- Ensure that the Chutes (PL 16.6) are properly seated and not damaged.
- Ensure that the connectors in the circuit are securely connected and that the wires are not damaged.
- Replace the Takeaway Sensor (PL 16.6).
- If the problem persists, replace the Tray Module PWB (PL 16.15).

008-164 POB Sensor

BSD-ON: 9.25 Figure 27, 8.5 Figure 8, 10.2 Figure 3, 4.1 Figure 1

The POB Sensor did not detect paper after the Registration Clutch Energized.

Initial Actions

- Check condition and specification of the paper supply.
- Check for paper on the IBT.
- Check for obstructions in the paper feed path.
- Clean the POB Sensor.
- Check the 2nd BTR transmission gears for wear.
- Clean the Registration Roll and check for damage or wear.

Procedure

Open the Left Cover Assembly (PL 2.9). Enter Component Control [009-201] and press **Start**. Block and unblock the POB Sensor (PL 2.9). **The display changes state.**

Y N

Press **Stop**. Check the circuit of the POB Sensor. Refer to the OF 99-1 RAP for trouble-shooting procedure.

Press **Stop**. Enter Component Control [008-037] and press **Start**. **The Registration Clutch (PL 2.6) energizes.**

Y N

Press **Stop**. Check the circuit of the Registration Clutch. Refer to the OF 99-4 RAP for troubleshooting procedure.

Open the Left Cover Assembly (PL 2.8). Enter Component Control [010-101] and press **Start**. Actuate the Fuser Exit Switch (PL 2.8). **The display changes state.**

Y N

Press **Stop**. Check the circuit of the Fuser Exit Switch. Refer to the OF 99-3 RAP for trou-bleshooting procedure.

Close the Left Cover Assembly and press **Stop**. In sequence, enter the following: Component Control [009-052] then Component Control [009-051] and press Start. **The 2BTR contacts and retracts.**

Y N

Press **Stop**. Go to the 009-342 RAP for a contact failure or go to the 009-343 RAP for a retract failure.

Press **Stop**. Enter Component Control [004-007] and press Start. **The Main Motor energizes.**

Y N

Go to BSD 4.1 and check the circuit of the Main Motor.

- Ensure that the connectors in the circuit are securely connected and that the wires are not damaged.
- Replace the POB Sensor (PL 2.9).

008-175 Registration Sensor On Jam Tray 5

BSD-ON: 8.5 Figure 8, 8.1 Figure 1

The Registration Sensor does not detect paper fed from the MSI/Tray 5.

Initial Actions

- Check condition and specification of the paper supply.
- Check for obstructions in the paper feed path.
- Clean the MSI Feed Roll and check for wear.
- Clean the Takeaway Roll and check for wear.
- Check the drive transmissions for damage or wear.
- Push down on the Bottom Plate (PL 2.14) and release it, check that the springs returns the Bottom Plate to its upper position. Check for weak or damaged spring(s).

Procedure

Open the Left Cover Assembly (PL 2.9). Enter Component Control [008-104] and press Start. Block and unblock the Registration Sensor (PL 2.6). **The display changes state.**

Y N

Press Stop. Check the circuit of the Registration Sensor. Refer to the OF 99-1 RAP for troubleshooting procedure.

Close the Left Cover Assembly and press Stop. Enter Component Control [007-003] and press Start. **The Tray 5 Feed Solenoid (PL 2.13) energizes.**

Y N

Press Stop. Check the circuit of the Tray 5 Feed Solenoid. Refer to the OF 99-4 RAP for troubleshooting procedure.

Press Stop.

- Ensure that the connectors in the circuit are securely connected and that the wires are not damaged.
- Replace the Registration Sensor (PL 2.6).

008-176 Registration Sensor On Jam Tray 1-4

BSD-ON: 8.5 Figure 8, 8.2 Figure 2

The Registration Sensor does not detect paper fed from Trays 1 - 4.

Initial Actions

- Ensure customer closes Left Lower Cover (PL 2.3) firmly if dog ears also occur.
- Check condition and specification of the paper supply.
- Check for obstructions in the paper feed path
- Clean the Takeaway Roll and Pinch Roll and check for wear.
- Check the drive transmissions for damage or wear.

Procedure

Open the Left Cover Assembly (PL 2.9) Enter Component Control [008-104] and press Start. Block and unblock the Registration Sensor. **The display changes state.**

Y N

Press Stop. Check the circuit of the Registration Sensor. Refer to the OF 99-1 RAP for troubleshooting procedure.

Press Stop. Enter Component Control [008-077] and press Start. **The Takeaway Motor (PL 1.1) rotates.**

Y N

Takeaway Motor (PL 1.1) energizes.

Y N

Press Stop. Check the circuit of the Takeaway Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Press Stop. Check the Takeaway Motor and its associated gears (PL 1.1) for damage, contamination or misalignment.

Check the following:

- Ensure that the Chute (PL 2.3) is properly seated and not damaged.
- Check the Pinch Rolls (PL 2.3) for damage or contamination.
- Ensure that the connectors in the circuit are securely connected and that the wires are not damaged.
- Replace the Registration Sensor (PL 2.6).

008-180 Registration Sensor On Duplex

BSD-ON: 8.5 Figure 8, 10.4 Figure 6, 10.3 Figure 4

The Registration Sensor does not detect paper after a duplex feed.

Initial Actions

- Check condition and specification of the paper supply.
- Check for obstructions in the paper feed path.
- Clean the Registration Roll and check for wear.
- Clean the Exit Roll, Transport Roll, Wait Roll and check for wear.

Procedure

Open the Left Cover Assembly (PL 2.9). Enter Component Control [008-104] and press Start. Block and unblock the Registration Sensor (PL 2.6). **The display changes state.**

Y N

Press Stop. Check the circuit of the Registration Sensor (BSD8.5). Refer to the OF 99-1 RAP for troubleshooting procedure.

Press Stop. Close the Left Cover Assembly and remove the Left Upper Cover (PL 2.7). Enter Component Control [008-073] and press Start. **The Duplex Transport Roll (PL 12.1) rotates.**

Y N

The Duplex Motor (PL 12.2) energizes.

Y N

Press Stop. Check the circuit of the Duplex Motor (BSD 10.4). Refer to the OF 99-6 RAP for troubleshooting procedure.

Press Stop. Check the Duplex Motor and its associated pulleys and belts (PL 12.2) for damage, contamination or misalignment.

Press Stop. Enter Component Control [008-043] and press Start. **The Inverter Reverse Clutch (PL 11.2) energizes.**

Y N

Press Stop. Check the circuit of the Inverter Reverse Clutch. Refer to the OF 99-4 RAP for troubleshooting procedure.

Press Stop.

- Check that the Duplex Chute (PL 2.8) is properly seated and not damaged.
- Ensure that the connectors in the circuit are securely connected and that the wires are not damaged.
- If the problem persists, replace the Duplex PWB (PL 12.2).

008-181 Registration Sensor On Wait Sensor

BSD-ON: 8.5 Figure 8, 10.5 Figure 7, 10.4 Figure 6

The Registration Sensor does not detect paper after the Duplex Wait Sensor actuated.

Initial Actions

- Check condition and specification of the paper supply.
- Check for obstructions in the paper feed path.
- Clean the Registration Roll and check for wear.
- Clean the Duplex Transport Roll and check for wear.

Procedure

Open the Left Cover Assembly (PL 2.9). Enter Component Control [008-104] and press Start. Block and unblock the Registration Sensor (PL 2.6). **The display changes state.**

Y N

Press Stop. Check the circuit of the Registration Sensor. Refer to the OF 99-1 RAP for troubleshooting procedure.

Press Stop. Close the Left Cover Assembly and open the Duplex Module Cover. Enter Component Control [008-105] and press Start. Block and unblock the Duplex Wait Sensor (PL 12.2). **The display changes state.**

Y N

Press Stop. Check the circuit of the Duplex Wait Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop. Close the Duplex Module Cover and remove the Left Upper Cover (PL 2.7). Enter Component Control [008-073] and press Start. **The Duplex Transport Roll (PL 12.1) rotates.**

Y N

The Duplex Motor (PL 12.2) energizes.

Y N

Press Stop. Check the circuit of the Duplex Motor (BSD 10.4). Refer to the OF 99-9 RAP for troubleshooting procedure.

Press Stop. Check the Duplex Motor and its associated pulleys and belts (PL 12.2) for damage, contamination and misalignment.

Press Stop.

- Check the Duplex Wait Roll and Pinch Rolls (PL 12.2) for damage and contamination.
- Ensure that the connectors in the circuit are securely connected and that the wires are not damaged.
- Ensure that the Duplex Chute (PL 2.8) is properly seated and not damaged.
- If the problem persists, replace the Duplex PWB (PL 12.2).

008-184 Registration Sensor Off

BSD-ON: 10.2 Figure 3, 8.5 Figure 8

The Fuser Exit Switch did not detect paper after the Registration Clutch was energized.

Initial Actions

- Check condition and specification of the paper supply.
- Check for obstructions in the paper feed path.
- Check the Fuser Belt and the Heat Roll for damage or wear.
- Clean the Registration Roll and check for wear.
- Clean the Duplex Transport Roll and check for wear.
- Check that the Fuser Exit Switch Actuator is properly seated and not damaged.

Procedure

Open the Left Cover Assembly (PL 2.9). Enter Component Control [010-101] and press Start. Actuate the Fuser Exit Switch (PL 2.8). **The display changes state.**

Y N

Press Stop. Check the circuit of the Fuser Exit Switch. Refer to the OF 99-3 RAP for troubleshooting procedure.

Press Stop. Enter Component Control [008-037] and press Start. **The Registration Clutch (PL 2.6) energizes.**

Y N

Press Stop. Check the circuit of the Registration Clutch. Refer to the OF 99-4 RAP for troubleshooting procedure.

Close the Left Cover Assembly and press Stop. In sequence enter the following: Component Control [009-052] then Component Control [009-051] and press Start. **The 2nd BTR Retract Motor (PL 2.9) energizes.**

Y N

Refer to 009-342 for a contact failure or go to 009-343 for a retract failure.

Press Stop.

- Ensure that the connectors in the circuit are securely connected and that the wires are not damaged.
- If the problem persists, replace the Duplex PWB (PL 12.2).

008-620 Regicon Temp Sensor

BSD-ON: 9.16 Figure 17

Environment Sensor not in range.

Procedure

NOTE: *Machine operation continues. Status Code not displayed on UI Status Code logged in History. Status Code logged in History.*

Turn the power off. Disconnect the Environment Sensor (PL 1.3).
Measure the resistance between the following:

- MCU PWB P/J404-B12 and P/J255-1
- MCU PWB P/J404-B10 and P/J255-3
- MCU PWB P/J404-B9 and P/J255-4

The Resistance is 1 ohm or less.

Y N

Check the wires and connectors. If the check is OK, replace the replace MCU PWB (PL 13.1).

Measure resistance between P/J255-3 and P/J255-4 on Environment Sensor. **6k ohms to 20k ohms is measured.**

Y N

Replace Environment Sensor (PL 1.3).

Replace MCU PWB (PL 13.1).

008-622 Regicon Data Overflow (A1 Patch X)

At A1 patch detection, the XSO correction setting value for either Y, M, C, or K exceeds the setting range (NVM value 0 to 472).

NOTE: *Status Code not displayed on UI, Status Code logged in History. Machine operation continues.*

Procedure

Check the Transfer Belt and Drums for a scratch or contamination. **The check is OK.**

Y N

Replace as required.

Adjust the Color Registration (ADJ 9.6).

008-623 Regicon Data Overflow (A2 Patch Y)

At A2 patch detection, the YSO correction setting value of either Y, M, C, or K exceeds the setting range (NVM value 0 to 474).

NOTE: *Status Code not displayed on UI, Status Code logged in History. Machine operation continues.*

Procedure

Check the Transfer Belt and Drums for a scratch or contamination. **The check is OK.**

Y **N**

Replace as required.

Adjust the Color Registration (ADJ 9.6).

008-624 Regicon Data Overflow (Patch Magnification)

MAG Adjusted Set Point of operation results for each of Y,M,C exceeded the set range (NVM value: 0~1432).

NOTE: *Status Code not displayed on UI Status Code logged in History. Machine operation continues.*

Procedure

Check the Transfer Belt and Drums for a scratch or contamination. **The check is OK.**

Y **N**

Replace as required.

Adjust the Color Registration (ADJ 9.6).

008-625 Regicon Sample Block (A1 Patch-rear)

At A1 (IN) patch detection, the number of the sample blocks does not reach the specified number.

NOTE: *Status Code not displayed on UI Status Code logged in History. Machine operation continues.*

Procedure

Check the Transfer Belt and Drums for a scratch or contamination. **The check is OK.**

Y **N**

Replace as required.

Adjust the Color Registration (ADJ 9.6).

008-626 Regicon Sample Block (A1 Patch-front)

At A1 (OUT) patch detection, the number of the sample blocks does not reach the specified number.

NOTE: *Status Code not displayed on UI Status Code logged in History. Machine operation continues.*

Procedure

Check the Transfer Belt and Drums for a scratch or contamination. **The check is OK.**

Y **N**

Replace as required.

Adjust the Color Registration (ADJ 9.6).

008-627 Regicon Sample Lateral (A1 Patch-rear)

At A1 (IN) patch detection, the Fast Scan scan position of CYAN color that is the standard for the rest is incorrect. (In relation to the MOB SENSOR, the center position of the CYAN pattern is shifted by ±500µm or more.)

NOTE: *Status Code not displayed on UI Status Code logged in History. Machine operation continues.*

Procedure

Check the Transfer Belt and Cyan Drum for a scratch or contamination. **The check is OK.**

Y **N**

Replace as required.

Adjust the Color Registration (ADJ 9.6).

008-628 Regicon Sample Lateral (A1 Patch-front)

At A1 (OUT) patch detection, the scan position of CYAN color that is the standard for the rest is incorrect. (In relation to the MOB SENSOR, the center position of the CYAN pattern is shifted by ±500µm or more.?

NOTE: *Status Code not displayed on UI, Status Code logged in History. Machine operation continues.*

Procedure

Check the Transfer Belt and Cyan Drum for a scratch or contamination. **The check is OK.**

Y **N**

Replace as required.

Adjust the Color Registration (ADJ 9.6).

008-629 Regicon Skew (Patch Y)

During A1 Patch detection, skew deviation for Y exceeded tolerance.

NOTE: *Machine operation continues. Status Code not displayed on UI. Status Code logged in History.*

Initial Actions

Clean MOB Sensor (REP 9.14).

Procedure

Check the Transfer Belt and Yellow Drum for a scratch or contamination. **The check is OK.**

Y **N**

Replace as required.

Adjust the Color Registration (ADJ 9.6).

008-630 Regicon Skew (Patch M)

During A1 Patch detection, skew deviation for M exceeded tolerance.

NOTE: *Machine operation continues. Status Code not displayed on UI. Status Code logged in History.*

Initial Actions

Clean MOB Sensor (REP 9.14).

Procedure

Check the Transfer Belt and Magenta Drum for a scratch or contamination. **The check is OK.**

Y **N**

Replace as required.

Adjust the Color Registration (ADJ 9.6).

008-631 Regicon Skew (Patch K)

During A1 Patch detection, skew deviation for K exceeded tolerance.

NOTE: *Machine operation continues. Status Code not displayed on UI. Status Code logged in History.*

Initial Actions

Clean MOB Sensor (REP 9.14).

Procedure

Check the Transfer Belt and Black Drum for a scratch or contamination. **The check is OK.**

Y **N**

Replace as required.

Adjust the Color Registration (ADJ 9.6).

008-900 Static Jam

When the machine power is turned off then on before a paper path fault is cleared, an unclearable paper jam occurs. A voltage drop or interruption can also cause this fault.

Initial Actions

- Check the entire paper path for paper or obstructions.
- Clean all the paper path sensors.
- Check the Fault History for the last paper path fault. Go to that paper path fault RAP.

Procedure

In sequence, enter the following dC330 codes:
Block and unblock each sensor. Go to the RAP if the sensor does not respond.

- 8-100 Tray 1 Feedout Sensor, Area 3; 007-105 RAP.
- 8-106 Takeaway Sensor, Area 4; 007-110 RAP.
- 8-102 Tray 3 Feedout Sensor, Area 4; 007-115 RAP.
- 8-103 Tray 4 Feedout Sensor, Area 4; 007-119 RAP.
- 8-104 Registration Sensor, Area 1; 008-175 RAP.
- 8-105 Duplex Transport Wait Sensor; 010-125 RAP.
- 9-201 POB On Jam; 008-164 RAP.
- 10-101 Fuser Exit Switch; 010-110 RAP.

The display changes for each code.

Y **N**

Go to the appropriate paper path fault RAP.

Check the machine input voltage.

009-330 Developer Motor Failure

BSD-ON: BSD 9.9 Figure 9

The Developer Motor did not turn on in the specified time.

Initial Actions

Switch the power Off and On.

Procedure

Enter Component Control [009-014] (Deve Motor). **The Developer Motor turns.**

Y N

There is 24 VDC between P/J533, pins 3(+) and 4(-) on the IF PWB (MDD).

Y N

There is 24 VDC between P/J531, pin 5 on the I/F PWB (MDD) and GND.

Y N

There is 24 VDC between P/J502, pin 1 on the 24V LVPS and GND.

Y N

Go to the OF 1-3 RAP.

Check the wires between P/J502 (BSD 1.7 - Figure 7) and P/J531 (BSD 1.9 - Figure 9).

Replace the I/F PWB (MDD) (PL 9.1)

Enter Component Control [009-014]. Make the following voltage checks at P/J533 on the I/F PWB (MDD):

- pin 1: High
- pin 8: Low less than 1 VDC
- pin 6: 5 VDC

All voltage checks are good.

Y N

Replace the MCU PWB (PL 13.1). If the problem continues, replace the I/F PWB (MDD) (PL 9.1).

Check the wire between P/J533 on the IF PWB (MDD) and P/J232 Developer Motor Assembly (BSD 9.9 Figure 9).
Check the gears for binding or damage (BSD 9.9 Figure 9).
If the checks are good, replace the Developer Motor Assembly (PL 1.1).

There is less than 1 VDC at P/J533 pin 7.

Y N

Check the wire between P/J533 pin 7 on the IF PWB (MDD) and P/J232 pin 8 on the Developer Motor Assembly for an open circuit. If the wire is okay replace the Developer Motor Assembly (PL 1.1).

Check the wire between P/J533 pin 7 on the IF PWB (MDD) and P/J232 pin 8 on the Developer Motor Assembly for an short circuit. If the wire is OK, replace the MCU PWB (PL 13.1). If the problem remains, replace the /F PWB (MDD) (PL 9.1).

009-342 2nd BTR Contact

BSD-ON:9.24 Figure 25

The 2nd BTR did not reach the contact position.

Initial Actions

- Clean the 2nd BTR Retract Sensor (PL 2.9) and check for damage.
- Check the 2nd BTR gears (PL 2.8) for breakage.

Procedure

Enter Component Control [009-200]. Open the Left Cover and block and unblock the 2nd BTR Retract Sensor with a piece of paper. **The display changes.**

Y N

Disconnect P/J140. **There is +5VDC from J140-3 to J140-1.**

Y N

Check the wires from P/J540 on the I/F (MDD) PWB to the sensor. If the wires are OK, replace the I/F (MDD) PWB (PL 9.1).

There is +3.3VDC from J140-2 to GND.

Y N

Check the wire from P/J540-B14 on the I/F (MDD) PWB to J140-2 for an open or a short circuit to GND. If the wires are OK, replace the I/F (MDD) PWB (PL 9.1). If the problem is not solved, replace the MCU PWB (PL 13.1).

Replace the 2nd BTR Retract Sensor (PL 2.9).

In sequence, enter the following: Component Control [009-051] then dC330 [009-052]. **The 2nd BTR contacts and retracts.**

Y N

There is +24VDC from P/J540-B3 on the I/F (MDD) PWB to GND.

Y N

Go to the +24 VDC Wirenets and troubleshoot the problem.

Check the wires between P/J540 and P/J216 on the 2nd BTR Retract Motor for opens, shorts, or loose connections. If the wires are OK, replace the 2nd BTR Retract Motor (PL 2.9). If the problem continues, replace the MCU PWB (PL 13.1). If the problem continues, replace the I/F (MDD) PWB (PL 9.1).

Check for mechanical problems preventing the movement of the assembly. Check for debris blocking the sensor.
Check CRU/HFSI, Print HFSI Report. Determine the life remaining on the CRUs and HFSIs in the area, perform following:

1. Replace CRUs/HFSIs as required.
2. Perform **GP 3 Saving Machine Data**.
3. Verify that the 009-342 problem is corrected.
4. Verify machine operation.

009-343 2nd BTR Retract

BSD-ON:9.24 Figure 25

The 2nd BTR did not reach the retract position.

Initial Actions

Check CRU/HFSI, Print HFSI Report. Determine the life remaining on the CRUs and HFSIs in the area, perform following:

1. Replace CRUs/HFSIs as required.
2. Perform **GP 3 Saving Machine Data**.
3. Clean the 2nd BTR Retract Sensor (PL 2.9) and check for damage.
4. Check the 2nd BTR gears (PL 2.8) for breakage.
5. Verify that the 009-343 problem is corrected.
6. Verify machine operation.

Procedure

Enter Component Control [009-200]. Open the Left Cover and block and unblock the 2nd BTR Retract Sensor with a piece of paper. **The display changes.**

Y N

Disconnect P/J140. **There is +5VDC from J140-3 to J140-1.**

Y N

Check the wires from P/J540 on the I/F (MDD) PWB to the sensor. If the wires are OK, replace the I/F (MDD) PWB (PL 9.1).

There is +3.3VDC from J140-2 to GND.

Y N

Check the wire from P/J540-B14 on the I/F (MDD) PWB to J140-2 for an open or a short circuit to GND. If the wires are OK, replace the I/F (MDD) PWB (PL 9.1). If the problem is not solved, replace the MCU PWB (PL 13.1).

Replace the 2nd BTR Retract Sensor (PL 2.9).

In sequence, enter the following: Component Control [009-051] then [009-052]. **The 2nd BTR contacts and retracts.**

Y N

There is +24VDC from P/J540-B3 on the I/F (MDD) PWB to GND.

Y N

Go to the +24 VDC Wirenets (Figure 1) and troubleshoot the problem.

Check the wires between P/J540 and P/J216 on the 2nd BTR Retract Motor for opens, shorts, or loose connections. If the wires are OK, replace the 2nd BTR Retract Motor (PL 2.9). If the problem continues, replace the MCU PWB (PL 13.1). If the problem continues, replace the I/F (MDD) PWB (PL 9.1).

Check for mechanical problems preventing the movement of the assembly. Check for debris blocking the sensor.

009-348 1st BTR Contact

BSD-ON:9.18 Figure 19

The 1st BTR did not reach the contact position.

Initial Actions

- Clean the 1st BTR Retract Sensor (PL 5.4) and check for damage
- Check the 1st BTR Worm Gear and Retract Shaft (PL 5.4) for breakage

Procedure

In sequence, enter the following: Component Control [009-054] then dC330 [009-055]. **The 1st BTR contacts and retracts.**

Y N

There is +24VDC from P/J539-A8 on the I/F (MDD) PWB to GND.

Y N

Go to the +24 VDC Wirenets and troubleshoot the problem.

Check the wires between P/J539 and P/J237 on the 1st BTR Retract Motor for opens, shorts, or loose connections. If the wires are OK, replace the 1st BTR Retract Motor (PL 5.4). If the problem continues, replace the MCU PWB (PL 13.1). If the problem continues, replace the I/F (MDD) PWB (PL 9.1).

Stack Component Control input codes [004--014] (1st BTR Retract Sensor Power) and [009-203] (1st BTR Retract Sensor). Then, in sequence, enter the following: Component Control [009-054] then dC330 [009-055]. **The 1st BTR Retract Sensor changes state.**

Y N

Check the circuit of the 1st BTR Retract Sensor (PL 5.4).

Replace the MCU PWB (PL 13.1).

009-349 1st BTR Retract

BSD-ON:9.18 Figure 19

The 1st BTR did not reach the retract position.

Initial Actions

- Clean the 1st BTR Retract Sensor (PL 5.4) and check for damage.
- Check the 1st BTR Worm Gear and Retract Shaft (PL 5.4) for breakage.

Procedure

In sequence, enter the following: Component Control [009-054] then dC330 [009-055]. **The 1st BTR contacts and retracts.**

Y N

There is +24VDC from P/J539-A16 on the I/F (MDD) PWB to GND.

Y N

Go to the +24 VDC Wirenets and troubleshoot the problem.

Check the wires between P/J539 and P/J237 on the 1st BTR Retract Motor for opens, shorts, or loose connections. If the wires are OK, replace the 1st BTR Retract Motor (PL 5.4). If the problem continues, replace the MCU PWB (PL 13.1). If the problem continues, replace the I/F (MDD) PWB (PL 9.1).

Stack Component Control input codes [004--014] (1st BTR Retract Sensor Power) and [009-203] (1st BTR Retract Sensor). Then, in sequence, enter the following: Component Control [009-054] then dC330 [009-055]. **The 1st BTR Retract Sensor changes state.**

Y N

Check the circuit of the 1st BTR Retract Sensor (PL 5.4).

Replace the MCU PWB (PL 13.1).

009-350 IBT Home Sensor

BSD-ON:9.17 Figure 18, 9.19 Figure 20

The IBT Home Sensor detected the IBT position strip before the IBT Belt made a complete revolution.

Initial Actions

- Ensure that the Transfer Belt is installed correctly.
- Clean the IBT Home Sensor (PL 5.4) and check for damage
- Check the IBT drives for damage (PL 1.1).

Procedure

Remove the IBT Assembly. Enter Component Control [004-002]. **The IBT Motor operates.**

Y N

There is +24VDC from P/J551-3 on the I/F (MDD) PWB to GND.

Y N

Go to the +24 VDC Wirenets (Figure 1) and troubleshoot the problem.

Check the wires between P/J551 and the IBT Motor for opens, shorts, or loose connections. If the wires are OK, replace the IBT Motor (PL 1.1). If the problem continues, replace the MCU PWB (PL 13.1). If the problem continues, replace the I/F (MDD) PWB (PL 9.1).

Enter Component Control [004-014]. **There is +5VDC from P/J539-A1 to A4 on the I/F (MDD) PWB**

Y N

Check the wire from P/J539-A1 to P/J605 on the IBT Assembly for a short circuit. If the wire is OK, replace the MCU PWB (PL 13.1). If the problem continues, replace the I/F (MDD) PWB (PL 9.1).

There is +5VDC from P/J539-A4 to A5 on the I/F (MDD) PWB.

Y N

Check the wire from P/J539-A5 to P/J605 on the IBT Assembly for a short circuit. If the wire is OK, replace the MCU PWB (PL 13.1). If the problem continues, replace the I/F (MDD) PWB (PL 9.1).

Check the wires from P/J539 to the IBT Home Sensor for an open wire, loose connection, or a short circuit. If the wires are OK, replace the IBT Home Sensor (PL 5.4). If the problem continues, replace the MCU PWB (PL 13.1). If the problem continues, replace the I/F (MDD) PWB (PL 9.1).

009-351 Drive Logic

BSD-ON:9.19 Figure 20

The IBT Edge Sensor detected that the IBT Belt is not tracking correctly.

Initial Actions

- Check the IBT Edge Sensor for damage. Ensure that the actuator is touching the edge of the belt.
- Check the IBT steering drives for damage.

Procedure

Switch on the power. **There is +1VDC to +3VDC from P/J539-A3 to GND.**

Y N

There is +5VDC measured between P/J539-A2 and P/J539-A1 on the I/F (MDD) PWB.

Y N

Replace the MCU PWB (PL 13.1).

There is +5VDC from P/J 539-A3 on the I/F (MDD) PWB to GND.

Y N

Check the connectors and wires. If the check is OK, replace the IBT Edge Sensor (PL 5.4). If the problem continues, replace the MCU PWB (PL 13.1).

Replace the IBT Sensor (PL 5.4).

Remove the IBT Assembly. Enter Component Control [004-001]. **The IBT Steering Motor rotates.**

Y N

There is +24 VDC from P/J537 on the I/F (MDD) PWB to GND.

Y N

Go to the +24 VDC Wirenets and troubleshoot the problem.

Check the wires from P/J537 on the I/F (MDD) PWB to P/J207 on the IBT Steering Motor for shorts, opens, or loose connections. If the wires are OK, replace the MCU PWB (PL 13.1). if the problem persists replace the I/F (MDD) PWB (PL 9.1), then the IBT Steering Motor (PL 1.3).

Check the installation of the Transfer Belt and the IBT Assembly (PL 5.3). Repair or replace as required. If the check is good, replace the MCU PWB (PL 13.1).

009-358 Full Toner Sensor

BSD-ON:9.29 Figure 31

The Full Toner Sensor detects a full toner condition.

Initial Actions

- Ensure that the Waste Toner Cartridge is not full.
- Check the sensor for toner contamination and foreign substances.

Procedure

Remove the Full Toner Sensor from the bottle. Enter dC330 [009-150]. Block and unblock the Full Toner Sensor (PL 4.1). **The display changes.**

Y N

Disconnect P/J133. **There is +5VDC from J133-1 to J133-3.**

Y N

Check the wires from J133, pins 1 and 3 to P/J404 on the MCU PWB for opens, shorts, or loose connections. If the wires are OK, replace the MCU PWB (PL 13.1).

There is +3.3VDC from J133-2 to GND.

Y N

Check the wire from J133-2 to P/J404 on the MCU PWB for opens, shorts, or loose connections. If the wire is OK, replace the MCU PWB (PL 13.1).

Replace the Full Toner Sensor (PL 4.1).

The problem may be intermittent. If the condition continues, replace the MCU PWB. (PL 13.1).

009-360 Yellow Drum Cartridge Communication

BSD-ON:9.3 Figure 3

A communication failure with the Yellow Drum Cartridge was detected.

Initial Actions

Check that the Yellow Drum Cartridge is seated correctly.

Procedure

Enter Component Control [009-151]. **The display is High.**

Y **N**

Check the wires between P/J405 and P/J151. If the check is OK, replace the Yellow Drum Cartridge (refer to Section 6, CRUs and Consumables).

Replace the MCU PWB (PL 13.1).

009-361 Magenta Drum Cartridge Communication

BSD-ON:9.3 Figure 3

A communication failure with Magenta Drum Cartridge was detected.

Initial Actions

Check that the Magenta Drum Cartridge is seated correctly.

Procedure

Enter Component Control [009-152]. **The display is High.**

Y **N**

Check the wires between P/J405 and P/J152. If the check is OK, replace the Magenta Drum Cartridge (refer to Section 6, CRUs and Consumables).

Replace the MCU PWB. (PL 13.1).

009-362 Cyan Drum Cartridge Communication

BSD-ON:9.4 Figure 4

A communication failure with the Cyan Drum Cartridge was detected.

Initial Actions

Check that the Cyan Drum Cartridge is seated correctly.

Procedure

Enter Component Control [009-153]. **The display is High.**

Y **N**

Check the wires between P/J405 and P/J154. If the check is OK, replace the Cyan Drum Cartridge (refer to Section 6, CRUs and Consumables).

Replace the MCU PWB (PL 13.1).

009-363 Black Drum Cartridge Communication

BSD-ON:9.4 Figure 4

A communication failure with the Black Drum Cartridge was detected.

Initial Actions

Check that the Black Drum Cartridge is seated correctly.

Procedure

Enter Component Control [009-154]. **The display is High.**

Y **N**

Check the wires between P/J405 and P/J153. If the check is OK, replace the Black Drum Cartridge (refer to Section 6, CRUs and Consumables).

Replace the MCU PWB (PL 13.1).

009-380 Yellow ATC Sensor

BSD-ON:9.10 Figure 10

The Yellow ATC Sensor detects a low TC (toner concentration).

Initial Actions

- Check that Toner/Developer is present.
- Check the Yellow ATC Sensor for contamination. Ensure that the sensor is seated correctly.

NOTE: *To clear this fault, set the value of NVM location* 752-109 *to 0.*

Procedure

Record the value in NVM location 752-324, then set the value to 1. Perform ADJ 9.3. After the measurement has completed, restore the value. **The Yellow ATC Sensor check is OK.**

Y **N**

Check connector P/J129. If the check is OK, replace the ATC Sensor (Y) (PL 6.2).
If the problem continues, replace the MCU PWB (PL 13.1).
Go to ADJ 9.3.

Go to ADJ 9.3.

009-381 Magenta ATC Sensor

BSD-ON:9.11 Figure 11

The Magenta ATC Sensor detects a low TC (toner concentration)

Initial Actions

- Check that Toner/Developer is present.
- Check the Magenta ATC Sensor for contamination. Ensure that the sensor is seated correctly.

Procedure

NOTE: *To clear this fault, set the value of NVM location 752-110 to 0.*

Record the value in NVM location 752-324, then set the value to 1. Perform ADJ 9.3. After the measurement has completed, restore the value. **The Magenta ATC Sensor check is OK.**

Y **N**

Check connector P/J130. If the check is OK, replace the ATC Sensor (M) (PL 6.2). If the problem continues, replace the MCU PWB (PL 13.1).
Go to ADJ 9.3.

Go to ADJ 9.3.

009-382 Cyan ATC Sensor

BSD-ON:9.12 Figure 12

The Cyan ATC Sensor detects TC (toner concentration)

Initial Actions

- Check that Toner/Developer is present.
- Check the Cyan ATC Sensor for contamination. Ensure that the sensor is seated correctly.

Procedure

NOTE: *To clear this fault, set the value of NVM location 752-111 to 0.*

Record the value in NVM location 752-324, then set the value to 1. Perform ADJ 9.3. After the measurement has completed, restore the value. **The Cyan ATC Sensor check is OK.**

Y **N**

Check connector P/J131. If the check is OK, replace the ATC Sensor (C) (PL 6.2). If the problem continues, replace the MCU PWB (PL 13.1).
Go to ADJ 9.3.

Go to ADJ 9.3.

009-383 Black ATC Sensor

BSD-ON:9.13 Figure 13

The Black ATC Sensor detects a low TC (toner concentration)

Initial Actions

- Check that Toner/Developer is present.
- Check the Black ATC Sensor for contamination. Ensure that the sensor is seated correctly.

Procedure

NOTE: *To clear this fault, set the value of NVM location 752-112 to 0.*

Record the value in NVM location 752-324, then set the value to 1. Perform ADJ 9.3. After the measurement has completed, restore the value. **The Black ATC Sensor check is OK.**

Y **N**

Check connector P/J132. If the check is OK, replace the ATC Sensor (K) (PL 6.2). If the problem continues, replace the MCU PWB (PL 13.1).
Go to ADJ 9.3.

Go to ADJ 9.3.

009-390 New Black Toner Cartridge

BSD-ON:9.14 Figure 15

The Control Logic did not detect New Cartridge Detect Switch engagement to reset the Accumulative Dispense time NVM value to 0 when a new cartridge was installed.

Initial Actions

- Re-install the Toner Cartridge ensuring that the Dispense Motor and the Toner Cartridge is engaged.
- Check that the New/Old Detection Switch (metal part) at the rear of the Toner Cartridge is raised. If the New/Old Detection Switch is not raised, lift it up, then set NVM location 752-686 (Accumulative Dispense Time Value K) to 0.
- Check that the Dispense Motor is operating; check Component Control [009-004, Dispense Motor (K)].

Procedure

Disconnect P/J406 from the MCU PWB. **The fault has cleared.**

Y N

Replace the MCU PWB. (PL 13.1).

Remove the black toner cartridge and check the Dispense Motor Assembly for wear or damage.

Disconnect FS186/ FS187at both edges of the Black New Cartridge Detect Switch.

Check continuity at both edges of the Black New Cartridge Detect Switch. **There is continuity when the Switch is not engaged.**

Y N

Check the wire between J406-18 and FS187 on the Black New Cartridge Detect Switch for a short circuit to the frame.

Replace the Black New Cartridge Detect Switch. (PL 6.1).

009-391 New Cyan Toner Cartridge

BSD-ON:9.14 Figure 15

The Control Logic did not detect New Cartridge Detect Switch engagement to reset the Accumulative Dispense time NVM value to 0 when a new cartridge was installed.

Initial Actions

- Re-install the Toner Cartridge ensuring that the Dispense Motor and the Toner Cartridge are engaged.
- Check that the New/Old Detection Switch (metal part) at the rear of the Toner Cartridge is raised. If the New/Old Detection Switch is not raised, lift it up, then set the value of NVM location 752-685 (Accumulative Dispense Time Value C) to 0.
- Check that the Dispense Motor is operating; check Component Control [009-003], (Dispense Motor C)].

Procedure

Disconnect P/J406 from the MCU PWB. **The fault has cleared.**

Y N

Replace the MCU PWB. (PL 13.1).

Remove the cyan toner cartridge and check the Dispense Motor Assembly for wear or damage.

Disconnect FS185/ FS184 at both edges of the New Cartridge Detect Switch (C).

Check continuity at both edges of the New Cartridge Detect Switch (C). **There is continuity when the Switch is not engaged.**

Y N

Check the wire between the connector J406-13 and the New Cartridge Detect Switch (C) FS185 for a short circuit to the frame.

Replace the New Cartridge Detect Switch (C) (PL 6.1).

009-392 New Magenta Toner Cartridge

BSD-ON:9.14 Figure 15

The Control Logic did not detect New Cartridge Detect Switch engagement to reset the Accumulative Dispense time NVM value to 0 when a new cartridge was installed.

Initial Actions

- Re-install the Toner Cartridge ensuring that the Dispense Motor and the Toner Cartridge is engaged.
- Check that the New/Old Detection Switch (metal part) at the rear of the Toner Cartridge is raised. If the New/Old Detection Switch is not raised, lift it up, then set the value of NVM location 752-684 (Accumulative Dispense Time Value M) to 0.
- Check that the Dispense Motor is operating; check Component Control [009-002, Dispense Motor (M)].

Procedure

Disconnect P/J406 from the MCU PWB. **The fault has cleared.**

Y N

Replace the MCU PWB. (PL 13.1).

Remove the magenta toner cartridge and check the Dispense Motor Assembly for wear or damage.

Disconnect FS182/ FS183 at both edges of the New Cartridge Detect Switch.

Check continuity at both edges of the New Cartridge Detect Switch. **There is continuity when the Switch is not engaged.**

Y N

Check the wire between the connector J406-15 and the New Cartridge Detect Switch (M) FS183 for a short circuit to the frame.

Replace the New Cartridge Detect Switch (M) (PL 6.1).

009-393 New Yellow Toner Cartridge

BSD-ON:9.14 Figure 15

The Control Logic did not detect New Cartridge Detect Switch engagement to reset the Accumulative Dispense time NVM value to 0 when a new cartridge was installed.

Initial Actions

- Re-install the Toner Cartridge ensuring that the Dispense Motor and the Toner Cartridge is engaged.
- Check that the New/Old Detection Switch (metal part) at the rear of the Toner Cartridge is raised. If the New/Old Detection Switch is not raised, lift it up, then set the value of NVM location 752-683 (Accumulative Dispense Time Value Y) to 0.
- Check that the Dispense Motor is operating; check Component Control [009-001, Dispense Motor (C)].

Procedure

Disconnect P/J406 from the MCU PWB. **The fault has cleared.**

Y N

Replace the MCU PWB. (PL 13.1).

Remove the yellow toner cartridge and check the Dispense Motor Assembly for wear or damage.

Disconnect FS180 and FS181 at both edges of the New Cartridge Detect Switch (Y).

Check continuity at both edges of the New Cartridge Detect Switch (Y). **There is continuity when the Switch is not engaged.**

Y N

Check the wire between the connector J406-18 and FS181 on the New Cartridge Detect Switch (Y) for a short circuit to the frame.

Replace the New Cartridge Detect Switch (Y) (PL 6.1).

009-408 Waste Toner Cartridge Near Full

BSD-ON: 9.29 Figure 31

The Waste Toner Cartridge is nearly full. This fault requires service only if the message appears before the Toner Cartridge is not nearly full.

Initial Actions

Replace the Waste Toner Cartridge. Check the Full Toner Sensor for contaminants.

Procedure

If the problem persists, go to the 009-358 RAP.

009-409 Waste Toner Cartridge

Waste Toner Cartridge was replaced.

Procedure

No action required.

009-410 Yellow Toner Cartridge Near Empty

BSD-ON:9.15 Figure 16, 9.9 Figure 9

The Yellow Toner Cartridge is nearly empty/empty. This fault requires service only if the message appears before the Toner Cartridge is depleted.

NOTE: *Continuous running of high density prints can temporarily deplete the toner supply.*

Initial Actions

- Ensure that there is toner and the toner is evenly distributed in the cartridge (Y).
- Check the Yellow ATC Sensor for blockage or contaminants.
- Check the drive system from the Developer Drive Motor to the Developer Housing (Y) for damage.

Procedure

Enter Component Control [009-001]. **The Yellow Toner Dispense Motor (PL 6.1) energizes.**

Y N

There is +24 VDC from P/J406-3 to GND.

Y N

Go to the +24 VDC Wirenets and troubleshoot the problem.

There is +24 VDC from P/J406-2 to GND.

Y N

Check the wires from P/J406 to P/J227 for an open circuit. If the wires are OK, replace the Yellow Toner Dispense Motor (PL 6.1).

Enter Component Control [009-001]. **The voltage from P/J406-2 to GND drops to less than 1 VDC.**

Y N

Replace the MCU PWB (PL 13.1). If the problem continues, replace the I/F (MDD) PWB (PL 9.1).

Check the wires from P/J406 to P/J227 for an open circuit. If the wires are OK, replace the Yellow Toner Dispense Motor (PL 6.1).

Enter Component Control [009-014]. **The Developer Motor energizes (PL 1.1).**

Y N

There is +24VDC from P/J533-3 to 4 on the I/F (MDD) PWB.

Y N

Go to the +24 VDC Wirenets (Figure 1) and troubleshoot the problem.

There is +5VDC from P/J533-6 to 5 on the I/F (MDD) PWB.

Y N

Go to the +5VDC Wirenets and troubleshoot the problem.

Check the wires between P/J533 on the I/F (MDD) PWB and P/J232 at the Developer Motor for open or short circuit failures or loose connections. If the wires are OK, replace the Developer Motor (PL 1.1). If the problem continues, replace the MCU PWB (PL 13.1).

Check ADJ 9.3. **The Yellow ATC Sensor check is OK.**

Y N

Go to the 009-380, ATC Sensor Failure RAP.

After checking that no failures are detected during normal operation, go to call closeout.

009-411 Magenta Toner Cartridge Near Empty

BSD-ON:9.15 Figure 16, 9.9 Figure 9

The Magenta Toner Cartridge is nearly empty. This fault requires service only if the message appears before the Toner Cartridge is depleted.

NOTE: *Continuous running of high density prints can temporarily deplete the toner supply.*

Initial Actions

- Ensure that there is toner and the toner is evenly distributed in the Magenta cartridge.
- Check the Magenta ATC Sensor for blockage or contaminants.
- Check the drive system from the Developer Drive Motor to the Magenta Developer Housing for damage.

Procedure

Enter Component Control [009-002]. **The Magenta Toner Dispense Motor (PL 6.1) energizes.**

Y N

There is +24 VDC from P/J406-5 to GND.

Y N

Go to the +24 VDC Wirenets and troubleshoot the problem.

There is +24 VDC from P/J406-4 to GND.

Y N

Check the wires from P/J406 to P/J228 for an open circuit. If the wires are OK, replace the Magenta Toner Dispense Motor (PL 6.1).

Enter Component Control [009-002]. **The voltage from P/J406-4 to GND drops to less than 1 VDC.**

Y N

Replace the MCU PWB (PL 13.1). If the problem continues, replace the I/F (MDD) PWB (PL 9.1).

Check the wires from P/J406 to P/J228 for an open circuit. If the wires are OK, replace the Magenta Toner Dispense Motor (PL 6.1).

Enter Component Control [009-014]. **The Developer Motor energizes (PL 1.1).**

Y N

There is +24VDC from P/J533-3 to 4 on the I/F (MDD) PWB.

Y N

Go to the +24 VDC Wirenets and troubleshoot the problem.

There is +5VDC from P/J533-6 to 5 on the I/F (MDD) PWB.

Y N

Go to the +5VDC Wirenets and troubleshoot the problem.

Check the wires between P/J533 on the I/F (MDD) PWB and P/J232 at the Developer Motor for open or short circuit failures or loose connections. If the wires are OK, replace the Developer Motor (PL 1.1). If the problem continues, replace the MCU PWB (PL 13.1).

A

A

Check ADJ 9.3. **The Magenta ATC Sensor check is OK.**

Y N

Go to the 009-381, ATC Sensor Failure RAP.

After checking that no failures are detected during normal operation, go to call closeout.

009-412 Cyan Toner Cartridge Near Empty

BSD-ON:9.15 Figure 16, 9.9 Figure 9

The Cyan Toner Cartridge is nearly empty/empty. This fault requires service only if the message appears before the Toner Cartridge is depleted.

NOTE: *Continuous running of high density prints can temporarily deplete the toner supply.*

Initial Actions

- Ensure that there is toner and the toner is evenly distributed in the cartridge (C).
- Check the Cyan ATC Sensor for blockage or contaminants.
- Check the drive system from the Developer Drive Motor to the Developer Housing (C) for damage.

Procedure

Enter Component Control [009-003]. **The Cyan Toner Dispense Motor (PL 6.1) energizes.**

Y N

There is +24 VDC from P/J406-7 to GND.

Y N

Go to the +24 VDC Wirenets and troubleshoot the problem.

There is +24 VDC from P/J406-6 to GND.

Y N

Check the wires from P/J406 to P/J229 for an open circuit. If the wires are OK, replace the Cyan Toner Dispense Motor (PL 6.1).

Enter Component Control [009-003]. **The voltage from P/J406-6 to GND drops to less than 1 VDC.**

Y N

Replace the MCU PWB (PL 13.1). If the problem continues, replace the I/F (MDD) PWB (PL 9.1).

Check the wires from P/J406 to P/J229 for an open circuit. If the wires are OK, replace the Cyan Toner Dispense Motor (PL 6.1).

Enter Component Control [009-014]. **The Developer Motor energizes (PL 1.1).**

Y N

There is +24VDC from P/J533-3 to 4 on the I/F (MDD) PWB.

Y N

Go to the +24 VDC Wirenets and troubleshoot the problem.

There is +5VDC from P/J533-6 to 5 on the I/F (MDD) PWB.

Y N

Go to the +5VDC Wirenets and troubleshoot the problem.

Check the wires between P/J533 on the I/F (MDD) PWB and P/J232 at the Developer Motor for open or short circuit failures or loose connections. If the wires are OK, replace the Developer Motor (PL 1.1). If the problem continues, replace the MCU PWB (PL 13.1).

Check ADJ 9.3. **The Cyan ATC Sensor check is OK.**

Y N

Go the 009-382, ATC Sensor Failure (C) RAP.

After checking that no failures are detected during normal operation, go to call closeout.

009-413 Black Toner Cartridge Near Empty

BSD-ON:9.18 Figure 19, 9.13 Figure 13

The Black Toner Cartridge is nearly empty. This fault requires service only if the message appears before the Toner Cartridge is depleted.

NOTE: *Continuous running of high density prints can temporarily deplete the toner supply.*

Initial Actions

- Ensure that there is toner and the toner is evenly distributed in the Black cartridge.
- Check the Black ATC Sensor for blockage or contaminants.
- Check the drive system from the Main Drive Motor to the Black Developer Housing for damage.

Procedure

Enter Component Control [009-004]. **The Black Toner Dispense Motor energizes (PL 6.1).**

Y N

There is +24 VDC from P/J406-9 to GND.

Y N

Go to the +24 VDC Wirenets (Figure 1) and troubleshoot the problem.

There is +24 VDC from P/J406-8 to GND.

Y N

Check the wires from P/J406 to P/J230 for an open circuit. If the wires are OK, replace the Cyan Toner Dispense Motor (PL 6.1).

Enter Component Control [009-003]. **The voltage from P/J406-8 to GND drops to less than 1 VDC.**

Y N

Replace the MCU PWB (PL 13.1). If the problem continues, replace the I/F (MDD) PWB (PL 9.1).

Check the wires from P/J406 to P/J230 for an open circuit. If the wires are OK, replace the Cyan Toner Dispense Motor (PL 6.1).

Enter Component Control. Stack the codes [004-004, Main Motor] and [009-013, Dev Clutch (K)]. **The Black Developer Assembly. energizes (PL 1.1).**

Y N

Check the mechanical drive to the Clutch, refer to BSD 4.1.
Check the circuit of the Developer Clutch (K) refer to BSD 9.13 (PL 1.2).

Check ADJ 9.3. **The Black ATC Sensor check is OK.**

Y N

Go to the 009-383, Black ATC Sensor Failure RAP.

After checking that no failures are detected during normal operation, go to call closeout.

009-428 Change Black Drum Cartridge Soon

The Black Drum Cartridge must be replaced soon/reached end of life.

Procedure

Replace the Black Drum Cartridge (refer to Section 6, CRUs and Consumables). **The problem is corrected.**

Y N

Replace the MCU PWB (PL 13.1).

Return to Service Call Procedures.

009-429 Change Yellow Drum Cartridge Soon

The Yellow Drum Cartridge must be replaced soon.

Procedure

Replace the Yellow Drum Cartridge (refer to Section 6, CRUs and Consumables). **The problem is corrected.**

Y N

Replace the MCU PWB. (PL 13.1).

Return to Service Call Procedures.

009-430 Change Magenta Drum Cartridge Soon

The Magenta Drum Cartridge must be replaced soon.

Procedure

Replace the Magenta Drum Cartridge (refer to Section 6, CRUs and Consumables). **The problem is corrected.**

Y N

Replace the MCU PWB. (PL 13.1).

Return to Service Call Procedures.

009-431 Change Cyan Drum Cartridge Soon

The Drum Cartridge (C) must be replaced soon.

Procedure

Replace the Cyan Drum Cartridge (refer to Section 6, CRUs and Consumables). **The problem is corrected.**

Y N

Replace the MCU PWB. (PL 13.1).

Return to Service Call Procedures.

009-432 Yellow Drum Cartridge Replaced

The Y Drum Cartridge has been replaced.

Procedure

No action required.

009-433 Magenta Drum Cartridge Replaced

The M Drum Cartridge has been replaced.

Procedure

No action required.

009-434 Cyan Drum Cartridge Replaced

The Cyan Drum Cartridge has been replaced.

Procedure

No action required.

009-435 Black Drum Cartridge Replaced

The Black Drum Cartridge has been replaced.

Procedure

No action required.

009-446 Change Black Drum Cartridge

The Black Drum Cartridge reached end of life.

Procedure

Replace the Black Drum Cartridge (refer to Section 6, CRUs and Consumables). **The problem is corrected.**

Y N

Replace the MCU PWB (PL 13.1).

Return to Service Call Procedures.

009-447 Change Cyan Drum Cartridge

The Drum Cartridge (C) reached end of life.

Procedure

Replace the Cyan Drum Cartridge (refer to Section 6, CRUs and Consumables). **The problem is corrected.**

Y N

Replace the MCU PWB. (PL 13.1).

Return to Service Call Procedures.

009-448 Change Magenta Drum Cartridge

The Magenta Drum Cartridge reached end of life.

Procedure

Replace the Magenta Drum Cartridge (refer to Section 6, CRUs and Consumables). **The problem is corrected.**

Y N

Replace the MCU PWB. (PL 13.1).

Return to Service Call Procedures.

009-449 Change Yellow Drum Cartridge

The Yellow Drum Cartridge reached end of life.

Procedure

Replace the Yellow Drum Cartridge (refer to Section 6, CRUs and Consumables). **The problem is corrected.**

Y **N**

Replace the MCU PWB. (PL 13.1).

Return to Service Call Procedures.

009-451 Black Developer Near End of Life

The Black Developer must be changed soon.

Procedure

Replace the Black Developer (REP 9.10). **The problem is corrected.**

Y **N**

Replace the MCU PWB. (PL 13.1).

Return to Service Call Procedures.

009-452 Cyan Developer Near End of Life

The Cyan Developer must be changed soon.

Procedure

Replace the Cyan Developer (REP 9.10). **The problem is corrected.**

Y **N**

Replace the MCU PWB. (PL 13.1).

Return to Service Call Procedures.

009-453 Magenta Developer Near End of Life

The Magenta Developer must be changed soon.

Procedure

Replace the Magenta Developer (REP 9.10). **The problem is corrected.**

Y **N**

Replace the MCU PWB. (PL 13.1).

Return to Service Call Procedures.

009-454 Yellow Developer Near End of Life

The Yellow Developer must be changed soon.

Procedure

Replace the Yellow Developer (REP 9.10). **The problem is corrected.**

Y **N**

Replace the MCU PWB. (PL 13.1).

Return to Service Call Procedures.

009-456 Black Developer End of Life

The Black Developer must be changed.

Procedure

Replace the Black Developer (REP 9.10). **The problem is corrected.**

Y **N**

Replace the MCU PWB. (PL 13.1).

Return to Service Call Procedures.

009-457 Cyan Developer End of Life

The Cyan Developer must be changed.

Procedure

Replace the Cyan Developer (REP 9.10). **The problem is corrected.**

Y **N**

Replace the MCU PWB. (PL 13.1).

Return to Service Call Procedures.

009-458 Magenta Developer End of Life

The Magenta Developer must be changed.

Procedure

Replace the Magenta Developer (REP 9.10). **The problem is corrected.**

Y **N**

Replace the MCU PWB. (PL 13.1).

Return to Service Call Procedures.

009-459 Yellow Developer End of Life

The Yellow Developer must be changed.

Procedure

Replace the Yellow Developer (REP 9.10). **The problem is corrected.**

Y **N**

Replace the MCU PWB. (PL 13.1).

Return to Service Call Procedures.

009-654 ADC Sensor

BSD-ON:9.16 Figure 17

The control logic detected an ADC Sensor operation failure.

Procedure

Check ADJ 9.4. **The check of the ADC Sensor is OK.**

Y **N**

There is +5VDC from P/J404-B8 on the MCU PWB to GND.

Y **N**

Check the wires and connectors. If the check is OK, replace the MCU PWB (PL 13.1). If the problem continues replace the MCU PWB (PL 13.1).

Enter Component Control [009-078]. **The ADC Shutter Solenoid energized (PL 1.3).**

Y **N**

Check the wires and connectors. If the check is OK, replace the MCU PWB (PL 13.1). If the problem continues replace the MCU PWB (PL 13.1).

Enter dC330 [009-078]. **There is 0VDC from P/J404-B3 on the MCU PWB to GND.**

Y **N**

Check the wires and connectors. If the check is OK, replace the MCU PWB (PL 13.1). If the problem continues replace the MCU PWB (PL 13.1).

Enter dC330 [009-079]. **The voltage from P/J404-B1 to GND changed to 0VDC momentarily.**

Y **N**

Check the wires and connectors. If the check is OK, replace the MCU PWB (PL 13.1). If the problem continues replace the MCU PWB (PL 13.1).

Check the wires and connectors. If the check is OK, replace the ADC Sensor Assembly (PL 1.3).

After checking that no failures are detected during normal operation, go to call closeout.

009-660 Environment Sensor Temperature

BSD-ON:9.16 Figure 17

An incorrect value was detected by the Environment Sensor (Temperature).

Procedure

Disconnect P/J255. **There is 1 Ohm or less measured between P255-3 and P255-4 on the Environment Sensor.**

Y N

Replace the Environment Sensor (PL 1.3).

Replace the MCU PWB (PL 13.1).

009-661 Environment Sensor Humidity

BSD-ON:9.16 Figure 17

An incorrect value was detected by the Environment Sensor (Humidity).

Procedure

There is +0.4VDC to +17VDC from P/J404-B9 on the MCU PWB to GND.

Y N

There is +5VDC from P/J404-B12 on the MCU PWB to GND.

Y N

Check the wires and connectors. If the check is OK, replace the MCU PWB (PL 13.1).

Check for an open circuit and poor contact if the check is OK replace the Environment Sensor (PL 1.3).

Replace the MCU PWB (PL 13.1).

009-670 New Black Toner Cartridge Detected

BSD-ON: 9.14 Figure 15

The control logic detected that the Toner Cartridge has been replaced. This is a message fault only.

Procedure

Switch the power off, then on. **The message fault clears.**

Y **N**

Go to the 009-390 RAP.

Return to Service Call Procedures.

009-671 New Cyan Toner Cartridge Detected

BSD-ON: 9.14 Figure 15

The control logic detected that the Toner Cartridge has been replaced. This is a message fault only.

Procedure

Switch the power off, then on. **The message fault clears.**

Y **N**

Go to the 009-391 RAP.

Return to Service Call Procedures.

009-672 New Magenta Toner Cartridge Detected

BSD-ON: 9.14 Figure 15

The control logic detected that the Toner Cartridge has been replaced. This is a message fault only.

Procedure

Switch the power off, then on. **The message fault clears.**

Y **N**

Go to the 009-392 RAP.

Return to Service Call Procedures.

009-673 New Yellow Toner Cartridge Detected

BSD-ON: 9.14 Figure 15

The control logic detected that the Toner Cartridge has been replaced.This is a message fault only.

Procedure

Switch the power off, then on. **The message fault clears.**

Y **N**

Go to the 009-393 RAP.

Return to Service Call Procedures.

009-684 ADC Shutter

BSD-ON:9.16 Figure 17

The control logic detected an ADC Shutter operation failure.

Procedure

Enter Component Control [009-078]. **The ADC Shutter Solenoid energized.**

Y N

There is +24VDC from P/J404-B2 on the MCU PWB to GND.

Y N

Check the wires and connectors. If the check is OK, replace the MCU PWB (PL 13.1). If the problem continues, replace the ADC Sensor (PL 1.3).

Enter Component Control [009-078]. **There is 0VDC from P/J404-B3 on the MCU PWB to GND.**

Y N

Check the wires and connectors. If the check is OK, replace the MCU PWB (PL 13.1). If the problem continues, replace the ADC Sensor (PL 1.3).

Enter Component Control [009-079]. **The voltage from P/J404-B1 on the MCU PWB to GND changed to 0VDC momentarily.**

Y N

Check the wires and connectors. If the check is OK, replace the MCU PWB (PL 13.1). If the problem continues, replace the ADC Sensor (PL 1.3).

Check the wires and connectors. If the check is OK, replace the ADC Sensor (PL 1.3).

After checking that no failures are detected during normal operation, go to call closeout.

009-695 Failure Position Judgement

Position Judgement Failure

Procedure

Switch the power off then on. If the problem continues, call service support for assistance.

009-910 Black Drum Type Mismatch

BSD-ON:9.4 Figure 4

Drum Type Mismatch

Initial Actions

Ensure that the correct drum type is installed.

Procedure

Enter dC330 [009-154] (Drum (K) Data). **The display is High.**

Y N

Check the wires and connectors. If the check is OK, replace the Black Drum Cartridge (refer to Section 6, CRUs and Consumables).

Replace the MCU PWB. (PL 13.1).

009-911 Cyan Drum Type Mismatch

BSD-ON:9.4 Figure 4

Drum Type Mismatch

Initial Actions

Ensure that the correct drum type is installed.

Procedure

Enter dC330 [009-153] (Drum (C) Data). **The display is High.**

Y N

Check the wires and connectors. If the check is OK, replace the Cyan Drum Cartridge (refer to Section 6, CRUs and Consumables).

Replace the MCU PWB. (PL 13.1).

009-912 Magenta Drum Type Mismatch

BSD-ON:9.3 Figure 3

Drum Type Mismatch

Initial Actions

Ensure that the correct drum type is installed.

Procedure

Enter Component Control [009-152] (Drum (M) Data). **The display is High.**

Y N

Check the wires and connectors. If the check is OK, replace the Magenta Drum Cartridge (refer to Section 6, CRUs and Consumables).

Replace the MCU PWB (PL 13.1).

009-913 Yellow Drum Type Mismatch

BSD-ON:9.3 Figure 3

Drum Type Mismatch

Initial Actions

Ensure that the correct drum type is installed.

Procedure

Enter Component Control [009-151], (Drum (Y) Data). **The display is High.**

Y N

Check the wires and connectors. If the check is OK, replace the Yellow Drum Cartridge (refer to Section 6, CRUs and Consumables).

Replace the MCU PWB (PL 13.1).

009-920 Yellow Toner Cartridge Empty

The Yellow Toner Cartridge is empty. This fault requires service only if the message appears before the Toner Cartridge is depleted.

NOTE: *Continuous running of high density prints can temporarily deplete the toner supply.*

Initial Actions

- Ensure that there is toner and the toner is evenly distributed in the Yellow cartridge.
- Check the Yellow ATC Sensor for blockage or contaminants.
- Check the drive system from the Developer Drive Motor to the Yellow Developer Housing for damage.

Procedure

Replace the Toner Cartridge. If the problem continues, go to the 009-410 RAP.

009-921 Magenta Toner Cartridge Empty

The Magenta Toner Cartridge is empty. This fault requires service only if the message appears before the Toner Cartridge is depleted.

NOTE: *Continuous running of high density prints can temporarily deplete the toner supply.*

Initial Actions

- Ensure that there is toner and the toner is evenly distributed in the Magenta cartridge.
- Check the Magenta ATC Sensor for blockage or contaminants.
- Check the drive system from the Developer Drive Motor to the Magenta Developer Housing for damage.

Procedure

Replace the Toner Cartridge. If the problem continues, go to the 009-411 RAP.

009-922 Cyan Toner Cartridge Empty

The Cyan Toner Cartridge is empty. This fault requires service only if the message appears before the Toner Cartridge is depleted.

NOTE: *Continuous running of high density prints can temporarily deplete the toner supply.*

Initial Actions

- Ensure that there is toner and the toner is evenly distributed in the cartridge (C).
- Check the Cyan ATC Sensor for blockage or contaminants.
- Check the drive system from the Developer Drive Motor to the Developer Housing (C) for damage.

Procedure

Replace the Toner Cartridge. If the problem continues, go to the 009-412 RAP.

009-923 Black Toner Cartridge Empty

The Black Toner Cartridge is empty. This fault requires service only if the message appears before the Toner Cartridge is depleted.

NOTE: *Continuous running of high density prints can temporarily deplete the toner supply.*

Initial Actions

- Ensure that there is toner and the toner is evenly distributed in the Black cartridge.
- Check the Black ATC Sensor for blockage or contaminants.
- Check the drive system from the Main Drive Motor to the Black Developer Housing for damage.

Procedure

Replace the Toner Cartridge. If the problem continues, go to the 009-413 RAP.

009-924 Waste Toner Cartridge Full

The Waste Toner Cartridge is full.

Initial Actions

Replace the Waste Toner Cartridge. Check the Full Toner Sensor for contaminants.

Procedure

If the problem persists, go to the 009-358 RAP.

009-925 Waste Toner Cartridge Installation

BSD-ON:1.10 Figure 10

The Waste Toner Cartridge was not installed correctly

Initial Actions

Ensure that the Waste Toner Cartridge is installed correctly.

Procedure

There is +5VDC from P/J408-5 on the MCU PWB to GND.

Y N

There is +5VDC from FS135 on the Waste Toner Cartridge Interlock Switch to GND.

Y N

Check the wire from P/J511B on the +5VDC LVPS-2 to FS135 on the Waste Toner Cartridge Interlock Switch.

There is +5VDC from FS134 on the Waste Toner Cartridge Interlock Switch to GND.

Y N

Replace the Waste Toner Cartridge Interlock Switch (PL 4.1).

Check the wire between P/J511B on the +5VDC LVPS-2 and FS135 on the Waste Toner Cartridge Interlock Switch and the MCU PWB P/J408-5 for an open circuit or poor contact.

If no problems are found, replace the MCU PWB. (PL 13.1).

009-926 Black Drum Cartridge End of Life

The Black Drum Cartridge must be replaced.

Procedure

Replace the Black Drum Cartridge (refer to Section 6, CRUs and Consumables). **The problem is corrected.**

Y N

Replace the MCU PWB. (PL 13.1).

Return to Service Call Procedures.

009-927 Cyan Drum Cartridge End of Life

The Cyan Drum Cartridge must be replaced.

Procedure

Replace the Cyan Drum Cartridge (refer to Section 6, CRUs and Consumables). **The problem is corrected.**

Y N

Replace the MCU PWB. (PL 13.1).

Return to Service Call Procedures.

009-928 Magenta Drum Cartridge End of Life

The Magenta Drum Cartridge must be replaced.

Procedure

Replace the Magenta Drum Cartridge (refer to Section 6, CRUs and Consumables). **The problem is corrected.**

Y N

Replace the MCU PWB. (PL 13.1).

Return to Service Call Procedures.

009-929 Yellow Drum Cartridge End of Life

The Yellow Drum Cartridge must be replaced.

Procedure

Replace the Yellow Drum Cartridge (refer to Section 6, CRUs and Consumables). **The problem is corrected.**

Y N

Replace the MCU PWB. (PL 13.1).

Return to Service Call Procedures.

009-930 Black Drum Cartridge Not Detected

BSD-ON:9.4 Figure 4

The control logic detected that Black Drum Cartridge is not installed.

Initial Actions

- Ensure Black Drum Cartridge is installed correctly.
- Switch the power off, then on.

Procedure

Swap Black Drum Cartridge with Drum (Y), (C) or (M). **The problem is corrected.**

Y N

Check that P/J405 on the MCU PWB and P/J622 are connected. Check the wires for an open or short. If the check is OK, replace the MCU PWB (PL 13.1).

Replace the defective Drum Cartridge (refer to Section 6, CRUs and Consumables).

009-931 Cyan Drum Cartridge Not Detected

BSD-ON:9.4 Figure 4

The control logic detected that Cyan Drum Cartridge is not installed

Procedure

The control logic detected that Cyan Drum Cartridge is not installed.

- Ensure Cyan Drum Cartridge is installed correctly.
- Switch the power off, then on.

Swap Cyan Drum Cartridge with Drum (Y), (K) or (M). **The problem is corrected.**

Y N

Check that P/J405 on the MCU PWB and P/J622 are connected. Check the wires for an open or short. If the check is OK, replace the MCU PWB (PL 13.1).

Replace the defective Drum Cartridge (refer to Section 6, CRUs and Consumables).

009-932 Magenta Drum Cartridge Not Detected

BSD-ON:9.3 Figure 3

The control logic detected that Magenta Drum Cartridge is not installed.

Initial Actions

- Ensure Magenta Drum Cartridge is installed correctly.
- Switch the power off, then on.

Procedure

Swap Magenta Drum Cartridge with Drum (Y), (C) or K). **The problem is corrected.**

Y N

Check that P/J405 on the MCU PWB and P/J624 are connected. Check the wires for an open or short. If the check is OK, replace the MCU PWB (PL 13.1).

Replace the defective Drum Cartridge (refer to Section 6, CRUs and Consumables).

009-933 Yellow Drum Cartridge Not Detected

BSD-ON:9.3 Figure 3

The control logic detected that the Yellow Drum Cartridge is not installed.

Initial Actions

- Ensure Yellow Drum Cartridge is installed correctly.
- Switch the power off, then on.

Procedure

Swap Yellow Drum Cartridge with Drum (K), (C) or (M). **The problem is corrected.**

Y N

Check that P/J405 on the MCU PWB and P/J624 are connected. Check the wires for an open or short. If the check is OK, replace the MCU PWB (PL 13.1).

Replace the defective Drum Cartridge (refer to Section 6, CRUs and Consumables).

010-110 Fuser Exit Switch On Jam

BSD-ON:10.2 Figure 3

The Fuser Exit Switch did not actuate.

Initial Actions

- Check condition and specification of the paper supply.
- Check for obstructions in the paper feed path.
- Clean the Fuser Exit Roll and check for wear.
- Check the drive transmissions for damage or wear.

Procedure

Remove the Fuser Assembly from the machine and check the Fuser Stripper Fingers and Fuser Roll (PL 7.1) for dirt build up, wear or damage. **The check is OK.**

Y N

Clean or replace the Fuser Assembly (PL 7.1).

Open the Left Cover Assembly (PL 2.8). Enter Component Control [010-101] and press Start. Actuate the Fuser Exit Switch (PL 2.8). **The display changes state.**

Y N

Press Stop. Check the circuit of the Fuser Exit Switch. Refer to the OF 99-3 RAP for troubleshooting procedure.

Press Stop.

- Ensure that the connectors shown in the circuit diagrams are securely connected and that the wires are not damaged.
- If the problem persists, replace the MCU PWB (PL 13.1).

010-111 Fuser Exit Switch Off Jam

BSD-ON:10.2 Figure 3

The Fuser Exit Switch did not deactuate.

Initial Actions

- Check condition and specification of the paper supply.
- Check for obstructions in the paper feed path.
- Clean the Fuser Exit Roll and check for wear.
- Check the drive transmissions for damage or wear.

Procedure

Remove the Fuser Assembly from the machine and check the Fuser Stripper Fingers and Fuser Roll (PL 7.1) for dirt build up, wear or damage. **The check is OK.**

Y N

Clean or replace the Fuser Assembly (PL 7.1).

Open the Left Cover Assembly (PL 2.8). Enter Component Control [010-101] and press Start. Actuate the Fuser Exit Switch (PL 2.8). **The display changes state.**

Y N

Press Stop. Check the circuit of the Fuser Exit Switch. Refer to the OF 99-3 RAP for troubleshooting procedure.

Press Stop.

- Ensure that the connectors shown in the circuit diagrams are securely connected and that the wires are not damaged.
- If the problem persists, replace the MCU PWB (PL 13.1).

010-125 Duplex Wait Sensor On

BSD-ON:10.5 Figure 7, 10.4 Figure 6, 10.3 Figure 4

The Duplex Wait Sensor did not actuate.

Initial Actions

- If First side copy is delivered to the Finisher, check Finisher/H-Transport alignment and Gate, linkage and Gate Solenoid for binding.
- Check condition and specification of the paper supply.
- Check the paper path for obstructions.
- Check for wear and clean the Duplex Transport Roll.
- Check for wear and clean the Pinch Rolls.

Procedure

Make a 2 sided copy. **The first sided copy is seen to partially exit and then move back into the IOT for side 2.**

Y N

Repair following as required:

- Finisher Alignment (PL 17.1) (ADJ 12.1)
- Gate, linkage, and Gate Solenoid for binding (PL 17.2)

Enter Component Control [008-105] and press **Start**. Open the Duplex Module Cover and block and unblock the Duplex Wait Sensor (PL 12.2). **The display changes state.**

Y N

Press **Stop**. Check the circuit of the Duplex Wait Sensor. Refer to the OF 99-1 RAP for troubleshooting procedure.

Press **Stop**. Remove the Left Upper Cover (PL 2.7). Enter Component Control [008-073] and press **Start**. **The Duplex Transport Roll (PL 12.1) rotates.**

Y N

The Duplex Motor (PL 12.2) energizes.

Y N

Press **Stop**. Check the circuit of the Duplex Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Press **Stop**. Check the Duplex Motor and its associated pulleys and belts (PL 12.2) for damage, contamination and misalignment.

Press **Stop**. Enter Component Control [008-042] and press **Start**. **The Inverter Forward Clutch (PL 11.2) (CW) energizes.**

Y N

Press Stop. Check the circuit of the Inverter Forward Clutch. Refer to the OF 99-4 RAP for troubleshooting procedure.

Press Stop. Enter Component Control [008-043] and press **Start**. **The Inverter Reverse Clutch (PL 11.2) (CCW) energizes.**

Y N

Press **Stop**. Check the circuit of the Inverter Reverse Clutch. Refer to the OF 99-4 RAP for troubleshooting procedure.

A

A

Press **Stop**.

- Ensure that the connectors shown in the circuit diagrams are securely connected and that the wires are not damaged.
- If the problem persists, replace the MCU PWB (PL 13.1).

010-341 Fuser Mismatch RAP

BSD-ON: 10.1B Figure 2

The incorrect Fuser Assembly has been installed in the machine. Either a Fuser for the WC 7228/35/45/7328/35/45 was installed in a WC 7346 or a 7346 Fuser has been installed in a WC 7228/35/45/7328/35/45.

Procedure

Refer to PL 7.1 for the correct Fuser Assembly to install in the machine.

010-348 Main Heater Over Heat

BSD-ON: 10.1 (Figure 1)

BSD-ON: 10.2 (Figure 2)

The Front Thermistor detected an overheat condition.

Procedure

NOTE: *If this fault is declared 3 times in succession, print and copy modes will be disabled. To clear this condition, reset NVM location 744-003 to 0.*

Turn off the power, remove the Fuser Assembly, and allow it to cool down.
Measure the resistance between P600-4 and P600-6 on the Fuser Assembly (pin numbers marked on tapered edge of P600 housing).
The resistance is between 30 and 190 K Ohms.
Y N
Check the Front Thermistor for an open circuit and poor contact. If the check is OK, replace the Sensor Assembly (PL 7.2).

Reinstall the Fuser and switch on the power. **While the Fuser is warming up, +2 - +3.4 VDC is measured at P/J412-18 on the MCU PWB.**
Y N
Replace the MCU PWB (PL 13.1).

Turn the power off. Check for an open or poor connection between P/J412, pins 9 and 8, on the MCU PWB (PL 13.1). If this check is OK, check all of the wires and connectors. If this check is OK, replace the AC Drive PWB (PL 9.2). If the problem continues, replace the MCU PWB (PL 13.1).

NOTE: *The overheat may have caused an open circuit failure in the Main Heater Rod or Thermostat. Remove the wiring covers at each end of Fuser and check the connections. If the connections are good, check both the Main Heater Rod and Thermostat separately. Each should be less than 50 ohms. Replace the component that measures over 50 ohms (PL 7.2).*

010-349 Front Thermistor Open

BSD-ON: 10.1 (Figure 1)

BSD-ON: 10.2 (Figure 2)

The machine logic detected an open circuit in the Front Thermistor.

Procedure

Turn off the power, remove the Fuser Assembly, and allow it to cool down.
Measure the resistance between P600-4 and P600-6 on the Fuser Assembly (pin numbers marked on tapered edge of P600 housing). **The resistance is between 30 and 190 K Ohms.**

Y N

Check the Front Thermistor for an open circuit and poor contact. If no problems are found, replace the Sensor Assembly (PL 7.2).

Turn the power off. Check for an open or poor connection between P/J412 pin 9 on the MCU PWB and P600-4 on the Fuser Assembly, and from P/J412 pin 8 to P600-6.
If the check is OK, replace the MCU PWB (PL 13.1).

010-350 Sub Heater Over Heat

BSD-ON: 10.1 (Figure 1)

BSD-ON: 10.2 (Figure 2)

The Rear Thermistor detected an over heat condition.

Procedure

NOTE: *If this fault is declared 3 times in succession, print and copy modes will be disabled. To clear this condition, reset NVM location 744-003 to 0.*

Turn off the power, remove the Fuser Assembly and allow it to cool down.
Measure the resistance between P600-7 and P600-9 on the Fuser Assembly (pin numbers marked on tapered edge of P600 housing). **The resistance is between 30 and 190 K Ohms.**

Y N

Check the Rear Thermistor for an open circuit and poor contact. If the check is OK, replace the Sensor Assembly (PL 7.2).

Reinstall the Fuser and switch on the power. **While the Fuser is warming up, +2 - +3.4 VDC is measured at P/J412** pin 16 **on the MCU PWB.**

Y N

Replace the MCU PWB (PL 13.1).

Turn the power off. Check for an open or poor connection between P/J412, pins 11 and 10, on the MCU PWB (PL 13.1). If this check is OK, check all of the wires and connectors. If this check is OK, replace the AC Drive PWB (PL 9.2). If the problem continues, replace the MCU PWB (PL 13.1).

NOTE: *The overheat may have caused an open circuit failure in the Sub Heater Rod or Thermostat. Remove the wiring covers at each end of Fuser and check the connections. If the connections are good, check both the Sub Heater Rod and Thermostat separately. Each should be less than 50 ohms. Replace the component that measures over 50 ohms (PL 7.2).*

010-351 Rear Thermistor Open

BSD-ON: 10.1 (Figure 1)

BSD-ON: 10.2 (Figure 2)

The machine logic detected an open circuit in the Rear Thermistor.

Procedure

Turn off the power, remove the Fuser Assembly and allow it to cool down.
Measure the resistance between P600-7 and P600-9 on the Fuser Assembly (pin numbers marked on tapered edge of P600 housing). **The resistance is between 30 and 190 K Ohms.**

Y N

Check the Rear Thermistor for an open circuit and poor contact. If the check is OK, replace the Sensor Assembly (PL 7.2).

Turn the power off. Check for an open or poor connection between P/J412 pin 10 on the MCU PWB and P600-7 on the Fuser Assembly, and from P/J412 pin 11 to P600-9.
If the check is OK, replace the MCU PWB (PL 13.1)

010-352 Main Heater Warm Up

BSD-ON: 10.1 (Figure 1)

BSD-ON: 10.2 (Figure 2)

The temperature did not reach the Ready temperature within the specified time.

NOTE: *The 7346 does not use separate Main and Sub Heater Rods it uses a combined Dual Heater Rod. If either Main Heater or Sub Heater fails replace the Dual Heater Rod. (PL 7.2 it is listed as Main Heater Rod (7346 Only) with two different listings for either 110V or 220V.*

Procedure

Turn off the power, remove the Fuser Assembly, and allow it to cool down.
Measure the resistance between P600-1 and P600-12 on the Fuser Assembly (pin numbers marked on tapered edge of P600 housing). **The resistance is 20 Ohms or less.**

Y N

There is an open circuit failure in the Main Heater Rod or Thermostat. Remove the wiring covers at each end of Fuser and check the connections. If the connections are good, check both the Main Heater Rod and Thermostat separately. Each should be less than 50 ohms. Replace the component that measures over 50 ohms (PL 7.2).

Measure the resistance between P600-4 and P600-6 on the Fuser Assembly. **The resistance is between 30 and 190 K Ohms.**

Y N

Check the Front Thermistor for an open circuit and poor contact. If the check is OK, replace the Sensor Assembly (PL 7.2).

Reinstall the Fuser and switch on the power. **AC Line Voltage is measured between FS48 and FS46 on the AC Drive PWB (PL 9.2).**

Y N

Less than 1 VDC is measured at P/J590-5 on the AC Drive PWB (PL 9.2).

Y N

Go to BSD 10.1. Check the wires and connectors. If the check is OK, replace the MCU PWB (PL 13.1).

While the Fuser is warming up, +5VDC is measured at P/J590-2 on the AC Drive PWB (PL 9.2).

Y N

Check the wires and connectors. If the check is OK, replace the MCU PWB (PL 13.1).

Replace the AC Drive PWB (PL 9.2).

Check the wires and connectors. If the check is OK, replace the Fuser Assembly (PL 7.1).

010-353 Main Heater On Time

BSD-ON: 10.1 (Figure 1)

BSD-ON: 10.2 (Figure 2)

The Main Heater remained on for more than the specified time.

Procedure

Turn off the power, remove the Fuser Assembly, and allow it to cool down.
Measure the resistance between P600-4 and P600-6 on the Fuser Assembly (pin numbers marked on tapered edge of P600 housing).

The resistance is between 30 and 190 K Ohms.

Y N

Check the Front Thermistor for an open circuit and poor contact. If the check is OK, replace the Sensor Assembly (PL 7.2).

Measure the resistance between P600-1 and P600-12 on the Fuser Assembly. **The resistance is 20 Ohms or less.**

Y N

There is an open circuit failure in the Main Heater Rod or Thermostat. Remove the wiring covers at each end of Fuser and check the connections. If the connections are good, check both the Main Heater Rod and Thermostat separately. Each should be less than 50 ohms. Replace the component that measures over 50 ohms (PL 7.1).

AC Line Voltage is measured between FS48 and FS46 on the AC Drive PWB (PL 9.2).

Y N

Less than 1 VDC is measured at P/J590-5 on the AC Drive PWB (PL 9.2).

Y N

Check the wires and connectors. If the check is OK, replace the MCU PWB (PL 13.1).

+5VDC is measured at P/J590-2 on the AC Drive PWB.

Y N

Check the wires and connectors. If the check is OK, replace the MCU PWB (PL 13.1).

Replace the AC Drive PWB (PL 9.2).

Check the wires and connectors. If the check is OK, replace the Fuser Assembly (PL 7.1).

010-354 Sub Heater Warm Up

BSD-ON: 10.1 (Figure 1)

BSD-ON: 10.2 (Figure 2)

The temperature did not reach the Ready temperature.

NOTE: *The 7346 does not use separate Main and Sub Heater Rods it uses a combined Dual Heater Rod. If either Main Heater or Sub Heater fails replace the Dual Heater Rod. (PL 7.2 it is listed as Main Heater Rod (7346 Only) with two different listings for either 110V or 220V.*

Procedure

NOTE: *If this fault is declared 3 times in succession, print and copy modes will be disabled. To clear this condition, reset NVM location 744-003 to 0.*

Turn off the power, remove the Fuser Assembly, and allow it to cool down.
Measure the resistance between P600-3 and P600-12 on the Fuser Assembly (pin numbers marked on tapered edge of P600 housing). **Less than 50 ohms is measured.**

Y N

There is an open circuit failure in the Sub Heater Rod or Thermostat. Remove the wiring covers at each end of Fuser and check the connections. If the connections are good, check both the Sub Heater Rod and Thermostat separately. Each should be less than 50 ohms. Replace the component that measures over 50 ohms (PL 7.2).

Measure the resistance between P600-7 and P600-9 on the Fuser Assembly. **The resistance is between 30 and 190 K Ohms.**

Y N

Check the Rear Thermistor for an open circuit and poor contact. If the check is OK, replace the Sensor Assembly (PL 7.2).

Reinstall the Fuser and switch on the power. **AC Line Voltage is measured between FS48 and FS47 on the AC Drive PWB (PL 9.2).**

Y N

Less than 1 VDC is measured at P/J590-5 on the AC Drive PWB (PL 9.2).

Y N

Check the wires and connectors. If the check is OK, replace the MCU PWB (PL 13.1).

While the Fuser is warming up, +5VDC is measured at P/J590-4 on the AC Drive PWB (PL 9.2).

Y N

Check the wires and connectors. If the check is OK, replace the MCU PWB (PL 13.1).

Replace the AC Drive PWB (PL 9.2).

Check the wires and connectors. If the check is OK, replace the Fuser Assembly (PL 7.1).

010-356 Sub Heater On Time

BSD-ON: 10.1 (Figure 1)

BSD-ON: 10.2 (Figure 2)

The Sub Heater remained on for more than the specified time.

Procedure

Turn off the power, remove the Fuser Assembly, and allow it to cool down.
Measure the resistance between P600-7 and P600-9 on the Fuser Assembly (pin numbers marked on tapered edge of P600 housing). **The resistance is between 30 and 190 K Ohms.**

Y N

Check the Rear Thermistor for an open circuit and poor contact. If the check is OK, replace the Sensor Assembly (PL 7.2).

Measure the resistance between P600-3 and P600-12 on the Fuser Assembly. **The resistance is 20 Ohms or less.**

Y N

There is an open circuit failure in the Sub Heater Rod or Thermostat. Remove the wiring covers at each end of Fuser and check the connections. If the connections are good, check both the Sub Heater Rod and Thermostat separately. Each should be less than 50 ohms. Replace the component that measures over 50 ohms (PL 7.2).

Reinstall the Fuser and switch on the power. **AC Line Voltage is measured between FS48 and FS46 on the AC Drive PWB (PL 9.2).**

Y N

Less than 1VDC is measured at P/J590-5 on the AC Drive PWB (PL 9.2).

Y N

Check the wires and connectors. If the check is OK, replace the MCU PWB (PL 13.1).

+5VDC measured at P/J590-4 on the AC Drive PWB (PL 9.2)

Y N

Check the wires and connectors. If the check is OK, replace the MCU PWB (PL 13.1).

Replace the AC Drive PWB (PL 9.2).

Check the wires and connectors. If the check is OK, replace the Fuser Assembly (PL 7.1).

010-391 LVPS Fan Failure

BSD-ON:1.3 Figure 3

The machine logic detected a failure of the LVPS Fan.

Procedure

NOTE: *An IOT +24 VDC failure will cause this fault.*

There is +24 VDC from P/J400 pin 1 on the MCU PWB to frame gnd.

Y N

There is +24 VDC at P/J502 pin 3 on the +24V LVPS.

Y N

Go to the OF 1-3, IOT +24 VDC RAP.

Go to the +24 VDC wirenets. Check for an open circuit between P/J400 pin 1 on the MCU PWB and P/J502 pin 3 on the +24V LVPS.

Enter Component Control [004-050]. **The LVPS Fan (PL 9.1) revolves at high speed.**

Y N

There is +24VDC from P/J214 pin 4 to frame gnd.

Y N

Check the wires and connectors. If the check is OK, replace the MCU PWB (PL 13.1).

Check the wires and connectors. If the check is OK, replace the LVPS Fan (PL 9.1).

Check the LVPS Fan wires and connectors for an open circuit. If the check is OK, replace the LVPS Fan. If this does not resolve the problem, replace the MCU PWB (PL 13.1).

010-392 Rear Fan Failure

BSD-ON: 9.30 Figure 32

The machine logic detected a failure of the Rear Fan.

Procedure

NOTE: *An IOT +24 VDC failure will cause this fault.*

There is +24 VDC from P/J400 pin 1 on the MCU PWB to frame gnd.

Y N

There is +24 VDC at P/J502 pin 3 on the +24V LVPS.

Y N

Go to the OF 1-3, IOT +24 VDC RAP.

Go to the +24 VDC wirenets. Check for an open circuit between P/J400 pin 1 on the MCU PWB and P/J502 pin 3 on the +24V LVPS.

Enter Component Control [004-050]. **The Rear Fan (PL 8.1) revolves.**

Y N

There is +24VDC from P/J552 pin 1 to frame gnd.

Y N

Check the wires and connectors. If the check is OK, replace the MCU PWB (PL 13.1). If the problem continues replace the I/F (MDD) PWB (PL 9.1).

Check the wires and connectors. If the check is OK, replace the Rear Fan (PL 8.1).

Check the Rear Fan wires and connectors for an open circuit. If the check is OK, replace the Rear Fan. If this does not resolve the problem, replace the MCU PWB (PL 13.1).

010-398 Fuser Fan Failure

BSD-ON:10.2 Figure 3

The machine logic detected a failure of the Fuser Fan.

Procedure

NOTE: *An IOT +24 VDC failure will cause this fault.*

There is +24 VDC from P/J400 pin 1 on the MCU PWB to frame gnd.

Y N

There is +24 VDC at P/J502 pin 3 on the +24V LVPS.

Y N

Go to the OF 1-3, IOT +24 VDC RAP.

Go to the +24 VDC wirenets. Check for an open circuit between P/J400 pin 1 on the MCU PWB and P/J502 pin 3 on the +24V LVPS.

Enter Component Control [004-050]. **The Fuser Fan (PL 8.1) revolves.**

Y N

There is +24VDC from P/J222 pin 4 to frame gnd.

Y N

Check the wires and connectors. If the check is OK, replace the MCU PWB (PL 13.1).

Check the wires and connectors. If the check is OK, replace the Fuser Fan (PL 8.1)

Check the Fuser Fan wires and connectors for an open circuit. If the check is OK, replace the Fuser Fan. If this does not resolve the problem, replace the MCU PWB (PL 13.1).

010-420 Fuser Near End Of Life

Replace the Fuser Assembly in 100K copies.

Procedure

The Fuser Assembly was replaced.

Y N

Replace the Fuser Assembly (PL 7.2)

Run the HFSI Counter Report [954-804]. **Check the volume on the fuser compare to Fuser HFSI value in Detailed Maintenance Activities.**

Y N

Replace the MCU PWB (PL 13.1).

If the problem continues, replace the MCU PWB (PL 13.1).

010-421 Fuser End Of Life

Fuser at end of life.

Procedure

The Fuser Assembly was replaced.

Y N

Replace the Fuser Assembly (PL 7.2).

Run the Initialize HFSI Counter [954-804]. **The initial value is 0.**

Y N

Replace the MCU PWB (PL 13.1).

If the problem continues, replace the MCU PWB (PL 13.1).

010-505 Fuser Warm Up

Message is displayed, Fuser is warming up, during jam clearance when a cover is open and the fuser has dropped below operating temperature.

Procedure

Clear the jam. Close any covers or doors. **The machine comes to ready.**

Y N

Go to 008-900 Static Jam RAP.

Return to service call procedures.

010-600 Developer Fan Failure

BSD-ON:9.30 Figure 32

The machine logic detected a failure of the Developer Fan.

Procedure

Enter Component Control [004-051] and press **Start**. **The Developer Fan (PL 9.1) revolves at high speed.**

Y N

There is +24VDC from P/J404 pin 1 to frame gnd.

Y N

Check the wires and connectors to the Developer Fan. If the check is OK, replace the MCU PWB (PL 13.1). If the problem continues replace the I/F (MDD) PWB (PL 9.1).

Check the wires and connectors to the Developer Fan. If the check is OK, replace the Developer Fan (PL 9.1).

With Component Control [004-051] entered, stack Component Control [004-200] and press **Start**. **The display is L.**

Y N

Check the Developer Fan wires and connectors for an open circuit. If the check is OK, replace the Developer Fan. If this does not resolve the problem, replace the MCU PWB (PL 13.1).

The Fans are operating correctly. If the problem continues replace the MCU PWB (PL 13.1).

010-601 Bottom Fan Failure

BSD-ON:9.30 Figure 32

The machine logic detected a failure of the Bottom Fan.

Procedure

Enter Component Control [004-051] and press **Start**. **The Bottom Fan (PL 8.1) revolves at high speed.**

Y N

There is +24VDC from P/J534 pin A13 to frame Gnd.

Y N

Check the wires and connectors to the Bottom Fan. If the check is OK, replace the MCU PWB (PL 13.1).

Check the wires and connectors to the Bottom Fan. If the check is OK, replace the Bottom Fan (PL 8.1).

With Component Control [004-051] entered, stack Component Control [004-200] and press **Start**. **The display is L.**

Y N

Check the Bottom Fan wires and connectors for an open circuit. If the check is OK, replace the Bottom Fan If this does not resolve the problem, replace the MCU PWB (PL 13.1).

The Fan is operating correctly. If the problem continues replace the MCU PWB (PL 13.1).

12-100 H Transport Entrance Sensor On (Office Finisher)

BSD-ON:12.4 Figure 4

The H Transport Entrance Sensor does not detect paper after the Registration Clutch (in IOT) energized.

Initial Actions

- Check condition and specification of the paper supply.
- Check for obstructions in the paper feed path.
- Clean the H Transport Belt and check for wear.
- Check the Guides on the H Transport Cover for damage, wear or faulty installation.

Procedure

Enter Component Control [012-001] and press Start. **The Finisher Drive Motor (PL 17.7) energizes.**

Y N

Press Stop. Check the circuit of the Finisher Drive Motor (Figure 4). Refer to the OF 99-9 RAP for troubleshooting procedure.

Press Stop. Enter Component Control [012-103] and press Start. Open the H Transport Cover (PL 17.3) and actuate the H Transport Entrance Sensor (PL 17.4). **The display changes.**

Y N

Press Stop. Check the circuit of the H Transport Entrance Sensor (Figure 2). Refer to the OF 99-2 RAP for troubleshooting procedure.

Close the H Transport Cover and press Stop. Enter Component Control [012-060 or 061] and press Start. **The Gate In Solenoid (PL 17.4) actuates.**

Y N

Press Stop. Check the circuit of the Gate In Solenoid (Figure 3). Refer to the OF 99-4 RAP for troubleshooting procedure.

Press Stop.

- Ensure that the connectors shown in the circuit diagrams (Figure 2, Figure 3, Figure 4) are securely connected and that the wires are not damaged.
- Check the H Transport and Finisher for a docking failure (PL 17.1).
- Check the Finisher Drive Motor and its associated gears and belts (PL 17.4, PL 17.7) for damage, contamination or misalignment.
- Replace the H Transport Entrance Sensor (PL 17.4).
- If the problem persists, replace the Finisher PWB (PL 17.13).

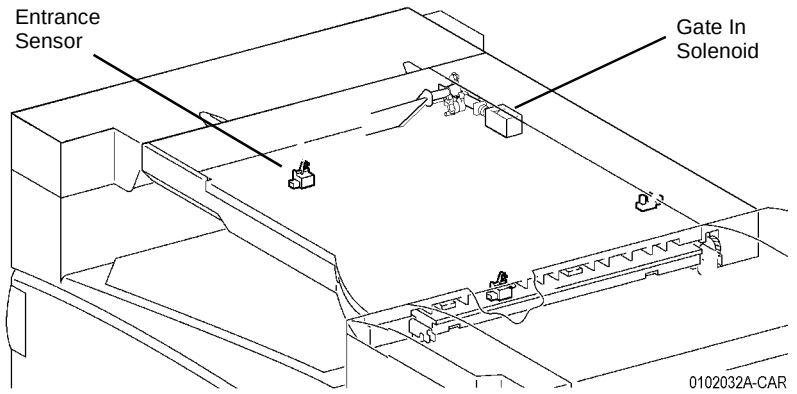


Figure 1 Component Location

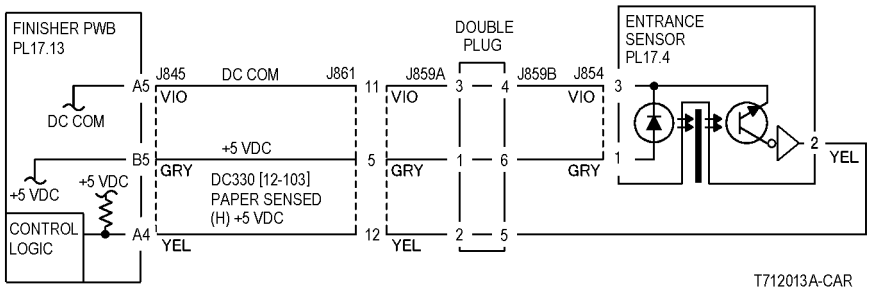


Figure 2 H Transport Entrance Sensor CD

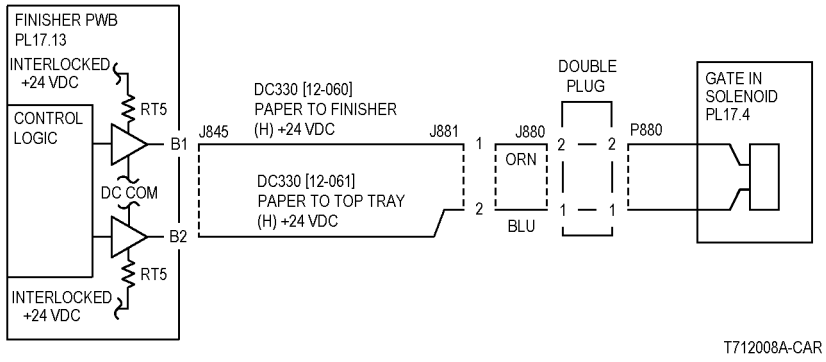


Figure 3 Gate In Solenoid CD

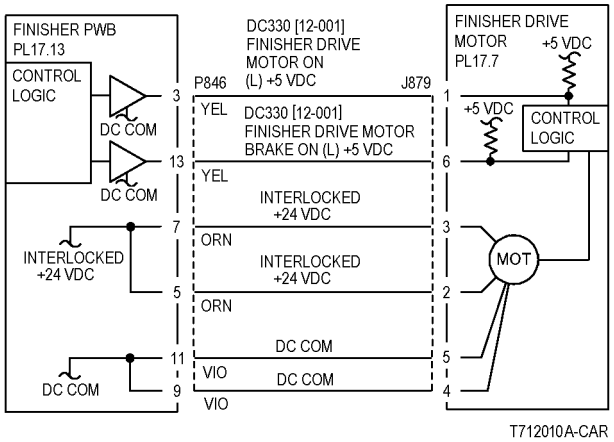


Figure 4 Finisher Drive Motor CD

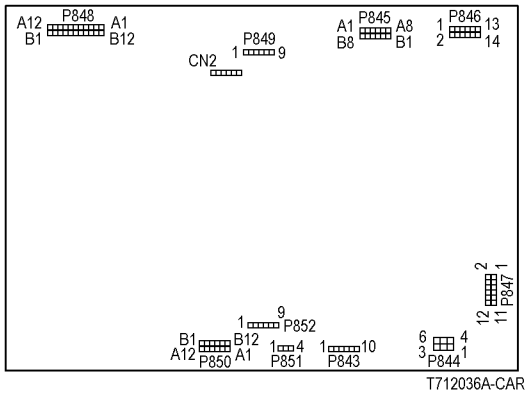


Figure 5 Finisher PWB

12-102 H Transport Entrance Sensor Off (Office Finisher)

BSD-ON:12.4 Figure 4

Paper did not deactuate the H Transport Entrance Sensor.

Initial Actions

- Check condition and specification of the paper supply.
- Check for obstructions in the paper feed path.
- Clean the H Transport Belt and check for wear.
- Check the Guides on the H Transport Cover for damage, wear or faulty installation.

Procedure

Open the H Transport Cover (PL 17.3). Check H Transport Belts, H Transport Belt Drive Rolls, and Guides on H Transport Cover for installation or damage problems (PL 17.3, PL 17.4). **The components are good.**

Y N

Repair as required (PL 17.3, PL 17.4).

Enter Component Control [012-103] and press Start. Open the H Transport Cover (PL 17.3) and actuate the H Transport Entrance Sensor (PL 17.4). **The display changes.**

Y N

Press Stop. Check the circuit of the H Transport Entrance Sensor (Figure 2). Refer to the OF 99-2 RAP for troubleshooting procedure.

***NOTE:** If the sensor fails H, 12-901 is declared after power is switched on.*

Close the H Transport Cover and press Stop. Enter Component Control [012-001] and press Start. **The Finisher Drive Motor (PL 17.7) energizes.**

Y N

Press Stop. Check the circuit of the Finisher Drive Motor (Figure 3). Refer to the OF 99-9 RAP for troubleshooting procedure.

Press Stop.

- Ensure that the connectors shown in the circuit diagrams (Figure 2, Figure 3) are securely connected and that the wires are not damaged.
- Check the H Transport and Finisher for a docking failure (PL 17.1).
- Check the Finisher Drive Motor and its associated gears and belts (PL 17.4, PL 17.7) for damage, contamination or misalignment.
- Replace the H Transport Entrance Sensor (PL 17.4).
- If the problem persists, replace the Finisher PWB (PL 17.13).

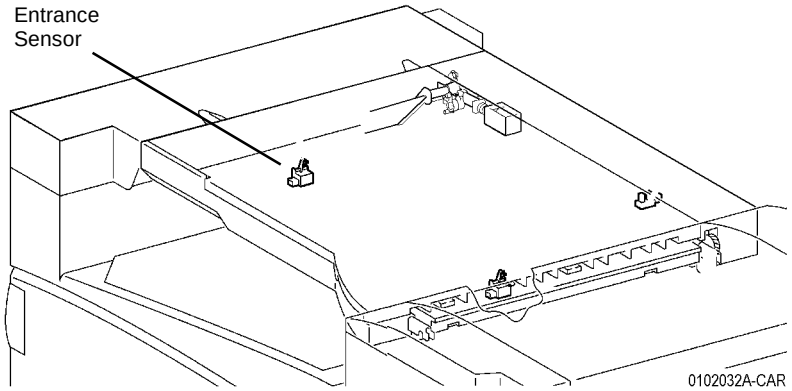


Figure 1 Component Location

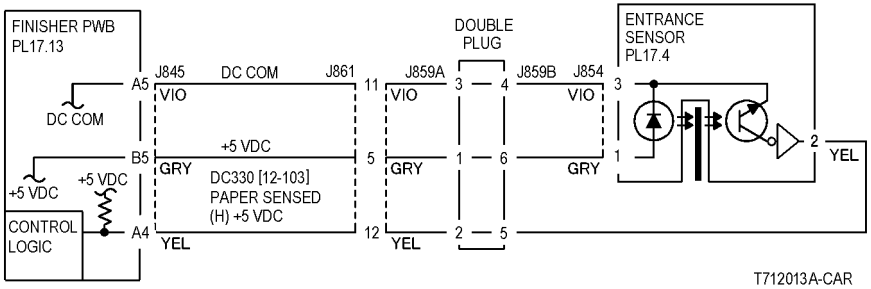


Figure 2 H Transport Entrance Sensor CD

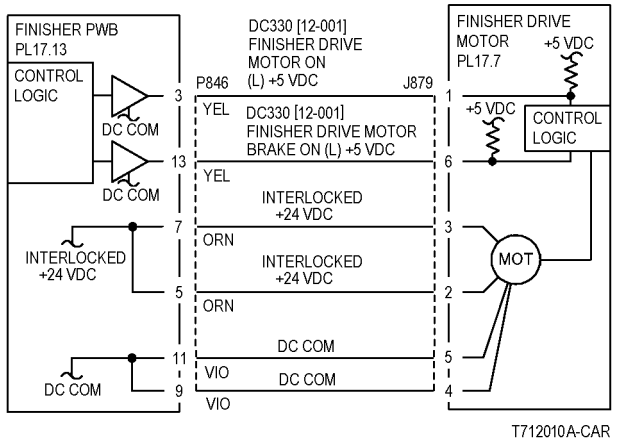


Figure 3 Finisher Drive Motor CD

12-104 H Transport Exit Sensor On (Office Finisher)

BSD-ON:12.4 Figure 4

The H Transport Exit Sensor did not detect paper within the specific time after the H Transport Entrance Sensor has detected the paper. (The specified time differs depending on the paper size.)

Initial Actions

- Check condition and specification of the paper supply.
- Check for obstructions in the paper feed path.
- Clean the H Transport Belt and check for wear.
- Check the Guides on the H Transport Cover for damage, wear or faulty installation.

Procedure

Enter Component Control [012-104] and press Start. Open the H Transport Cover (PL 17.3) and actuate the H Transport Exit Sensor (PL 17.4). **The display changes.**

Y N

Press Stop. Check the circuit of the H Transport Exit Sensor (Figure 2). Refer to the OF 99-2 RAP for troubleshooting procedure.

Close the H Transport Cover and press Stop. Enter Component Control [012-001] and press Start. **The Finisher Drive Motor (PL 17.7) energizes.**

Y N

Press Stop. Check the circuit of the Finisher Drive Motor (Figure 3). Refer to the OF 99-9 RAP for troubleshooting procedure.

Press Stop.

- Ensure that the connectors shown in the circuit diagrams (Figure 2, Figure 3) are securely connected and that the wires are not damaged.
- Check the H Transport and Finisher for a docking failure (PL 17.1).
- Check the Finisher Drive Motor and its associated gears and belts (PL 17.4, PL 17.7) for damage, contamination or misalignment.
- Replace the H Transport Exit Sensor (PL 17.4).
- If the problem persists, replace the Finisher PWB (PL 17.13).

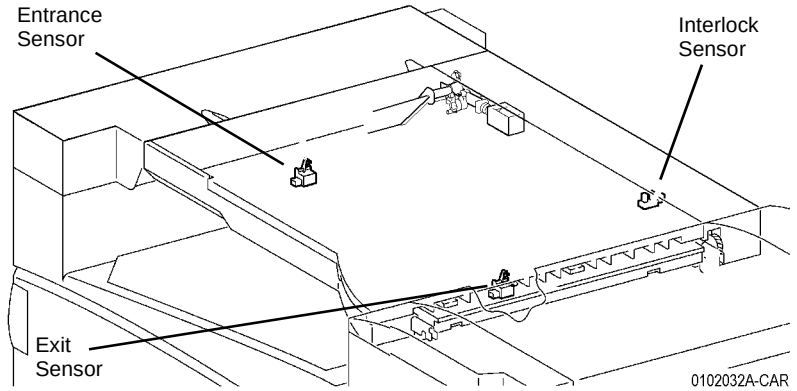


Figure 1 Component Location

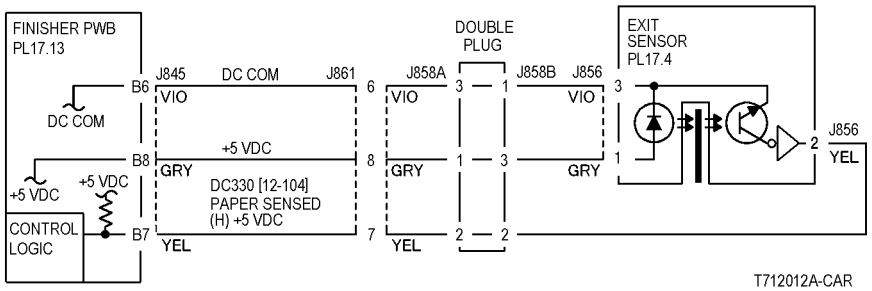


Figure 2 H Transport Exit Sensor CD

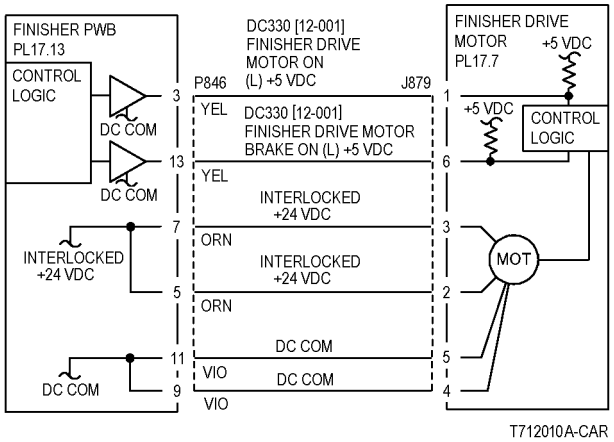


Figure 3 Finisher Drive Motor CD

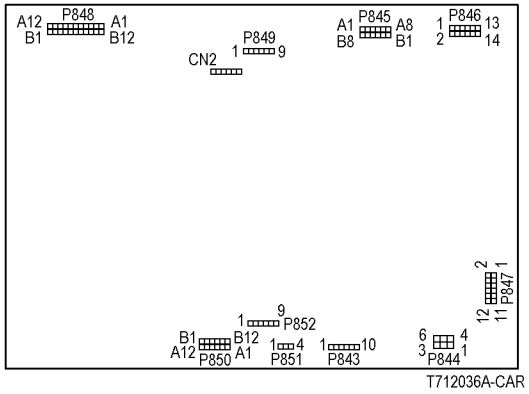


Figure 4 Finisher PWB

12-106 H Transport Exit Sensor Off (Office Finisher)

BSD-ON:12.4 Figure 4

Paper did not deactuate the H Transport Exit Sensor.

Initial Actions

- Check condition and specification of the paper supply.
- Check for obstructions in the paper feed path.
- Clean the H Transport Belt and check for wear.
- Check the Guides on the H Transport Cover for damage, wear or faulty installation.

Procedure

Enter Component Control [012-104] and press Start. Open the H Transport Cover (PL 17.3) and actuate the H Transport Exit Sensor (PL 17.4). **The display changes.**

Y N

Press Stop. Check the circuit of the H Transport Exit Sensor (Figure 2). Refer to the OF 99-2 RAP for troubleshooting procedure.

Close the H Transport Cover and press Stop. Enter Component Control [012-001] and press Start. **The Finisher Drive Motor (PL 17.7) energizes.**

Y N

Press Stop. Check the circuit of the Finisher Drive Motor (Figure 3). Refer to the OF 99-9 RAP for troubleshooting procedure.

Press Stop. Remove the Rear Cover (PL 17.5). Enter Component Control [012-217] and press Start. Actuate the Decurler Cam Home Sensor (PL 17.8). **The display changes.**

Y N

Press Stop. Check the circuit of the Decurler Cam Home Sensor (Figure 4). Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop. Enter Component Control [012-070] and press Start. **The Decurler Cam Clutch (PL 17.7) momentarily energizes.**

Y N

Press Stop. Check the circuit of the Decurler Cam Clutch (Figure 5). Refer to OF 99-4 RAP for troubleshooting procedure.

Press Stop.

- Ensure that the connectors shown in the circuit diagrams (Figure 4, Figure 5, Figure 4, Figure 5) are securely connected and that the wires are not damaged.
- Check the H Transport and Finisher for a docking failure (PL 17.1).
- Check the Finisher Drive Motor and its associated gears and belts (PL 17.4, PL 17.7) for damage, contamination or misalignment.
- Decurler Roll/Pinch Roll for a drive failure (PL 17.7).
- Compiler Entrance Roll for a drive failure (PL 17.10, PL 17.12).
- Replace the H Transport Exit Sensor (PL 17.4).
- If the problem persists, replace the Finisher PWB (PL 17.13).

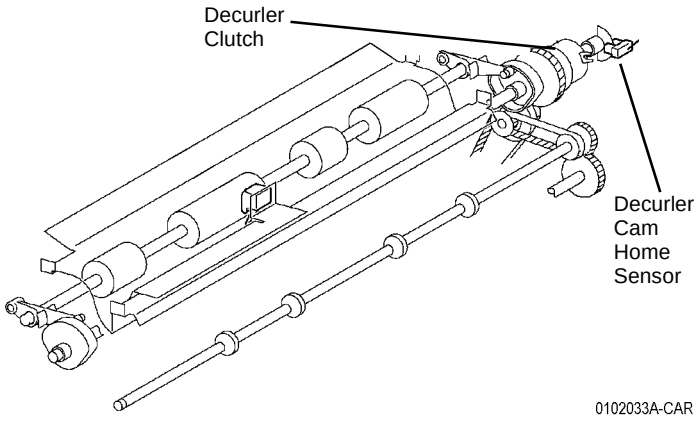


Figure 1 Component Location

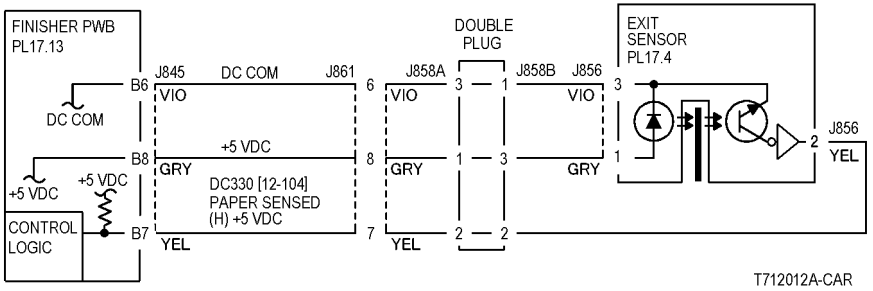


Figure 2 H Transport Exit Sensor CD

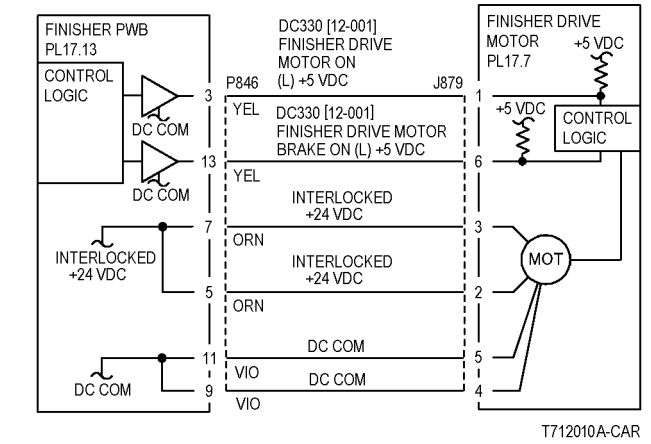


Figure 3 Finisher Drive Motor CD

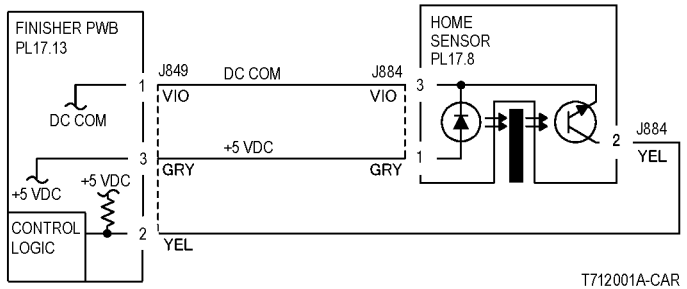


Figure 4 Decurler Cam Home Sensor CD

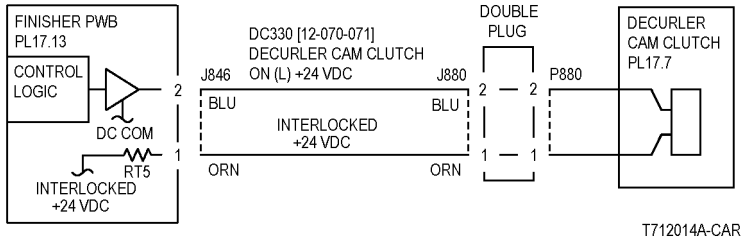


Figure 5 Decurler Cam Clutch CD

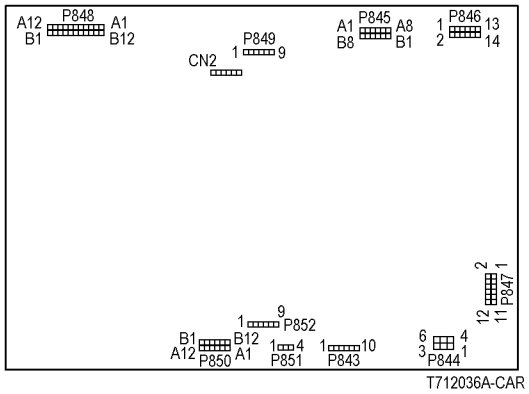


Figure 6 Finisher PWB

12-120 Compiler Entrance Sensor On (Office Finisher)

BSD-ON:12.5 Figure 5

The Compiler Entrance Sensor did not detect paper.

Initial Actions

- Check condition and specification of the paper supply.
- Check for obstructions in the paper feed path.
- Clean the H Transport Belt and check for wear.
- Check the Guides on the H Transport Cover for damage, wear or faulty installation

Procedure

Enter Component Control [012-101] and press Start. Open the H Transport Cover and actuate the Complier Entrance Sensor (PL 17.12) by manually feeding a sheet of paper through the Finisher. **The display changes.**

Y N

Press Stop. Check the circuit of the Compiler Entrance Sensor (Figure 2). Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop.

- Ensure that the connectors shown in the circuit diagram (Figure 2) are securely connected and that the wires are not damaged.
- Check the Finisher Drive Motor and its associated gears and belts (PL 17.4, PL 17.7) for damage, contamination or misalignment.
- Decurler Roll/Pinch Roll for a drive failure (PL 17.7).
- Replace the Compiler Entrance Sensor (PL 17.12).
- If the problem persists, replace the Finisher PWB (PL 17.13).

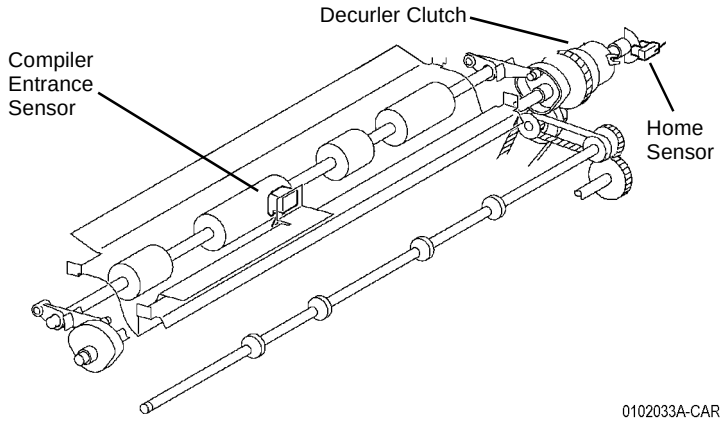


Figure 1 Component Location

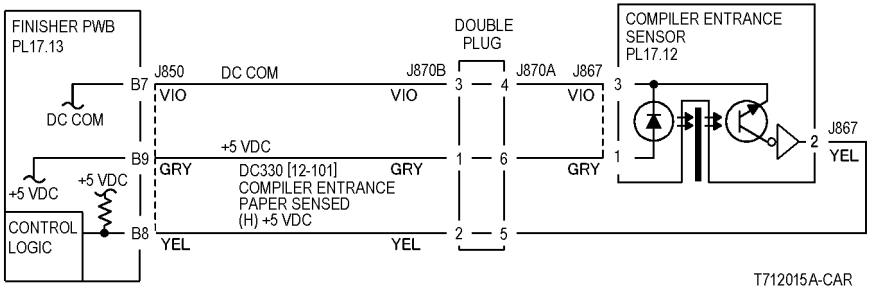


Figure 2 Compiler Entrance Sensor CD

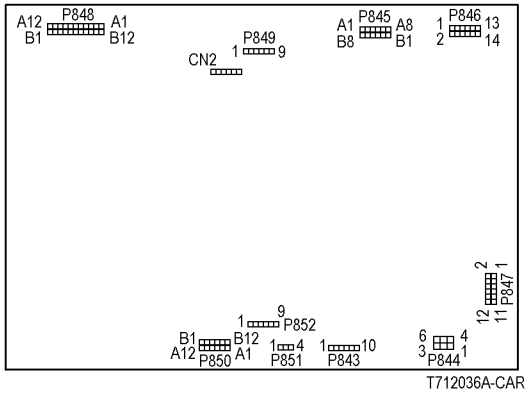


Figure 3 Finisher PWB

12-122 Compiler Entrance Sensor Off (Office Finisher)

BSD-ON: 12.5 Figure 5

Paper does not deactuate the Compiler Entrance Sensor.

Initial Actions

- Check condition and specification of the paper supply.
- Check for obstructions in the paper feed path.
- Clean the H Transport Belt and check for wear.

Procedure

Make a copy and observe paper in the Compiler Tray. **The copy enters the Compiler Tray.**

Y N

There is a drives problem. Check the following:

- The Finisher Drive Motor and its associated gears and belts (PL 17.7) for damage, contamination or misalignment.
- The Decurler Roll/Pinch Roll (Shaft) (PL 17.7) for a drive or contact failure.
- The Exit Roll and Pinch Rolls (PL 17.12) for a drive or contact failure.

Enter Component Control [012-101] and press Start. Open the H Transport Cover and actuate the Complier Entrance Sensor (PL 17.12) by manually feeding a sheet of paper through the Finisher. **The display changes.**

Y N

Press Stop. Check the circuit of the Compiler Entrance Sensor (Figure 2). Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop.

- Ensure that the connectors shown in the circuit diagram (Figure 2) are securely connected and that the wires are not damaged.
- Replace the Compiler Entrance Sensor (PL 17.12).
- If the problem persists, replace the Finisher PWB (PL 17.13).

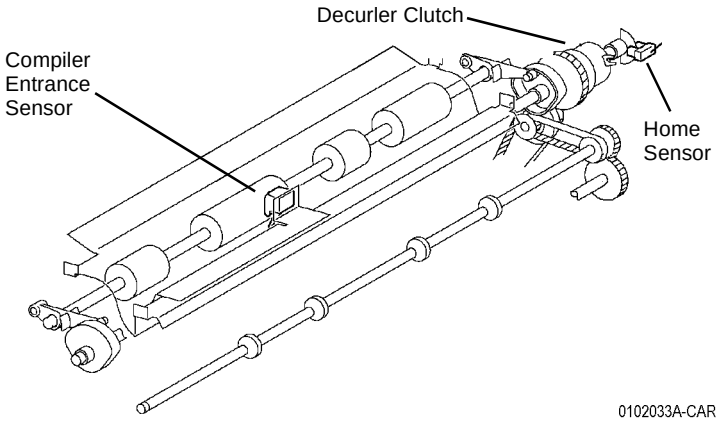


Figure 1 Component Location

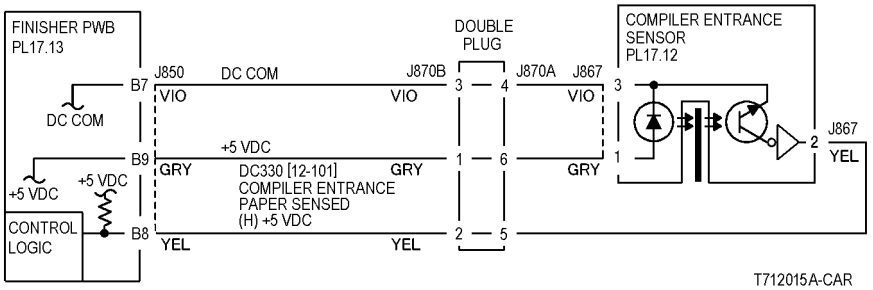


Figure 2 Compiler Entrance Sensor CD

12-170 Set Eject (Office Finisher)

BSD-ON:12.5 Figure 6

The Compiler Paper Sensor did not deactuate after the Eject Motor energized.

Initial Actions

- Check condition and specification of the paper supply.
- Check for obstructions in the paper feed path.
- Clean the Eject Roll and Eject Pinch Roll and check for wear.

Procedure

Enter Component Control [012-102] and press Start. Open the Top Cover (PL 17.6) and actuate the Compiler Paper Sensor (PL 17.10). **The display changes.**

Y N

Press Stop. Check the circuit of the Compiler Paper Sensor (Figure 2). Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop. Enter Component Control [012-030] and press Start. **The Eject Motor (PL 17.8) energizes.**

Y N

Press Stop. Check the circuit of the Eject Motor (Figure 3). Refer to the OF 99-9 RAP for troubleshooting procedure.

Check the following:

- Ensure that the connectors shown in the circuit diagrams (Figure 2, Figure 3) are securely connected and that the wires are not damaged.
- Check the Eject Motor and its associated gears, pulleys and belts (PL 17.8) for damage, contamination or misalignment.
- Eject Clamp for an up and down movement failure (PL 17.8).
- Stacker Tray for foreign substance (PL 17.1).
- Replace the Compiler Paper Sensor (PL 17.10).
- If the problem persists, replace the Finisher PWB (PL 17.13).

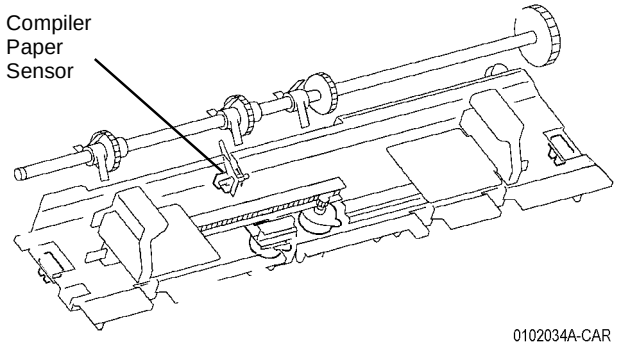


Figure 1 Component Location

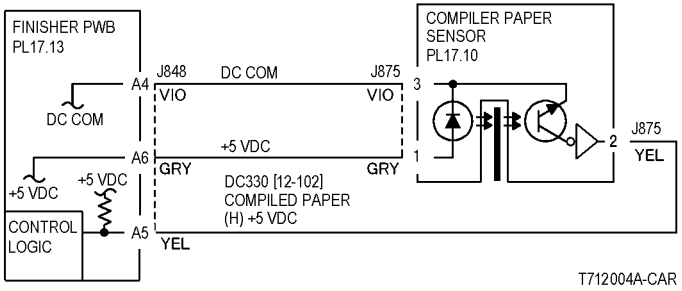


Figure 2 Compiler Paper Sensor CD

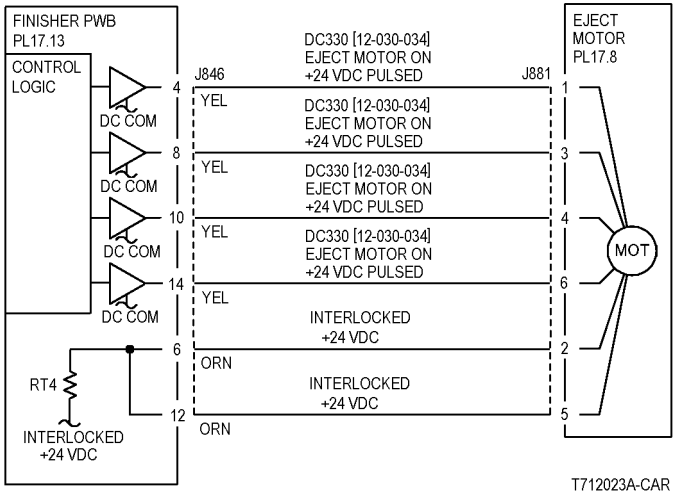


Figure 3 Eject Motor CD

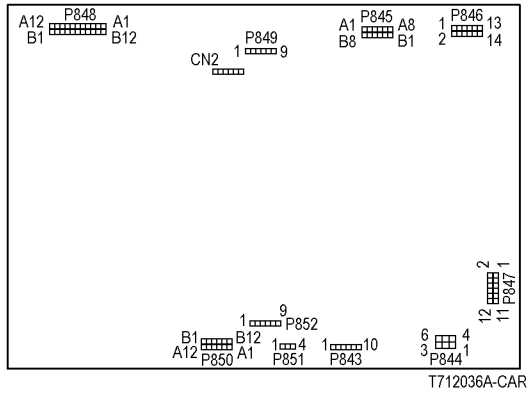


Figure 4 Finisher PWB

12-241 Staple Move Sensor On (Office Finisher)

BSD-ON:112.7 Figure 7

- The Staple Sensor did not turn on after the Stapler moved to the Staple Position.
- The Staple Sensor did not actuate after the Stapler is in position.

Initial Actions

- Check for obstructions in the Stapler Unit Rail.
- Check the Rail for wear.

Procedure

Open the Front Cover Door (PL 17.5) and manually move the Stapler toward rear and front. **The Stapler moves smoothly.**

Y N

Repair the cause of Staple Head not moving, such as rail breakage, drag, or damaged gear.

Enter Component Control [012-224] and press Start. Actuate the Staple Move Sensor (PL 17.9) by manually moving the Stapler toward the rear and front. **The display changes.**

Y N

Press Stop. Check the circuit of the Staple Move Sensor (Figure 2). Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop. Cheat the Front Cover Door Interlock Switch (PL 17.13). Enter Component Control [012-081] (front) or [12-083] (rear) and press Start. **The Staple Move Motor energized.**

Y N

Press Stop. Check the circuit of the Staple Move Motor (Figure 3). Refer to the OF 99-9 RAP for troubleshooting procedure.

Press Stop.

- Ensure that the connectors shown in the circuit diagrams (Figure 2, Figure 3) are securely connected and that the wires are not damaged.
- Ensure that the Stapler Harness (PL 17.9) does not obstruct the Staple Head and that the harness is properly secured.
- Replace the Staple Move Sensor (PL 17.9).
- If the problem persists, replace the Finisher PWB (PL 17.13).

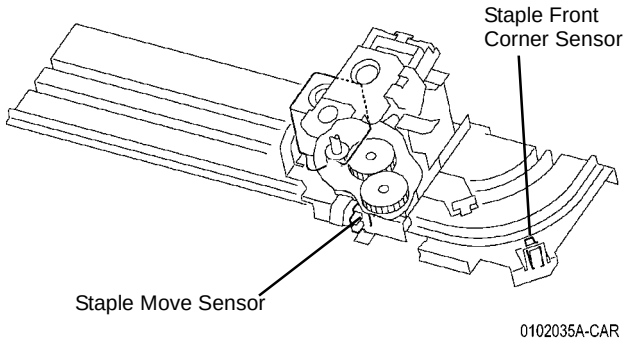


Figure 1 Component Location

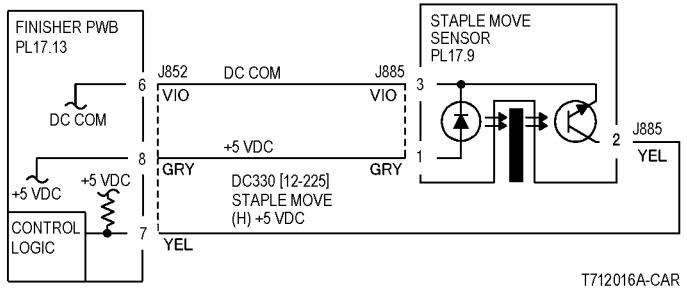


Figure 2 Staple Move Sensor CD

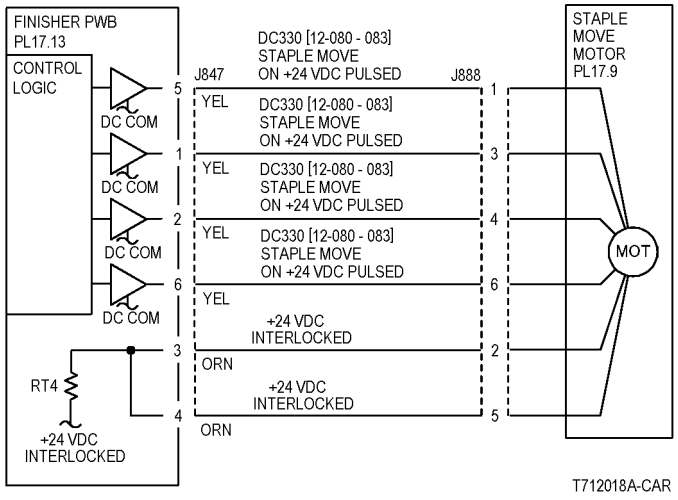


Figure 3 Staple Move Motor CD

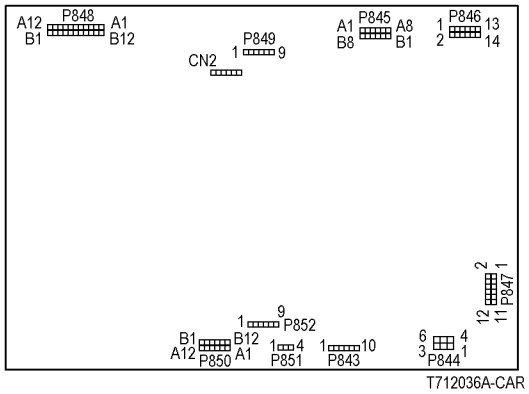


Figure 4 Finisher PWB

12-242 Staple Move Sensor Off (Office Finisher)

BSD-ON: 12.7 Figure 7

- The Staple Move Sensor did not turn off after the move to the Staple Position started.
- The Staple Move Sensor turned off after Staple Position has been fixed.
- The Staple Move Sensor did not turn off after it turned on when paper passed through the 1st position of the Dual Staple when moving to the Rear Staple Position.

Initial Actions

- Check for obstructions in the Stapler Unit area.
- Check the Rail for wear.

Procedure

Open the Front Cover Door (PL 17.5) and manually move the Stapler toward rear and front. **The Stapler moves smoothly**

Y N

Repair the cause of Staple Head not moving, such as rail breakage, drag, or damaged gear.

Enter Component Control [12-224] and press Start. Actuate the Staple Move Sensor (PL 17.9) by manually moving the Stapler toward the rear and front. **The display changes.**

Y N

Press Stop. Check the circuit of the Staple Move Sensor (Figure 2). Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop. Cheat the Front Cover Interlock Switch (PL 17.13). Enter Component Control [012-081] (front) or [12-083] (rear) and press Start. **The Staple Move Motor energized.**

Y N

Press Stop. Check the circuit of the Staple Move Motor (Figure 3). Refer to the OF 99-9 RAP for troubleshooting procedure.

Press Stop.

- Ensure that the connectors shown in the circuit diagrams (Figure 2, Figure 3) are securely connected and that the wires are not damaged.
- Ensure that the Stapler Harness (PL 17.9) does not obstruct the Staple Head and that the harness is properly secured.
- Replace the Staple Move Sensor (PL 17.9).
- Replace the Finisher PWB (PL 17.13).

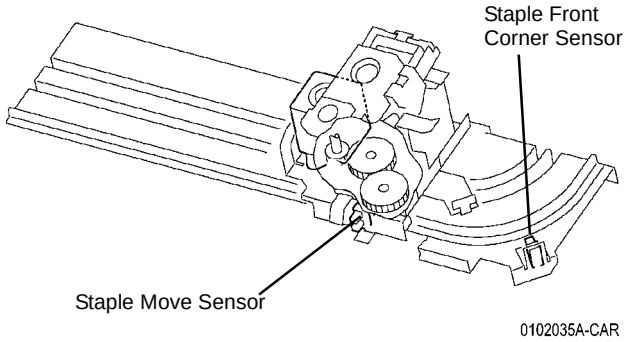


Figure 1 Component Location

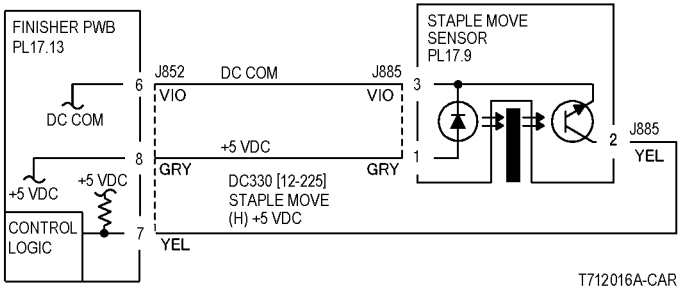


Figure 2 Staple Move Sensor CD

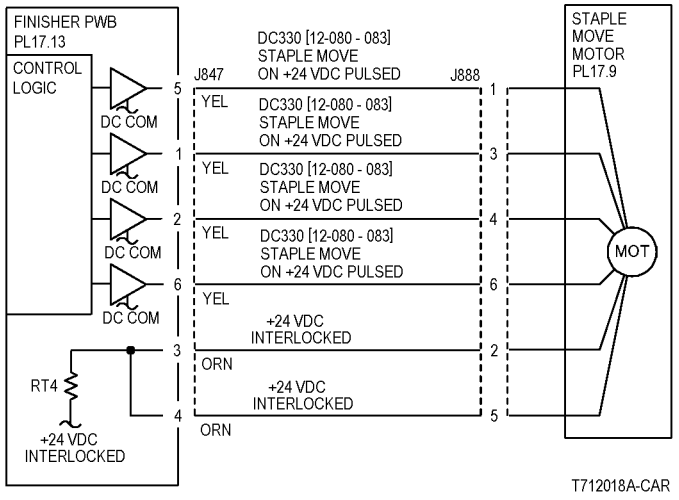


Figure 3 Staple Move Motor CD

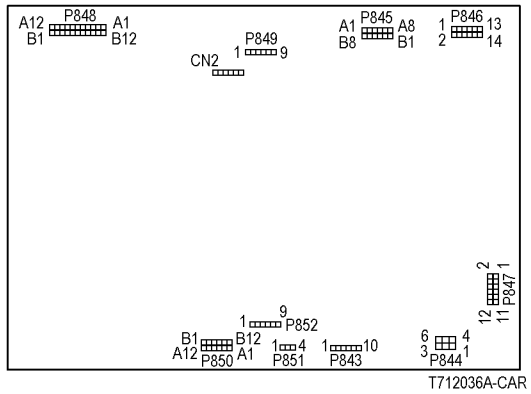


Figure 4 Finisher PWB

12-244 Staple Home Sensor (Office Finisher)

BSD-ON:12.8 Figure 8

The Staple Head Home Sensor did not actuate after the Stapler Motor energized to open the Stapler.

Procedure

Enter Component Control [012-207] and press Start. Turn the Staple Motor Gear manually to actuate the Staple Head Home Sensor. **The display changes.**

Y N

+5 VDC is measured at Stapler Assembly between P/J886-5 and P/J886-1.

Y N

+5 VDC is measured at the Finisher PWB between P/J852-1 and P/J852-5.

Y N

Replace the Finisher PWB (PL 17.13).

Check the wire between the Finisher PWB P/J852 and the Stapler Assembly P/J886 for an open circuit or poor contact.

Turn the Staple Motor Gear manually to deactuate and actuate the Staple Head Home Sensor. **The voltage changes between the Stapler P/J886-4 and Finisher Frame.**

Y N

Switch off the power. Disconnect P/J852 on the Finisher PWB. Switch the power on. **+5 VDC is measured at the Finisher PWB P852-2.**

Y N

Replace the Finisher PWB (PL 17.13).

Check the wires between the Finisher P/J852 and the Stapler Assembly P/J886 for obvious damage (Figure 2).
If the wires are good, replace the Stapler Assembly (PL 17.9).

Replace the Finisher PWB (PL 17.13).

Position paper in stapler. Select [012-020] and press Start. **The Staple Motor energizes.**

Y N

With [012-020] running, +24 VDC is measured at the Finisher PWB P/J847-7.

Y N

Replace the Finisher PWB (PL 17.13).

Check resistance of the following:

- Between the Finisher PWB P/J847-7 and Stapler Assembly P/J887-1
- Between the Finisher PWB P/J847-8 and Stapler Assembly P/J887-2
- Between the Finisher PWB P/J847 -9 and Stapler Assembly P/J887-3
- Between the Finisher PWB P/J847-10 and Stapler Assembly P/J887-4

If no problems are found, replace the Stapler Assembly (PL 17.9).
If the problem continues, replace the Finisher PWB (PL 17.13).

Replace the Finisher PWB (PL 17.13).

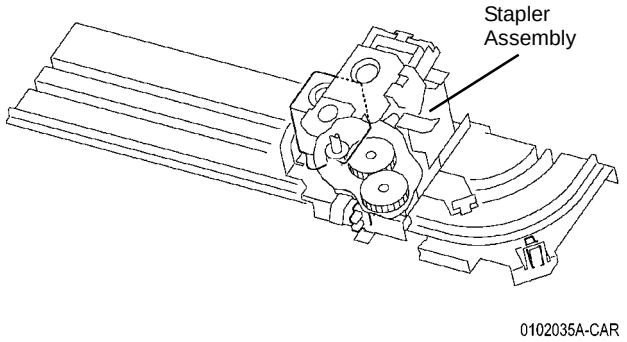


Figure 1 Component Location

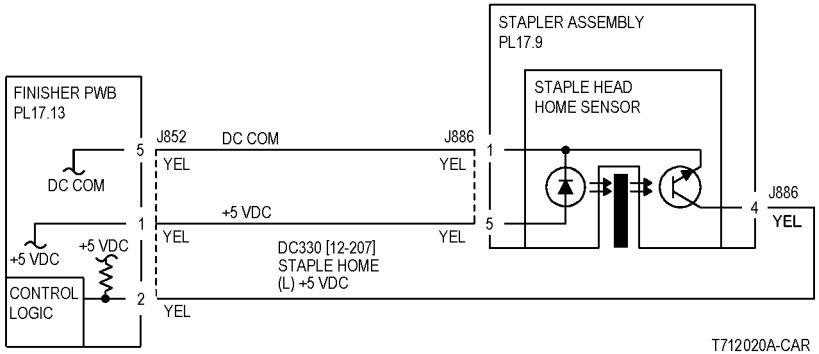


Figure 2 Staple Head Home Sensor

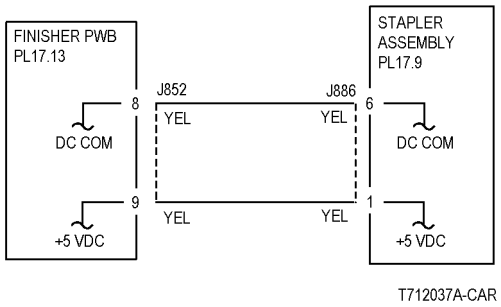


Figure 3 Stapler Assembly Logic Power CD

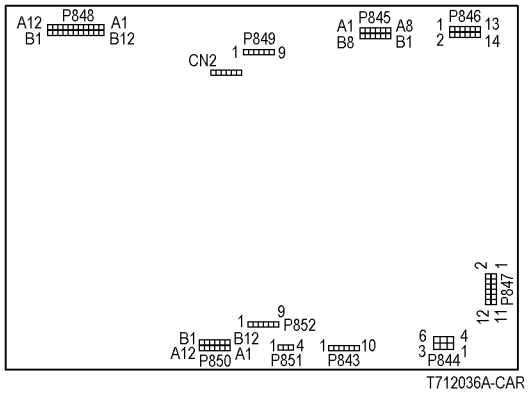


Figure 4 Finisher PWB

12-252 Front Tamper (Office Finisher)

BSD-ON:12.5 Figure 6

- With the Front Tamper Home Sensor off the Front Tamper Home Sensor did not turn on after move to the Front Tamper Home position began.
- With the Front Tamper Home Sensor on, the Front Tamper Sensor did not turn off when the Front Tamper Home Sensor deactuates.

Initial Actions

Check for obstructions in the Compiler Tray Assembly.

Procedure

Enter Component Control [012-091] (front) or [12-094] (rear) and press Start. **The Front Tamper (PL 17.10) moves.**

Y N

The Front Tamper Motor energized.

Y N

Press Stop. Check the circuit of the Front Tamper Motor (Figure 3). Refer to the OF 99-9 RAP for troubleshooting procedure.

Check the Front Tamper Motor and its associated gear and rack mechanism (PL 17.10) for load or drive transmission failure (gear wear or breakage). Repair or replace as required.

Press Stop. Enter Component Control [012-216] and press Start. Open the Top Cover (PL 17.6) and move the Front Tamper manually to actuate the Front Tamper Home Sensor (PL 17.10). **The display changes.**

Y N

Press Stop. Check the circuit of the Front Tamper Home Sensor (Figure 2). Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop.

- Ensure that the connectors shown in the circuit diagrams (Figure 2, Figure 3) are securely connected and that the wires are not damaged.
- Replace the Front Tamper Home Sensor (PL 17.10).
- If the problem persists, replace the Finisher PWB (PL 17.13).

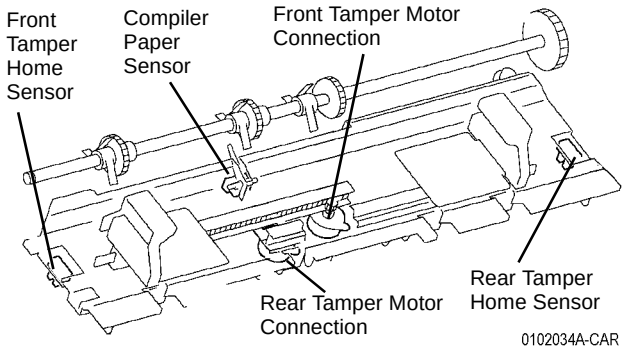


Figure 1 Component Location

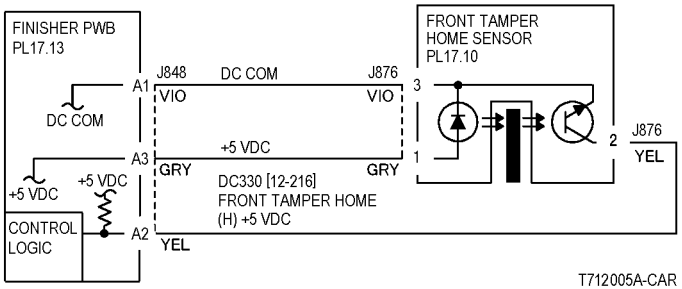


Figure 2 Front Tamper Home Sensor CD

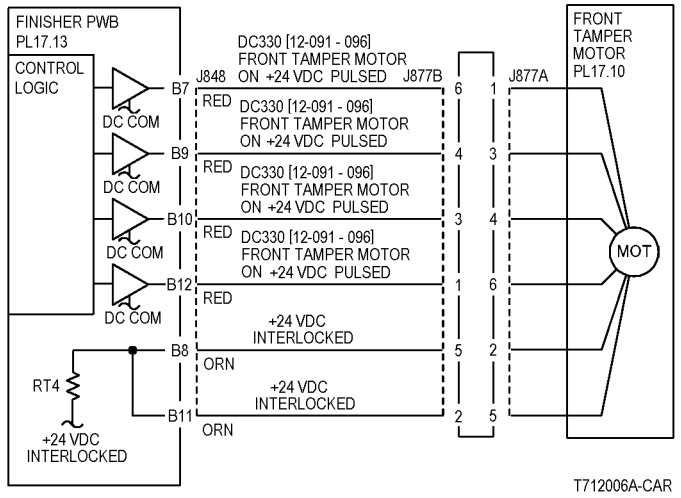


Figure 3 Front Tamper Motor CD

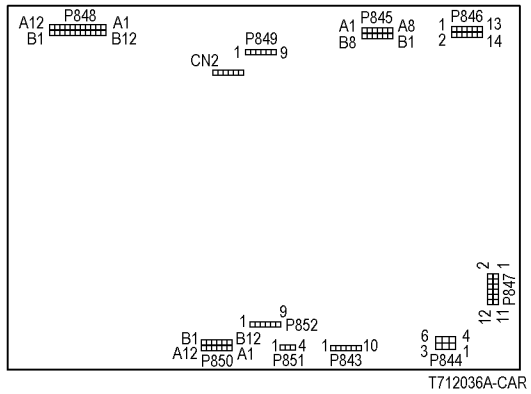


Figure 4 Finisher PWB

12-253 Rear Tamper (Office Finisher)

BSD-ON:12.5 Figure 6

- With the Rear Tamper Home Sensor off The Rear Tamper Home Sensor did not turn on within 800ms after move to the Rear Tamper Home position has begun.
- With the Rear Tamper Home Sensor on: The Rear Tamper Home Sensor did not turn off when the Rear Tamper Home Sensor is deactuating.

Initial Actions

Check for obstructions in the Compiler Tray Assembly.

Procedure

Enter Component Control [012-010] (front) or [12-013] (rear) and press Start. **The Rear Tamper (PL 17.10) moves.**

Y N

The Rear Tamper Motor energized.

Y N

Press Stop. Check the circuit of the Rear Tamper Motor (Figure 3). Refer to the OF 99-9 RAP for troubleshooting procedure.

Check the Rear Tamper Motor and its associated gear and rack mechanism (PL 17.10) for load or drive transmission failure (gear wear or breakage). Repair or replace as required.

Press Stop. Enter Component Control [012-212] and press Start. Open the Top Cover and move the Rear Tamper manually to actuate the Rear Tamper Home Sensor (PL 17.10). **The display changes.**

Y N

Press Stop. Check the circuit of the Rear Tamper Home Sensor (Figure 2). Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop.

- Ensure that the connectors shown in the circuit diagrams (Figure 2, Figure 3) are securely connected and that the wires are not damaged.
- Replace the Rear Tamper Home Sensor (PL 17.10).
- If the problem persists, replace the Finisher PWB (PL 17.13).

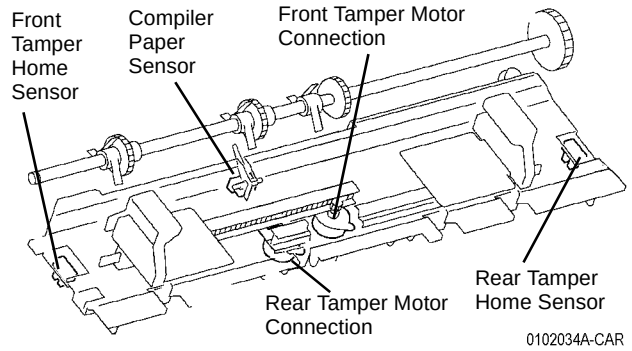


Figure 1 Component Location

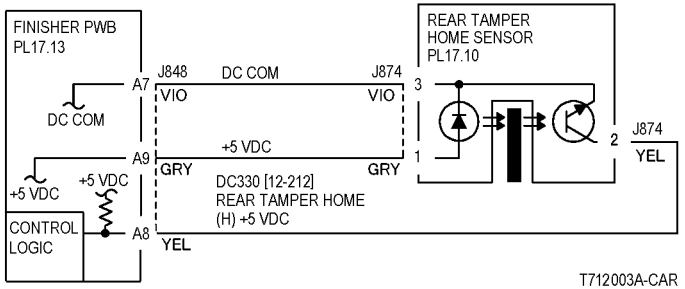


Figure 2 Rear Tamper Home Sensor CD

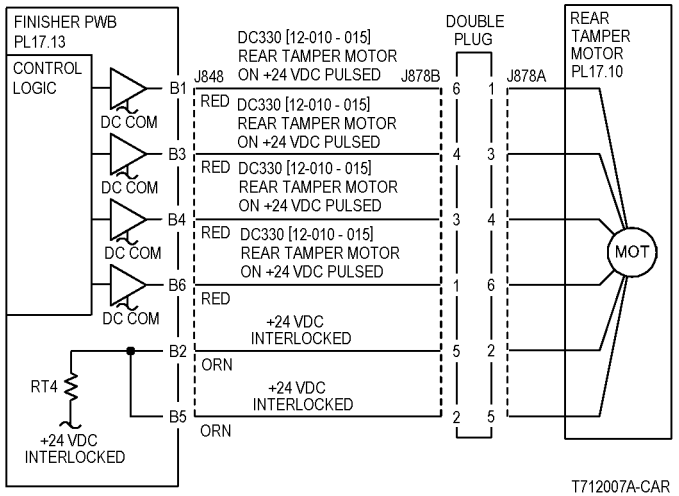


Figure 3 Rear Tamper Motor CD

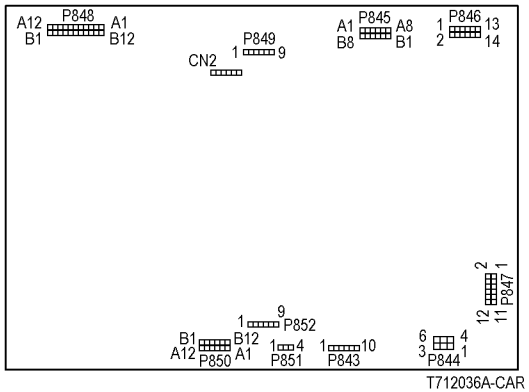


Figure 4 Finisher PWB

12-254 Stacker Tray (Office Finisher)

BSD-ON:12.12A Figure 10

- The Stack Height Sensor did not detect that the tray went down after the Stacker Tray lowered at initialization.
- The Stack Height Sensor did not detect that the tray went up after the Stacker Motor was energized.

Initial Actions

- Check the Stack Height Sensor Actuator for disengagement, bending, obstruction and breakage.
- Stacker Tray for dragging and incorrect installation.

Procedure

Release the Stacker Drive (REP 12.20) and manually move the Stacker Tray up and down. **The Stacker Tray slides smoothly up and down without obstruction.**

Y N

Check the Stacker Tray belts and pulleys (PL 17.11) for damage, contamination or misalignment. Repair or replace as required.

Enter Component Control [012-201] and press Start. Actuate the Stack Height Sensor (PL 17.6). **The display changes.**

Y N

Press Stop. Check the circuit of the Stack Height Sensor (Figure 2). Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop. Enter Component Control [012-050] (up) or [012-051] (down) and press Start. **The Stacker Motor (PL 17.11) energizes.**

Y N

Press Stop. Check the circuit of the Stacker Motor (Figure 3). Refer to the OF 99-6 RAP for troubleshooting procedure.

Press Stop.

- Ensure that the connectors shown in the circuit diagrams (Figure 2, Figure 3) are securely connected and that the wires are not damaged.
- Check the Stacker Motor and its associated gears, pulleys and belts (PL 17.11) for damage, contamination or misalignment.
- Replace the Stack Height Sensor (PL 17.6).
- If the problem persists, replace the Finisher PWB (PL 17.13).

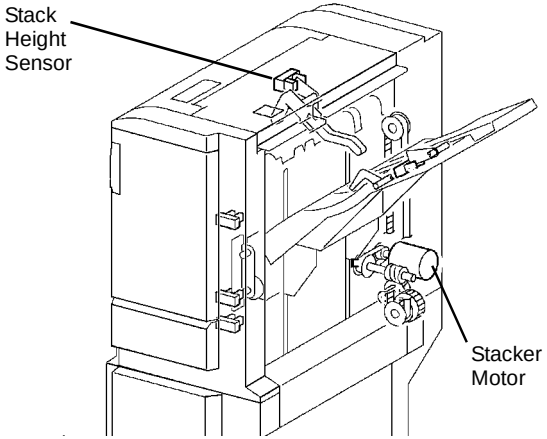


Figure 1 Component Location

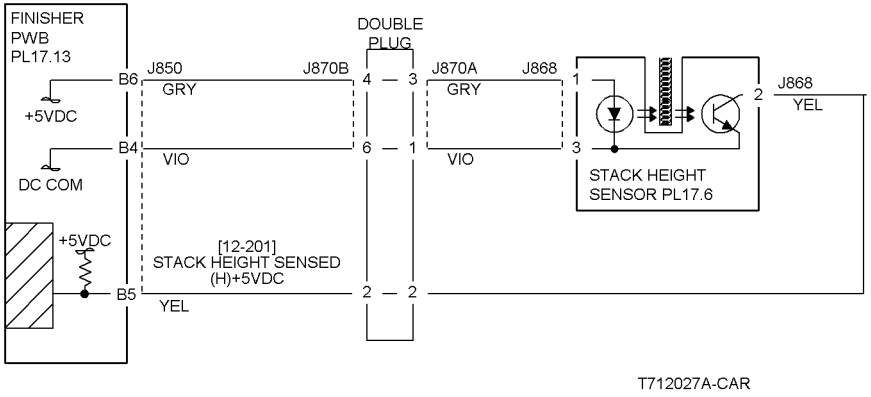


Figure 2 Stack Height Sensor

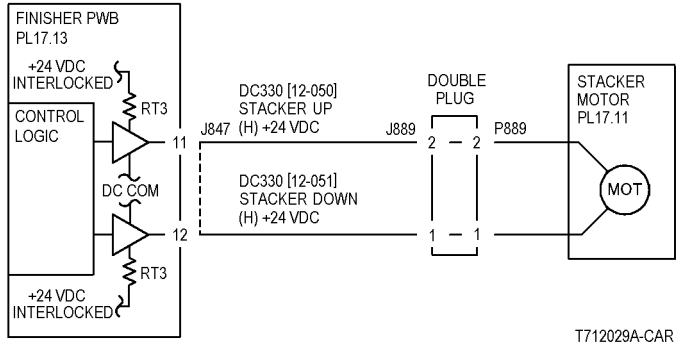


Figure 3 Stacker Motor CD

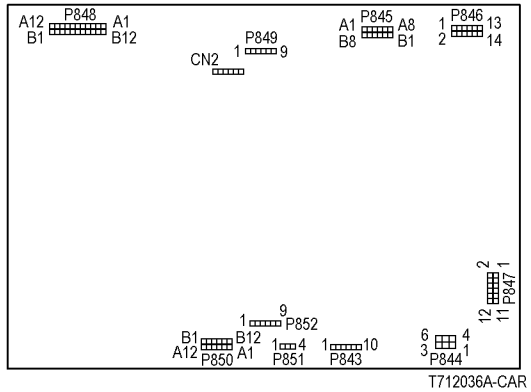


Figure 4 Finisher PWB

12-255 Stacker Tray Upper Limit (Office Finisher)

BSD-ON:12.10B Figure 11

- The system detected that the Stacker Tray Upper Limit Sensor was turned on after the Stacker Tray had begun lifting up.
- The system detected that the Stacker Tray Upper Limit Sensor remained on when lowering down of the Stacker Tray has completed.

Initial Actions

- Check the Stack Height Sensor Actuator for disengagement, bending, obstruction and breakage.
- Stacker Tray for dragging and incorrect installation.

Procedure

Release the Stacker Drive (REP 12.20) and manually move the Stacker Tray up and down. **The Stacker Tray slides smoothly up and down without obstruction.**

Y N

Check the Stacker Tray belts and pulleys (PL 17.11) for damage, contamination or misalignment. Repair or replace as required.

Remove the Front Cover (PL 17.5). Enter Component Control [012-202] and press Start. Actuate the Upper Limit Sensor (PL 17.11). **The display changes.**

Y N

Press Stop. Check the circuit of the Upper Limit Sensor (Figure 2). Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop. Enter Component Control [012-201] and press Start. Actuate the Stack Height Sensor. **The display changes.**

Y N

Press Stop. Check the circuit of the Stack Height Sensor (Figure 3). Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop. Enter Component Control [012-050] (up) or [012-051] (down) and press Start. **The Stacker Motor (PL 17.11) energizes.**

Y N

Press Stop. Check the circuit of the Stacker Motor (Figure 4). Refer to the OF 99-6 RAP for troubleshooting procedure.

Press Stop.

- Ensure that the connectors shown in the circuit diagrams (Figure 2, Figure 3, Figure 4) are securely connected and that the wires are not damaged.
- Check the Stacker Motor and its associated gears, pulleys and belts (PL 17.11) for damage, contamination or misalignment.
- Replace the Stack Height Sensor (PL 17.6).
- Replace the Upper Limit Sensor (PL 17.11).
- If the problem persists, replace the Finisher PWB (PL 17.13).

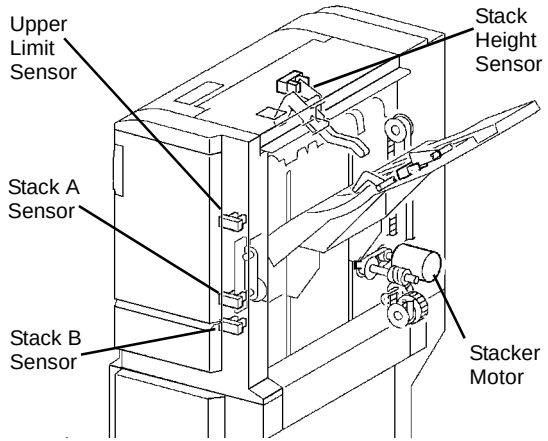


Figure 1 Component Location

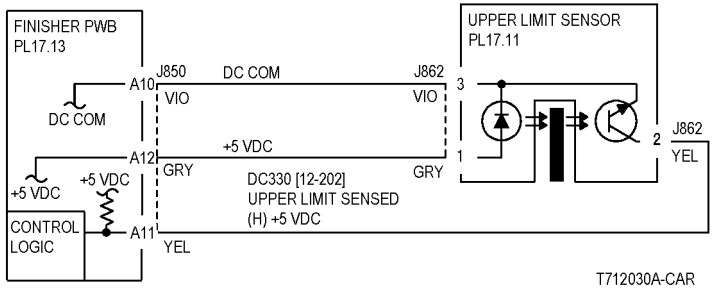


Figure 2 Upper Limit Sensor CD

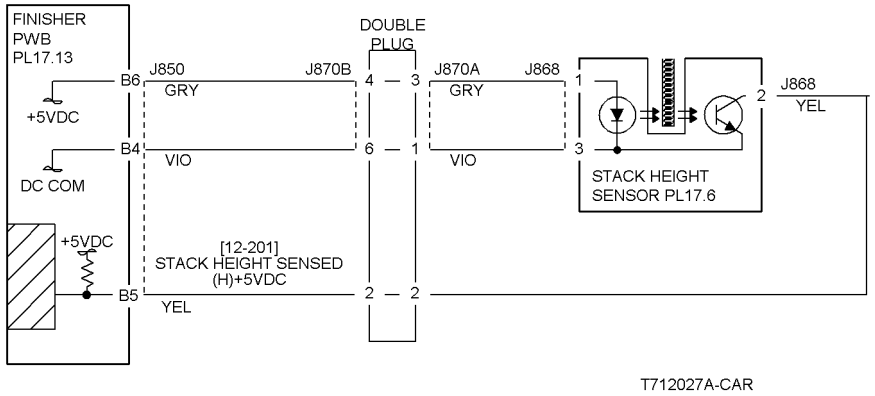


Figure 3 Stack Height Sensor CD

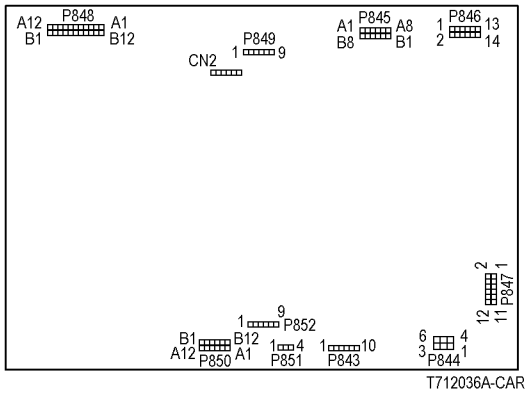


Figure 5 Finisher PWB

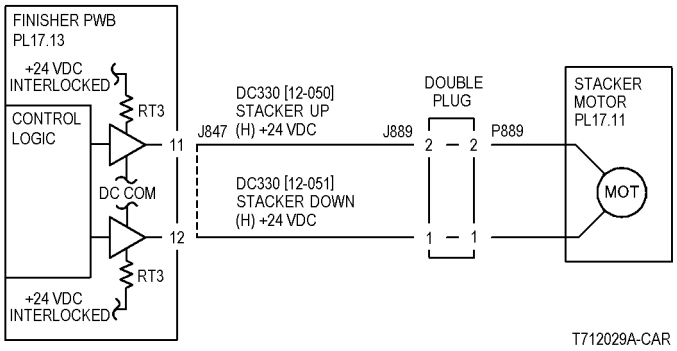


Figure 4 Stacker Motor CD

12-256 Staple Front Corner Sensor On (Office Finisher)

BSD-ON:12.7 Figure 7

- The Stapler Front Corner Sensor does not turn on within 2 sec. after starting to move to Front Corner.
- The Stapler Front Corner Sensor remained on when starting to move to Front Corner.

Initial Actions

- Check for obstructions in the Stapler Unit area.
- Check the Rail for wear.

Procedure

Open the Front Cover Door (PL 17.5) and manually move the Staple Head toward rear and front. **The Staple Head moves smoothly.**

Y N

Repair the cause of Staple Head not moving, such as rail breakage, drag, or damaged gear.

Enter Component Control [012-225] and press Start. Actuate the Staple Front Corner Sensor (PL 17.9) by manually moving the Staple Head toward the front. **The display changes.**

Y N

Press Stop. Check the circuit of the Staple Front Corner Sensor (Figure 2). Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop. Cheat the Front Door Interlock Switch (PL 17.13). Enter Component Control [012-081] (front direction) or [12-083] (rear direction) and press Start. **The Staple Move Motor (PL 17.9) energized.**

Y N

Press Stop. Check the circuit of the Staple Move Motor (Figure 3). Refer to the OF 99-9 RAP for troubleshooting procedure.

Press Stop.

- Ensure that the connectors shown in the circuit diagrams (Figure 2, Figure 3) are securely connected and that the wires are not damaged.
- Ensure that the Stapler Harness (PL 17.9) does not obstruct the Staple Head and that the harness is properly secured.
- Replace the Staple Front Corner Sensor (PL 17.9).
- If the problem persists, replace the Finisher PWB (PL 17.13).

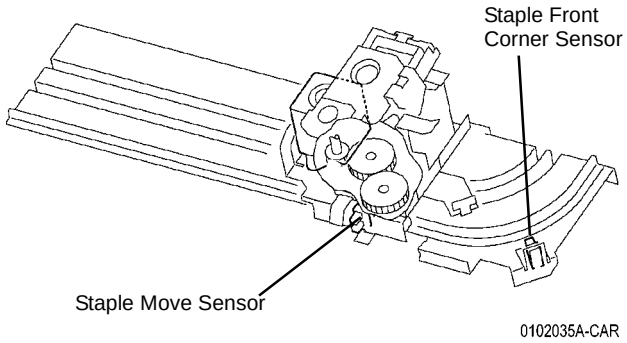


Figure 1 Component Location

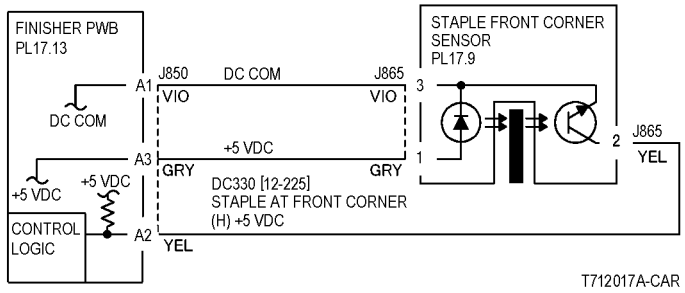


Figure 2 Staple Front Corner Sensor CD

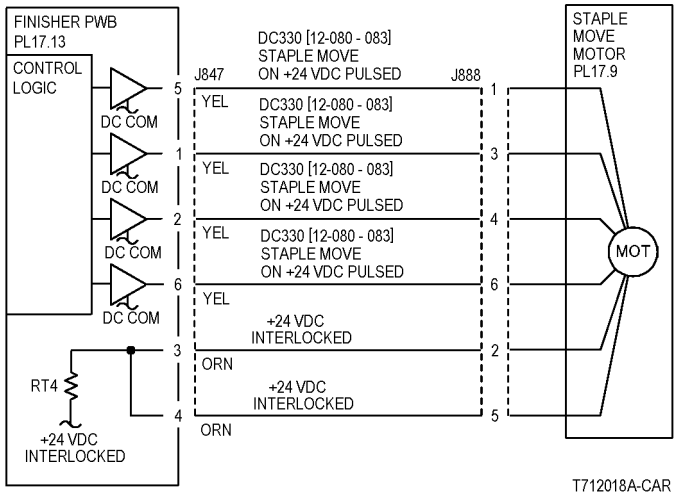


Figure 3 Stapler Move Motor CD

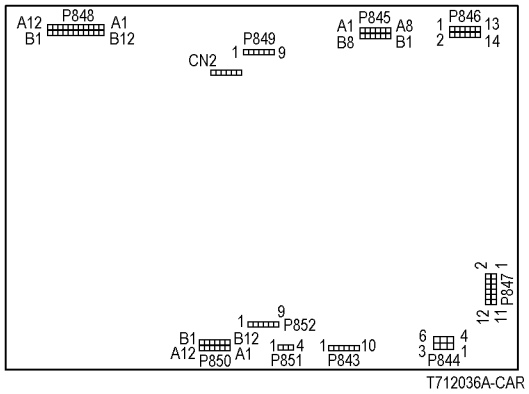


Figure 4 Finisher PWB

12-257 Staple Front Corner Sensor Off (Office Finisher)

BSD-ON:12.7 Figure 7

- The Staple Front Corner Sensor does not turn off after the move from Front Corner has completed.
- The Staple Front Corner Sensor does not turn off after starting to move from Front Corner.

Initial Actions

- Check for obstructions in the Stapler Unit area.
- Check the Rail for wear.

Procedure

Open the Front Cover Door (PL 17.5) and manually move the Staple Head toward rear and front. **The Staple Head moves smoothly.**

Y N

Remove the cause of Staple Head not moving, such as rail breakage, drag, and gear damage.

Enter Component Control [012-225] and press Start. Actuate the Staple Front Corner Sensor (PL 17.9) by manually moving the Staple Head toward the front. **The display changes.**

Y N

Press Stop. Check the circuit of the Staple Front Corner Sensor (Figure 2). Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop. Cheat the Front Door Interlock Switch (PL 17.13). Enter Component Control [012-081] (front direction) or [12-083] (rear direction) and press Start. **The Staple Move Motor (PL 17.9) energized.**

Y N

Press Stop. Check the circuit of the Staple Move Motor (Figure 3). Refer to the OF 99-9 RAP for troubleshooting procedure.

Press Stop.

- Ensure that the connectors shown in the circuit diagrams (Figure 2, Figure 3) are securely connected and that the wires are not damaged.
- Ensure that the Stapler Harness (PL 17.9) does not obstruct the Staple Head and that the harness is properly secured.
- Replace the Staple Front Corner Sensor (PL 17.9).
- If the problem persists, replace the Finisher PWB (PL 17.13).

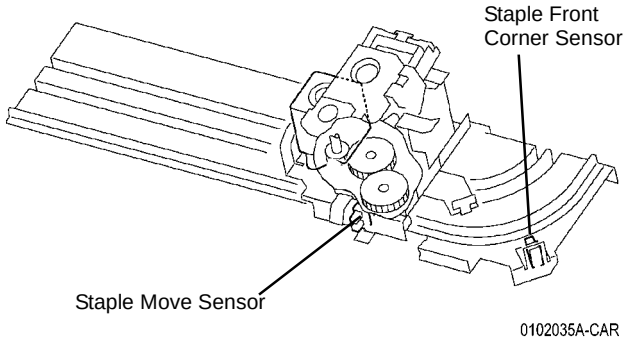


Figure 1 Component Location

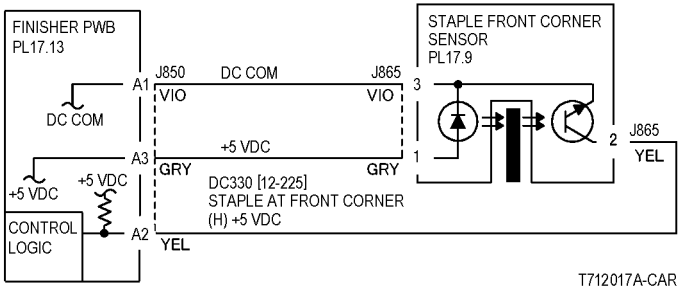


Figure 2 Stapler Front Corner Sensor CD

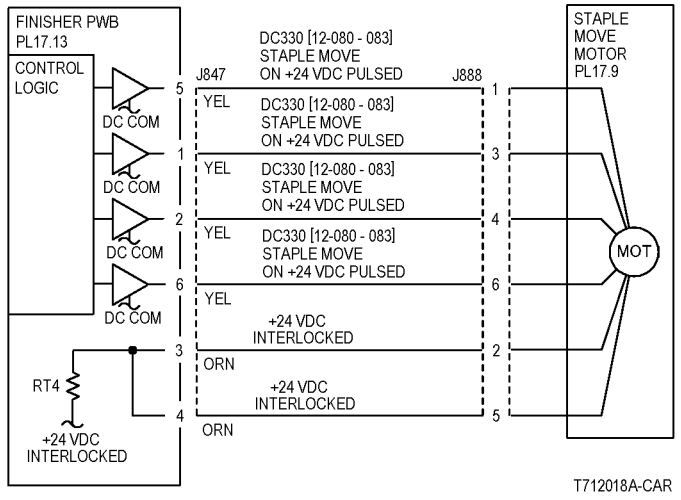


Figure 3 Staple Move Motor CD

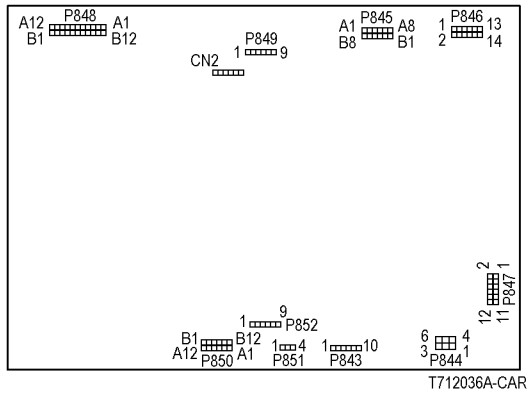


Figure 4 Finisher PWB

12-260 Eject Clamp Home Sensor On (Office Finisher)

BSD-ON:12.9 Figure 9

The Eject Clamp Home Sensor does not turn on after the Eject Clamp up started.

Initial Actions

- Check for obstructions in the Clamp area.

Procedure

Remove the Rear Cover (PL 17.5) and the Eject Clamp Home Sensor bracket (PL 17.8) (leave sensor connected). Enter Component Control [012-210] and press Start. Actuate the Eject Clamp Home Sensor (PL 17.8). **The display changes.**

Y N

Press Stop. Check the circuit of the Eject Clamp Home Sensor (Figure 2). Refer to the OF 99-2 RAP for troubleshooting procedure.

Restore mounting of the Eject Clamp Home Sensor. Enter Component Control [012-034] and press Start. **The Eject Clamp (PL 17.6) moves up.**

Y N

The Eject Motor energized.

Y N

Press Stop. Check the circuit of the Eject Motor (Figure 3). Refer to the OF 99-9 RAP for troubleshooting procedure.

Check the Eject Motor and its associated gears, pulleys and belts (PL 17.8) for damage, contamination and misalignment.

Press Stop.

- Ensure that the connectors shown in the circuit diagrams (Figure 2, Figure 3) are securely connected and that the wires are not damaged.
- Replace the Eject Clamp Home Sensor (PL 17.8).
- If the problem persists, replace the Finisher PWB (PL 17.13).

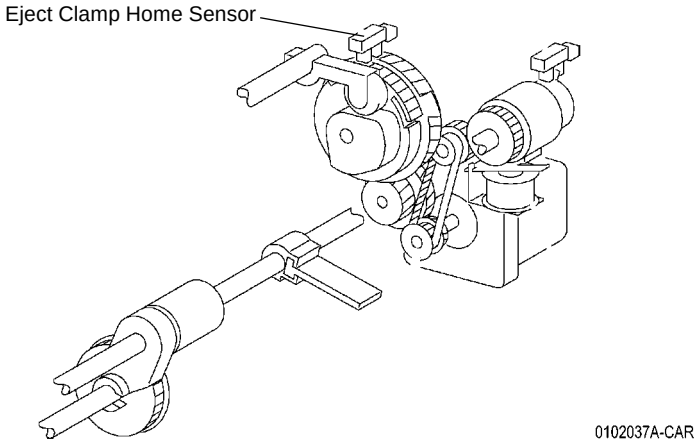


Figure 1 Component Location

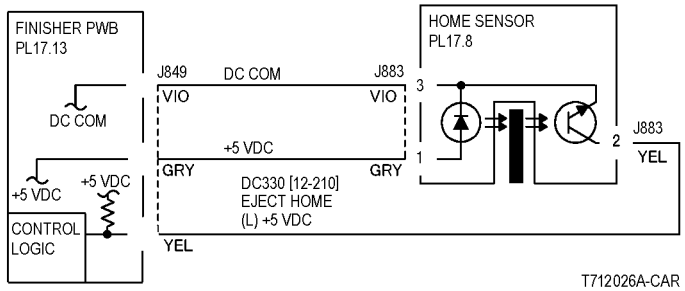


Figure 2 Eject Clamp Home Sensor

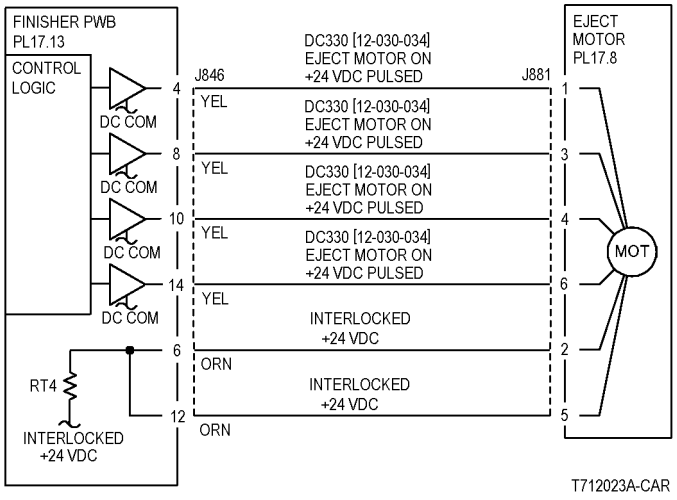


Figure 3 Eject Motor CD

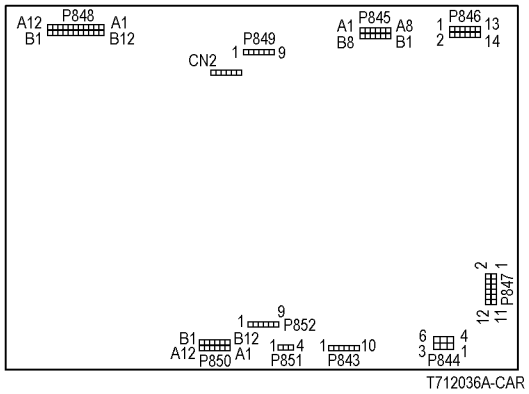


Figure 4 Finisher PWB

12-262 Eject Clamp Home Sensor Off (Office Finisher)

BSD-ON:12.9 Figure 9

The Eject Clamp Home Sensor does not turn off within 200ms after the Eject Clamp DOWN has started.

Procedure

Remove the Rear Cover (PL 17.5) and the Eject Clamp Home Sensor bracket (PL 17.8)(leave sensor connected). Enter Component Control [012-210] and press Start. Actuate the Eject Clamp Home Sensor (PL 17.8). **The display changes.**

Y N

Press Stop. Check the Eject Clamp Home Sensor components for mechanical problems. If the components are good, check the circuit of the Eject Clamp Home Sensor (Figure 2).

Press Stop. Restore mounting of the Eject Clamp Home Sensor. Enter Component Control [012-032] and press Start. **The Eject Clamp (PL 17.6) moves down.**

Y N

The Eject Motor energized.

Y N

Press Stop. Check the circuit of the Eject Motor (PL 17.8). Refer to the OF 99-9 RAP for troubleshooting procedure.

Check the Eject Motor and its associated gears, pulleys and belts (PL 17.8) for damage, contamination and misalignment.

Press Stop.

- Ensure that the connectors shown in the circuit diagrams (Figure 2, Figure 3) are securely connected and that the wires are not damaged.
- Replace the Eject Clamp Home Sensor (PL 17.8).
- If the problem persists, replace the Finisher PWB (PL 17.13).

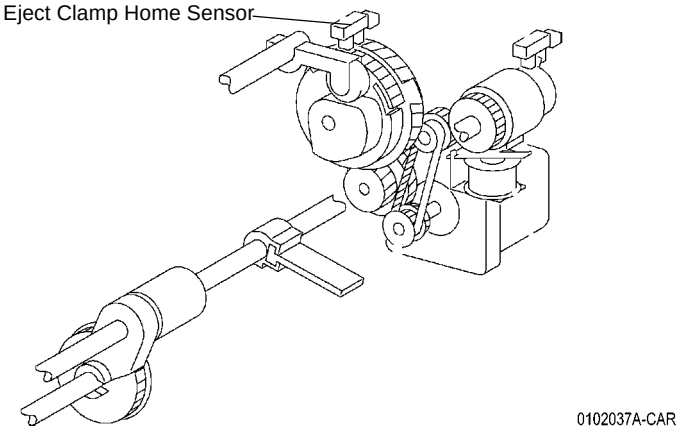


Figure 1 Component Location

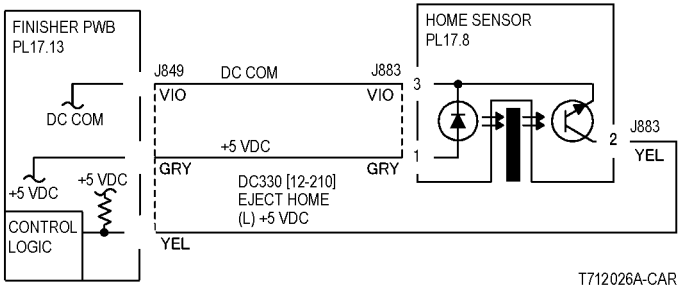


Figure 2 Eject Clamp Home Sensor

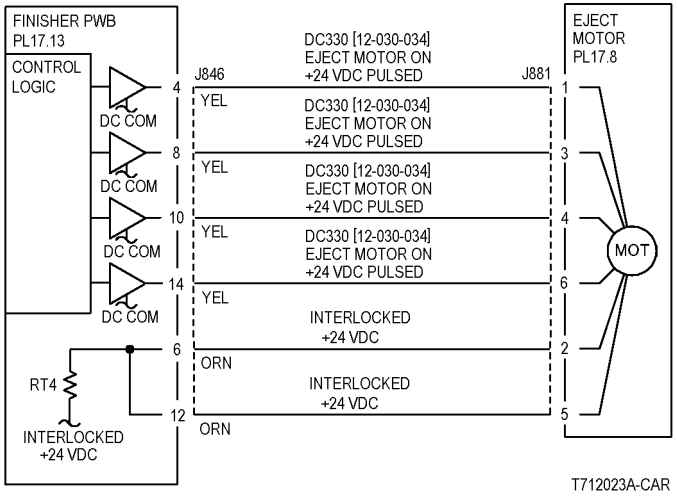


Figure 3 Eject Motor CD

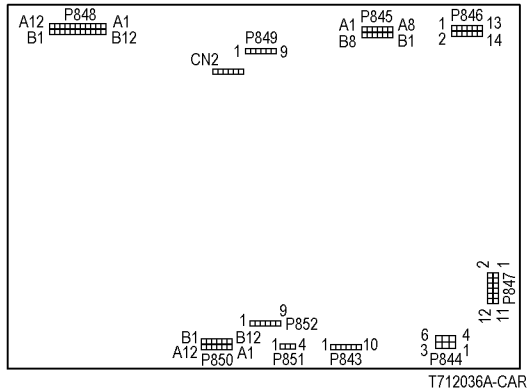


Figure 4 Finisher PWB

12-267 Decurler (Office Finisher)

BSD-ON:12.5 Figure 5

The Decurler Cam Home Sensor did not actuate after the Decurler Cam Clutch energized.

Procedure

Remove the Rear Cover (PL 17.5). Enter Component Control [012-217] and press Start. Actuate the Decurler Cam Home Sensor (PL 17.8). **The display changes.**

Y N

Press Stop. Check the circuit of the Decurler Cam Home Sensor (Figure 2). Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop. Enter Component Control [012-070] and press Start. **The Decurler Cam Clutch (PL 17.7) energized.**

Y N

Press Stop. Check the circuit of the Decurler Cam Clutch (Figure 3). Refer to the OF 99-4 RAP for troubleshooting procedure.

Press Stop. Enter Component Control [012-071] and press Start. **The Decurler Cam (PL 17.7) energizes.**

Y N

Press Stop. Check the following:

- The Decurler Cam Clutch for slippage.
- The Driver Gear for wear, a drive failure, and breakage.
- The belt for disengagement, breakage, and improper tension.

Remove the other mechanical causes of the Decurler Cam not operating.

Press Stop.

- Ensure that the connectors shown in the circuit diagrams (Figure 2, Figure 3) are securely connected and that the wires are not damaged.
- Replace the Decurler Cam Home Sensor (PL 17.8).
- If the problem persists, replace the Finisher PWB (PL 17.13).

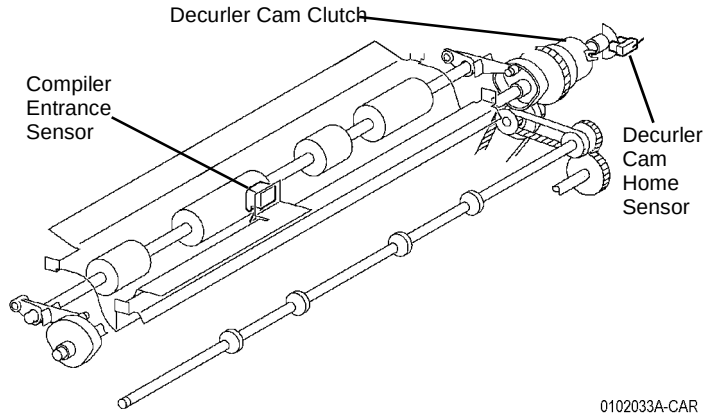


Figure 1 Component Location

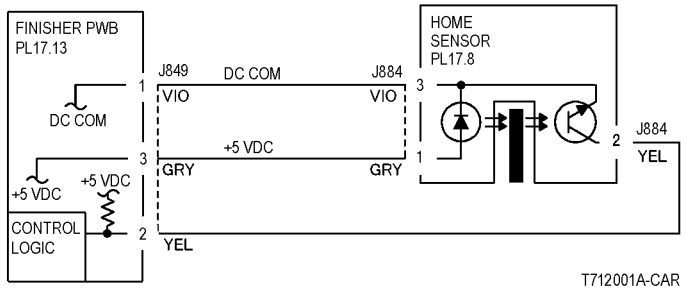


Figure 2 Decurler Cam Home Sensor CD

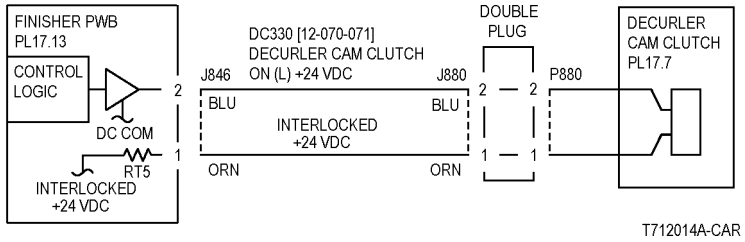


Figure 3 Decurler Cam Clutch CD

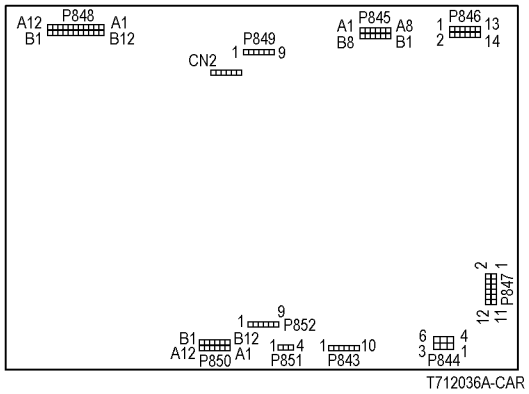


Figure 4 Finisher PWB

12-281 Set Clamp (Office Finisher)

BSD-ON:12.9 Figure 9

The Set Clamp Home Sensor does not actuate after the Set Clamp started operation.

Procedure

Remove the Rear Cover (PL 17.5). Enter Component Control [012-211] and press Start. Actuate the Set Clamp Home Sensor (PL 17.8). **The display changes.**

Y N

Press Stop. Check the circuit of the Set Clamp Home Sensor (Figure 2). Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop. Enter Component Control [012-040] and press Start. **The Set Clamp Solenoid (PL 17.8) energized.**

Y N

Press Stop. Check the circuit of the Set Clamp Solenoid (Figure 3). Refer to the OF 99-4 RAP for troubleshooting procedure.

Press Stop. Enter Component Control [12-034] and press Start to energize Eject Clamp up and then [12-032] and press Start to lower the Eject Clamp. Enter Component Control [012-041] and press Start. **The Set Clamp (PL 17.12) rotated.**

Y N

Enter Component Control [012-030] and press Start. **The Eject Motor (PL 17.8) energized.**

Y N

Press Stop. Check the circuit of the Eject Motor (Figure 4). Refer to the OF 99-9 RAP for troubleshooting procedure.

Check the following:

- Eject Roll for wear and a drive failure (PL 17.8).
- Eject Shaft for wear and a drive failure (PL 17.8).
- Each Driver Gear for wear, a drive failure, and breakage (PL 17.8).
- Belt for disengagement, breakage, and improper tension (PL 17.8).

Press Stop.

- Ensure that the connectors shown in the circuit diagrams (Figure 2, Figure 3, Figure 4) are securely connected and that the wires are not damaged.
- Replace the Set Clamp Home Sensor (PL 17.8).
- If the problem persists, replace the Finisher PWB (PL 17.13).

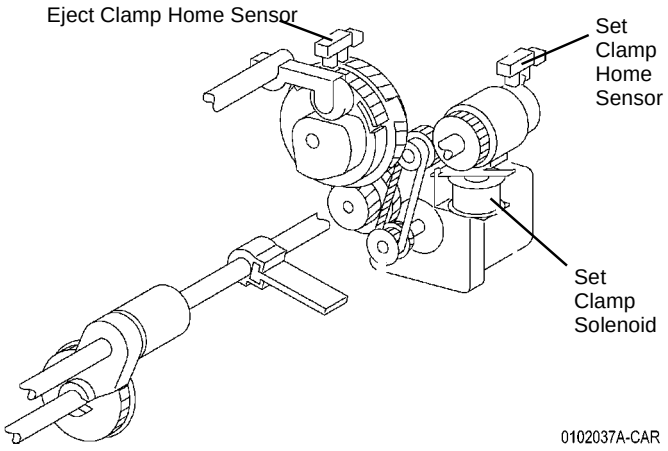


Figure 1 Component Location

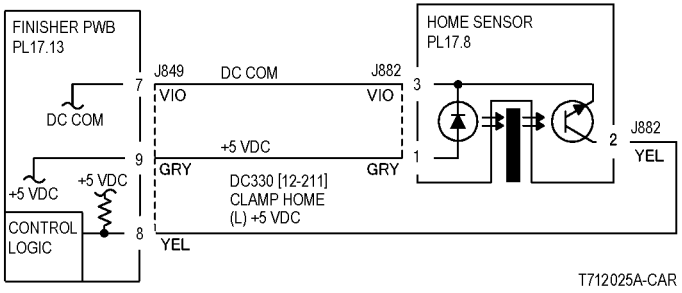


Figure 2 Set Clamp Home Sensor

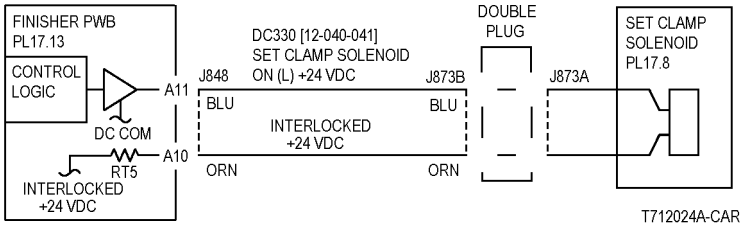


Figure 3 Set Clamp Solenoid

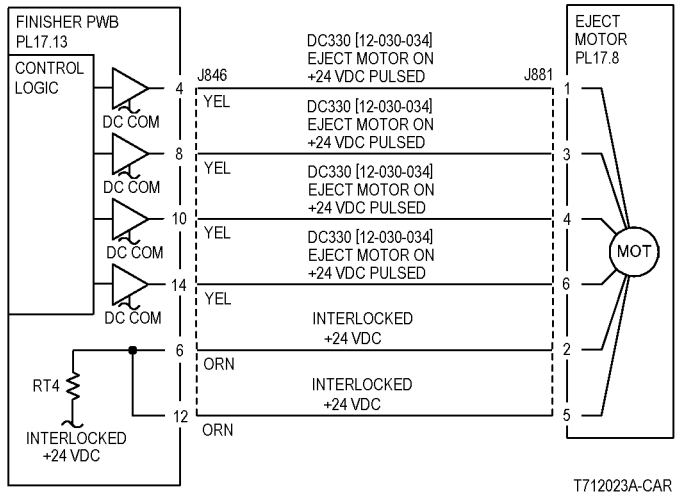


Figure 4 Eject Motor CD

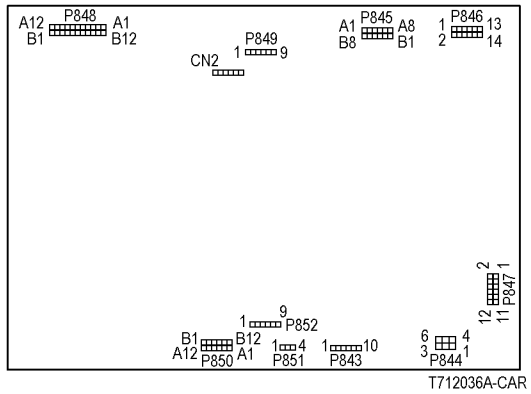


Figure 5 Finisher PWB

12-301 Top Cover Interlock (Office Finisher)

BSD-ON:12.1 Figure 1

The Top Cover Interlock is open.

Procedure

Cheat the Top Cover Interlock Switch. **12-301 is cleared.**

Y N

Disconnect P/J851 on the Finisher PWB. **+5 VDC is measured between the Finisher PWB P/J851-1 and ground.**

Y N

Replace the Finisher PWB (PL 17.13).

There is less than 5 ohms between P851-2 and the finisher metal frame.

Y N

Replace the Finisher PWB (PL 17.13).

Check the wires between the Finisher PWB P/J851 and the Top Cover Interlock Switch P/J890 for an open circuit or poor contact (Figure 2).
If the wires are good, replace the Top Cover Interlock Switch (PL 17.13).

Check the misalignment between the Top Cover and the Top Cover Interlock Switch.
Check the Top Cover for correct installation and the actuator for breakage or bending (PL 17.6).

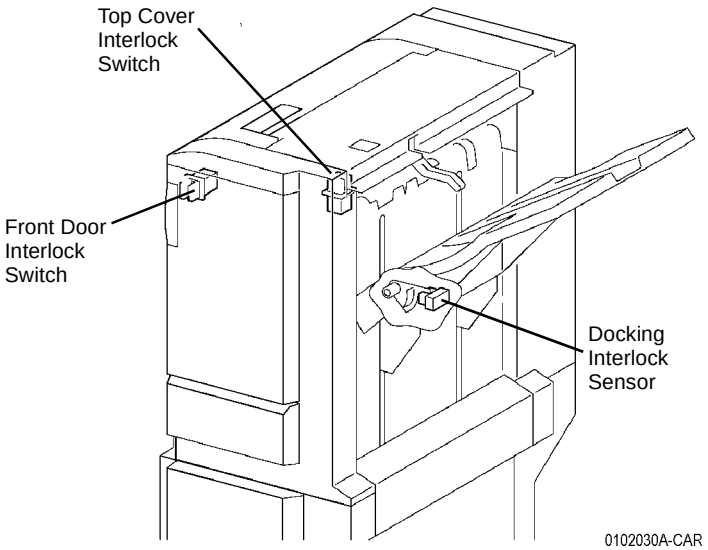


Figure 1 Component Location

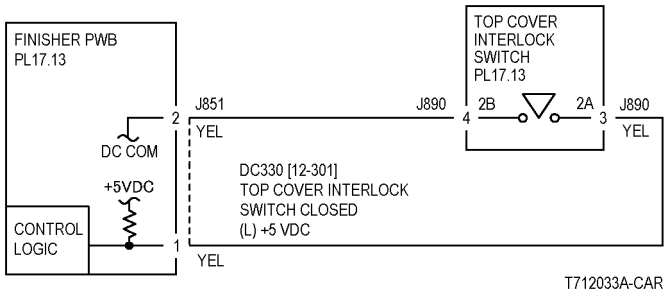


Figure 2 Top Cover Interlock Switch CD

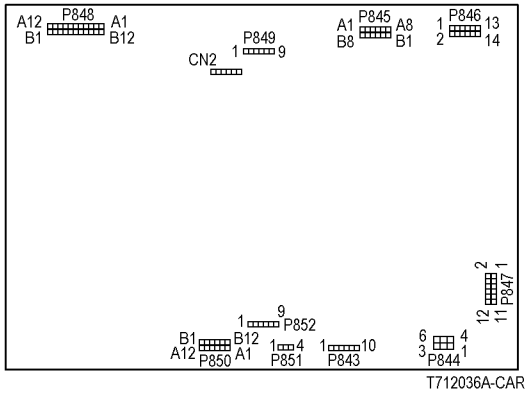


Figure 3 Finisher PWB

12-302 Front Door Interlock Open (Office Finisher)

BSD-ON:12.1 Figure 1

The Front Door Interlock is open.

Procedure

Cheat the Front Door Interlock Switch. **012-302 is cleared.**

Y N

Disconnect P/J851 on the Finisher PWB. **+5 VDC is measured between the Finisher PWB P/J851-3 and ground.**

Y N

Replace the Finisher PWB (PL 17.13).

There is less than 5 ohms between P851-4 and the finisher metal frame.

Y N

Replace the Finisher PWB (PL 17.13).

Check the wires between the Finisher PWB P/J851 and the Top Cover Interlock Switch P/J890 for an open circuit or poor contact (Figure 2).
If the wires are good, replace the Front Door Interlock Switch (PL 17.13).

Check the misalignment between the Front Door and the Front Door Interlock Switch.
Check the Front Door and Front Cover for improper installation, the Actuator for breakage and bending, and the Magnet for improper mounting.

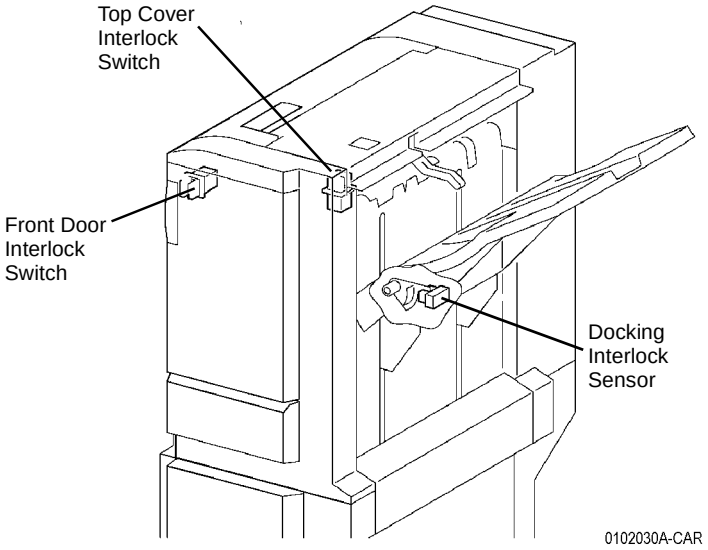


Figure 1 Component Location

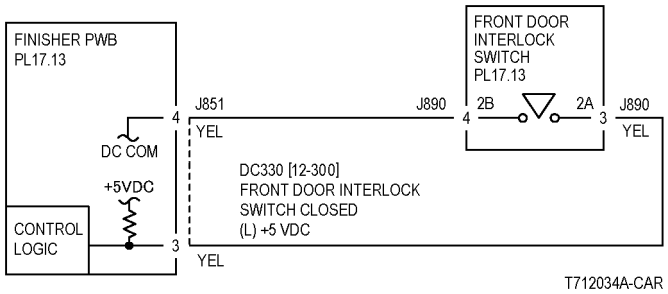


Figure 2 Front Door Interlock Switch CD

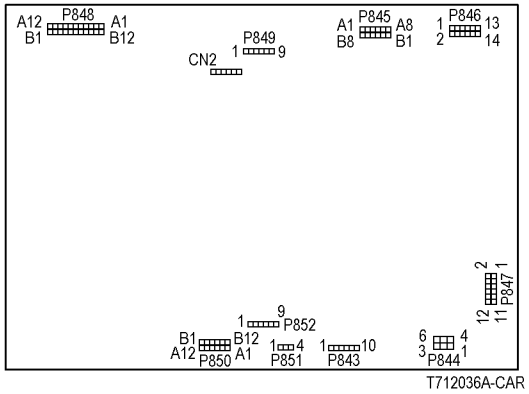


Figure 3 Finisher PWB

12-303 H Transport Interlock Open (Office Finisher)

BSD-ON:12.4 Figure 4

The H Transport Interlock Sensor detected open.

Procedure

Block the H Transport Interlock Sensor with a sheet of paper. **012-303 is cleared.**

Y N

+5 VDC is measured between the H Transport Interlock Sensor P/J853-1 and -3.

Y N

Disconnect Finisher PWB P/J845. **+5 VDC is measured between Finisher PWB P845-A1 and -A3.**

Y N

Replace the Finisher PWB (PL 17.13).

Repair the open circuit between Finisher PWB J845-A1 and -A3 and H Transport Interlock Sensor J853-1 and -3.

+5 VDC is measured between Finisher PWB P/J845-A2 and ground.

Y N

Replace the Finisher PWB (PL 17.13)

+5 VDC is measure between H Transport Interlock Sensor P/J853-2 and ground.

Y N

Check the wire between the H Transport Interlock Sensor P/J853-2 and the Finisher PWB P/J845-A2 for an open circuit or poor contact.

Replace the H Transport Interlock Sensor (PL 17.4).

Check misalignment between the H Transport Cover and the H Transport Interlock Sensor. Check the H Transport Cover for improper installation, the Actuator for breakage and bending, and the Magnet for improper mounting.

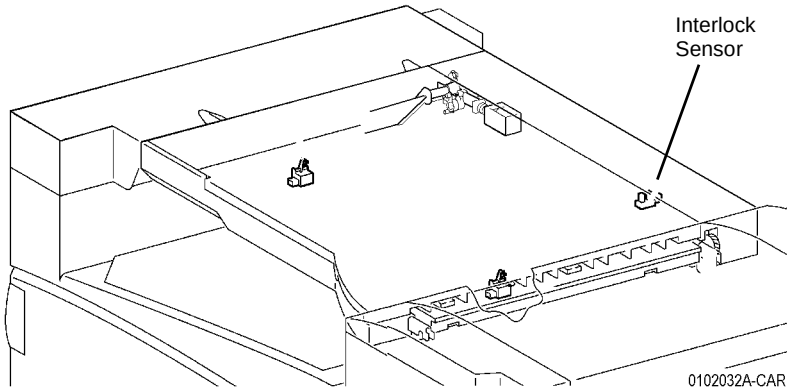


Figure 1 Component Location

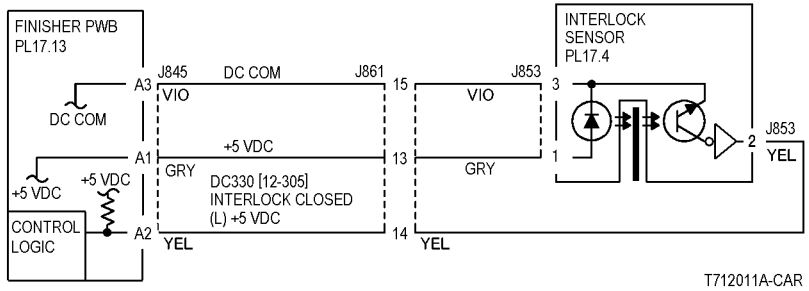


Figure 2 H Transport Interlock Sensor CD

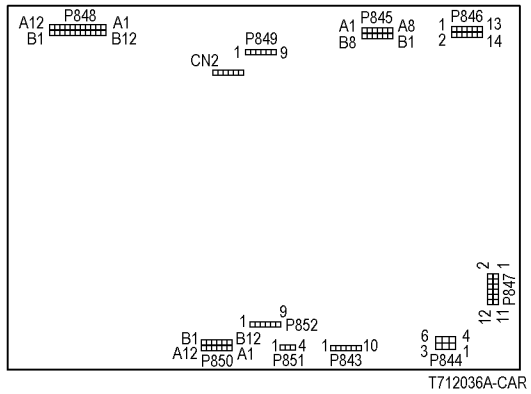


Figure 3 Finisher PWB

12-305 Docking Interlock Open (Office Finisher)

BSD-ON:12.1 Figure 1

The Docking Interlock is open.

Procedure

Block the Docking Interlock Sensor with a sheet of paper. **012-305 is cleared.**

Y N

+5 VDC is measured between the Docking Interlock Sensor P/J886-1 and -3.

Y N

Disconnect Finisher PWB P/J850. **+5 VDC is measured between Finisher PWB P850-B10 and -B12-**

Y N

Replace the Finisher PWB (PL 17.13).

Repair the open circuit between Finisher PWB J850-B10 and -B12 and Docking Interlock Sensor J866-1 and -3.

+5 VDC is measured between Finisher PWB P/J850-B11 and ground.

Y N

Replace the Finisher PWB (PL 17.13)

+5 VDC is measure between Docking Interlock Sensor P/J886-2 and ground.

Y N

Check the wire between the Docking Interlock Sensor P/J886-2 and the Finisher PWB P/J850-A2 for an open circuit or poor contact.

Replace the Docking Interlock Sensor (PL 17.13).

Mismatching between the Actuator and the Docking Interlock Sensor. Check the Sensor for improper installation, the Actuator for breakage and bending, and the Finisher and the Main Processor for the docking failure.

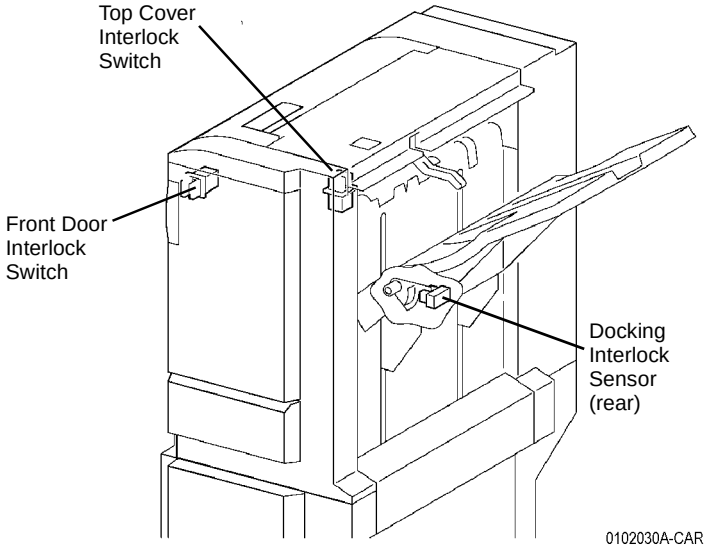


Figure 1 Component Location

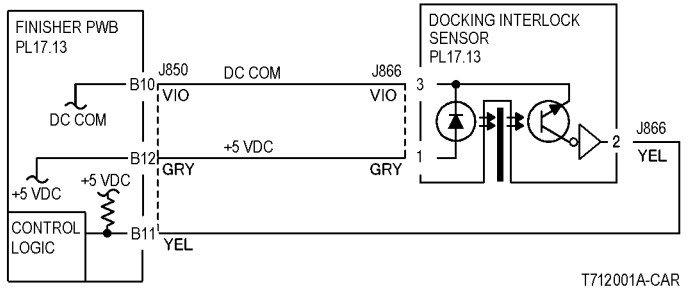


Figure 2 Docking Interlock Sensor CD

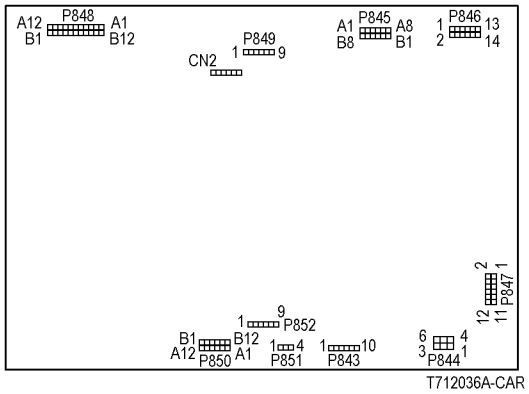


Figure 3 Finisher PWB

12-350 Finisher Communication (Office Finisher)

BSD-ON:12.2 Figure 2

Communication is not established between the MCU PWB and the Finisher PWB in Office Finisher.

Procedure

NOTE: *An IOT +5 VDC failure will cause this fault.*

There is +5 VDC on the gray wires on P/J511B of the +5VDC LVPS-2 (PL 9.1).

Y N

Go to the OF 1-2B IOT +5 VDC LVPS-2 RAP.

Switch the power off then on. **CR3 on the Finisher PWB is lit.**

Y N

+24 VDC is measured between the Finisher PWB P/J844-2 and ground.

Y N

Check the +24VDC wirenets (Figure 5) for an open circuit to P/J844 on the Finisher PWB.

Replace the Finisher PWB (PL 17.13).

Switch off the power. Check resistance of the following: (Including the I/F PWB)

- Between the MCU PWB P/J403-B13 and the Finisher PWB P/J843-3
- Between the MCU PWB P/J403-B12 and the Finisher PWB P/J843-4
- Between the MCU PWB P/J403-B15 and the Finisher PWB P/J843-1
- Between the MCU PWB P/J403-B14 and the Finisher PWB P/J843-2

The resistance is 1 Ohm or less for all wires.

Y N

Check wires with more than 1 Ohm for an open circuit or poor contact.

Replace the Finisher PWB (PL 17.13). If the problem continues, replace the MCU PWB (PL 13.1).

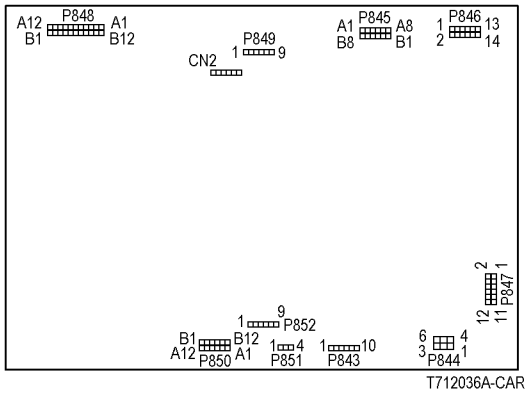


Figure 1 Finisher PWB

12-399 Staple Mode Logic (Office Finisher)

Stapling cannot be selected for the size of paper in the tray.

Procedure

Job can be reprogrammed with different staple setting or paper size.

Y **N**

Redesign Job.

Reprogram job.

12-901 Power On H Transport Entrance Sensor (Office Finisher)

BSD-ON:12.4 Figure 4

The H Transport Entrance Sensor detected a paper at power on, when all the interlock were closed, or at initialization.

Procedure

Enter Component Control [012-103] and press **Start**. Actuate the H Transport Entrance Sensor. **The display changes.**

Y N

Disconnect P/J845 from Finisher Control PWB. Measure voltage at P/J845-A4. **+5 VDC is measured.**

Y N

Replace Finisher PWB (PL 17.13).

Refer to Figure 2. Check all the wires from P/J845 to P/J854 on the H Transport Entrance Sensor for an open circuit. If the wires are good, replace the H Transport Entrance Sensor (PL 17.4).

Check that the voltage at the customer outlet is in specification and does not drop during machine start.

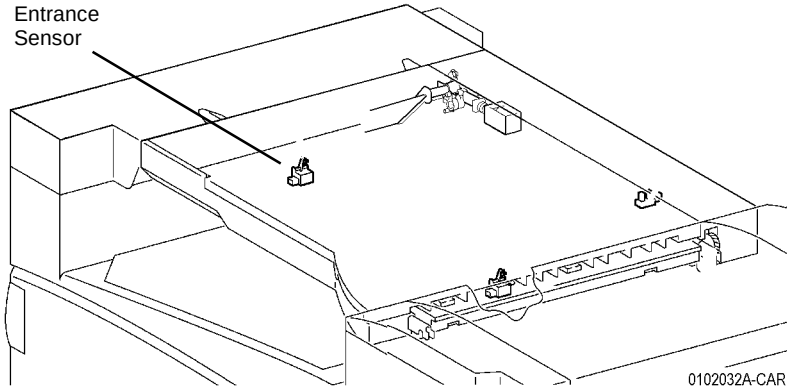


Figure 1 Component Location

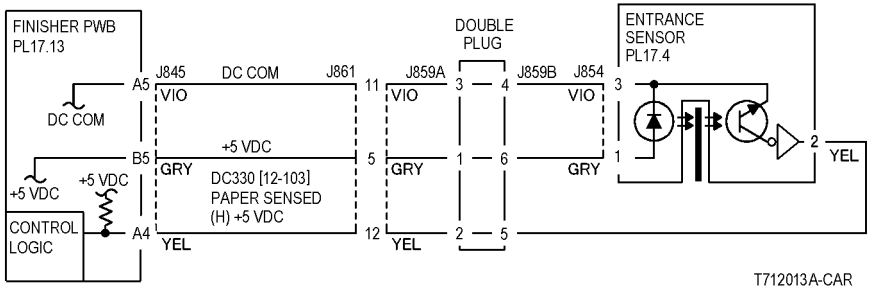


Figure 2 H Transport Entrance Sensor CD

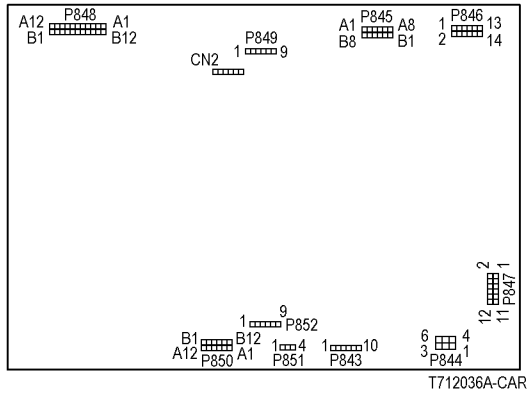


Figure 3 Finisher PWB

12-902 Power On H Transport Exit Sensor (Office Finisher)

BSD-ON:12.4 Figure 4

The H Transport Exit Sensor detected a paper at power on, when all the Interlock were closed, or at initialization.

Procedure

Enter Component Control [012-104] and press Start. Actuate the H Transport Exit Sensor. **The display changes.**

Y N

Disconnect P/J845 from Finisher Control PWB. Measure voltage at P/J845-B7. **+5 VDC is measured.**

Y N

Replace Finisher PWB (PL 17.13).

Check the wire from P/J845-B7 to P/J856-2 on the H Transport Exit Sensor for an open circuit (Figure 2). If the wire is good, replace the H Transport Exit Sensor (PL 17.4).

Check that the voltage at the customer outlet is in specification and does not drop during machine start.

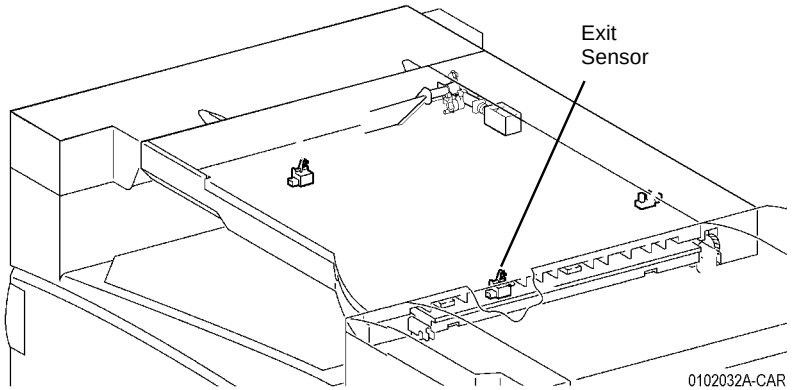


Figure 1 Component Location

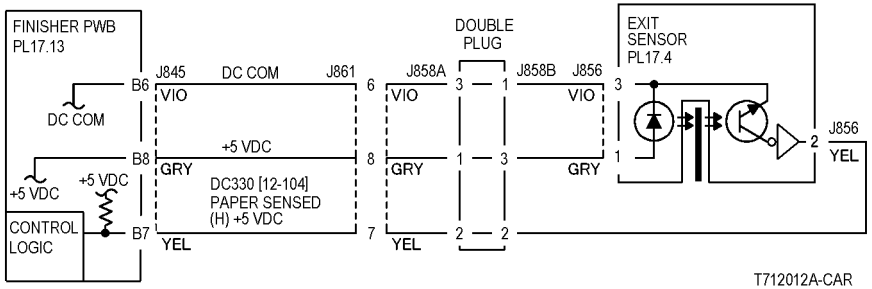


Figure 2 H Transport Exit Sensor CD

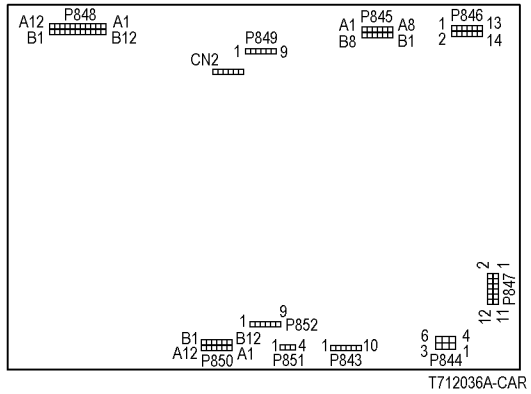


Figure 3 Finisher PWB

12-903 Power On Compiler Entrance Sensor (Office Finisher)

BSD-ON:12.5 Figure 5

The Compiler Entrance Sensor detected a paper at power on, when all the Interlocks are closed, or at initialization.

Procedure

Enter Component Control [012-101] and press Start. Actuate the Compiler Entrance Sensor. **The display changes.**

Y N

Disconnect P/J850 from Finisher Control PWB. Measure voltage at P/J850-B8. **+5 VDC is measured.**

Y N

Replace Finisher PWB (PL 17.13).

Check the wire from P/J850-B8 to P/J867-2 on the Compiler Entrance Sensor for an open circuit (Figure 2). If the wire is good, replace the Compiler Entrance Sensor (PL 17.12).

Check that the voltage at the customer outlet is in specification and does not drop during machine start.

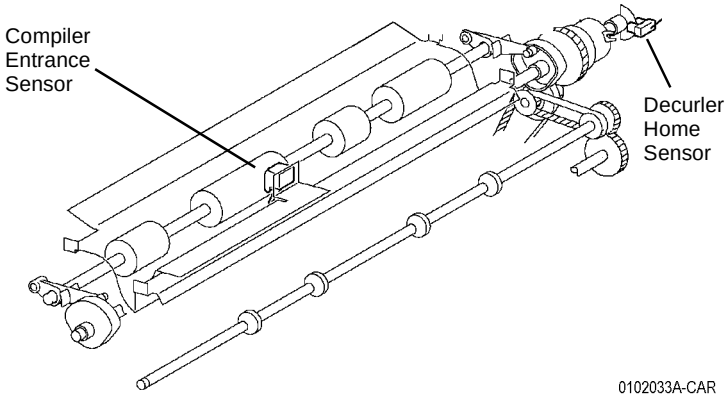


Figure 1 Component Location

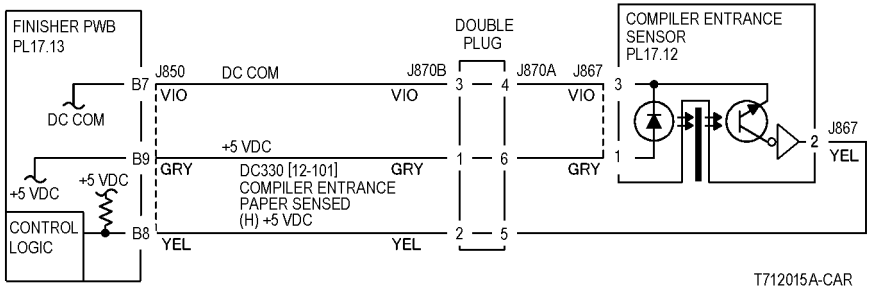


Figure 2 Compiler Entrance Sensor CD

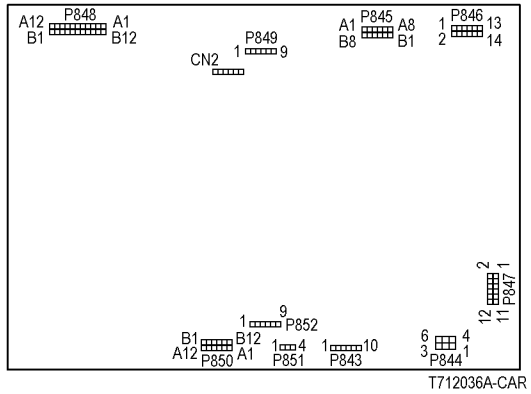


Figure 3 Finisher PWB

12-904 Power On Compiler Paper Sensor (Office Finisher)

BSD-ON:12.6 Figure 6

- The Compiler Paper Sensor continues to detect paper when the paper was output automatically due to the power on initialization.
- The Compiler Paper Sensor detected paper with no history of paper output to the Compiler Tray when all the interlocks were closed.

Procedure

Enter Component Control [012-102] and press Start. Actuate the Compiler Paper Sensor. **The display changes.**

Y N

Disconnect P/J848 from Finisher Control PWB. Measure voltage at P/J848-A5. **+5 VDC is measured.**

Y N

Replace Finisher PWB (PL 17.13).

Check the wire from P/J848-A5 to P/J875-2 on the Compiler Paper Sensor for an open circuit (Figure 2). If the wire is good, replace the Compiler Paper Sensor (PL 17.10).

Check that the voltage at the customer outlet is in specification and does not drop during machine start.

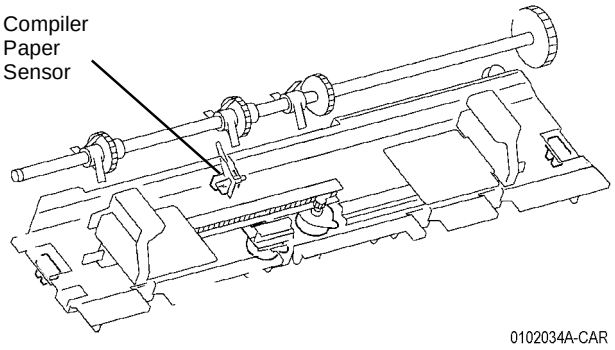


Figure 1 Component Location

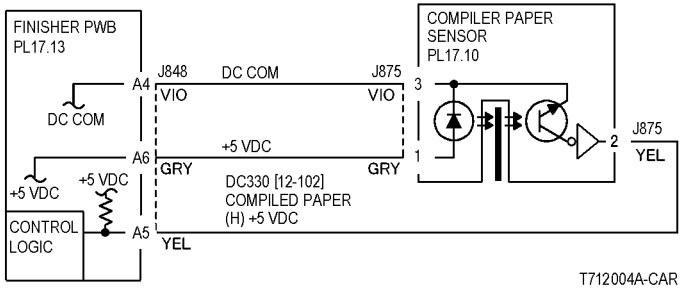


Figure 2 Compiler Paper Sensor CD

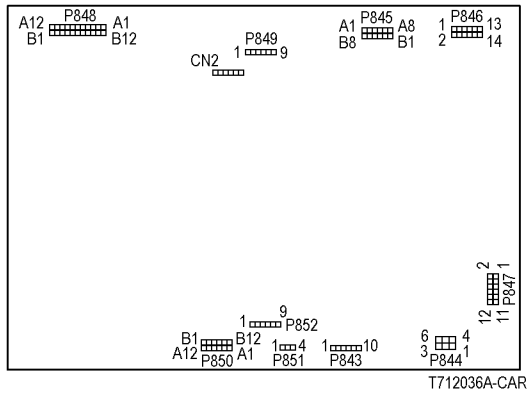


Figure 3 Finisher PWB

12-910 Staple Feed Ready (Office Finisher)

BSD-ON:12.8 Figure 8

- At the staple preparation operation at initialization, the Staple Ready Sensor does not go to ready (L) status after 13 ready attempts.
- The Stapler Ready Sensor is turned off (H) just before the Staple.

Procedure

Remove the Stapler Assembly with a connector connected (REP 12.11). Enter Component Control [012-209] and press Start. Actuate the Staple Ready Sensor. **The display changes.**

Y N

+5 VDC is measured between the Stapler Assembly P/J886-5 and ground.

Y N

+5 VDC is measured between the Finisher PWB P/J852-1 and ground.

Y N

Replace the Finisher PWB (PL 17.13).

Check the wire between the Finisher PWB P/J852-1 and the Stapler Assembly P/J886-5 for an open circuit or poor contact.

Pull out the staple cartridge. **+5 VDC is measured between the Finisher PWB P/J852-3 and ground.**

Y N

Switch off the power. Disconnect P/J852 on the Finisher PWB. Switch the power on. **+5 VDC is measured between the Finisher PWB P852-3 and ground.**

Y N

Replace the Finisher PWB (PL 17.13).

Check the circuit between the Finisher PWB P852 and the Stapler Assembly P/J for obvious damage.

If the wires are good, replace the Stapler Assembly (PL 17.9).

Replace the Finisher PWB (PL 17.13).

Restore the Staple Head to the original status and cheat the Front Interlock Switch. Position paper in stapler. Enter Component Control [012-020] and press Start. **The Staple Motor energizes.**

Y N

With [12-020] running, +24 VDC is measured between the Finisher PWB P/J847-7 and ground.

Y N

Replace the Finisher PWB (PL 17.13).

Check resistance of the following:

- Between the Finisher PWB P/J847-7 and Stapler Assembly P/J887-1
- Between the Finisher PWB P/J847-8 and Stapler Assembly P/J887-2
- Between the Finisher PWB P/J847 -9 and Stapler Assembly P/J887-3
- Between the Finisher PWB P/J847-10 and Stapler Assembly P/J887-4

If no problems are found, replace the Stapler Assembly (PL 17.9).

A

If the problem continues, replace the Finisher PWB (PL 17.13).

Switch the power off. Remove the Stapler Assembly (REP 12.11).
Rotate the Staple Motor Gear manually. **The staple needles fed.**

Y N

Replace the Stapler Assembly (PL 17.9).

Replace the Finisher PWB (PL 17.13).

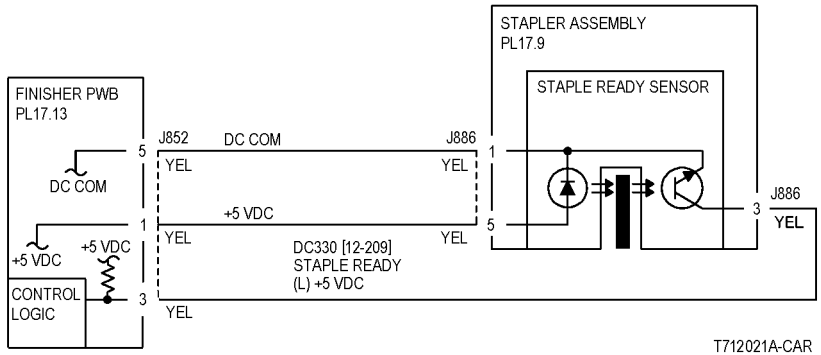


Figure 1 Staple Ready Sensor CD

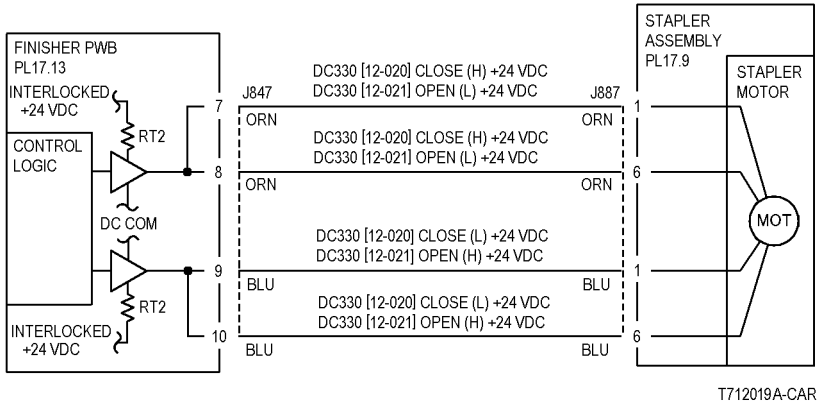


Figure 2 Staple Motor CD

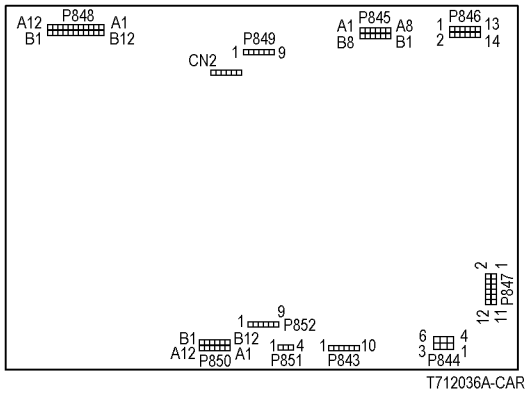


Figure 3 Finisher PWB

12-911 Stacker Lower Safety Warning (Office Finisher)

BSD-ON:12.10A Figure 10

The Height Alignment was not successful during Stacker Tray lowering while stacking.

Initial Actions

Check the Stack Height Sensor Actuator for disengagement, bending, obstruction and breakage.

Procedure

Remove paper from Stacker Tray. **The problem continues.**

Y **N**

Return to Service Call Procedures.

Enter Component Control [012-201] and press Start. Actuate the Stack Height Sensor (PL 17.6). **The display changes.**

Y **N**

Press Stop. Check the circuit of the Stack Height Sensor (Figure 2). Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop.

- Ensure that the connectors shown in the circuit diagram (Figure 2) are securely connected and that the wires are not damaged.
- Replace the Stack Height Sensor (PL 17.6).
- If the problem persists, replace the Finisher PWB (PL 17.13).

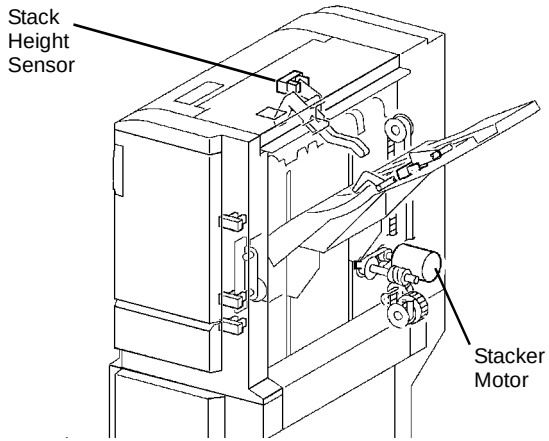


Figure 1 Component Location

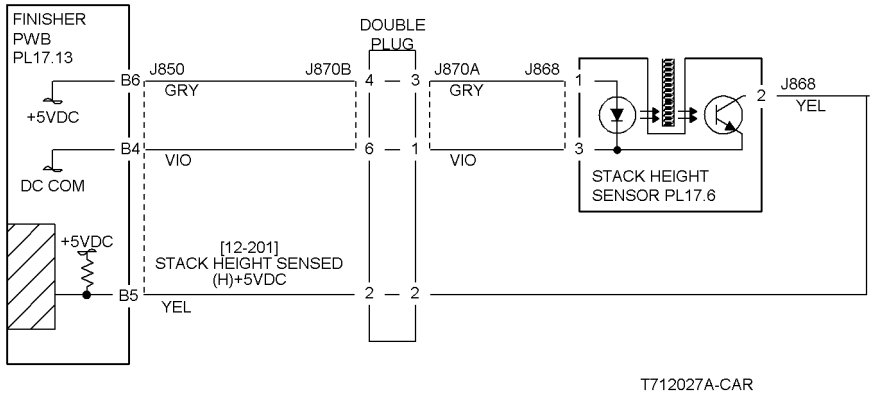


Figure 2 Stack Height Sensor CD

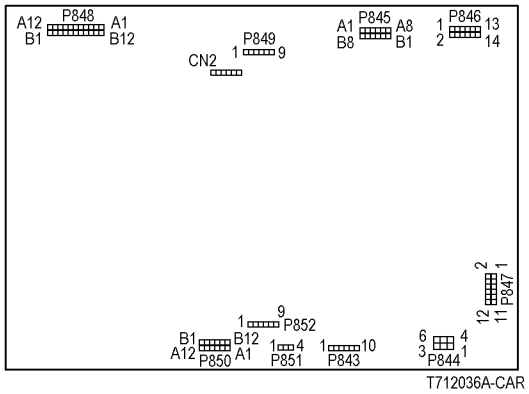


Figure 3 Finisher PWB

12-914 Stacker Tray Staple Set (Office Finisher)

BSD-ON:12.10A Figure 10

The Staple Set count of the Stacker Tray exceeded 50 sets at the Staple Set Eject operation.

Initial Actions

Check the actuator of the Stacker Paper Sensor for smooth operation (PL 17.11).

Procedure

Remove the Stapled Sets. **The problem continues.**

Y **N**

Return to Service Call Procedures.

Enter Component Control [012-200] and press Start. Actuate the Stacker Paper Sensor (Figure 2). **The display changes.**

Y **N**

Press Stop. Check the circuit of the Stacker Paper Sensor (Figure 2). Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop.

- Ensure that the connectors shown in the circuit diagram (Figure 2) are securely connected and that the wires are not damaged.
- Replace the Stacker Paper Sensor (PL 17.11).
- If the problem persists, replace the Finisher PWB (PL 17.13).

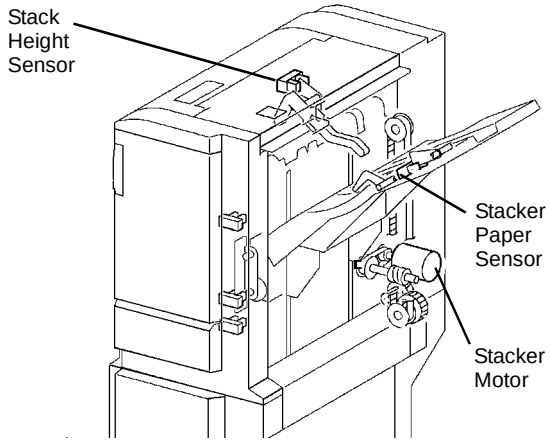


Figure 1 Component Location

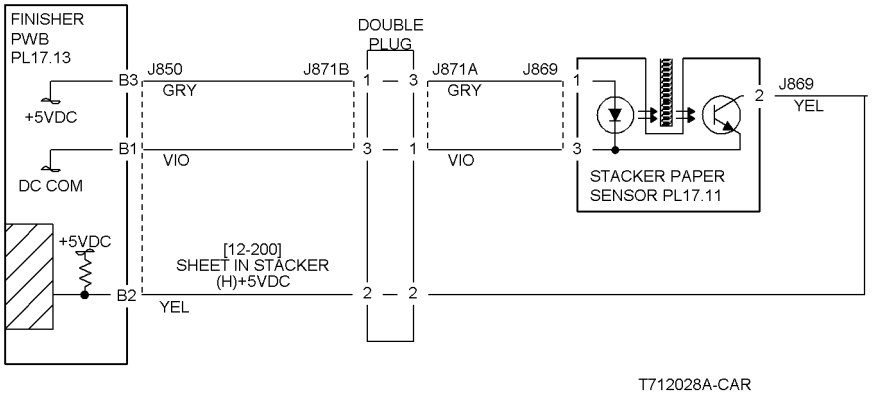


Figure 2 Stacker Paper Sensor CD

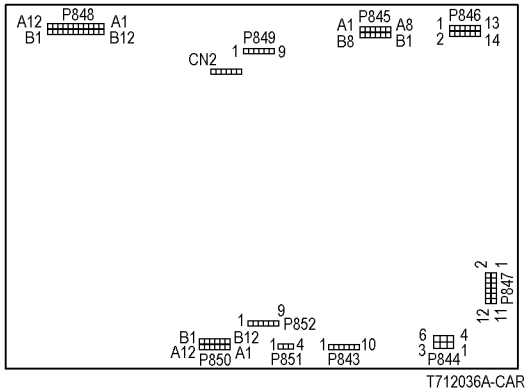


Figure 3 Finisher PWB

12-916 Stapling (Office Finisher)

BSD-ON:12.8 Figure 8

The Staple Head Home Sensor turned on by the open operation while the Sensor failed to turn on (stapling was not available due to an error) after the Staple Head began to close.

Procedure

Position paper in stapler. Enter Component Control [012-020] and press Start. **The Staple Motor energizes.**

Y N

With [12-020] running, +24 VDC is measured between the Finisher PWB P/J847-7 and ground.

Y N

Replace the Finisher PWB (PL 17.13).

Check resistance of the following:

- Between the Finisher PWB P/J847-7 and Stapler Assembly P/J887-1
- Between the Finisher PWB P/J847-8 and Stapler Assembly P/J887-2
- Between the Finisher PWB P/J847 -9 and Stapler Assembly P/J887-3
- Between the Finisher PWB P/J847-10 and Stapler Assembly P/J887-4

If no problems are found, replace the Stapler Assembly (PL 17.9).
If the problem continues, replace the Finisher PWB (PL 17.13).

Turn the gear of the Staple Motor manually to drive the Actuator to block the Staple Head Home Sensor. **+5 VDC is measured between the Finisher PWB P/J852-2 and ground.**

Y N

Replace the Finisher PWB (PL 17.13).

+5 VDC is measured between the Staple Head P/J886-4 and ground.

Y N

Check the wire between the Staple Head P/J886-4 and the Finisher PWB P/J852-2 for an open circuit or poor contact.

Check resistance of the following:

- Between the Finisher PWB P/J852-1 and the Staple Head P/J886-5
- Between the Finisher PWB P/J852-5 and the Staple Head P/J886-1

Resistance is 1 Ohm or less for both wires.

Y N

Repair wires with more than 1 Ohm for an open circuit or poor contact.

Replace the Stapler Assembly (PL 17.9).
If the problem continues, replace the Finisher PWB (PL 17.13).

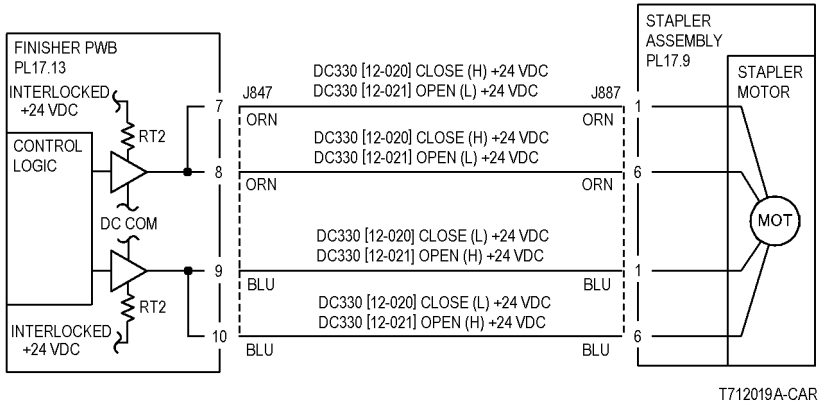


Figure 1 Stapler Motor CD

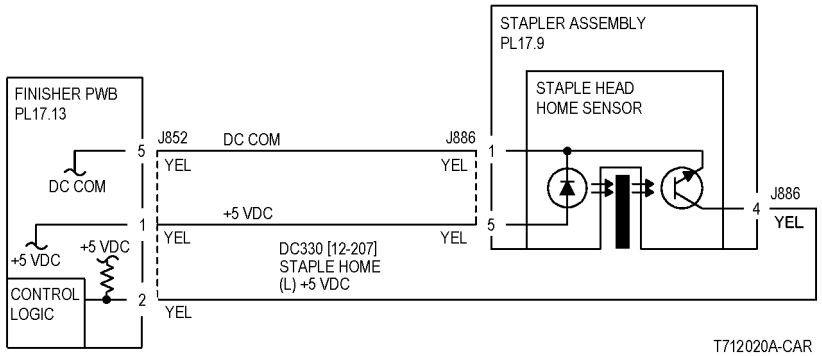


Figure 2 Staple Head Home Sensor

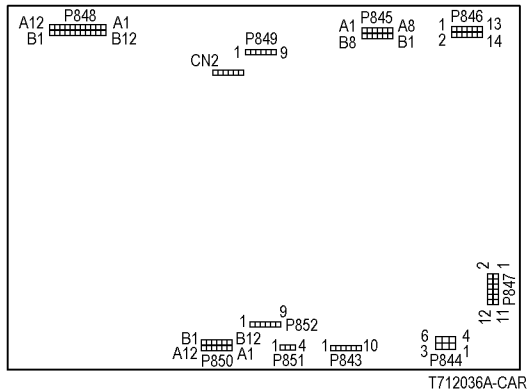


Figure 3 Finisher PWB

12-939 Output Error (Office Finisher)

BSD-ON:12.2 Figure 2

Finisher is not available.

Procedure

There is a problem with the communication circuit between the IOT and Finisher. Check the wires for an open circuit.

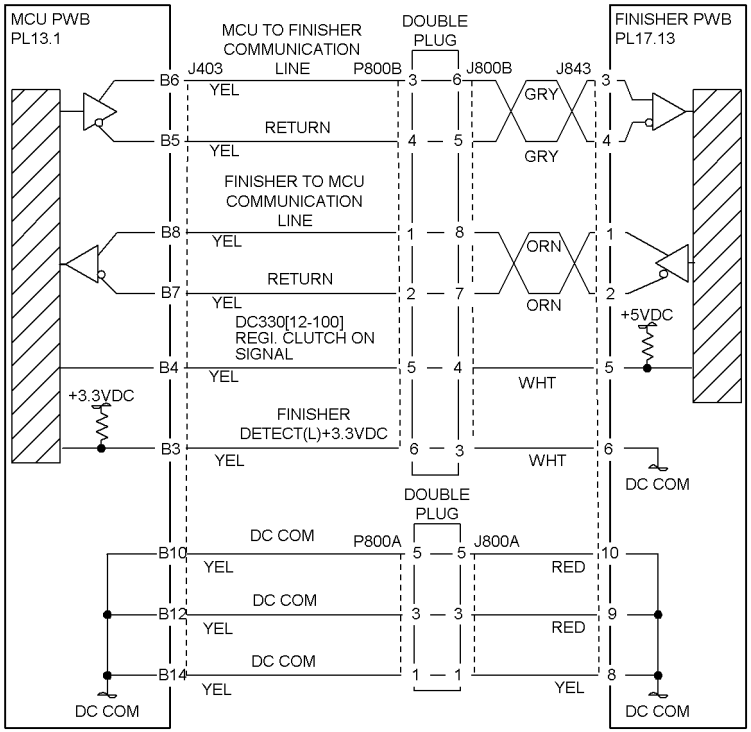


Figure 1 Finisher Communications CD

12-960 Stacker Tray Full Stack (Office Finisher)

BSD-ON:12.10B Figure 11

- The system detected small size paper full during the Stacker Tray Height Adjustment operation during lowering.
- The system detected small size paper full during the Stacker Tray Height Adjustment operation (during lowering down) when the large size paper is ejected.
- The large size paper was ejected while the system already detected large size paper full (half).

Procedure

Remove the Finisher Front Cover. Enter Component Control [012-204] and press Start. Actuate the Stack A Sensor. **The display changes.**

Y N

Press Stop. Check the circuit of the Stack A Sensor (Figure 2). Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop. Enter Component Control [012-205] and press Start. Actuate the Stack B Sensor. **The display changes.**

Y N

Press Stop. Check the circuit of the Stack B Sensor (Figure 3). Refer to the OF 99-2 RAP for troubleshooting procedure.

Enter Component Control [012-200] and press Start. Actuate the Stacker Paper Sensor. **The display changes.**

Y N

Press Stop. Check the circuit of the Stacker Paper Sensor (Figure 4). Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop. Rotate the Stacker Motor Drive Pulley manually by turning the Stacker Drive Motor Drive Gear (PL 17.11). **The pulley rotates smoothly.**

Y N

Check the following and repair the Stacker Drives as required (PL 17.11).

- Stacker Motor Gear for wear and damage.
- Stacker Tray for dragging and incorrect installation.
- Stacker Elevator Belt/rack/gear for wear and damage.

Disconnect Stacker Motor P/J889. Measure the resistance between pin 1 and pin 2 of the motor connector. **Between 12 to 40 ohms is measured while the pulley is rotated manually.**

Y N

Replace the Stacker Motor (PL 17.11).

- Ensure that the connectors shown in the circuit diagrams (Figure 2, Figure 3, Figure 4, Figure 5) are securely connected and that the wires are not damaged.
- If the problem persists, replace Finisher PWB (PL 17.13).

NOTE: *The large white Stacker Drive Pulley can be pulled out to release the Stacker Drives to free the Stacker Tray (REP 12.20).*

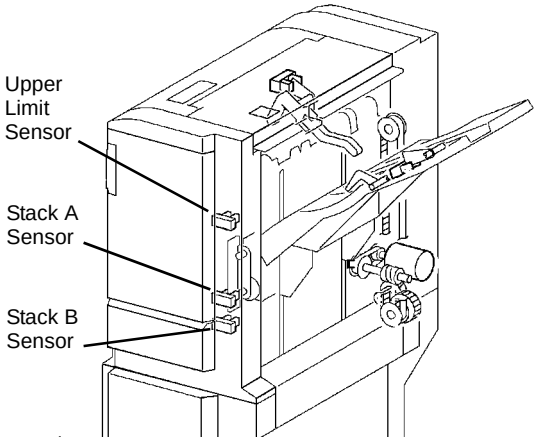


Figure 1 Component Location

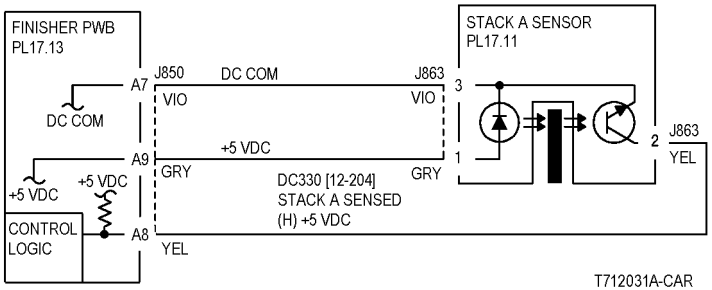


Figure 2 Stack A Sensor CD

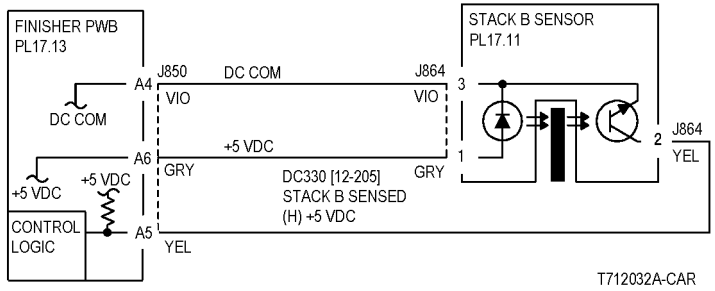


Figure 3 Stack B Sensor CD

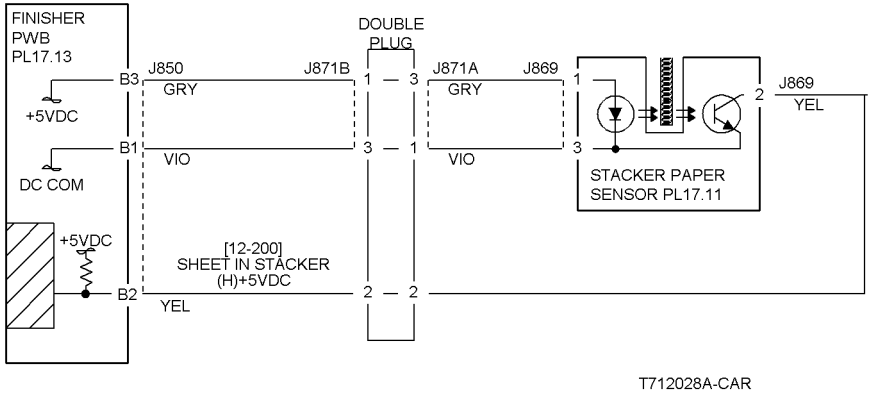


Figure 4 Stacker Paper Sensor CD

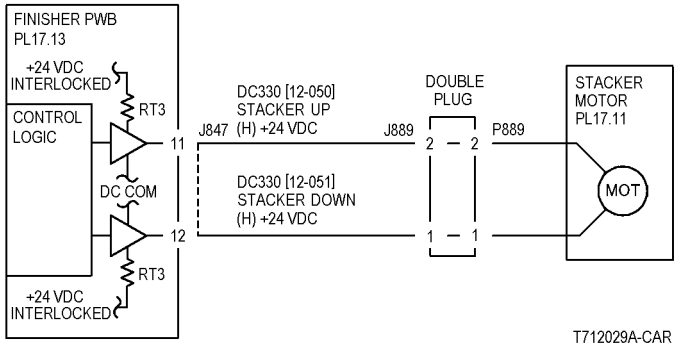


Figure 5 Stacker Motor CD

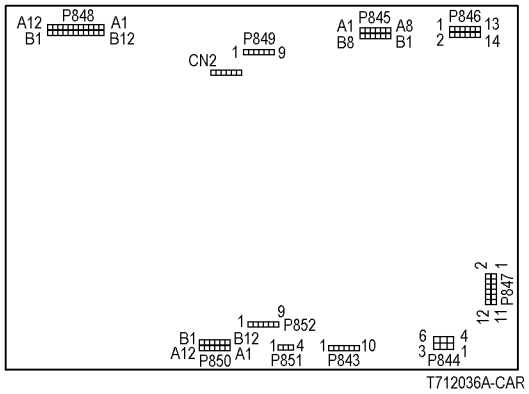


Figure 6 Finisher PWB

12-961 Mix Full Stack (Office Finisher)

BSD-ON:12.10B Figure 11

- Compared to the maximum paper size that was loaded at the previous job, the paper size (either feed direction or width direction) of the next job is bigger.
- Staple mode has been changed while the width of the maximum paper size that was loaded at the previous job is less than 279.4mm.
- The maximum paper size that was loaded at the previous job is unknown.

Procedure

Remove the Finisher Front Cover. Enter Component Control [012-204] and press Start. Actuate the Stack A Sensor. **The display changes.**

Y N

Press Stop. Check the circuit of the Stack A Sensor (Figure 2). Refer to the OF 99-2 RAP for troubleshooting procedure.

Enter Component Control [012-205] and press Start. Actuate the Stack B Sensor. **The display changes.**

Y N

Press Stop. Check the circuit of the Stack B Sensor (Figure 3). Refer to the OF 99-2 RAP for troubleshooting procedure.

Enter Component Control [012-200] and press Start. Actuate the Stacker Paper Sensor. **The display changes.**

Y N

Press Stop. Check the circuit of the Stacker Paper Sensor (Figure 4). Refer to the OF 99-2 RAP for troubleshooting procedure.

Press Stop. Rotate the Stacker Motor Drive Pulley manually by turning the Stacker Drive Motor Drive Gear (PL 17.11). **The pulley rotates smoothly.**

Y N

Check the following and repair the Stacker Drives as required (PL 17.11).

- Stacker Motor Gear for wear and damage.
- Stacker Tray for dragging and incorrect installation.
- Stacker Elevator Belt/rack/gear for wear and damage.

Disconnect Stacker Motor P/J889. Measure the resistance between pin 1 and pin 2 of the motor connector. **Between 12 to 40 ohms is measured while the pulley is rotated manually.**

Y N

Replace the Stacker Motor (PL 17.11).

- Ensure that the connectors shown in the circuit diagrams (Figure 2, Figure 3, Figure 4, Figure 5) are securely connected and that the wires are not damaged.
- If the problem persists, replace Finisher PWB (PL 17.13).

NOTE: *The large white Stacker Drive Pulley can be pulled out to release the Stacker Drives to free the Stacker Tray (REP 12.20).*

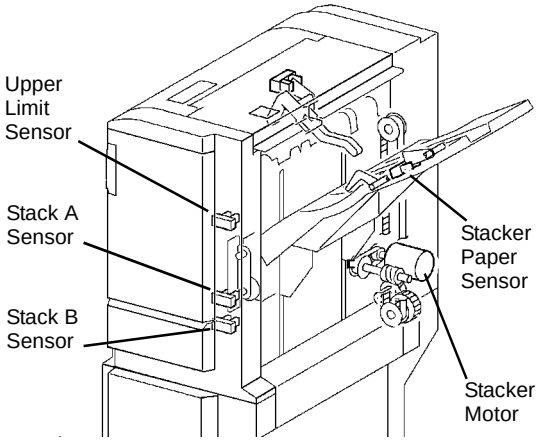


Figure 1 Component Location

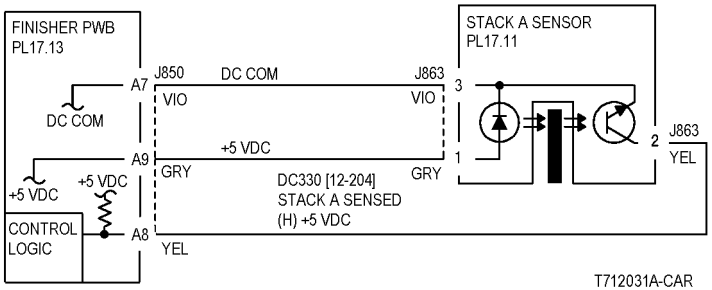


Figure 2 Stack A Sensor CD

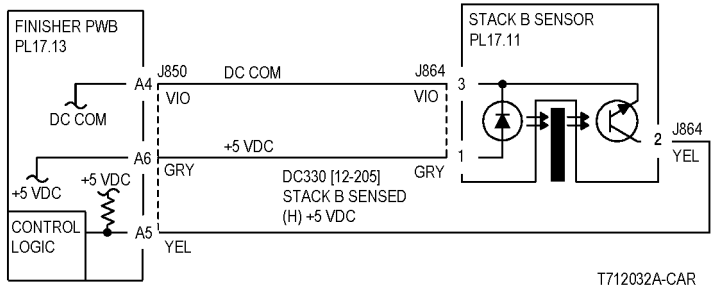


Figure 3 Stack B Sensor CD

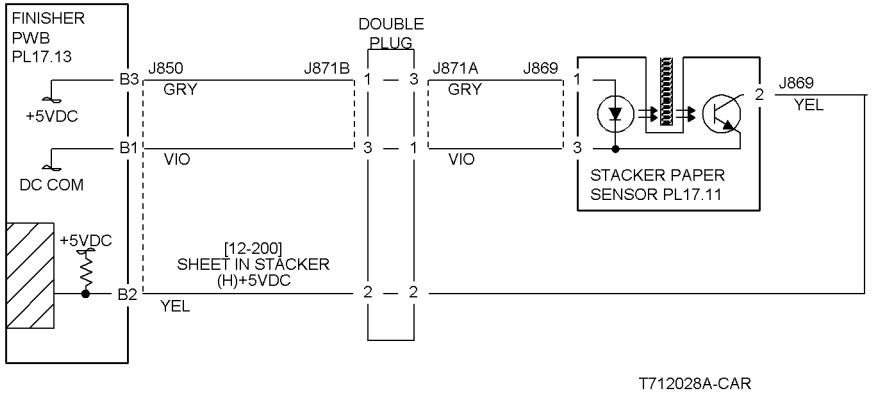


Figure 4 Stacker Paper Sensor CD

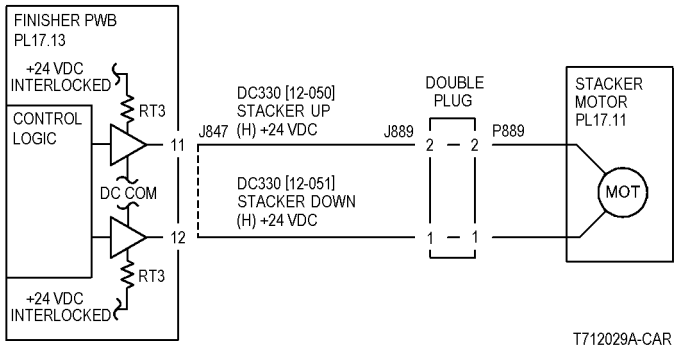


Figure 5 Stacker Motor CD

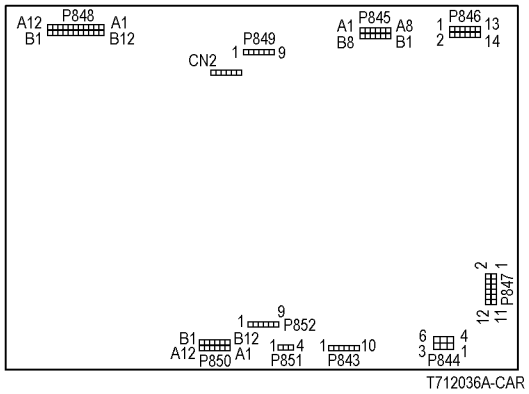


Figure 6 Finisher PWB

12-965 Staple Near Empty (Office Finisher)

BSD-ON:12.8 Figure 8

- The Low Staple Switch detected Low Staple at Power On and Interlock Close.
- The Low Staple Switch detected Low Staple at Staple Head Close.

Procedure

Install a new Staple Cartridge loaded with staples. **+5VDC measured between the Finisher PWB P/J852-4 and ground.**

Y N

Replace the Finisher PWB (PL 17.13).

+5VDC measured between the Stapler Assembly P/J886-2 and ground).

Y N

Check the wire between the Stapler Assembly P/J886 and the Finisher PWB P/J852 for an open circuit or poor contact.

Check the wire between the Stapler Assembly P/J886 and the Finisher PWB P/J852 for an open circuit or poor contact.
If no problems are found, replace the Stapler Assembly (PL 17.9).
If the problem continues, replace the Finisher PWB (PL 17.13).

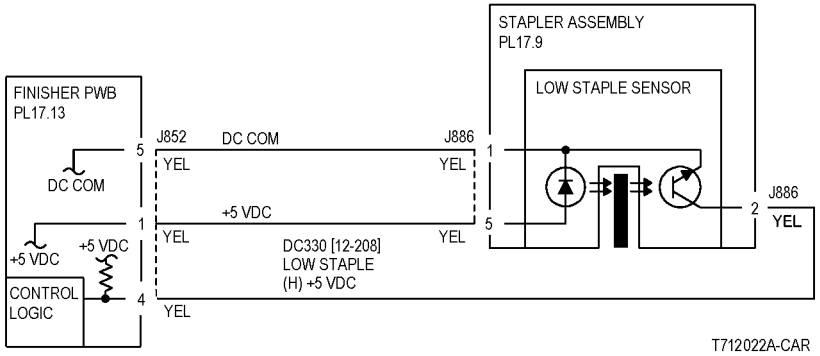


Figure 1 Low Staple Sensor CD

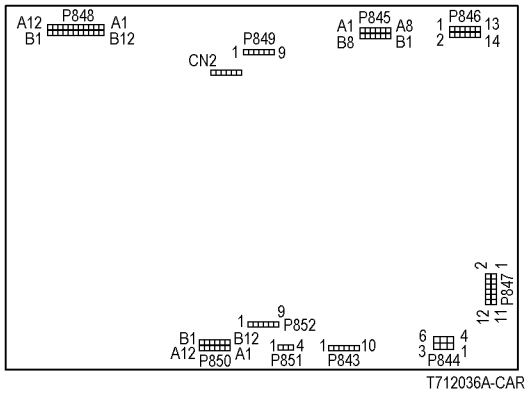


Figure 2 Finisher PWB

12-966 Scratch Sheet Compile (Office Finisher)

Paper is output to the compiler that is not part of a print or copy job.

Procedure

Clear the sheets in the Stacker Tray. **The problem continues.**

Y **N**

Return to service call procedures.

Rerun the job. If the problem continues, replace the Finisher PWB (PL 17.13).

12-969 IOT Top Tray Full (Office Finisher)

BSD-ON:12.3 Figure 3

The Top Tray Full Sensor has detected full status for 10 sec.

Procedure

Enter Component Control [012-215] and press Start. Position paper near the Top Tray Full Sensor, then move paper away. **The display changes.**

Y N

Press Stop. Check the circuit of the Top Tray Full Sensor (Figure 2). Refer to the OF 99-1 RAP for troubleshooting procedure.

Press Stop.

- Ensure that the connectors shown in the circuit diagram (Figure 2) are securely connected and that the wires are not damaged.
- Replace the Top Tray Full Sensor (PL 17.4)
- If the problem persists, replace the Finisher PWB (PL 17.13).

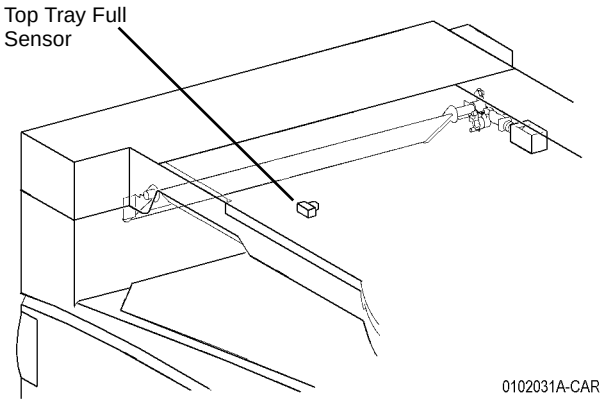


Figure 1 Component Location

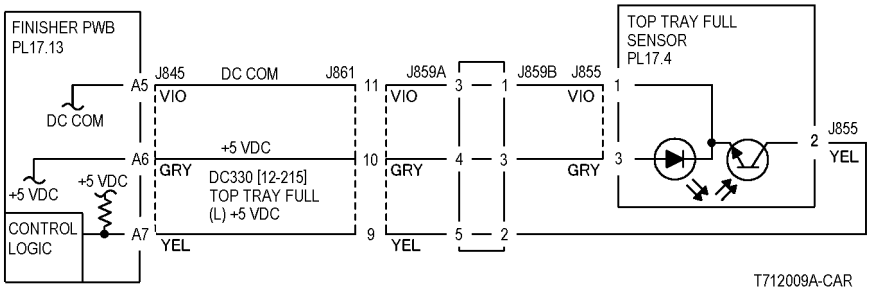


Figure 2 Top Tray Full Sensor CD

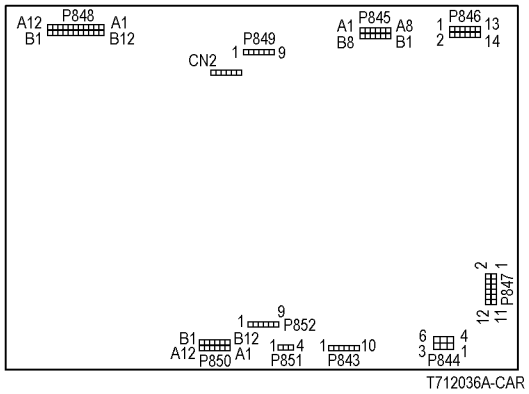


Figure 3 Finisher PWB

012-112 H-Transport Entrance Sensor On Jam (A/P Finishers)

H-Transport Entrance Sensor is not turned on within a specified time.

Initial Actions

- Check for obstructions in the paper path
- Check the H-Transport Drive Motor Belt for wear or damage
- Check the Guides on the H-Transport Cover for damage, wear or faulty installation

Procedure

Enter Component Control [014-190], H-Transport Entrance Sensor (PL 21.25). Select Start. Open the H-Transport Cover and actuate the H Transport Entrance Sensor. **The display changes.**

Y N

Go to Figure 1. Check the circuit of the H-Transport Entrance Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Select [014-090], H-Transport Drive Motor (PL 21.26). Select Start. **The motor energizes.**

Y N

Select Stop. Go to Figure 1. Check the circuit of the H-Transport Drive Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Select Stop. Close the H-Transport Cover. Select [014-086] or [014-087], Gate Solenoid (PL 21.25). Select Start. **The Gate Solenoid actuates.**

Y N

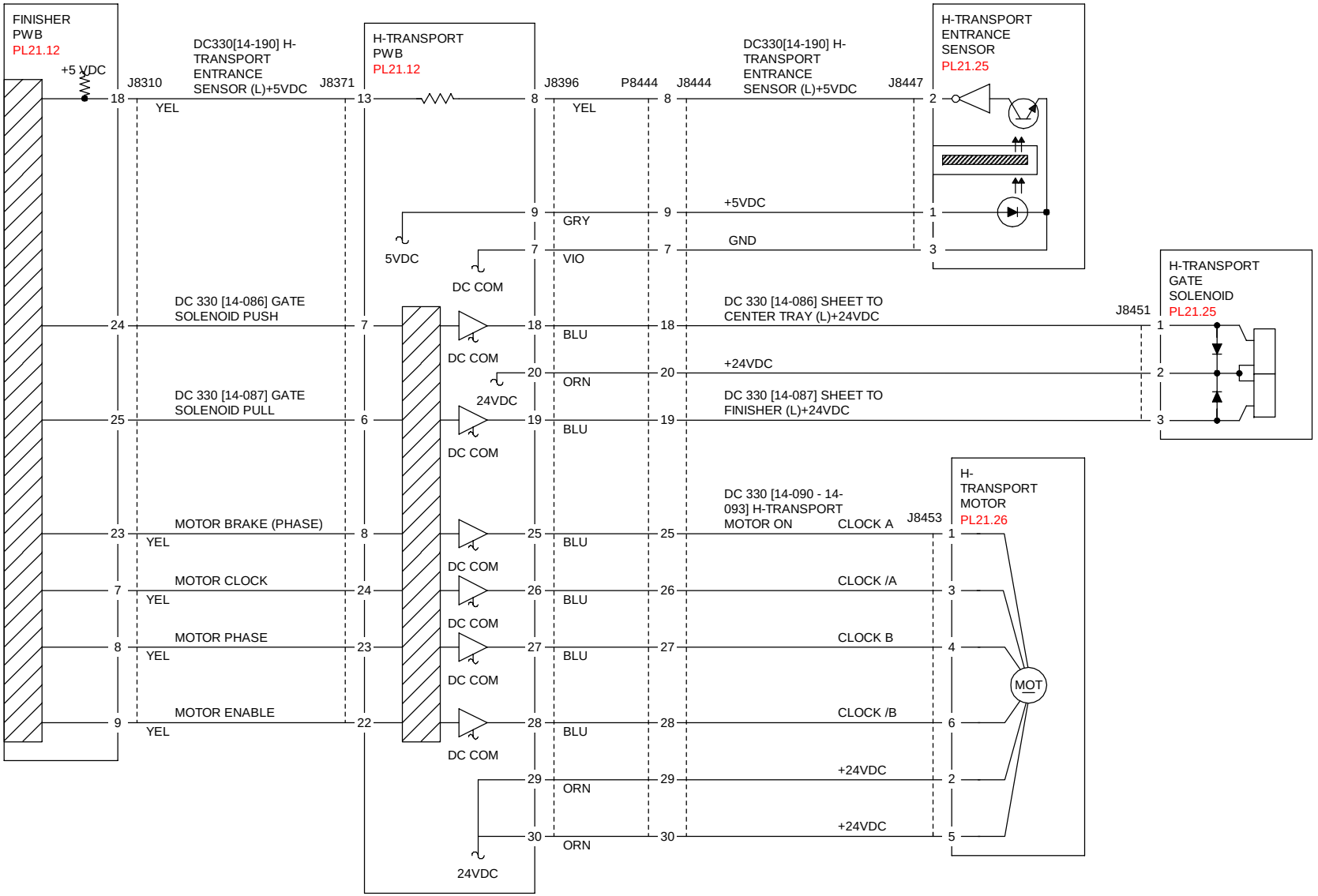
Select Stop. Go to Figure 1. Check the circuit of the Gate Solenoid. Refer to the OF 99-8 RAP for troubleshooting procedure.

Select Stop.

Check the following:

- Ensure that the connectors shown in the circuit diagrams are securely connected and that the wires are not damaged.
- Check the H-Transport Motor and its associated gears and belts for damage, contamination or misalignment.
- Remove the Bumpers from baffle in Horizontal Transport and verify operation (PL 21.27) (Figure 2).

If the above checks are OK, then replace the H-Transport Entrance Sensor (PL 21.25). If the problem persists, replace the Finisher PWB (PL 21.12).



T712100A-COP.VSD.

Figure 1 H-Transport Entrance

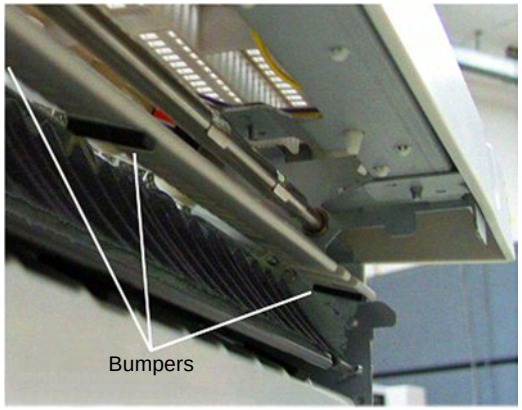


Figure 2 Bumpers

012-113 Booklet In Sensor On Jam (A/P Finishers)

The Booklet In Sensor did not turn on within the specified time after Punch Out Sensor ON.

Initial Actions

- Check for obstructions in the paper path
- Check that the Finisher is dock correctly to ensure proper Transport Gate operation
- Check the Booklet In Sensor for obstructions (PL 21.21)
- Check for transportation failure of non-standard paper
- Check the Booklet In Roll for wear or damage

Procedure

Enter Component Control [013-135], Booklet In Sensor (PL 21.21). Select Start. Actuate the Booklet In Sensor. **The display changes.**

Y N

Go to Figure 1. Check the circuit of the Booklet In Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Select [013-068] and/or [013-069], Booklet Gate Solenoid (PL 21.21). Select Start. **The Booklet Gate Solenoid actuates.**

Y N

Select Stop. Go to Figure 1. Check the circuit of the Booklet Gate Solenoid. Refer to the OF 99-8 RAP for troubleshooting procedure.

Select [014-001], Finisher Transport Motor (PL 21.10). Select Start. **The motor energizes.**

Y N

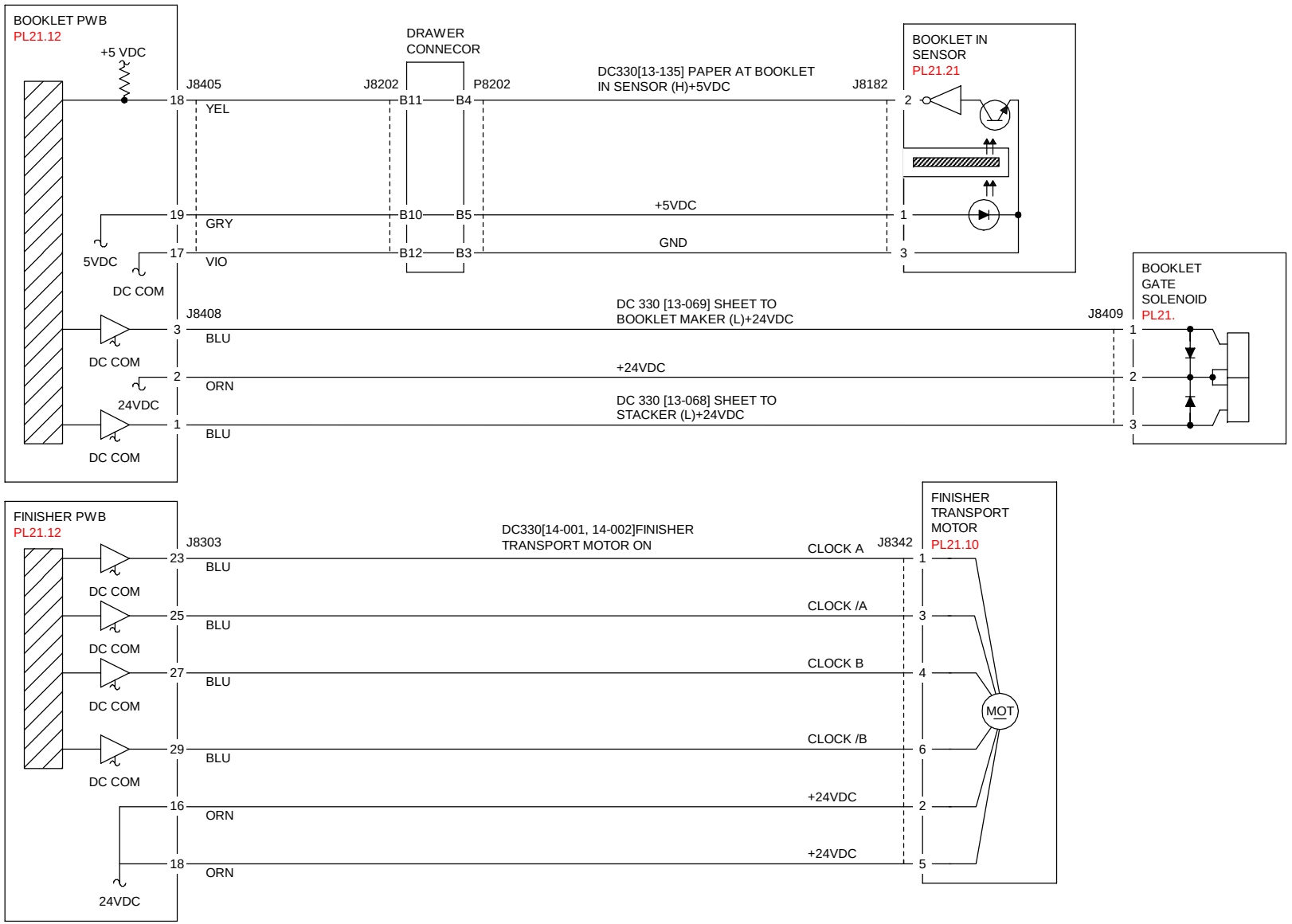
Select Stop. Go to Figure 1. Check the circuit of the Finisher Transport Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Select Stop.

Check the following:

- Ensure that the connectors shown in the circuit diagrams are securely connected and that the wires are not damaged
- Check the H-Transport Motor and its associated gears and belts for damage, contamination or alignment
- Check the Finisher Transport Motor and its associated gears and belts for damage, contamination or alignment

If the above checks are OK, then replace the Booklet In Sensor (PL 21.25). If the problem persists, replace the Finisher PWB (PL 21.12).



T712105A-COP.VSD.

Figure 1 Booklet Entrance

012-114 Booklet In Sensor OFF Jam (A/P Finishers)

The Booklet In Sensor did not turn off within the specified time.

Initial Actions

- Check for obstructions in the paper path
- Check that the Finisher is dock correctly to ensure proper Transport Gate operation
- Check the Booklet In Sensor for obstructions (PL 21.21)
- Check for transportation failure of non-standard paper
- Check the Booklet In Roll for wear or damage

Procedure

Enter Component Control [013-135], Booklet In Sensor (PL 21.21). Select Start. Actuate the Booklet In Sensor. **The display changes.**

Y **N**

Go to Figure 1. Check the circuit of the Booklet In Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Select [013-068] and/or [013-069], Booklet Gate Solenoid (PL 21.21). Select Start. **The Booklet Gate Solenoid actuates.**

Y **N**

Select Stop. Go to Figure 1. Check the circuit of the Booklet Gate Solenoid. Refer to the OF 99-8 RAP for troubleshooting procedure.

Select [013-064], Booklet Paper Path Motor (PL 21.22). Select Start. **The motor energizes.**

Y **N**

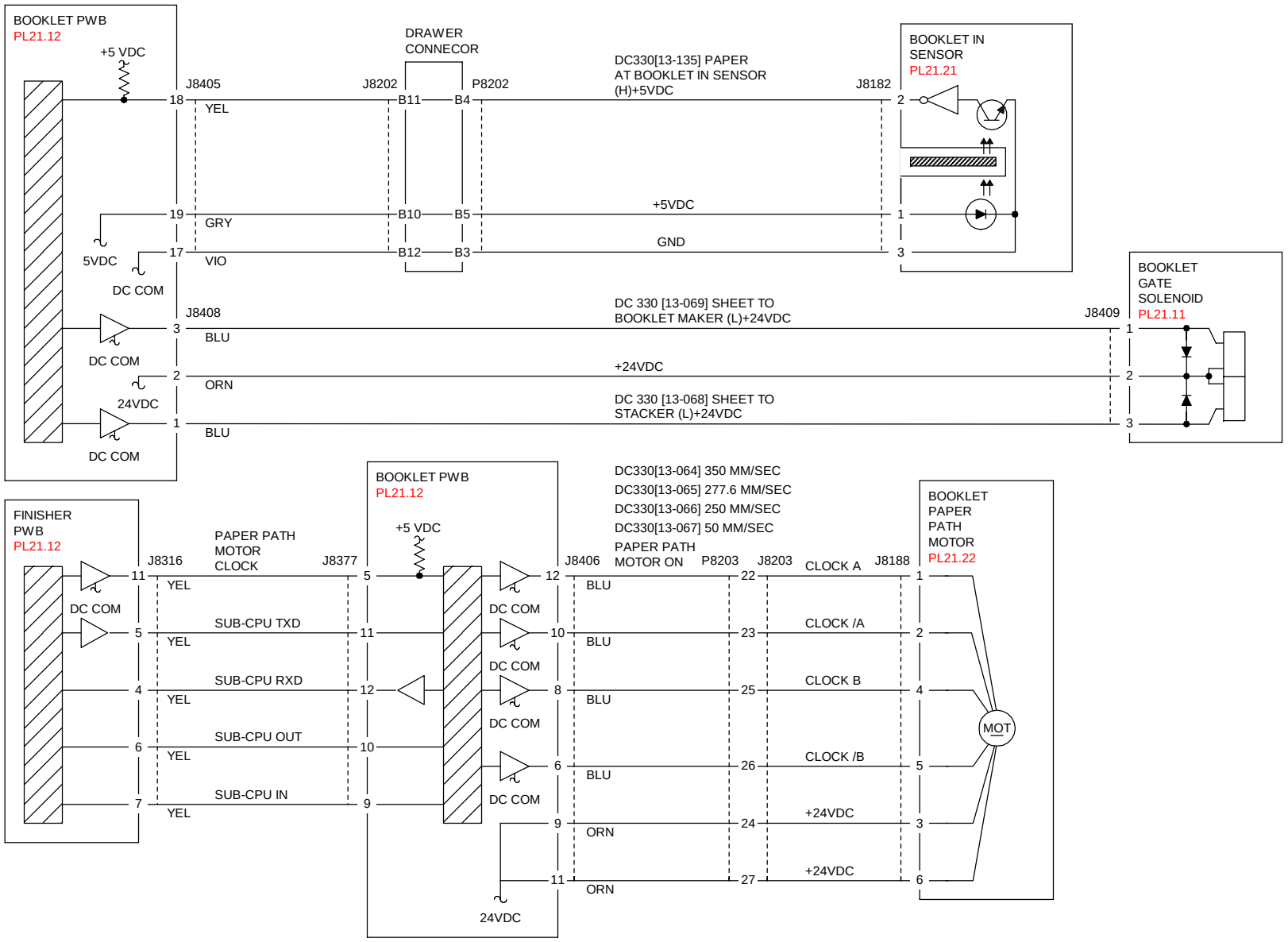
Select Stop. Go to Figure 1. Check the circuit of the Booklet Paper Path Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Select Stop.

Check the following:

- Ensure that the connectors shown in the circuit diagrams are securely connected and that the wires are not damaged
- Check the H-Transport Motor and its associated gears and belts for damage, contamination or alignment
- Check the Booklet Paper Path Motor and its associated gears and belts for damage, contamination or alignment

If the above checks are OK, then replace the Booklet In Sensor (PL 21.25). If the problem persists, replace the Finisher PWB (PL 21.12).



T712136A-COP.VSD.

Figure 1 Booklet Paper Path

012-115 Booklet Folder Roll Exit Sensor On Jam (A/P Finishers)

Booklet Folder Roll Exit Sensor is not turned off within a specified time.

Initial Actions

- Check for obstructions in the paper path
- Check that the Finisher is dock correctly to ensure proper Transport Gate operation
- Check the Booklet Folder Roll Exit Sensor for obstructions (PL 21.21)
- Check for transportation failure of non-standard paper
- Check the Booklet Folding Roll for wear or damage
- Check the Booklet Eject Roll Drive rolls for wear or damage

Procedure

Enter Component Control [013-103], Booklet Folder Roll Exit Sensor (PL 21.21). Select Start. Actuate the Booklet Folder Roll Exit Sensor. **The display changes.**

Y N

Go to Figure 1. Check the circuit of the Booklet Folder Roll Exit Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Select [013-064], Booklet Paper Path Motor (PL 21.22). Select Start. **The motor energizes.**

Y N

Select Stop. Go to Figure 1. Check the circuit of the Booklet Paper Path Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Select Stop. Select [013-064], Booklet Folder Roll Motor (PL 21.22). Select Start. **The motor energizes.**

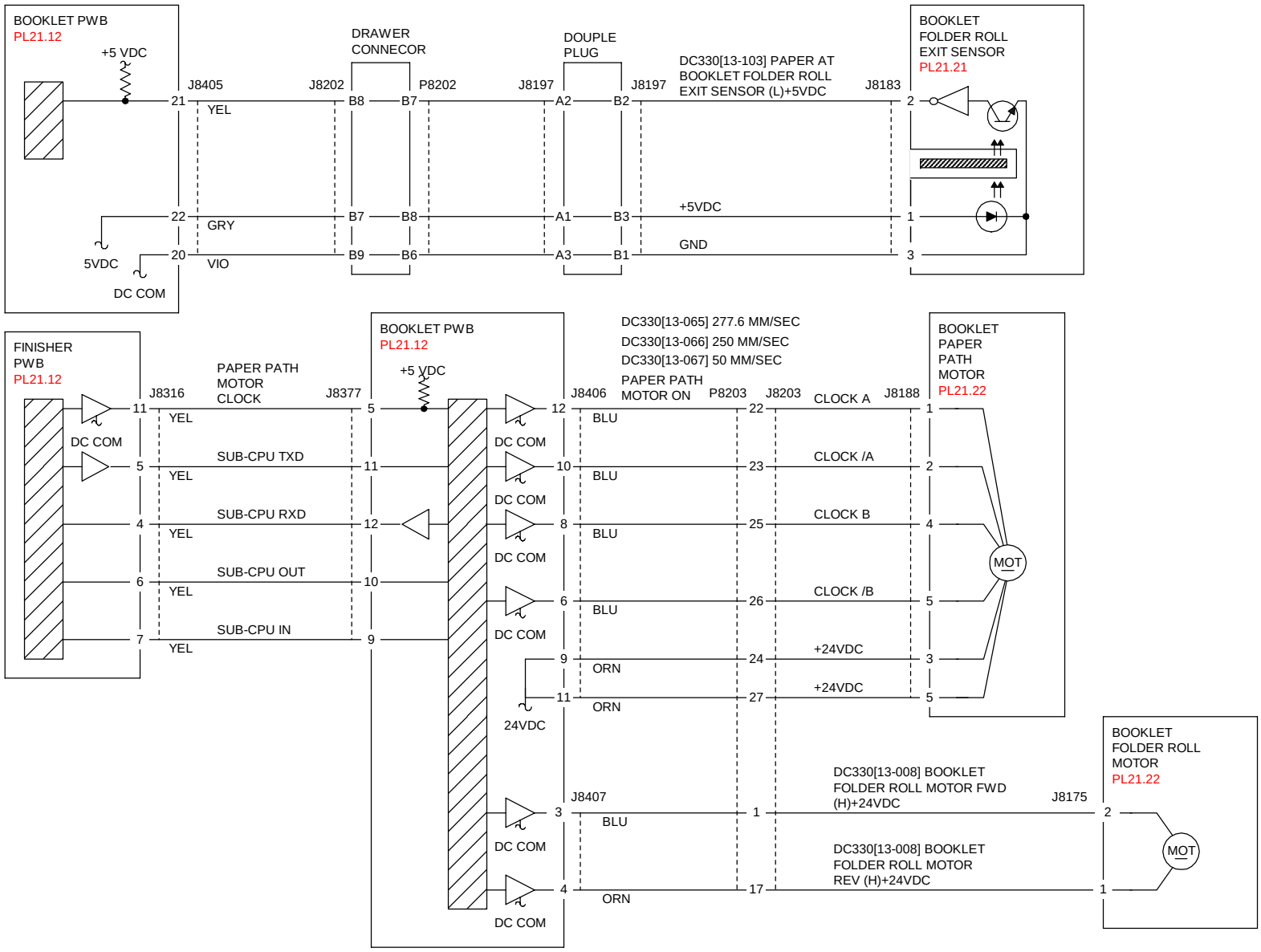
Y N

Select Stop. Go to Figure 1. Check the circuit of the Booklet Folder Roll Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Check the following:

- Ensure that the connectors shown in the circuit diagrams are securely connected and that the wires are not damaged
- Check the Booklet Paper Path Motor and its associated gears and belts for damage, contamination or alignment
- Check the Booklet Folder Roll Motor and its associated gears and belts for damage, contamination or alignment

If the above checks are OK, then replace the Booklet Folder Roll Exit Sensor (PL 21.21). If the problem persists, replace the Finisher PWB (PL 21.12).



T712137A-COP.VSD.

Figure 1 Booklet Paper Path

012-123 H-Transport Tray Exit Sensor On Jam (A/P Finishers)

H-Transport Tray Exit Sensor is not turned on within a specified time.

Initial Actions

- Check for obstructions in the paper path
- Check that the Finisher is dock correctly to ensure proper Transport Gate operation
- Check the H-Transport Drive Motor Belt for wear or damage
- Check the Guides on the H-Transport Cover for damage, wear or faulty installation

Procedure

Enter Component Control [014-191], H-Transport Tray Exit Sensor (PL 21.25). Select Start. Open the H-Transport Cover and actuate the H-Transport Tray Exit Sensor. **The display changes.**

Y N

Go to Figure 1. Check the circuit of the H-Transport Tray Exit Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Select [014-090], H-Transport Drive Motor (PL 21.26). Select Start. **The motor energizes.**

Y N

Select Stop. Go to Figure 1. Check the circuit of the H-Transport Drive Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Select Stop. Close the H-Transport Cover. Select [014-086] or [014-087], Gate Solenoid (PL 21.25). Select Start. **The Gate Solenoid actuates.**

Y N

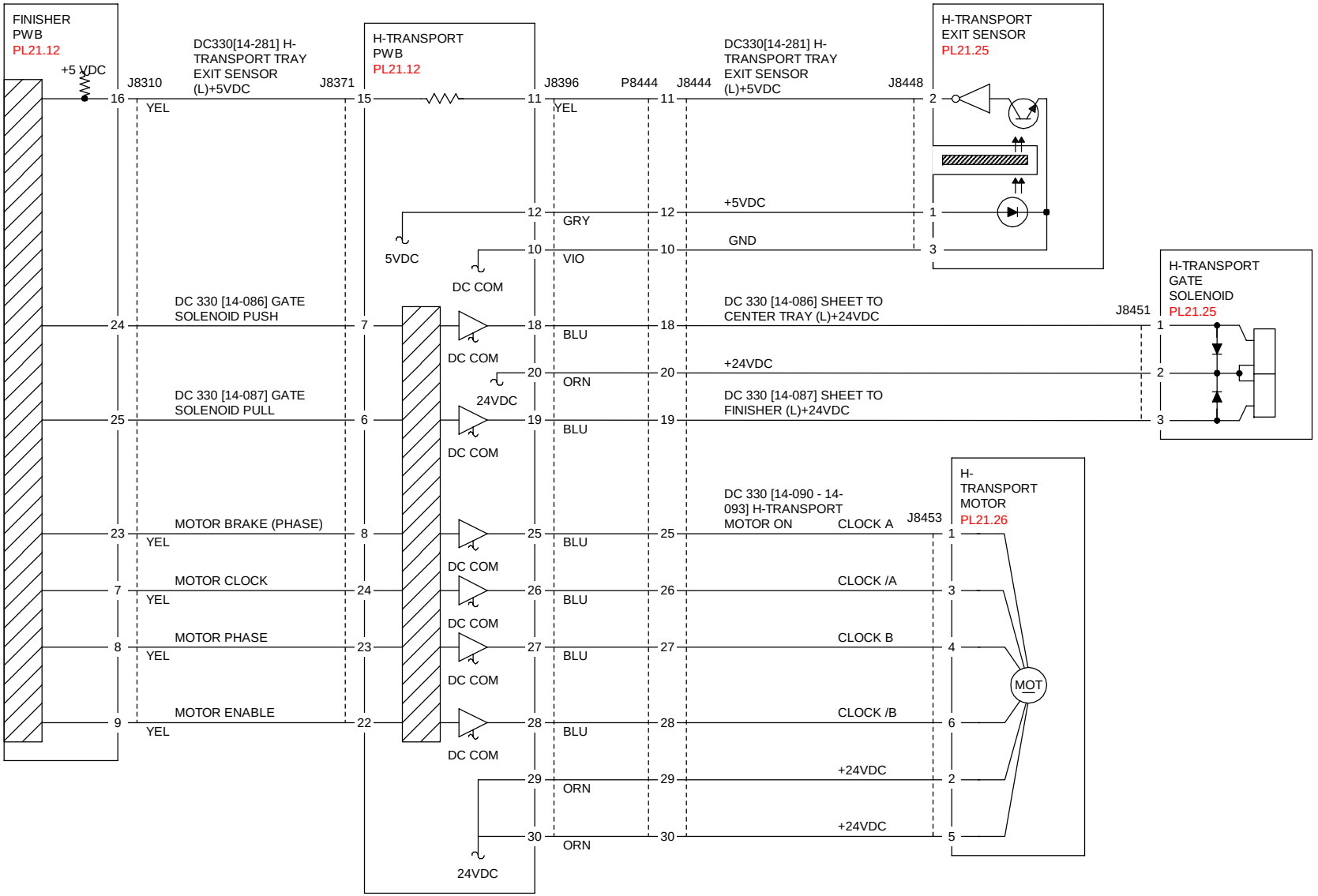
Select Stop. Go to Figure 1. Check the circuit of the Gate Solenoid. Refer to the OF 99-8 RAP for troubleshooting procedure.

Select Stop.

Check the following:

- Ensure that the connectors shown in the circuit diagrams are securely connected and that the wires are not damaged
- Check the H-Transport Motor and its associated gears and belts for damage, contamination or misalignment

If the above checks are OK, then replace the H-Transport Exit Sensor (PL 21.25). If the problem persists, replace the Finisher PWB (PL 21.12).



T712101A-COP.VSD.

Figure 1 H-Transport Exit

012-124 H-Transport Top Tray Exit Sensor Off Jam (A/P Finishers)

H-Transport Top Tray Exit Sensor is not turned off within a specified time.

Initial Actions

- Check for obstructions in the paper path
- Check that the Finisher is dock correctly to ensure proper Transport Gate operation
- Check the H-Transport Drive Motor Belt for wear or damage
- Check the Guides on the H-Transport Cover for damage, wear or faulty installation

Procedure

Enter Component Control [014-191], H-Transport Tray Exit Sensor (PL 21.25). Select Start. Open the H-Transport Cover and actuate the H-Transport Tray Exit Sensor. **The display changes.**

Y N

Go to Figure 1. Check the circuit of the H-Transport Tray Exit Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Select Stop. Select [014-090], H-Transport Drive Motor (PL 21.26). Select Start. **The motor energizes.**

Y N

Select Stop. Go to Figure 1. Check the circuit of the H-Transport Drive Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Select Stop. Close the H-Transport Cover. Select [014-086] or [014-087], Gate Solenoid (PL 21.25). Select Start. **The Gate Solenoid actuates.**

Y N

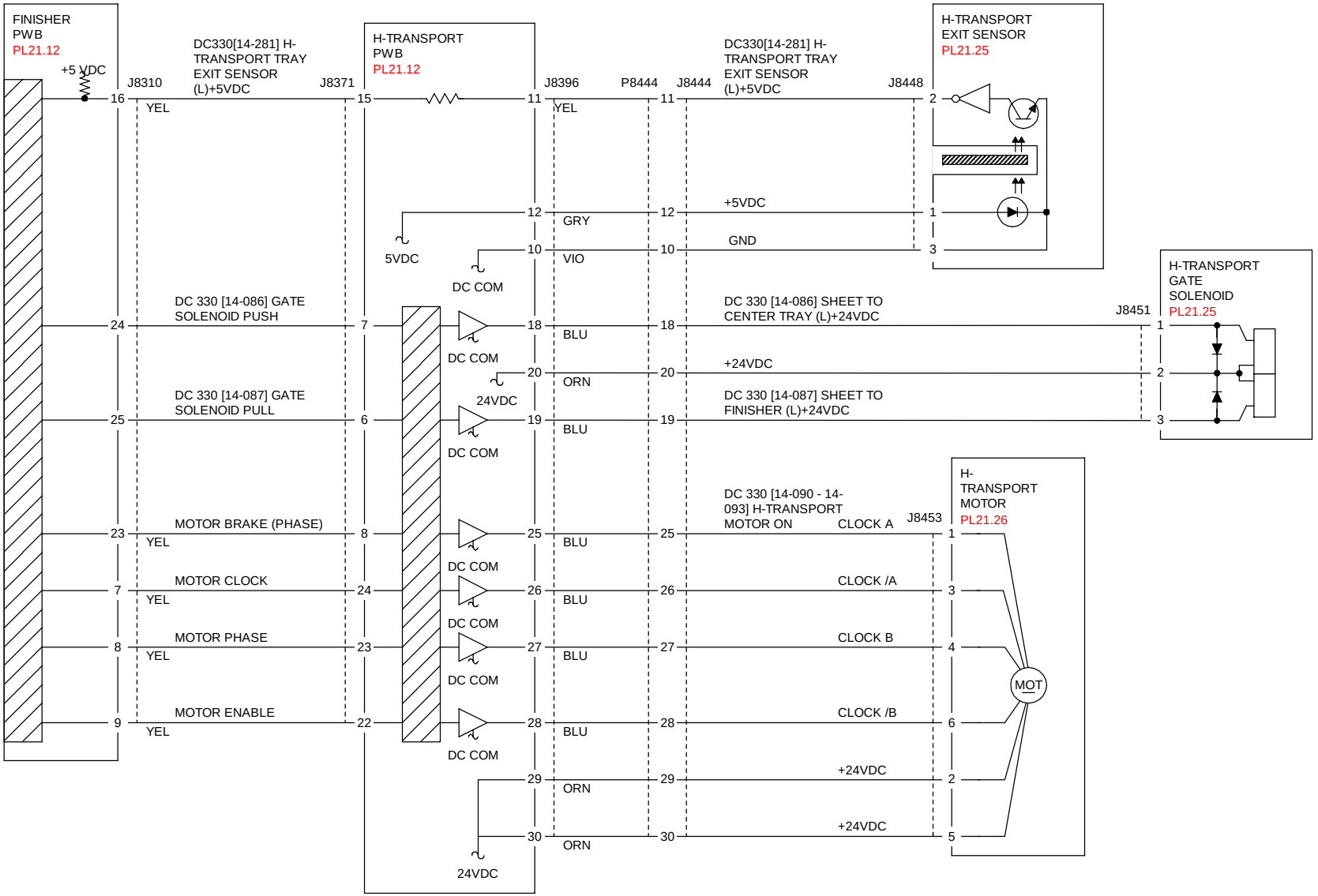
Select Stop. Go to Figure 1. Check the circuit of the Gate Solenoid. Refer to the OF 99-8 RAP for troubleshooting procedure.

Select Stop.

Check the following:

- Ensure that the connectors shown in the circuit diagrams are securely connected and that the wires are not damaged
- Check the H-Transport Motor and its associated gears and belts for damage, contamination or misalignment

If the above checks are OK, then replace the H-Transport Exit Sensor (PL 21.25). If the problem persists, replace the Finisher PWB (PL 21.12).



T712101A-COP.VSD.

Figure 1 H-Transport Exit

012-125 Gate Sensor On Jam (A/P Finishers)

Gate Sensor is not turned on within a specified time.

Initial Actions

- Check for obstructions in the paper path
- Check the Finisher Drive Motor Gears and Drive rolls for wear or damage

Procedure

Enter Component Control [014-191], H-Transport Tray Exit Sensor (PL 21.25). Select Start. Open the H-Transport Cover and actuate the H-Transport Tray Exit Sensor. **The display changes.**

Y N

Go to Figure 1. Check the circuit of the H-Transport Tray Exit Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Enter Component Control [014-102], Gate Sensor (PL 21.11). Select Start. Actuate the Gate Sensor. **The display changes.**

Y N

Go to Figure 2. Check the circuit of the Gate Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Select [014-001], Finisher Transport Motor (PL 21.10). Select Start. **The motor energizes.**

Y N

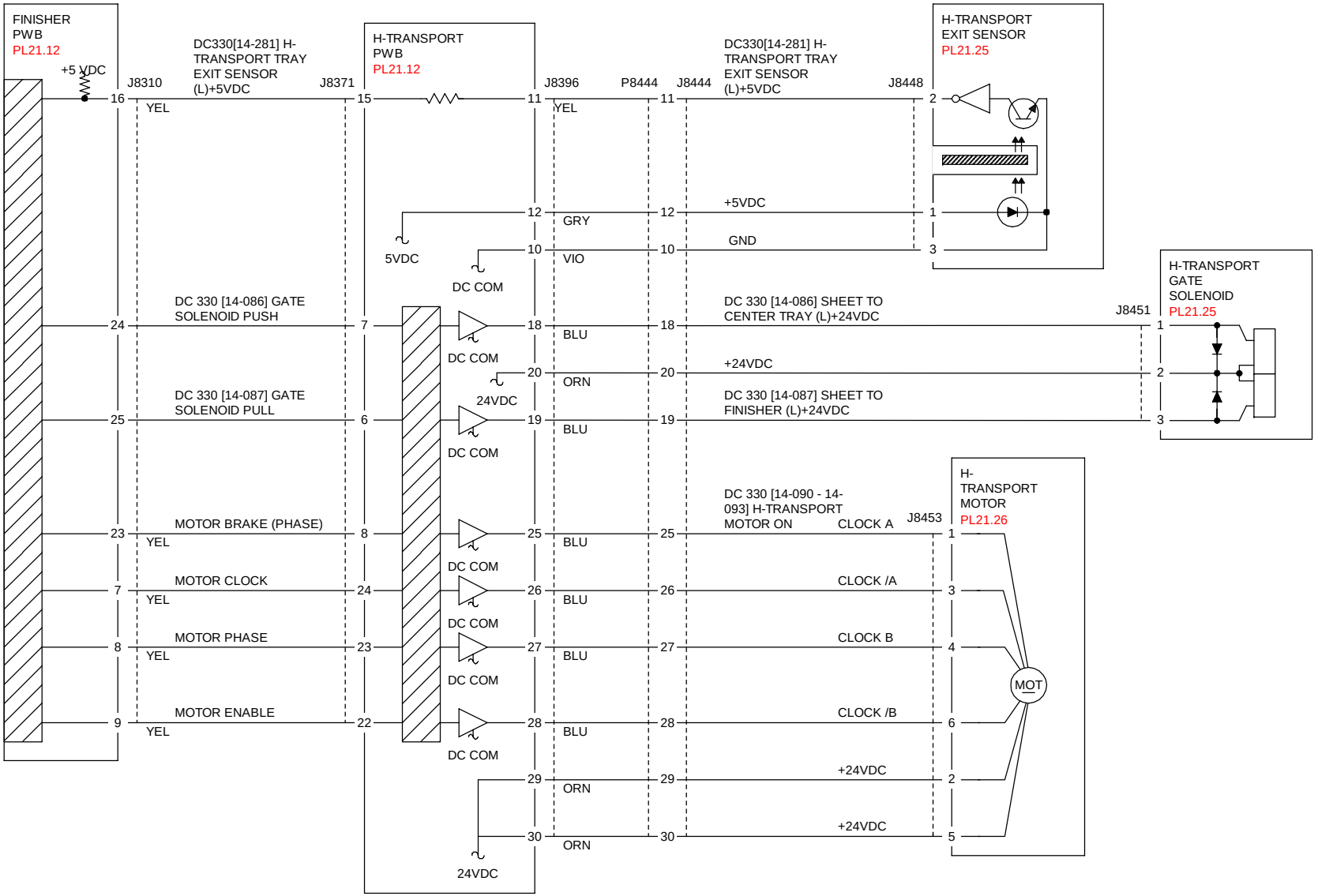
Select Stop. Go to Figure 2. Check the circuit of the Finisher Transport Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Select Stop.

Check the following:

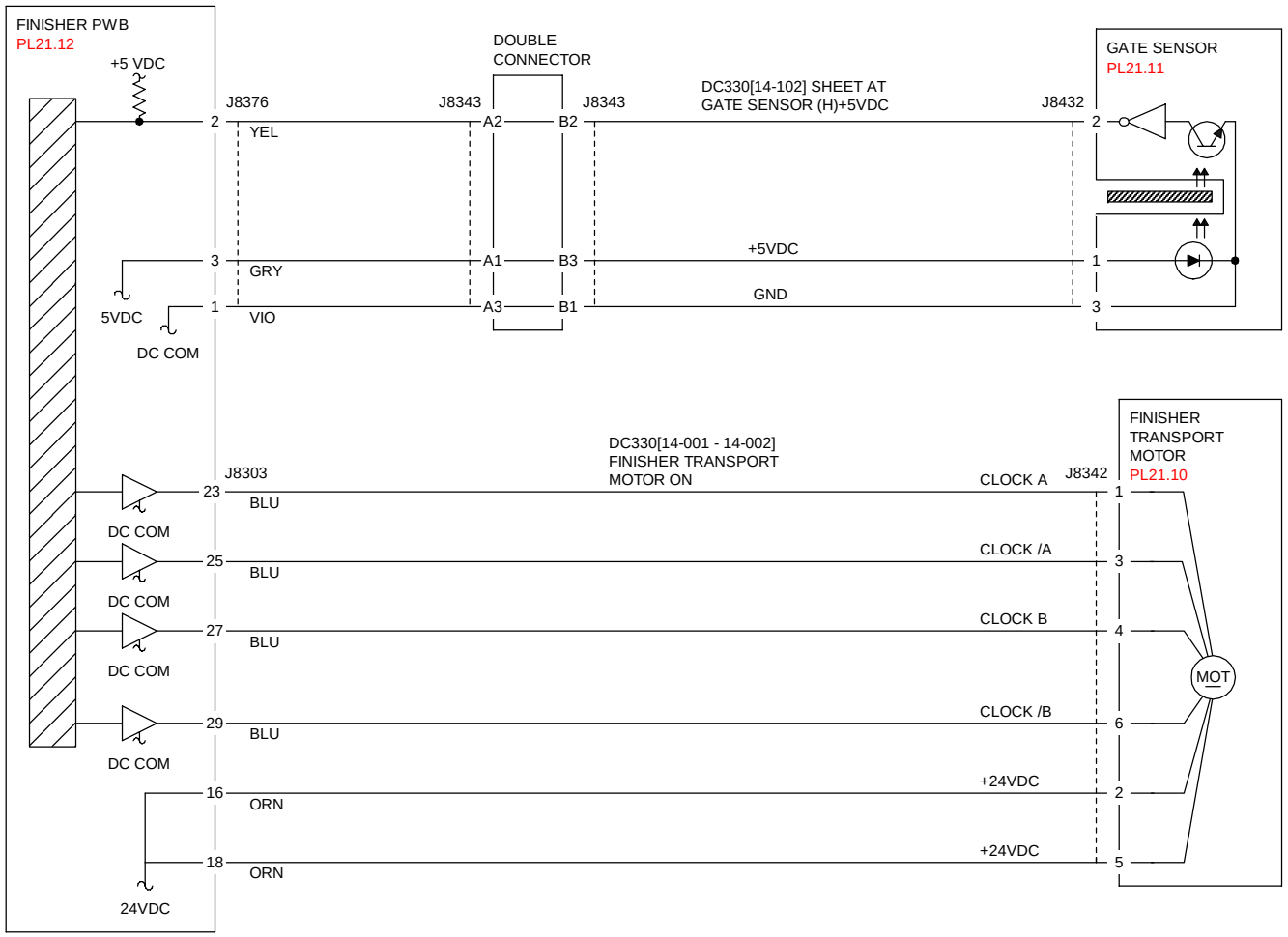
- Ensure that the connectors shown in the circuit diagrams are securely connected and that the wires are not damaged
- Check the Finisher is docked properly
- Check the Finisher Transport Motor and its associated gears and belts for damage, contamination or misalignment

If the above checks are OK, then replace the Gate Sensor (PL 21.11). If the problem persists, replace the Finisher PWB (PL 21.12).



T712101A-COP.VSD.

Figure 1 H-Transport Exit



T712113A-COP.VSD.

Figure 2 Finisher Entrance

012-132 Xport Entrance Sensor On Jam (A/P Finishers)

Transport Entrance Sensor is not turned on within a specified time.

Initial Actions

- Check for obstructions in the paper path
- Check that the Finisher is dock correctly to ensure proper Transport Gate operation

Procedure

Enter Component Control [014-100], Transport Entrance Sensor (PL 21.10). Select Start. Actuate the Transport Entrance Sensor. **The display changes.**

Y N

Go to Figure 1. Check the circuit of the Transport Entrance Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Select [014-001], Finisher Transport Motor (PL 21.10). Select Start. **The motor energizes.**

Y N

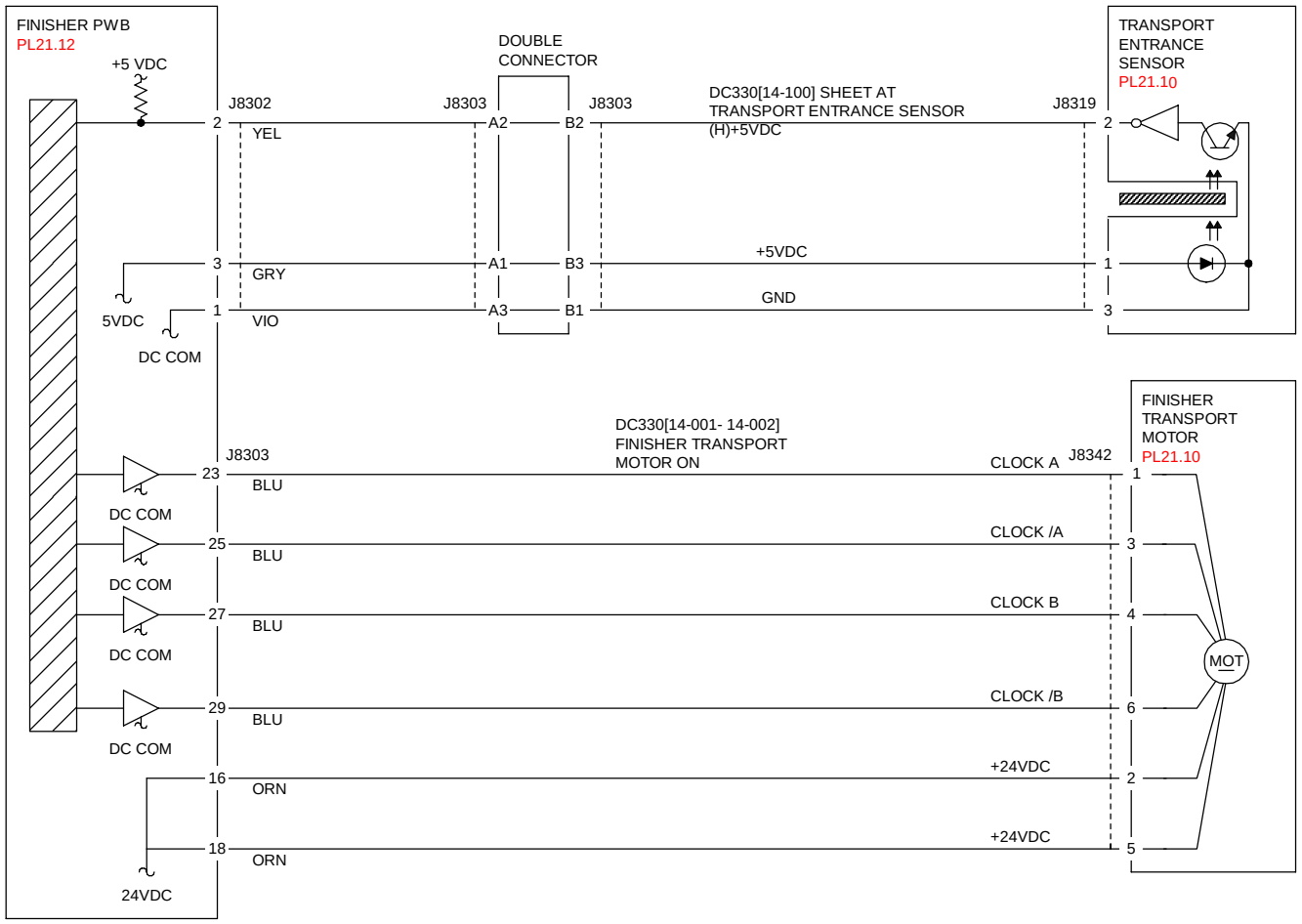
Select Stop. Go to Figure 1. Check the circuit of the Finisher Transport Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Select Stop.

Check the following:

- Ensure that the connectors shown in the circuit diagrams are securely connected and that the wires are not damaged
- Check the H-Transport Motor and its associated gears and belts for damage, contamination or alignment
- Check the Finisher Transport Motor and its associated gears and belts for damage, contamination or alignment

If the above checks are OK, then replace the Transport Entrance Sensor (PL 21.10). If the problem persists, replace the Finisher PWB (PL 21.12).



T712114A-COP.VSD.

Figure 1 Finisher Entrance

012-142 Buffer Path Sensor On Jam (A/P Finishers)

Buffer Path Sensor is not turned on within a specified time.

Initial Actions

- Check for obstructions in the paper path
- Check the Finisher Transport Motor Belt, Gears and Drive Rolls for wear or damage

Procedure

Enter Component Control [014-101], Buffer Path Sensor (PL 21.10). Select Start. Actuate the Buffer Path Sensor. **The display changes.**

Y N

Go to Figure 1. Check the circuit of the Buffer Path Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Select [014-001], Finisher Transport Motor (PL 21.10). Select Start. **The motor energizes.**

Y N

Select Stop. Go to Figure 1. Check the circuit of the Finisher Transport Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Select Stop. Select [014-015] and/or [014-016], Buffer Gate Solenoid (PL 21.10). Select Start. **The Gate Solenoid actuates.**

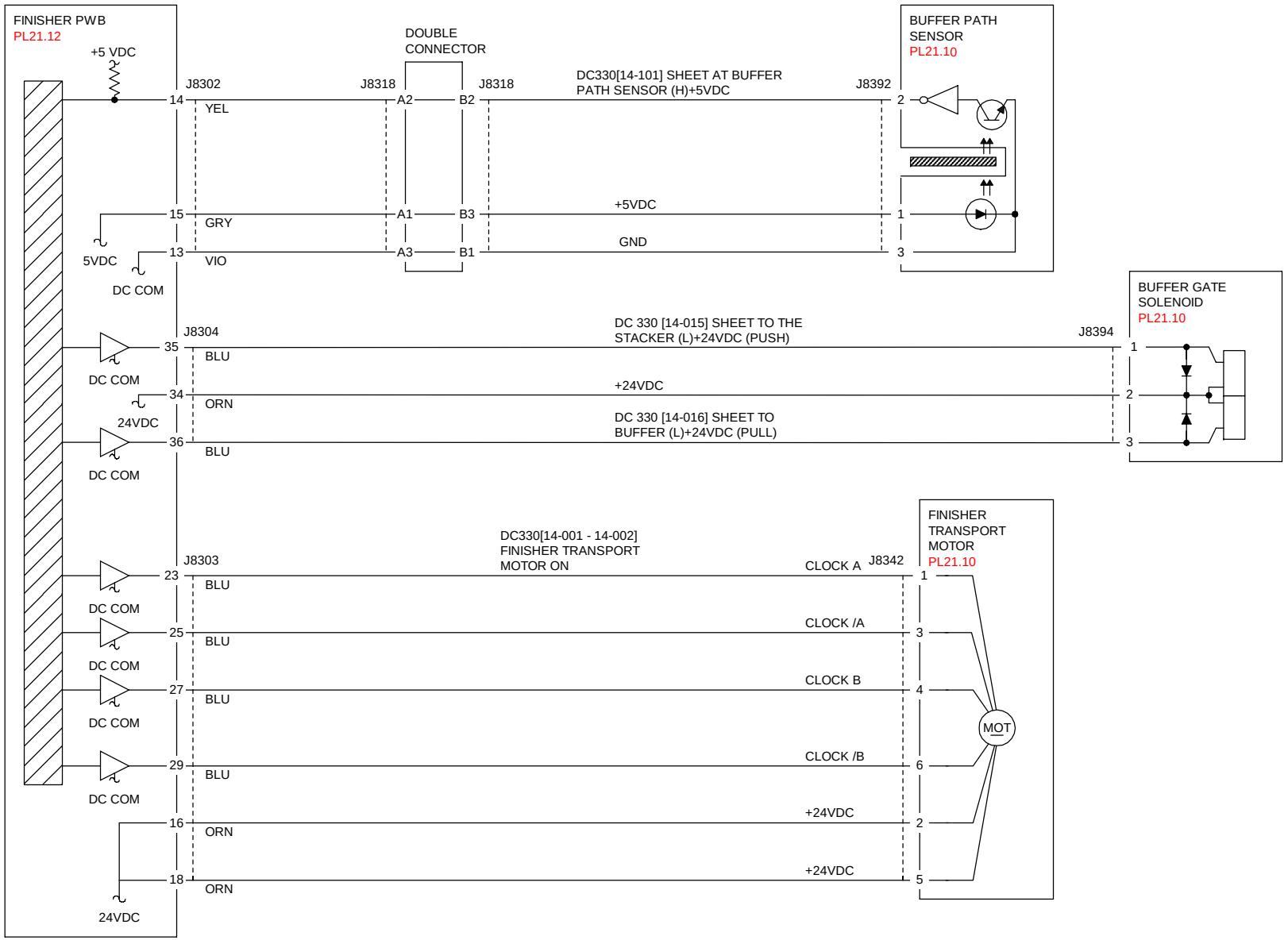
Y N

Select Stop. Go to Figure 1. Check the circuit of the Buffer Gate Solenoid. Refer to the OF 99-8 RAP for troubleshooting procedure.

Select Stop.
Check the following:

- Ensure that the connectors shown in the circuit diagrams are securely connected and that the wires are not damaged
- Check the Buffer Rolls for obstructions
- Check the Finisher Transport Motor and its associated gears and belts for damage, contamination or misalignment

If the above checks are OK, then replace the Buffer Path Sensor (PL 21.10). If the problem persists, replace the Finisher PWB (PL 21.12).



T712116A-COP.VSD.

Figure 1 Buffer Paper Path

012-151 Compile Exit Sensor OFF Jam (A/P Finishers)

The Compile Exit Sensor did not turn OFF within the specified time after Compile Exit Sensor ON.

Initial Actions

- Check the Buffer Reverse Roll for wear or damage
- Check the Compile Exit Roll for wear or damage
- Check for paper transportation failure due to a foreign substance/burr on the paper path
- Check for transportation failure of non-standard paper

Procedure

Enter Component Control [014-150], Compile Exit Sensor (PL 21.9). Select Start. Actuate the Compile Exit Sensor. **The display changes.**

Y N

Go to Figure 1. Check the circuit of the Compile Exit Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Select Stop. Select [014-011] or [014-012], Transport Gate Solenoid (PL 21.10), and Select Start. **The Transport Gate Solenoid actuates.**

Y N

Select Stop. Go to Figure 1. Check the circuit of the Transport Gate Solenoid. Refer to the OF 99-8 RAP for troubleshooting procedure.

Select Stop. Select [014-015] or [014-016], Buffer Gate Solenoid (PL 21.10), and Select Start. **The Buffer Gate Solenoid actuates.**

Y N

Select Stop. Go to Figure 2. Check the circuit of the Buffer Gate Solenoid. Refer to the OF 99-8 RAP for troubleshooting procedure.

Select [014-007], Exit Motor (PL 21.8). Select Start. **The motor energizes.**

Y N

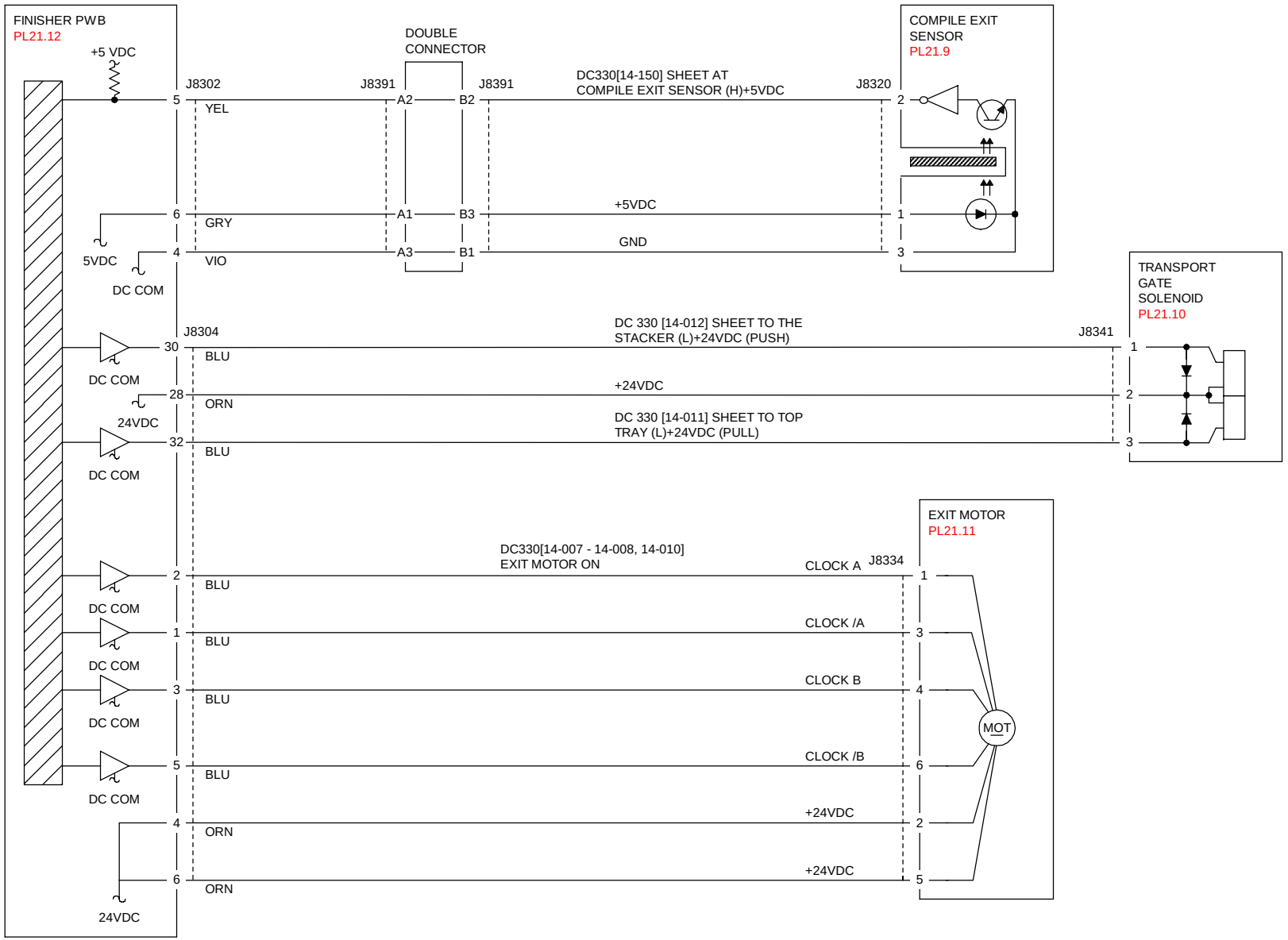
Select Stop. Go to Figure 1. Check the circuit of the Exit Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Select Stop.

Check the following:

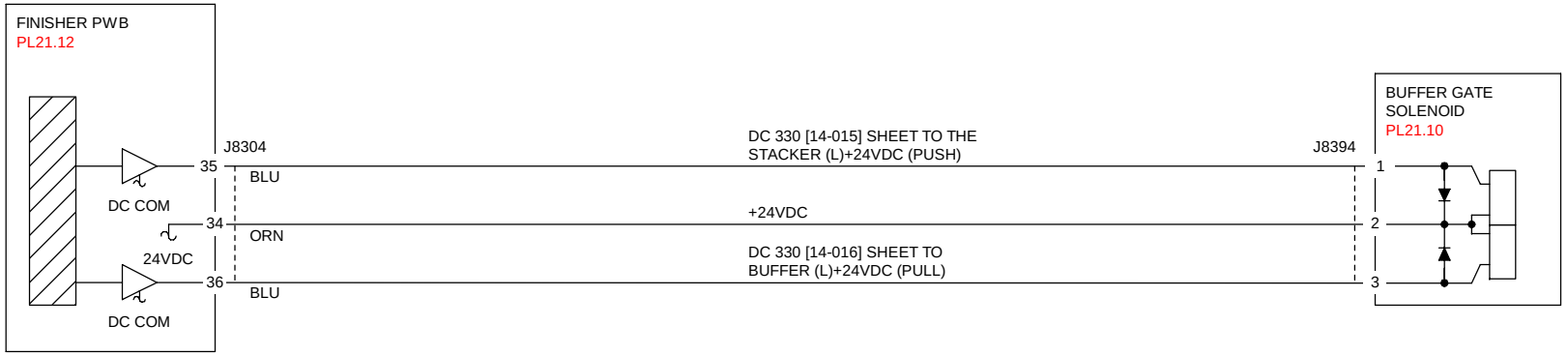
- Ensure that the connectors shown in the circuit diagrams are securely connected and that the wires are not damaged
- Check the Exit Motor and its associated gears and belts for damage, contamination or tension

If the above checks are OK, then replace the Compile Exit Sensor (PL 21.9). If the problem persists, replace the Finisher PWB (PL 21.12).



T712119A-COP.VSD.

Figure 1 Compiler Paper Path



T712149A-COP.VSD.

Figure 2 Compiler Paper Path

012-152 Compile Exit Sensor ON Jam (A/P Finishers)

Not in the Punch mode: The Compile Exit Sensor did not turn ON within the specified time after Punch Out Sensor ON.

In Punch mode: The Compile Exit Sensor did not turn ON within the specified time after the punching operation had begun.

Initial Actions

- Check the Buffer Roll for wear or damage
- Check the Compile Exit Roll for wear or damage
- Check for paper transportation failure due to a foreign substance/burr on the paper path
- Check for transportation failure of non-standard paper

Procedure

Enter Component Control [014-150], Compile Exit Sensor (PL 21.9). Select Start. Actuate the Compile Exit Sensor. **The display changes.**

Y N

Go to Figure 1. Check the circuit of the Compile Exit Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Select Stop. Select [014-015] or [014-016], Buffer Gate Solenoid (PL 21.10), and Select Start. **The Buffer Gate Solenoid actuates.**

Y N

Select Stop. Go to Figure 2. Check the circuit of the Buffer Gate Solenoid. Refer to the OF 99-8 RAP for troubleshooting procedure.

Select Stop. Select [014-011] or [014-012], Transport Gate Solenoid (PL 21.10). Select Start. **The Transport Gate Solenoid actuates.**

Y N

Select Stop. Go to Figure 1. Check the circuit of the Transport Gate Solenoid. Refer to the OF 99-8 RAP for troubleshooting procedure.

Select [014-007], Exit Motor (PL 21.8). Select Start. **The motor energizes.**

Y N

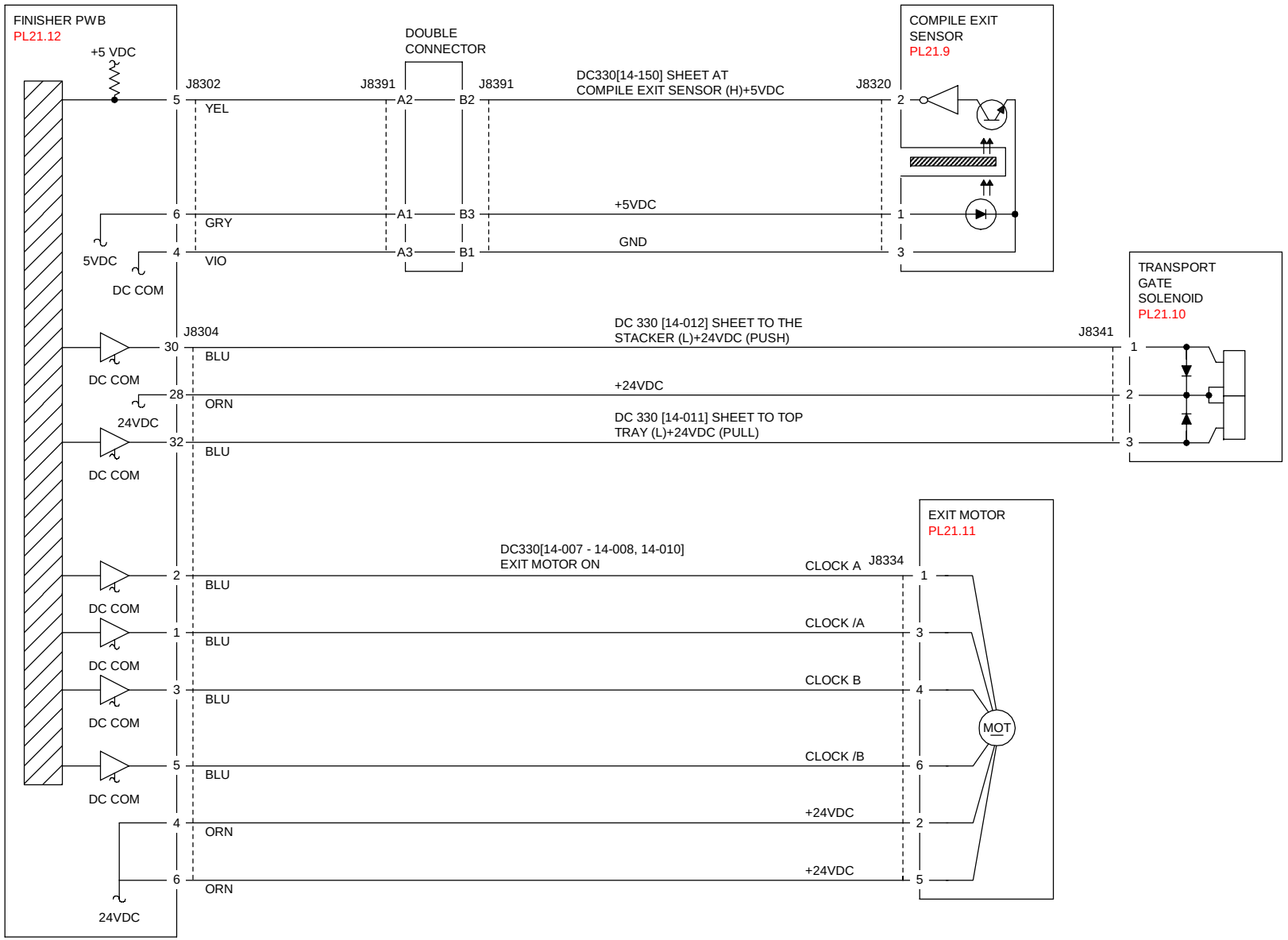
Select Stop. Go to Figure 1. Check the circuit of the Exit Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Select Stop.

Check the following:

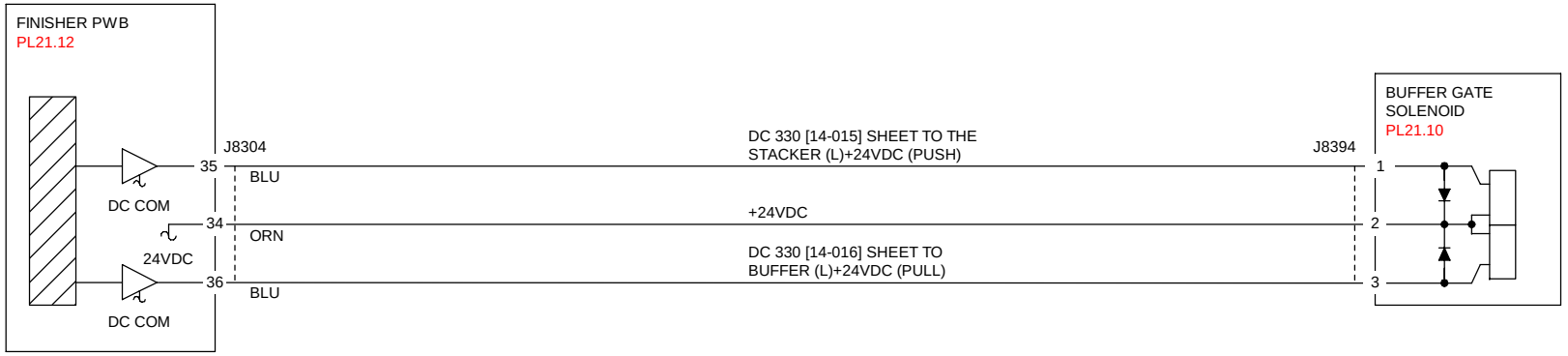
- Ensure that the connectors shown in the circuit diagrams are securely connected and that the wires are not damaged
- Check the Exit Motor and its associated gears and belts for damage, contamination or tension

If the above checks are OK, then replace the Compile Exit Sensor (PL 21.9). If the problem persists, replace the Finisher PWB (PL 21.12).



T712119A-COP.VSD.

Figure 1 Compiler Paper Path



T712149A-COP.VSD.

Figure 2 Compiler Paper Path

012-161 Set Eject Jam (A/P Finishers)

The Compile Exit Sensor did not turn off within the specified time after the Eject operation has begun.

Initial Actions

- Check the Buffer Reverse Roll for wear or damage
- Check the Compile Exit Roll for wear or damage
- Check for paper transportation failure due to a foreign substance/burr on the paper path
- Check for transportation failure of non-standard paper

Procedure

Enter Component Control [014-150], Compile Exit Sensor (PL 21.9). Select Start. Actuate the Compile Exit Sensor. **The display changes.**

Y N

Go to Figure 1. Check the circuit of the Compile Exit Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Select [014-007],
Exit Motor (PL 21.8). Select Start. **The motor energizes.**

Y N

Select Stop. Go to Figure 1. Check the circuit of the Exit Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Select Stop. Select [014-011] or [014-012], Transport Gate Solenoid (PL 21.10). Select Start. **The Transport Gate Solenoid actuates.**

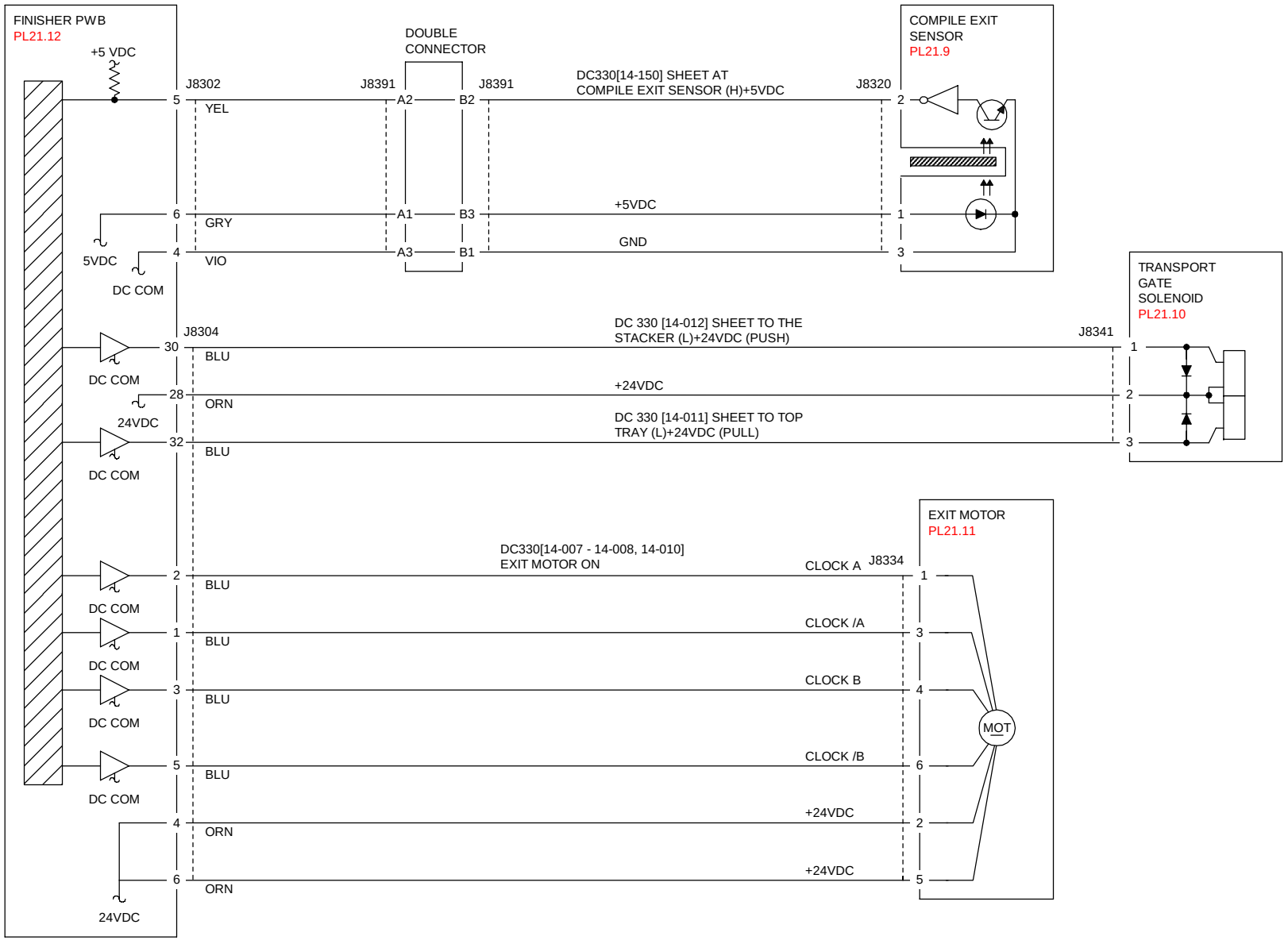
Y N

Select Stop. Go to Figure 1. Check the circuit of the Transport Gate Solenoid. Refer to the OF 99-8 RAP for troubleshooting procedure.

Select Stop.
Check the following:

- Ensure that the connectors shown in the circuit diagrams are securely connected and that the wires are not damaged
- Check the Exit Motor and its associated gears and belts for damage, contamination or tension

If the above checks are OK, then replace the Compile Exit Sensor (PL 21.9). If the problem persists, replace the Finisher PWB (PL 21.12).



T712119A-COP.VSD.

Figure 1 Compiler Paper Path

012-162 H-Transport Exit Sensor On Jam (A/P Finishers)

H-Transport Exit Sensor is not turned on within a specified time.

Initial Actions

- Check for obstructions in the paper path
- Check that the Finisher is dock correctly to ensure proper Transport Gate operation
- Check the H-Transport Drive Motor Belt for wear or damage
- Check the Guides on the H-Transport Cover for damage, wear or faulty installation
- Check the Fuser Exit Switch actuator for damage, installed properly, or actuator spring damaged or missing

Procedure

Enter Component Control [014-191], H-Transport Exit Sensor (PL 21.25). Select Start. Open the H-Transport Cover and actuate the H-Transport Exit Sensor. **The display changes.**

Y **N**

Select Stop. Go to Figure 1. Check the circuit of the H-Transport Exit Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Select [014-090], H-Transport Drive Motor (PL 21.26). Select Start. **The motor energizes.**

Y **N**

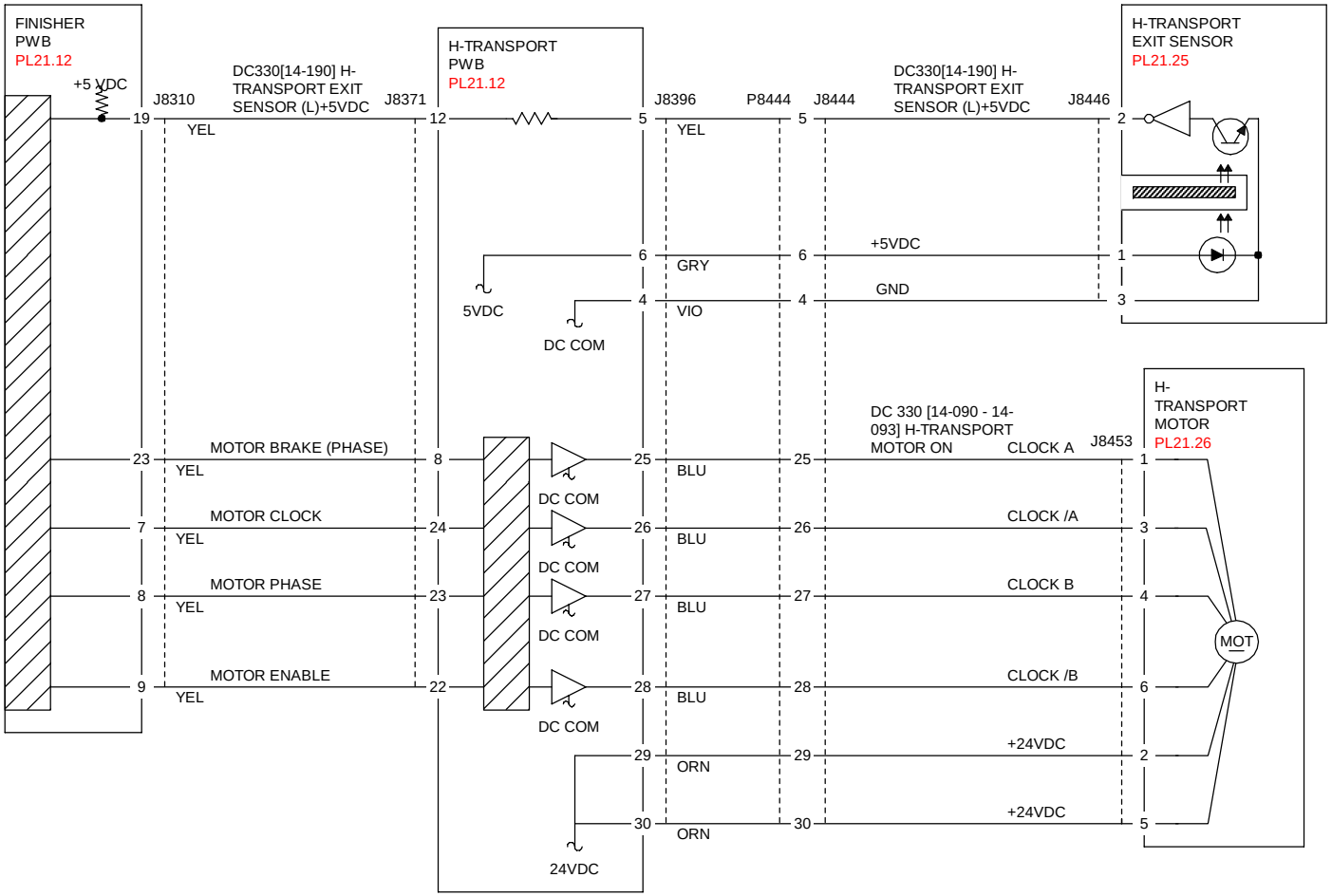
Select Stop. Go to Figure 1. Check the circuit of the H-Transport Drive Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Select Stop.

Check the following:

- Ensure that the connectors shown in the circuit diagrams are securely connected and that the wires are not damaged
- Check the H-Transport Motor and its associated gears and belts for damage, contamination or misalignment

If the above checks are OK, then replace the H-Transport Exit Sensor (PL 21.24). If the problem persists, replace the Finisher PWB (PL 21.12).



T712102A-COP.VSD.

Figure 1 H-Transport Exit

012-171 Top Tray Exit Sensor ON Jam (A/P Finishers)

Not in the Punch mode: The Top Tray Exit Sensor did not turn on within the specified time after Punch Out Sensor on.

In Punch mode: The Top Tray Exit Sensor did not turn on within the specified time after the punching operation had begun.

Initial Actions

- Check Top Tray Exit for operation failure
- Check paper transportation failure due to a foreign substance/burr on the paper path
- Check transportation failure of non-standard paper

Procedure

Enter Component Control [014-115], Top Tray Exit Sensor (PL 21.11). Select Start. Actuate the Top Tray Exit Sensor. **The display changes.**

Y N

Go to Figure 1. Check the circuit of the Top Tray Exit Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Select [014-007], Exit Motor (PL 21.11). Select Start. **The motor energizes.**

Y N

Select Stop. Go to Figure 2. Check the circuit of the Exit Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Select Stop. Select [014-011] or [014-012], Transport Gate Solenoid (PL 21.10). Select Start. **The Transport Gate Solenoid actuates.**

Y N

Select Stop. Go to Figure 1. Check the circuit of the Transport Gate Solenoid. Refer to the OF 99-8 RAP for troubleshooting procedure.

Select [014-001], Finisher Transport Motor (PL 21.10). Select Start. **The motor energizes.**

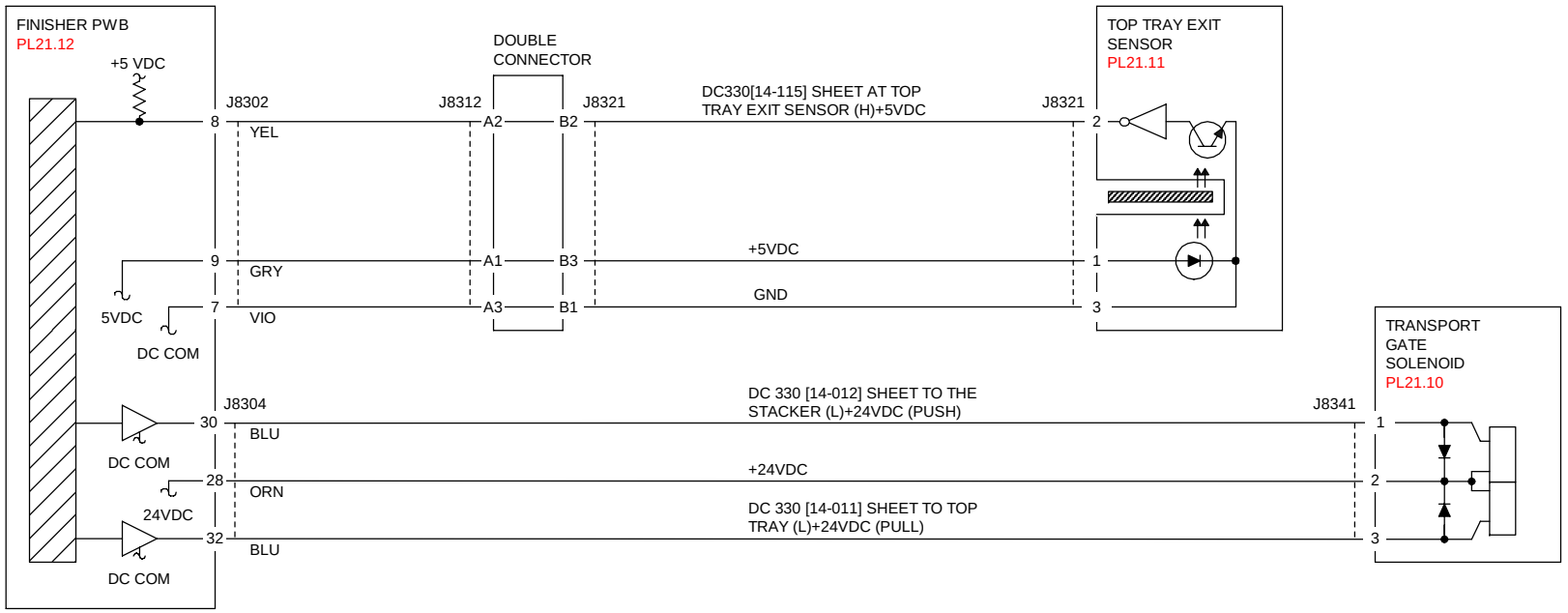
Y N

Select Stop. Go to Figure 2. Check the circuit of the Finisher Transport Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Select Stop.
Check the following:

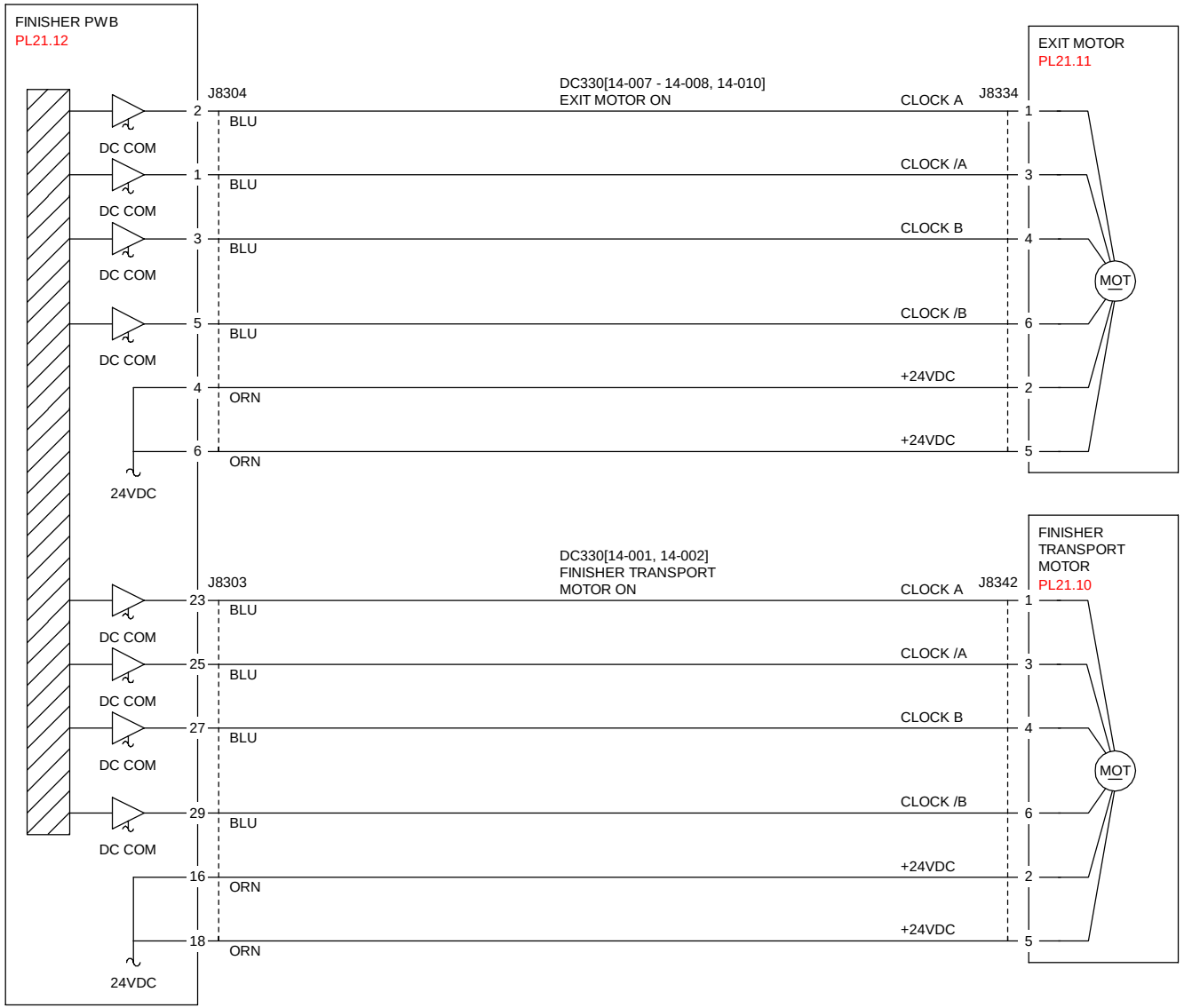
- Ensure that the connectors shown in the circuit diagrams are securely connected and that the wires are not damaged
- Check the Exit Motor and its associated gears and belts for damage, contamination or misalignment
- Exit Drive Shaft for wear and a revolution failure
- The Exit Pinch Rolls for wear and/or damage

If the above checks are OK, then replace the Top Tray Exit Sensor (PL 21.11). If the problem persists, replace the Finisher PWB (PL 21.12).



T712120A-COP.VSD.

Figure 1 Top Tray Exit



T712121A-COP.VSD.

Figure 2 Top Tray Exit

012-172 Top Tray Exit Sensor Off Jam (A/P Finishers)

Top Tray Exit Sensor Off was not detected at the rear edge of paper within the specified time after Punch Out Sensor detected at the leading edge of the same paper.

Top Tray Exit Sensor Off was not detected at the rear edge of paper within the specified time after the punching operation had begun.

Initial Actions

- Check Top Tray Exit for operation failure
- Check paper transportation failure due to a foreign substance/burr on the paper path
- Check transportation failure of non-standard paper

Procedure

Enter Component Control [014-115], Top Tray Exit Sensor (PL 21.11). Select Start. Actuate the Top Tray Exit Sensor. **The display changes.**

Y N

Go to Figure 1. Check the circuit of the Top Tray Exit Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Select [014-007], Exit Motor (PL 21.11). Select Start. **The motor energizes.**

Y N

Select Stop. Go to Figure 2. Check the circuit of the Exit Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Select Stop. Select [014-011] or [014-012], Transport Gate Solenoid (PL 21.10). Select Start. **The Transport Gate Solenoid actuates.**

Y N

Select Stop. Go to Figure 1. Check the circuit of the Transport Gate Solenoid. Refer to the OF 99-8 RAP for troubleshooting procedure.

Select [014-001], Finisher Transport Motor (PL 21.10). Select Start. **The motor energizes.**

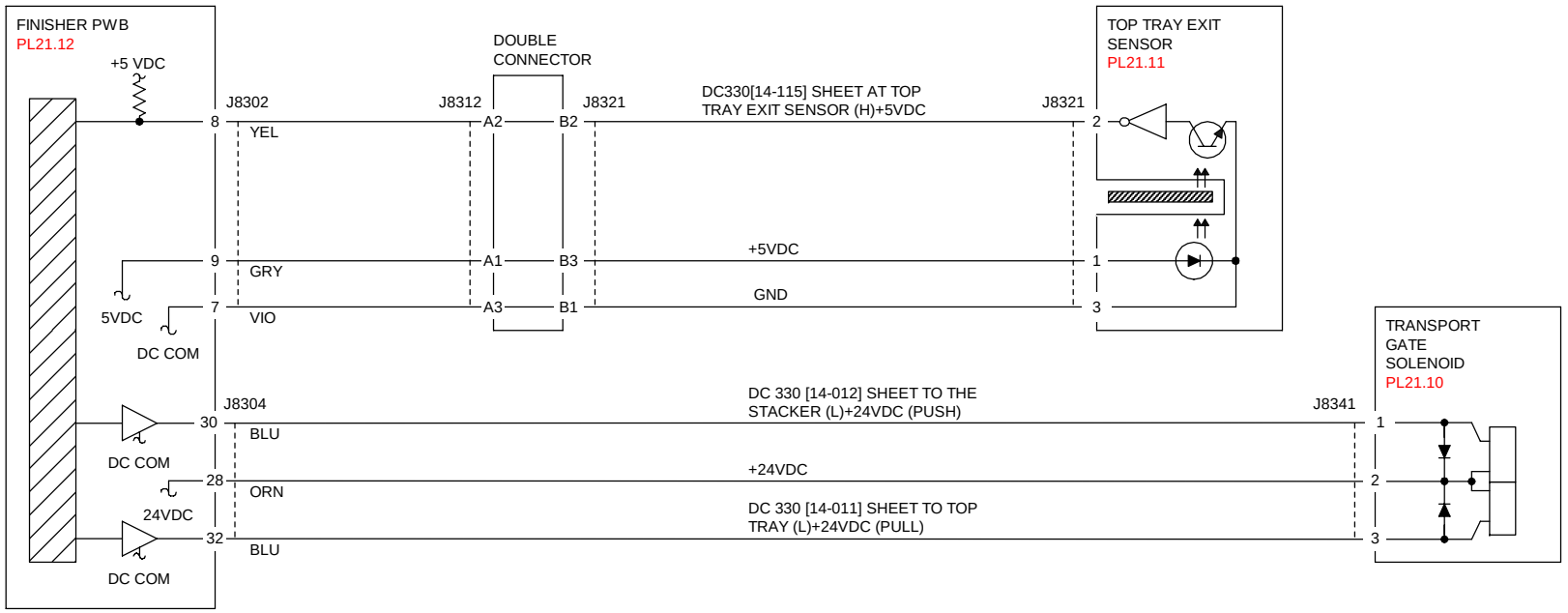
Y N

Select Stop. Go to Figure 2. Check the circuit of the Finisher Transport Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Select Stop.
Check the following:

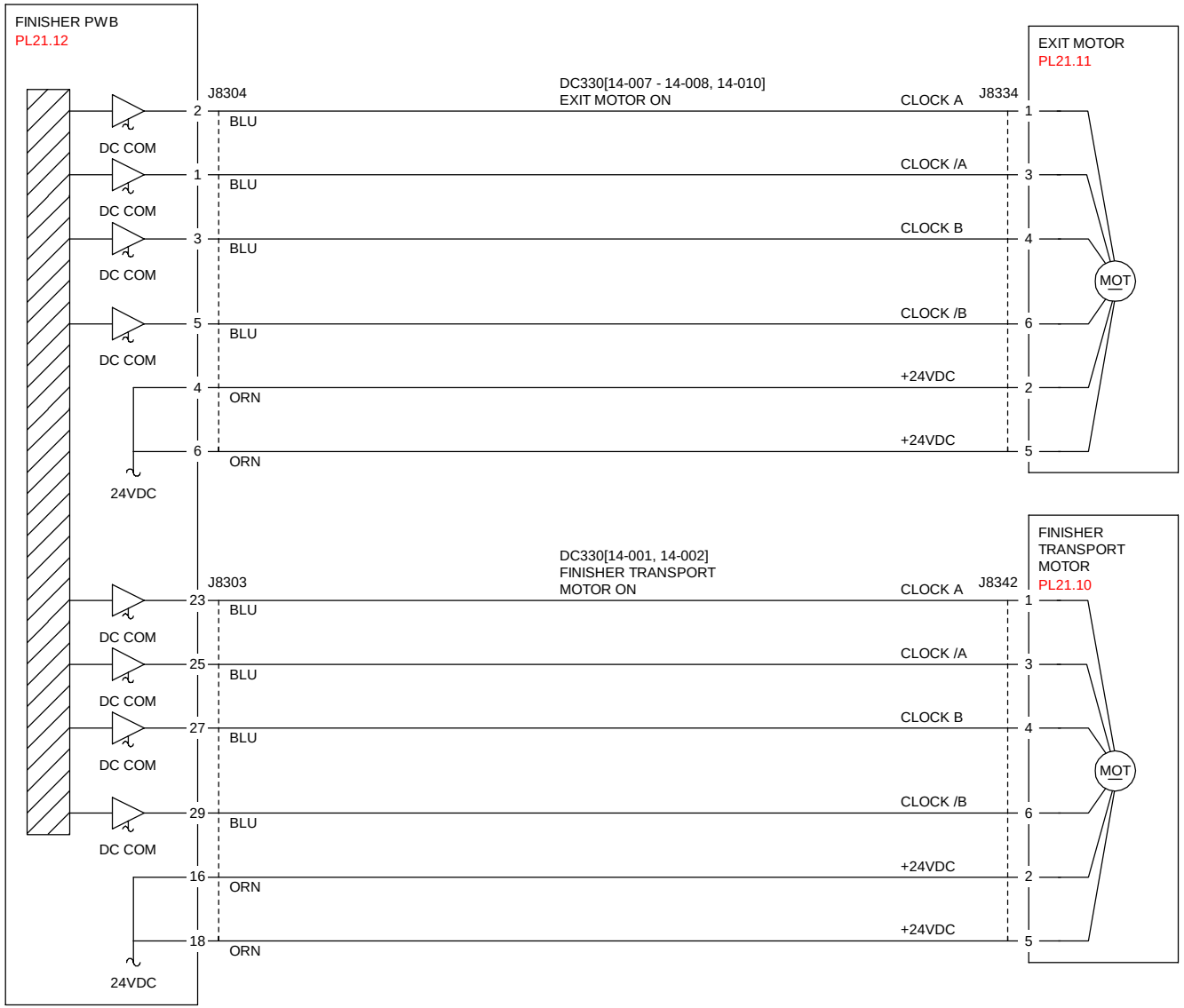
- Ensure that the connectors shown in the circuit diagrams are securely connected and that the wires are not damaged
- Check the Exit Motor and its associated gears and belts for damage, contamination or misalignment
- Exit Drive Shaft for wear and a revolution failure
- The Exit Pinch Rolls for wear and/or damage

If the above checks are OK, then replace the top Tray Exit Sensor (PL 21.11). If the problem persists, replace the Finisher PWB (PL 21.12).



T712120A-COP.VSD.

Figure 1 Top Tray Exit



T712121A-COP.VSD.

Figure 2 Top Tray Exit

012-180 Booklet Folder Roll Exit Sensor Off Jam (A/P Finishers)

Booklet Folder Roll Exit Sensor is not turned off within a specified time.

Initial Actions

- Check for obstructions in the paper path
- Check the Booklet Folder Roll Exit Sensor for obstructions (PL 21.21)
- Check for transportation failure of non-standard paper
- Check the Booklet Folding Roll for wear or damage
- Check the Booklet Eject Roll Drive rolls for wear or damage

Procedure

Enter Component Control [013-103], Booklet Folder Roll Exit Sensor (PL 21.21). Select Start. Actuate the Booklet Folder Roll Exit Sensor. **The display changes.**

Y N

Go to Figure 1. Check the circuit of the Booklet Folder Roll Exit Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Select [013-064], Booklet Paper Path Motor (PL 21.22). Select Start. **The motor energizes.**

Y N

Select Stop. Go to Figure 1. Check the circuit of the Booklet Paper Path Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Select Stop. Select [013-064], Booklet Folder Roll Motor (PL 21.22). Select Start. **The motor energizes.**

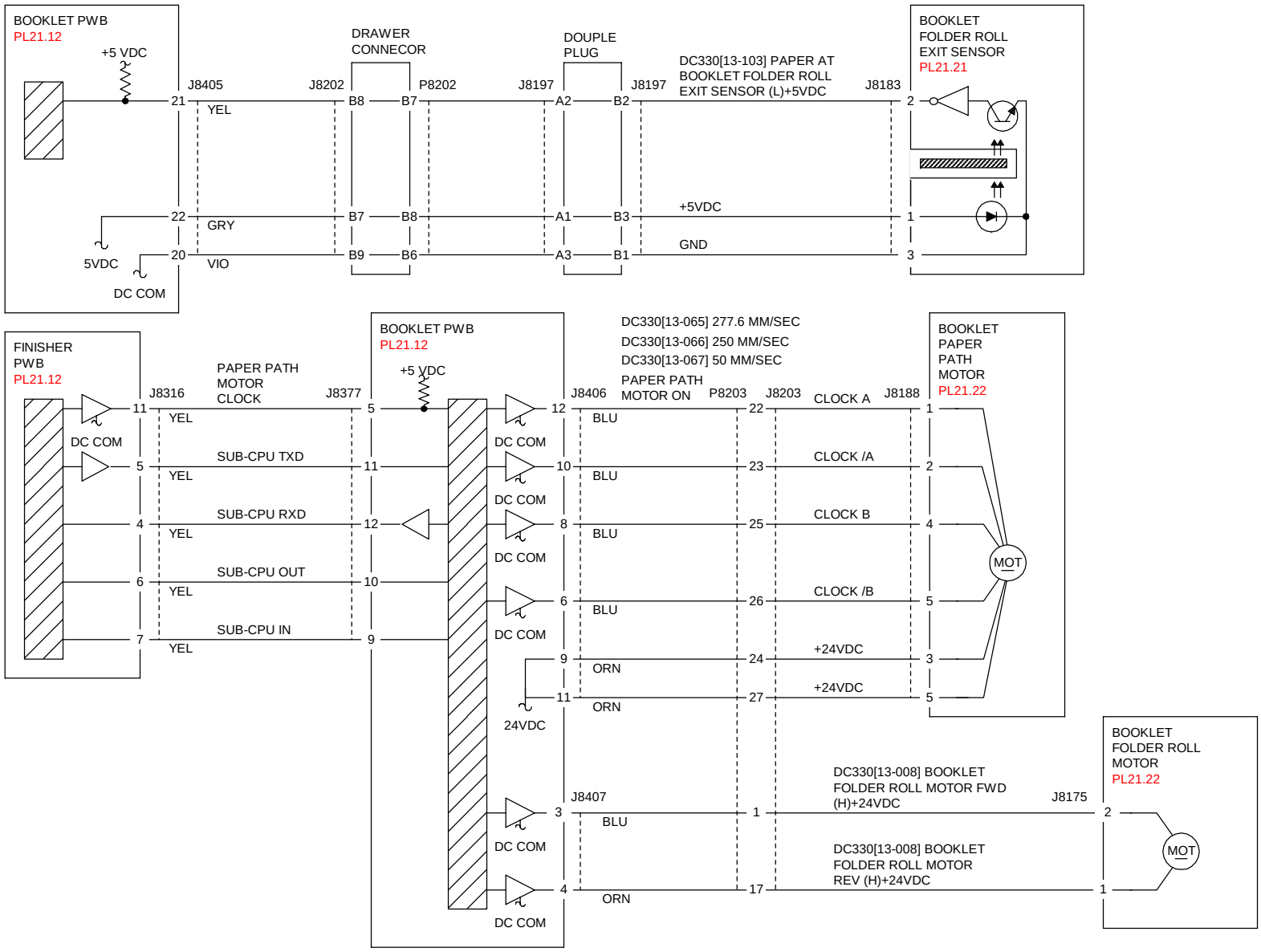
Y N

Select Stop. Go to Figure 1. Check the circuit of the Booklet Folder Roll Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Check the following:

- Ensure that the connectors shown in the circuit diagrams are securely connected and that the wires are not damaged
- Check the Booklet Paper Path Motor and its associated gears and belts for damage, contamination or alignment
- Check the Booklet Folder Roll Motor and its associated gears and belts for damage, contamination or alignment

If the above checks are OK, then replace the Booklet Folder Roll Exit Sensor (PL 21.21). If the problem persists, replace the Finisher PWB (PL 21.12).



T712137A-COP.VSD.

Figure 1 Booklet Paper Path

012-211 Stacker Tray Fail (A/P Finishers)

The Stack Height Sensor did not turn OFF in 500msec after the Stacker Tray started to drive down.

The Tray Height Sensor Lower did not turn ON in 5000msec after the Stacker Tray started lifting up.

Initial Actions

- The Stack Height Sensor for improper installation
- The Stack Height Sensor connectors for connection failure
- The Tray Height Sensor Lower for improper installation
- The Tray Height Sensor Lower connectors for connection failure
- The Elevator Motor for operation failure
- The Elevator Motor connectors for connection failure
- The Elevator Gear for deformation

Procedure

Enter Component Control [14-061] and [14-060], Elevator Motor (PL 21.4), alternately. Select Start. **The Elevator Motor runs.**

Y **N**

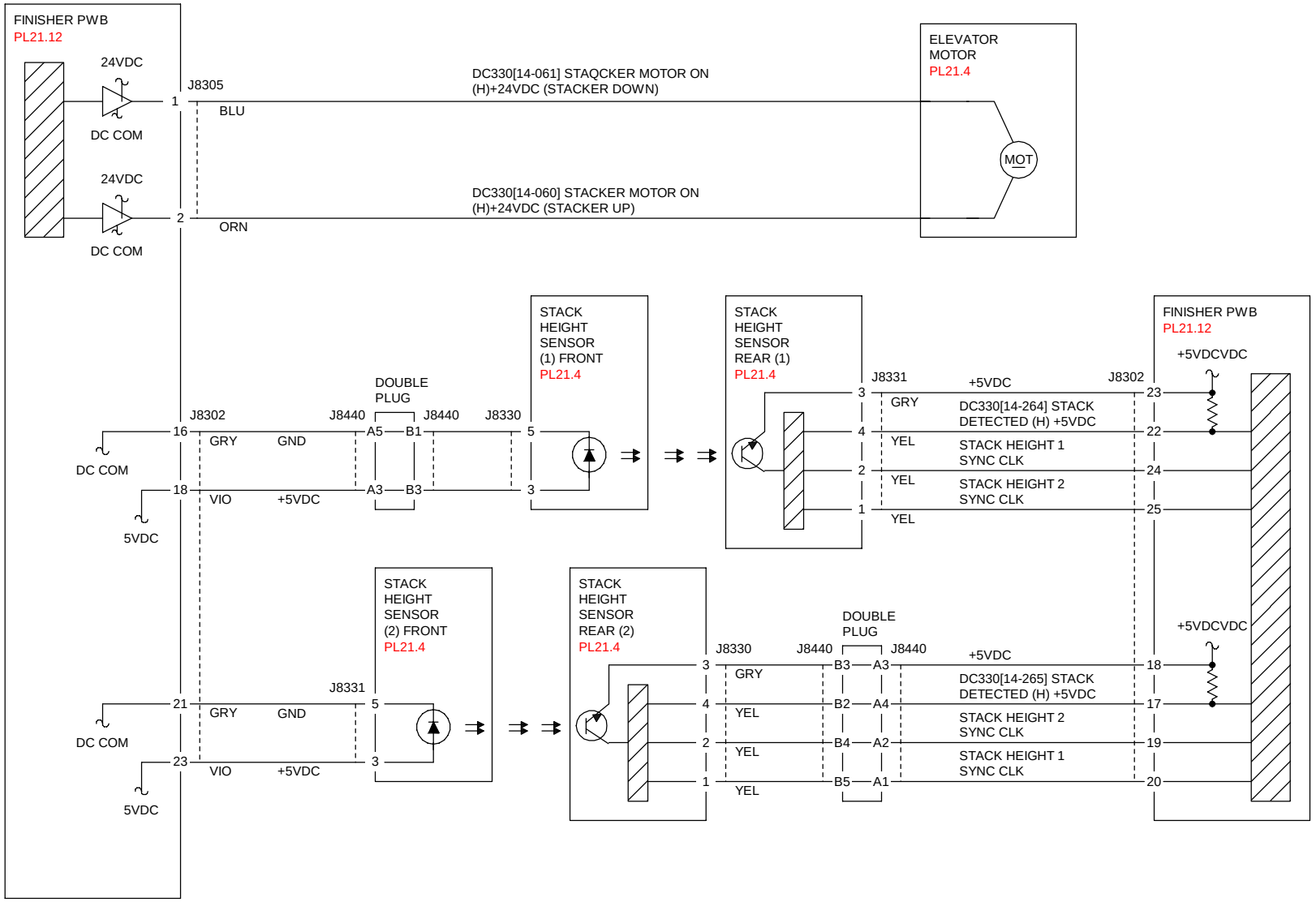
Select **Stop.** Go to Figure 1. Check continuity between the Elevator Motor and Finisher Main PWB. **The continuity check is OK.**

Y **N**

Repair the open circuit or short circuit.

Replace the Elevator Motor (PL 21.4). If the problem continues, replace the Finisher PWB (PL 21.12).

Select **Stop.** If the problem continues, replace the Finisher PWB (PL 21.12).



T712148A-COP.VSD.

Figure 1 Stacker Tray

012-212 Stacker Upper Limit Fail (A/P Finishers)

When Stack Height Sensor 2 ON was detected after the Stacker Tray had started lifting up.

Initial Actions

Check Items

- The Upper Limit SW for improper installation
- The Upper Limit SW connectors for connection failure
- The Elevator Motor for operation failure
- The Elevator Motor connectors for connection failure

Procedure

Enter Component Control [14-061] and [14-060], Elevator Motor (PL 21.4), alternately. Select Start. **The Elevator Motor runs.**

Y N

Select **Stop.** Go to Figure 1. Check continuity between the Elevator Motor and Finisher Main PWB. **The continuity check is OK.**

Y N

Repair the open circuit or short circuit.

Replace the Elevator Motor (PL 21.4). If the problem continues, replace the Finisher PWB (PL 21.12).

Select Stop. Select [14-262], Stacker No Paper Sensor (PL 21.4). Select Start. Block/unblock the Stacker No Paper Sensor. **The display changes.**

Y N

Select Stop. Go to Figure 1. Check continuity between the Stacker No Paper Sensor and Finisher PWB. **The continuity check is OK,**

Y N

Repair the open circuit or short circuit.

Replace the Stacker No Paper Sensor (PL 21.4). If the problem continues, replace the Finisher PWB

Select [14-263], Upper Limit Sensor (PL 21.4). Block/unblock the Upper Limit Sensor. Select **Start. The display changes.**

Y N

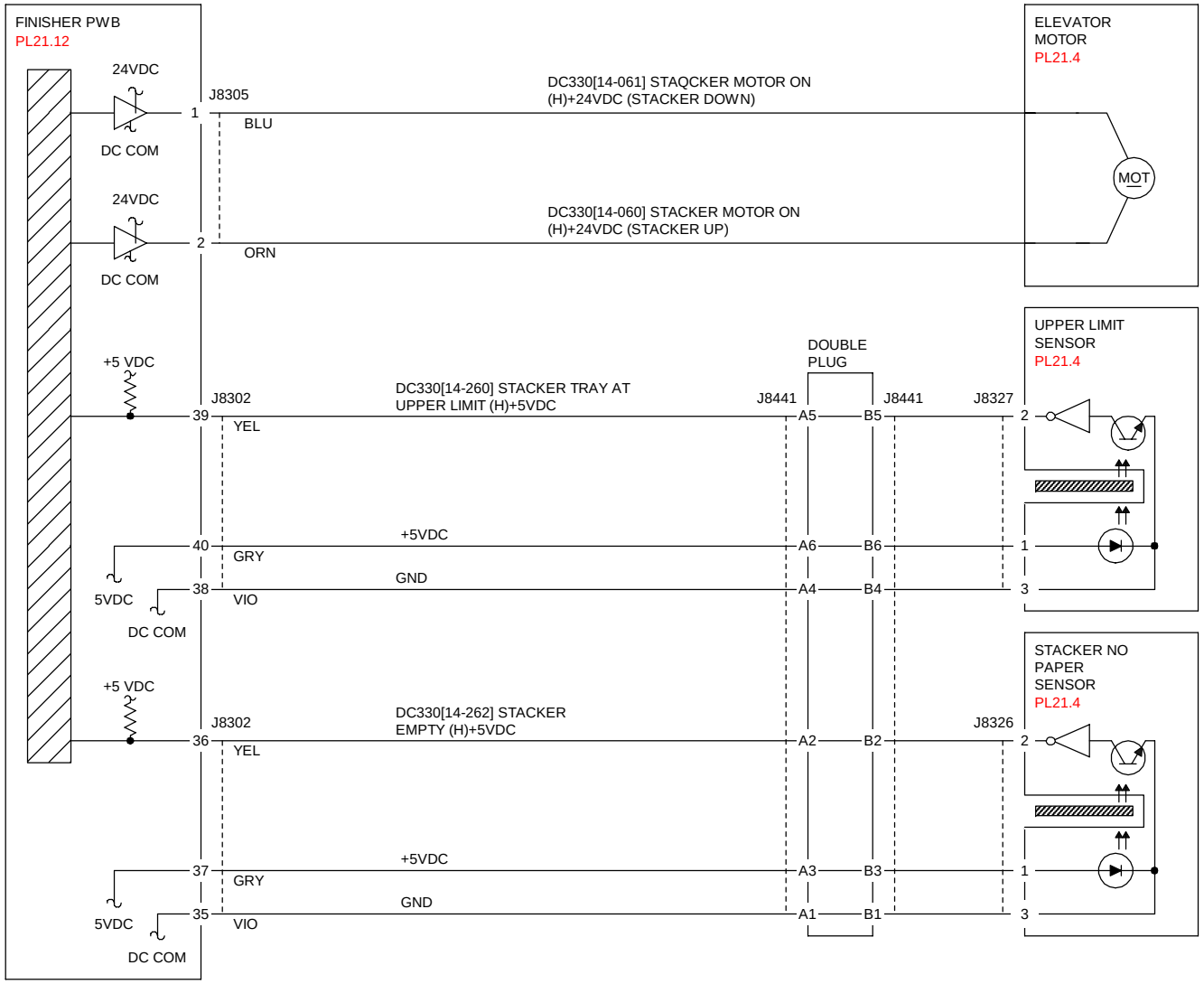
Select Stop. Go to Figure 1. Check continuity between the Upper Limit Sensor and Finisher PWB. **The continuity check is OK,**

Y N

Repair the open circuit or short circuit.

Replace the Upper Limit Sensor (PL 21.4). If the problem continues, replace the Finisher PWB

Select **Stop.** If the problem continues, replace the Finisher PWB (PL 21.12).



T712118A-COP.VSD.

Figure 1 Stacker Tray

012-213 Stacker Lower Limit Fail (A/P Finishers)

When Lower Limit Sensor ON was detected after the Stacker Tray had started driving down.

Initial Actions

Check Items

- The Upper Limit SW for improper installation
- The Upper Limit SW connectors for connection failure
- The Elevator Motor for operation failure
- The Elevator Motor connectors for connection failure

Procedure

Enter Component Control [14-061] and [14-060], Elevator Motor (PL 21.4), alternately. Select Start. **The Elevator Motor runs.**

Y **N**

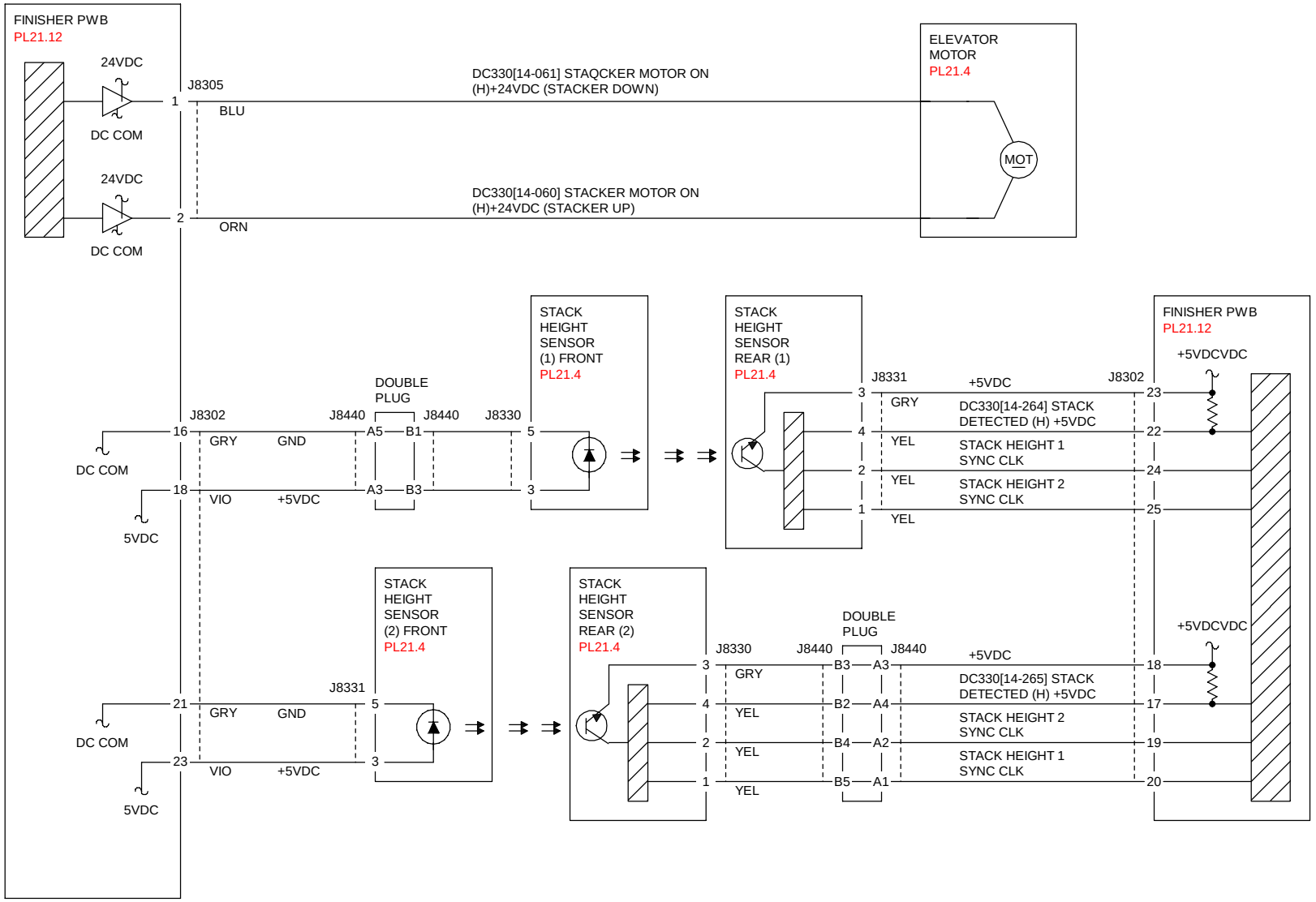
Select **Stop.** Go to Figure 1. Check continuity between the Elevator Motor and Finisher Main PWB. **The continuity check is OK.**

Y **N**

Repair the open circuit or short circuit.

Replace the Elevator Motor (PL 21.4). If the problem continues, replace the Finisher PWB (PL 21.12).

Select **Stop.** If the problem continues, replace the Finisher PWB (PL 21.12).



T712148A-COP.VSD.

Figure 1 Stacker Tray

012-221 Front Tamper Home Sensor On Fail (A/P Finishers)

The Front Tamper Home Sensor did not turn ON within the specified time after the Tamper Motor had started running.

Initial Actions

Check the following:

- Front Tamper Actuator for deformation
- Front Tamper Home Sensor for proper installation
- Front Tamper Home Sensor connectors
- Front Tamper Motor for proper operation
- Front Tamper Motor connectors

Procedure

Enter Component Control [14-020] and [14-023], Front Tamper Motor (PL 21.8), alternately. **Select Start. The Front Tamper Motor runs.**

Y **N**

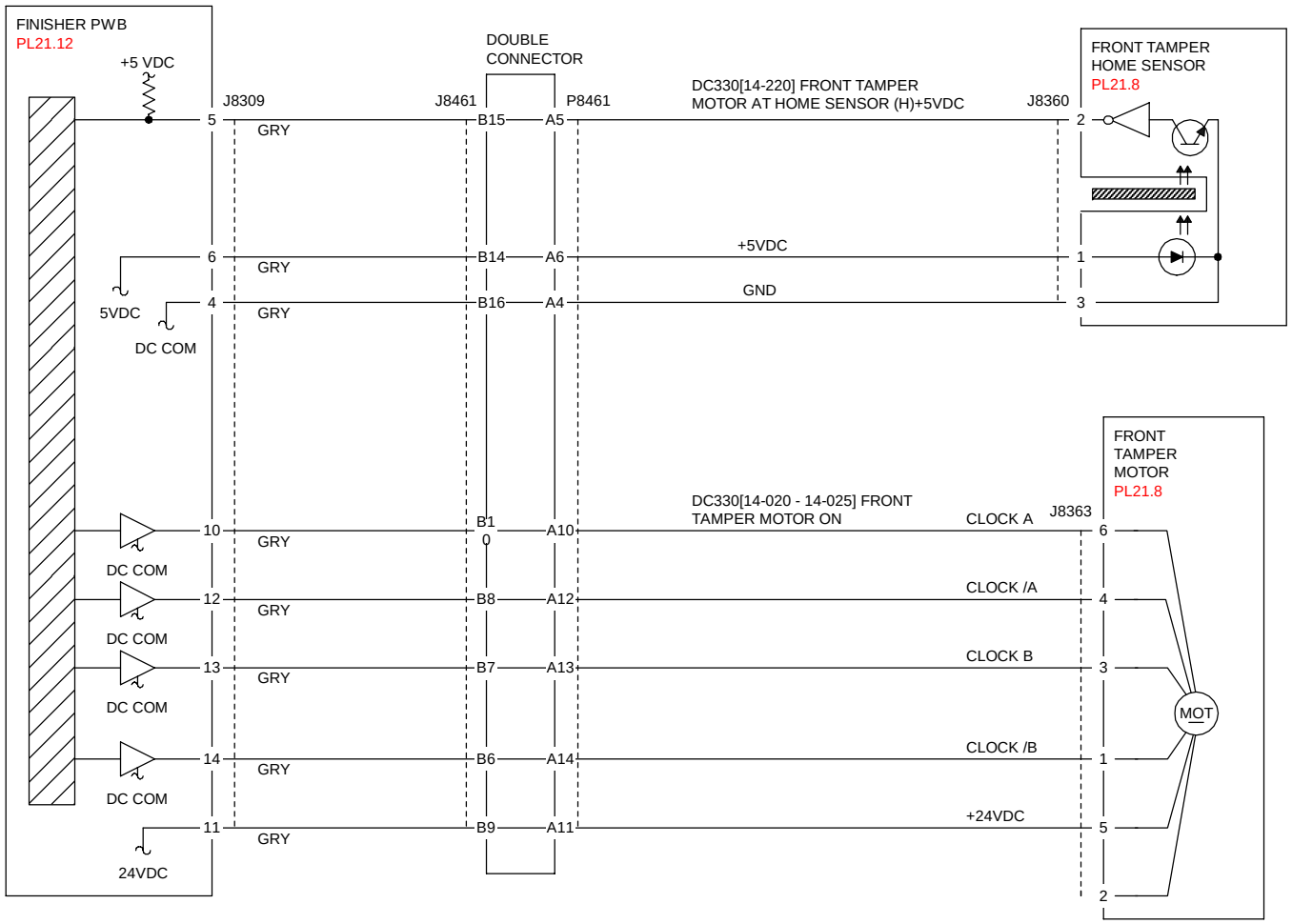
Select Stop. Go to Figure 1. Check circuit of the Front Tamper Motor. Refer to OF 99-9 RAP for troubleshooting procedure.

Select Stop. Select [14-220], Front Tamper Home Sensor (PL 21.8). Select Start. Actuate the sensor with a piece of paper. **The display changes.**

Y **N**

Select Stop. Go to Figure 1. Check circuit of the Front Tamper Home Sensor. Refer to OF 99-2 RAP for troubleshooting procedure.

Select **Stop.** If the problem continues, replace the Finisher Main PWB (PL 21.12).



T712110A-COP.VSD.

Figure 1 Front Tramper

012-223 Front Tamper Home Sensor Off Fail (A/P Finishers)

Front Tamper Home Sensor is not turned off within a specified time.Front Tamper Home Sensor is not turned off after the stop following Front Tamper Home Sensor OFF.

Initial Actions

Check the following:

- Front Tamper Actuator for deformation
- Front Tamper Home Sensor for proper installation
- Front Tamper Home Sensor connectors
- Front Tamper Motor for proper operation
- Front Tamper Motor connectors

Procedure

Enter Component Control [14-020] and [14-023], Front Tamper Motor (PL 21.5), alternately. **Select Start. The Front Tamper Motor runs.**

Y N

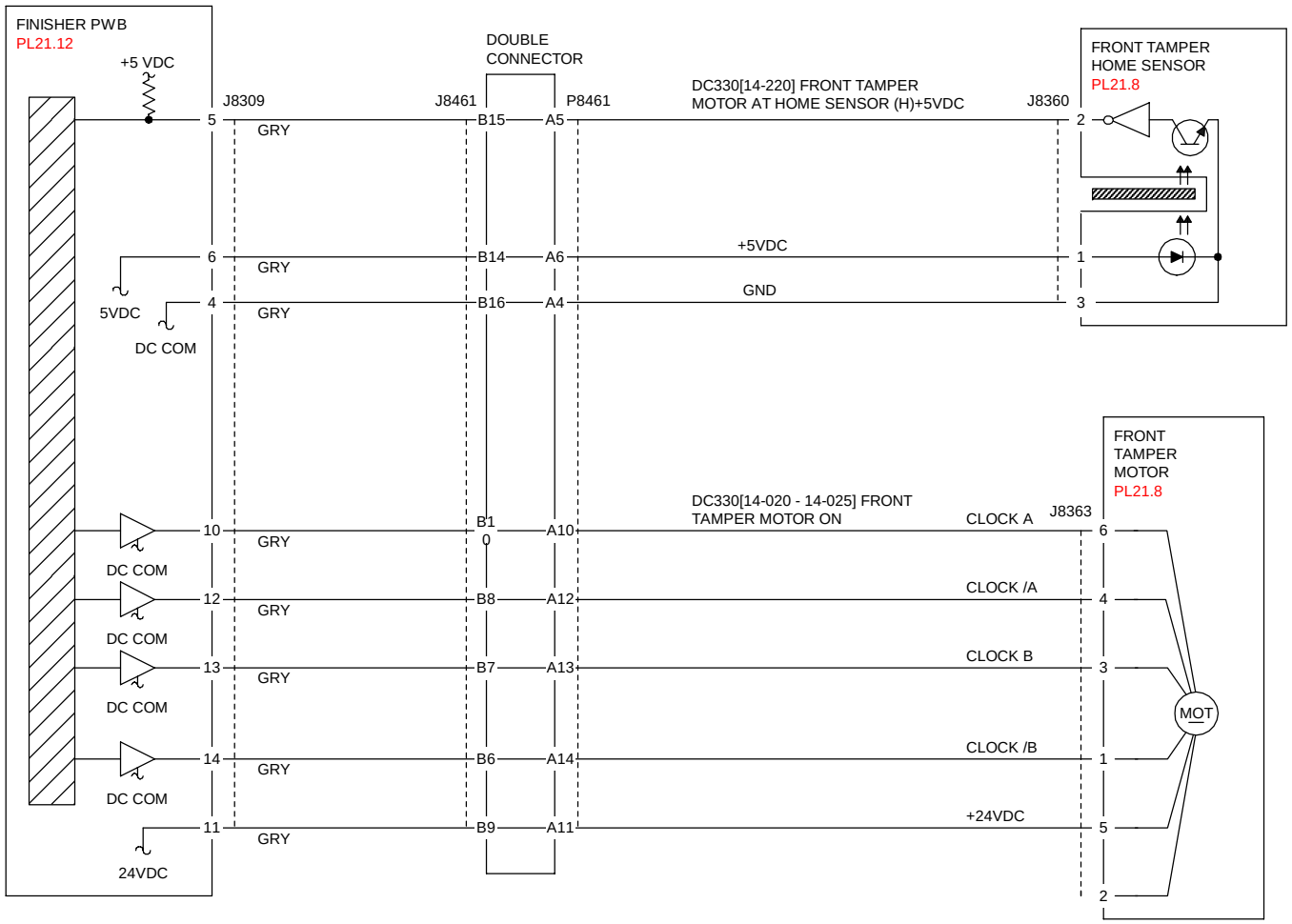
Select Stop. Go to Figure 1. Check circuit of the Front Tamper Motor. Refer to OF 99-9 RAP for troubleshooting procedure.

Select Stop. Select [14-220], Front Tamper Home Sensor (PL 21.5). Select Start. Actuate the sensor with a piece of paper. **The display changes.**

Y N

Select Stop. Go to Figure 1. Check circuit of the Front Tamper Home Sensor. Refer to OF 99-2 RAP for troubleshooting procedure.

Select **Stop.** If the problem continues, replace the Finisher Main PWB (PL 21.12).



T712110A-COP.VSD.

Figure 1 Front Tramper

012-224 Rear Tamper Home Sensor Off Fail (A/P Finishers)

Rear Tamper Home Sensor is not turned off within a specified time.Rear Tamper Home Sensor is not turned off after the stop following Rear Tamper Home Sensor OFF.

Initial Actions

Check the following:

- Rear Tamper Actuator for deformation
- Rear Tamper Home Sensor for proper installation
- Rear Tamper Home Sensor connectors
- Rear Tamper Motor for proper operation
- Rear Tamper Motor connectors

Procedure

Enter Component Control [14-026] and [14-029], Rear Tamper Motor (PL 21.8), alternately. **Select Start. The Rear Tamper Motor runs.**

Y N

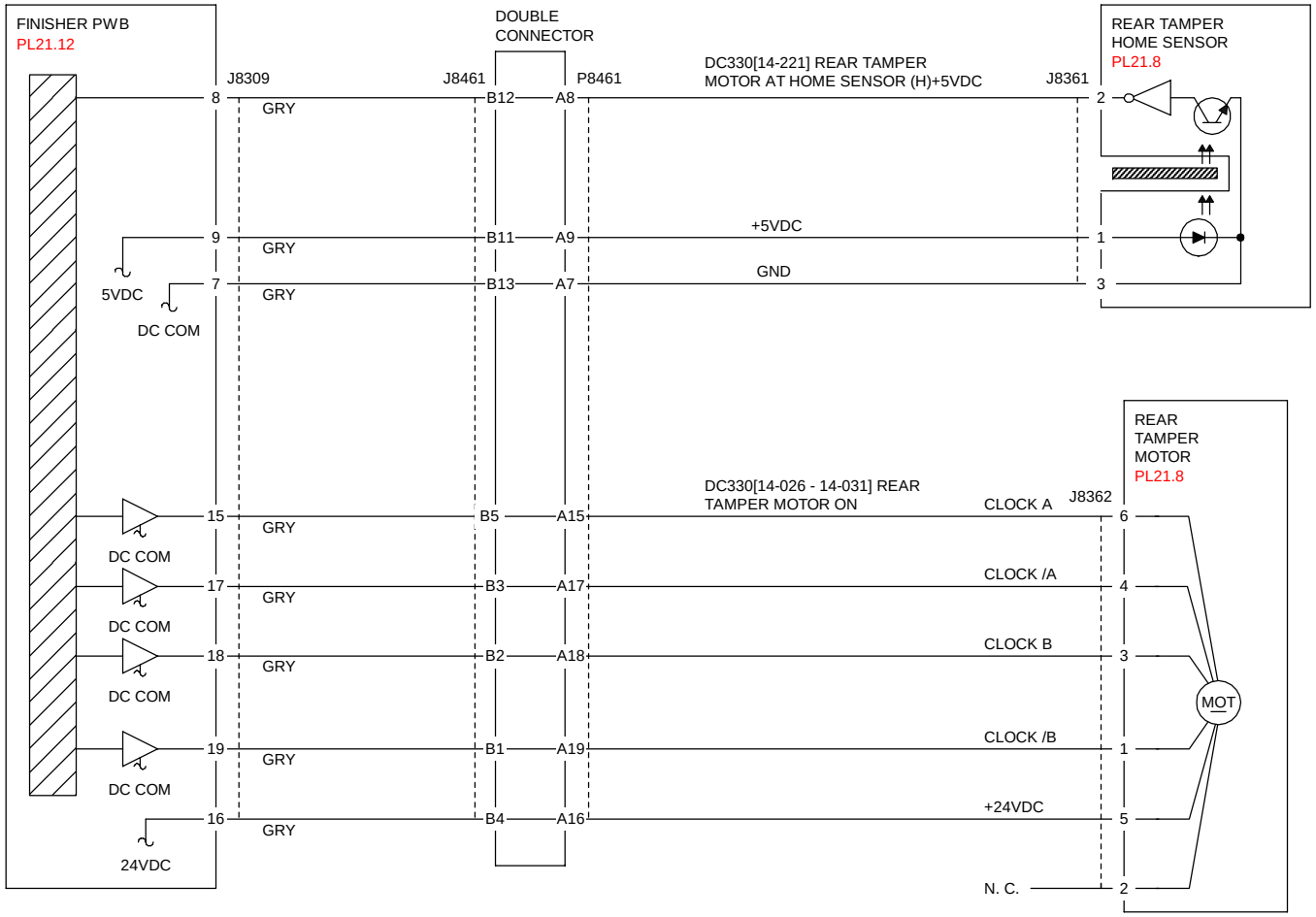
Select Stop. Go to Figure 1. Check circuit of the Rear Tamper Motor. Refer to OF 99-9 RAP for troubleshooting procedure.

Select Stop. Select [14-220], Rear Tamper Home Sensor (PL 21.8). Select Start. Actuate the sensor with a piece of paper. **The display changes.**

Y N

Select Stop. Go to Figure 1. Check circuit of the Rear Tamper Home Sensor. Refer to OF 99-2 RAP for troubleshooting procedure.

Select Stop. If the problem continues, replace the Finisher Main PWB (PL 21.12).



T712111A-COP.VSD.

Figure 1 Rear Tamper

012-225 Booklet Tamper F Home Sensor ON Fail (A/P Finishers)

Tamper Home Sensor Front is not turned on within 1000msec from motor ON while Booklet Tamper Front is returning to Home.

Initial Actions

- The Booklet Tamper Home Sensor Front for improper installation
- The Booklet Tamper Home Sensor Front connectors for connection failure
- The Booklet Tamper Motor Front connectors for connection failure
- The Booklet Tamper Motor Front for improper installation
- The gear part for wear or damage
- The Booklet Tamper Front for deformation

Procedure

Enter Component Control [13-048] and DC330 [13-052], Booklet Tamper Motor Front (PL 21.19), alternately. Select Start. **The Booklet Tamper Motor Front energizes.**

Y N

Select Stop. Go to Figure 1. Check continuity between the Booklet Tamper Motor Front and the Booklet PWB and the Booklet PWB and the Finisher PWB. **The continuity check is OK.**

Y N

Repair the open circuit or short circuit.

Replace the Booklet Tamper Motor Front (PL 21.19). If the problem continues, replace the Booklet PWB (PL 21.12). If the problem persists, replace Finisher PWB (PL 21.12).

Select Stop. Select [13-134], Booklet Tamper Home Sensor Front (PL 21.19). Select Start. Block/unblock the Booklet Tamper Home Sensor Front. **The display changes.**

Y N

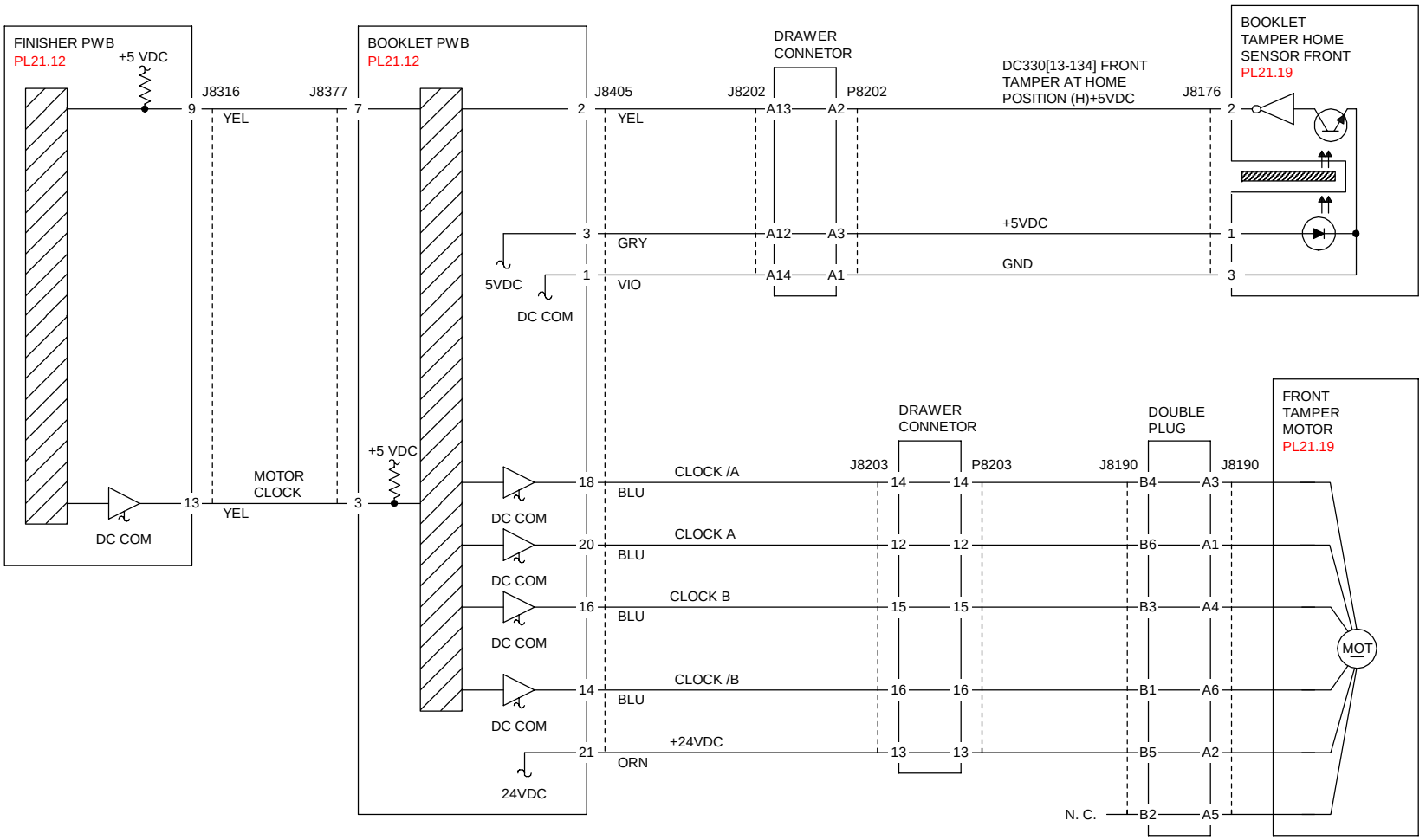
Select Stop. Go to Figure 1. Check continuity between the Booklet Tamper Home Sensor Front and the Booklet PWB and the Booklet PWB and the Finisher PWB. **The continuity check is OK.**

Y N

Repair the open circuit or short circuit.

Replace the Booklet Tamper Home Sensor Front (PL 21.19). If the problem continues, replace the Booklet PWB (PL 21.12). If the problem persists, replace Finisher PWB (PL 21.12).

Select Stop. If the problem continues, replace the Finisher PWB (PL 21.12).



T712140A-COP.VSD.

Figure 1 Booklet Tamper Front

012-226 Booklet Tamper F Home Sensor OFF Fail (A/P Finishers)

Even when Booklet tamper Front motor outputs 75pulse, Tamper Front Home Sensor is not turned off.

Initial Actions

- The Booklet Tamper Home Sensor Front for improper installation
- The Booklet Tamper Home Sensor Front connectors for connection failure
- The Booklet Tamper Motor Front connectors for connection failure
- The Booklet Tamper Motor Front for improper installation
- The gear part for wear or damage
- The Booklet Tamper Front for deformation

Procedure

Enter Component Control [13-048] and DC330 [13-052], Booklet Tamper Motor Front (PL 21.19), alternately. Select Start. **The Booklet Tamper Motor Front energizes.**

Y N

Select Stop. Go to Figure 1. Check continuity between the Booklet Tamper Motor Front and the Booklet PWB and the Booklet PWB and the Finisher PWB. **The continuity check is OK.**

Y N

Repair the open circuit or short circuit.

Replace the Booklet Tamper Motor Front (PL 21.19). If the problem continues, replace the Booklet PWB (PL 21.12). If the problem persists, replace Finisher PWB (PL 21.12).

Select Stop. Select [13-134], Booklet Tamper Home Sensor Front (PL 21.19). Select Start. Block/unblock the Booklet Tamper Home Sensor Front. **The display changes.**

Y N

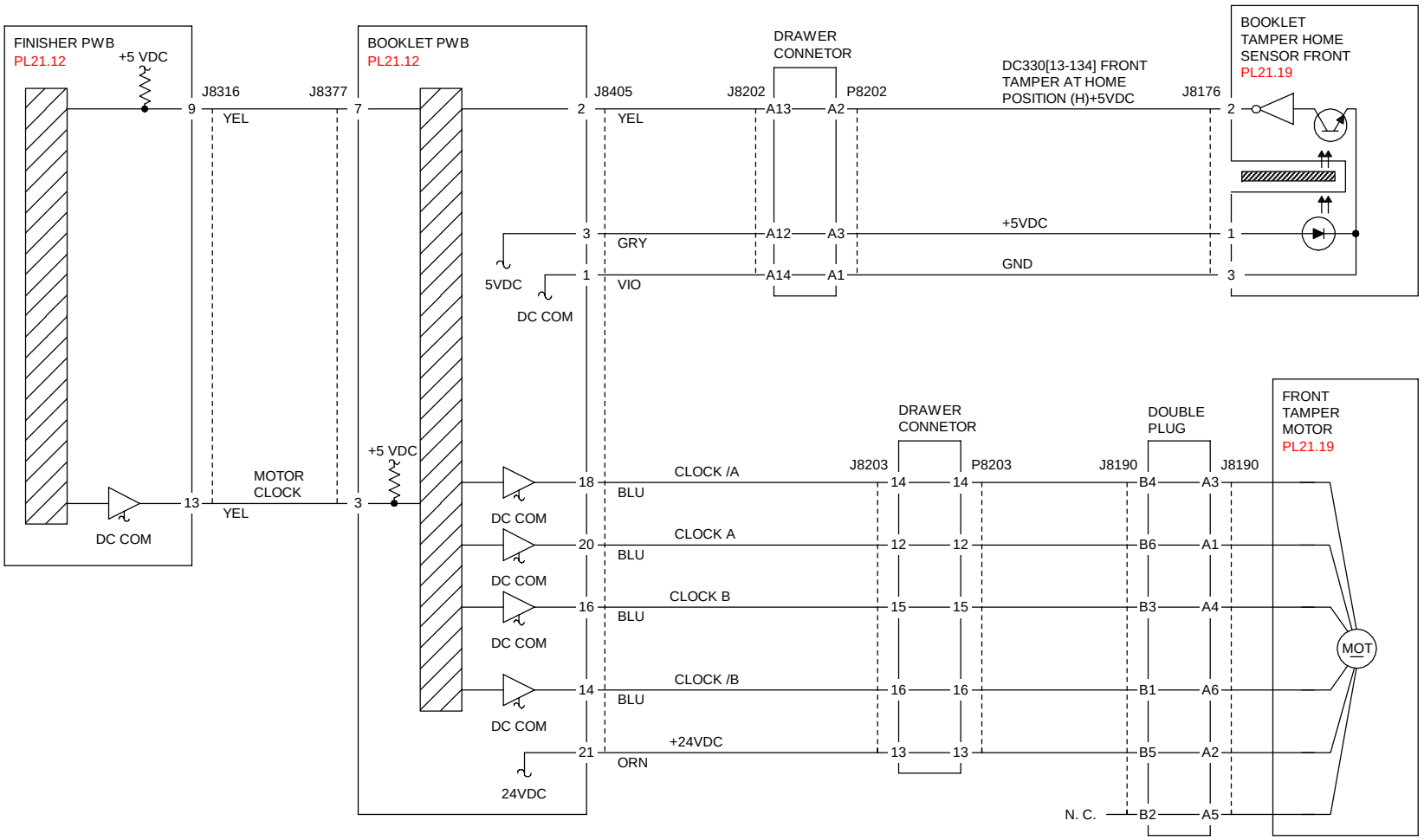
Select Stop. Go to Figure 1. Check continuity between the Booklet Tamper Home Sensor Front and the Booklet PWB and the Booklet PWB and the Finisher PWB. **The continuity check is OK.**

Y N

Repair the open circuit or short circuit.

Replace the Booklet Tamper Home Sensor Front (PL 21.19). If the problem continues, replace the Booklet PWB (PL 21.12). If the problem persists, replace Finisher PWB (PL 21.12).

Select Stop. If the problem continues, replace the Finisher PWB (PL 21.12).



T712140A-COP.VSD.

Figure 1 Booklet Tamper Front

012-227 Booklet End Guide Home Sensor OFF Fail (A/P Finishers)

Even when Booklet EndGuide motor outputs 200 pulse after the start, Booklet EndGuide Home Sensor is not turned off.

Initial Actions

- The Booklet End Guide Home Sensor for improper installation
- The Booklet End Guide Home Sensor connectors for connection failure
- The Booklet End Guide Motor connectors for connection failure
- The Guide for deformation
- The Guide for a foreign substance

Procedure

Enter Component Control [13-013] and [13-016], Booklet End Guide Motor (PL 21.17), alternately. Select Start. **The Booklet End Guide Motor energizes.**

Y N

Select Stop. Go to Figure 1. Check continuity between the Booklet End Guide Motor and the Booklet PWB and the Booklet PWB and the Finisher PWB. **The continuity check is OK.**

Y N

Repair the open circuit or short circuit.

Replace the Booklet End Guide Motor (PL 21.17). If the problem continues, replace the Booklet PWB (PL 21.12). If the problem persists, replace Finisher PWB (PL 21.12).

Select Stop. Select [13-137]. Block/unblock the Booklet End Guide Home Sensor to the light with paper strip. Select Start. **The display changes.**

Y N

Select Stop. Go to Figure 1. Check continuity between the Booklet End Guide Home Sensor and the Booklet PWB and the Booklet PWB and the Finisher PWB. **The continuity check is OK.**

Y N

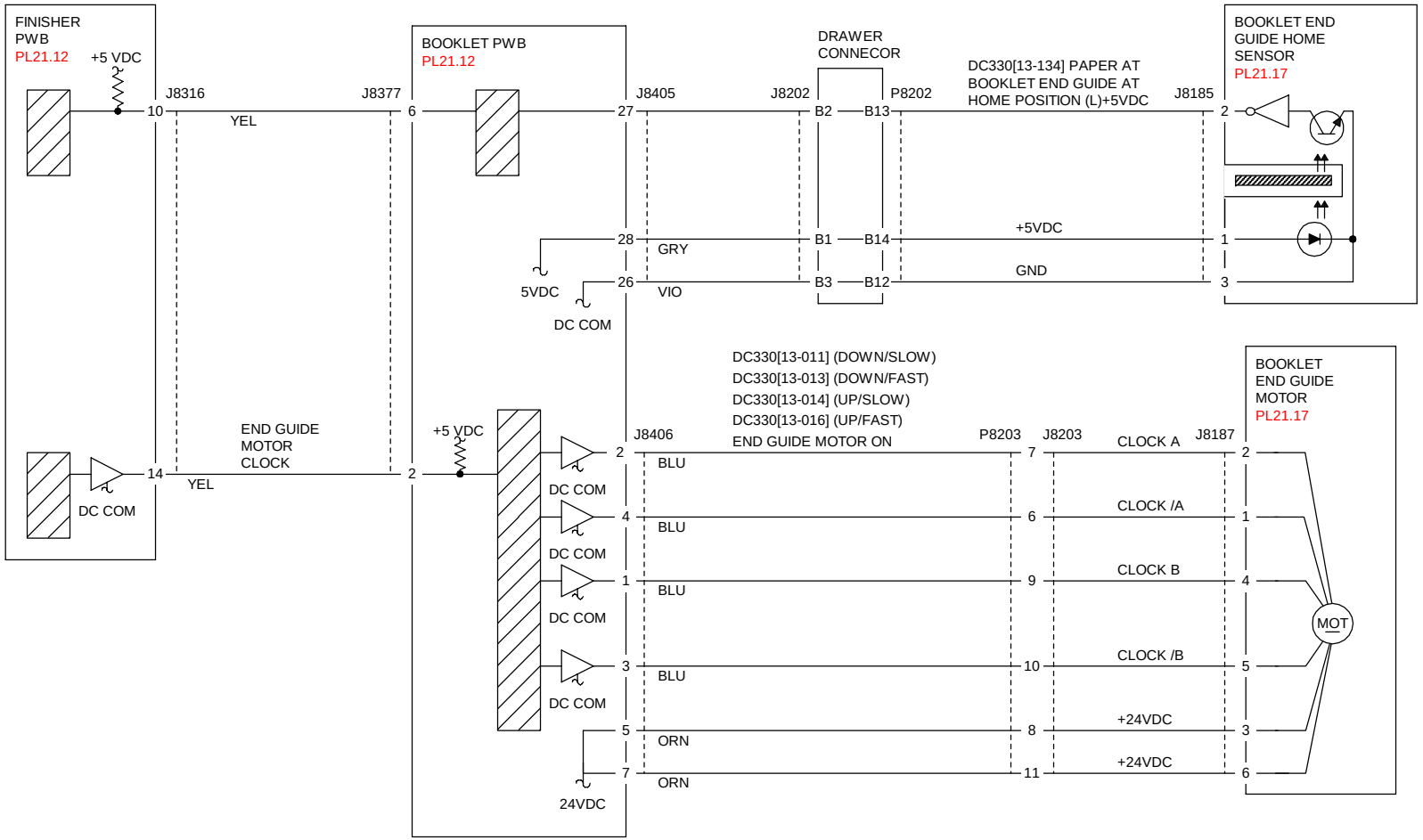
Repair the open circuit or short circuit.

Replace the Booklet End Guide Home Sensor (PL 21.17). If the problem continues, replace the Booklet PWB (PL 21.12). If the problem persists, replace Finisher PWB (PL 21.12).

Check the following:

- The Booklet End Guide Motor for proper installation
- Booklet End Guide Belt for proper tension
- Booklet End Guide Belt for wear or damage

If the above checks are OK, replace the Finisher PWB (PL 21.12).



T712144A-COP.VSD.

Figure 1 Booklet End Guide

012-228 Booklet End Guide Home Sensor ON Fail (A/P Finishers)

Booklet End Guide Home Sensor is not turned on within 2000ms from motor ON while Booklet End Guide is returning to Home.

Initial Actions

- The Booklet End Guide Home Sensor for improper installation
- The Booklet End Guide Home Sensor connectors for connection failure
- The Booklet End Guide Motor connectors for connection failure
- The Guide for deformation
- The Guide for a foreign substance

Procedure

Enter Component Control [13-013] and [13-016], Booklet End Guide Motor (PL 21.17), alternately. Select Start. **The Booklet End Guide Motor energizes.**

Y N

Select Stop. Go to Figure 1. Check continuity between the Booklet End Guide Motor and the Booklet PWB and the Booklet PWB and the Finisher PWB. **The continuity check is OK.**

Y N

Repair the open circuit or short circuit.

Replace the Booklet End Guide Motor (PL 21.17). If the problem continues, replace the Booklet PWB (PL 21.12). If the problem persists, replace Finisher PWB (PL 21.12).

Select Stop. Enter [13-137]. Select Start. Block/unblock the Booklet End Guide Home Sensor. **The display changes.**

Y N

Select Stop. Go to Figure 1. Check continuity between the Booklet End Guide Home Sensor and the Booklet PWB and the Booklet PWB and the Finisher PWB. **The continuity check is OK.**

Y N

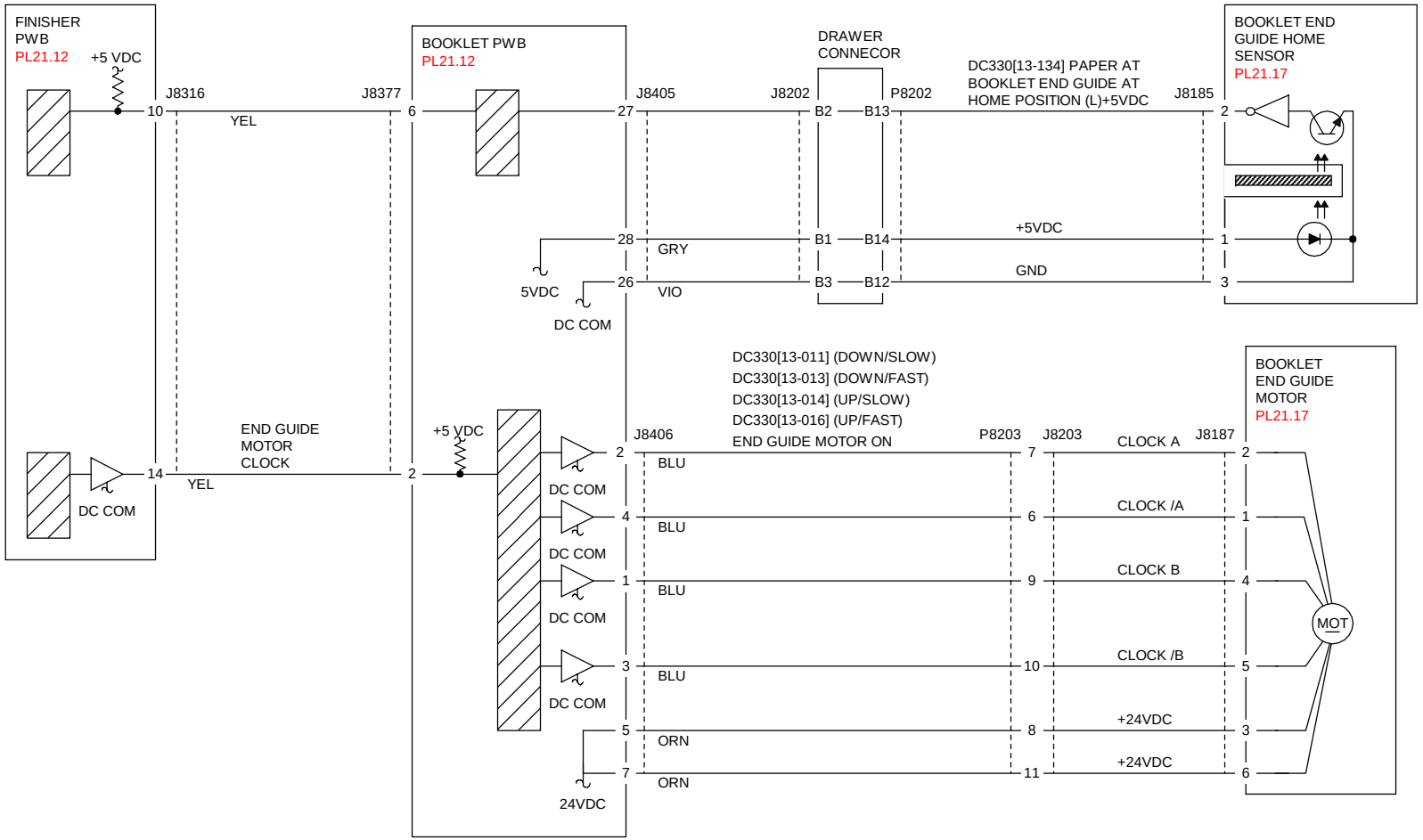
Repair the open circuit or short circuit.

Replace the Booklet End Guide Home Sensor (PL 21.17). If the problem continues, replace the Booklet PWB (PL 21.12). If the problem persists, replace Finisher PWB (PL 21.12).

Check the following:

- The Booklet End Guide Motor for proper installation
- Booklet End Guide Belt for proper tension
- Booklet End Guide Belt for wear or damage

If the above checks are OK, replace the Finisher PWB (PL 21.12).



T712144A-COP.VSD.

Figure 1 Booklet End Guide

012-229 Booklet Tamper R Home Sensor ON Fail (A/P Finishers)

Tamper Home Sensor Rear is not turned on within 1000msec from motor ON while Booklet Tamper Rear is returning to Home.

Initial Actions

- The Booklet Tamper Home Sensor Rear for improper installation
- The Booklet Tamper Home Sensor Rear connectors for connection failure
- The Booklet Tamper Motor Rear connectors for connection failure
- The Booklet Tamper Motor Rear for improper installation
- The gear part for wear or damage
- The Booklet Tamper Rear for deformation

Procedure

Enter Component Control [13-056] and DC330 [13-060], Booklet Tamper Motor Rear (PL 21.19), alternately. Select Start. **The Booklet Tamper Motor Rear energizes.**

Y N

Select Stop. Go to Figure 1. Check continuity between the Booklet Tamper Motor Rear and the Booklet PWB and the Booklet PWB and the Finisher PWB. **The continuity check is OK.**

Y N

Repair the open circuit or short circuit.

Replace the Booklet Tamper Motor Rear (PL 21.19). If the problem continues, replace the Booklet PWB (PL 21.12). If the problem persists, replace Finisher PWB (PL 21.12).

Select Stop. Select [13-136], Booklet Tamper Home Sensor Rear. Select Start. Block/unblock the Booklet Tamper Home Sensor Front. **The display changes.**

Y N

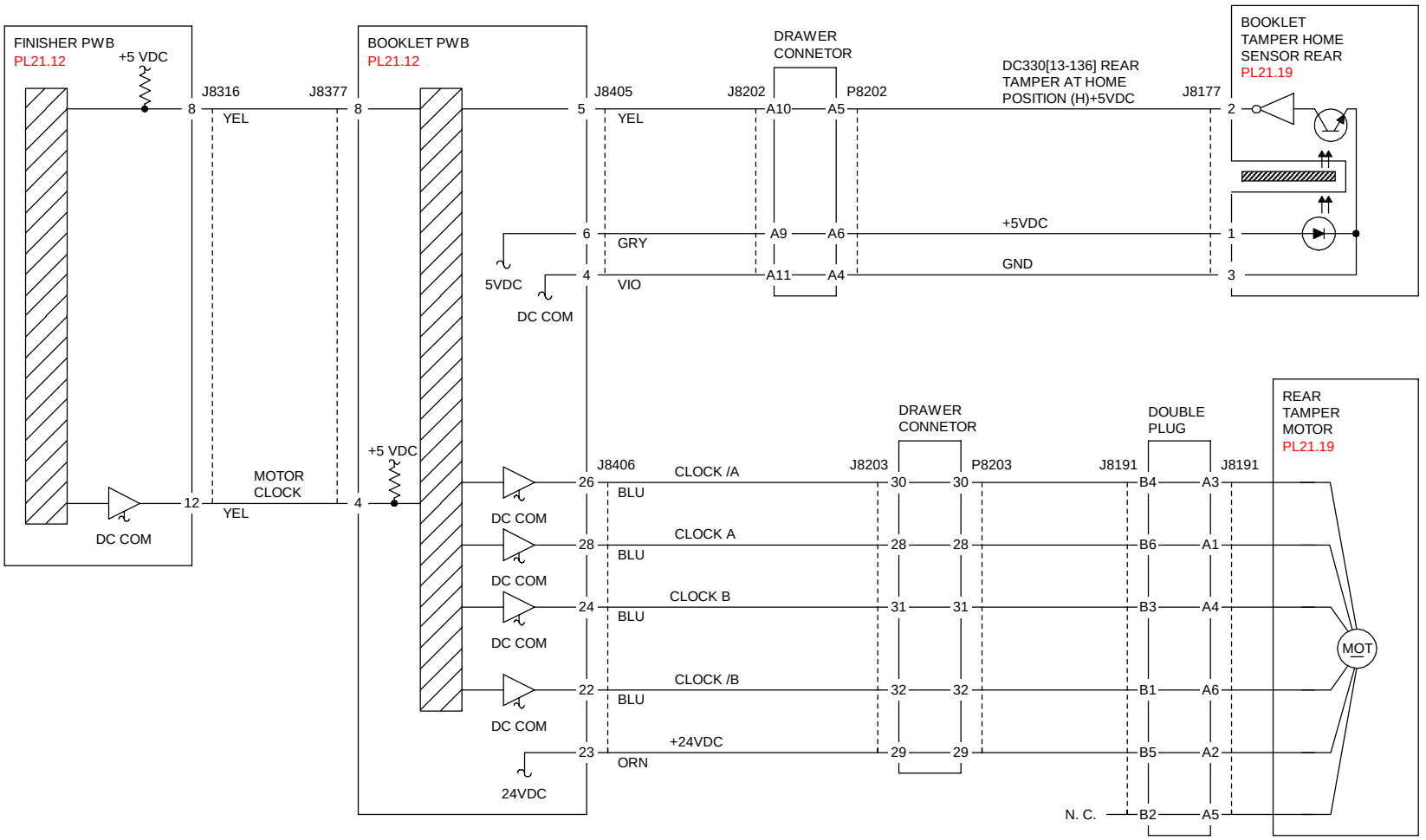
Select Stop. Go to Figure 1. Check continuity between the Booklet Tamper Home Sensor Rear and the Booklet PWB and the Booklet PWB and the Finisher PWB. **The continuity check is OK.**

Y N

Repair the open circuit or short circuit.

Replace the Booklet Tamper Home Sensor Rear (PL 21.19). If the problem continues, replace the Booklet PWB (PL 21.12). If the problem persists, replace Finisher PWB (PL 21.12).

Select Stop. If the problem continues, replace the Finisher PWB (PL 21.12).



T712139A-COP.VSD.

Figure 1 Booklet Tamper Rear

012-230 Booklet Tamper R Home Sensor OFF Fail (A/P Finishers)

Even when Booklet tamper Rear motor outputs 75pulse, Tamper Rear Home Sensor is not turned off.

Initial Actions

- The Booklet Tamper Home Sensor Rear for improper installation
- The Booklet Tamper Home Sensor Rear connectors for connection failure
- The Booklet Tamper Motor Rear connectors for connection failure
- The Booklet Tamper Motor Rear for improper installation
- The gear part for wear or damage
- The Booklet Tamper Rear for deformation

Procedure

Enter Component Control [13-056] and [13-060], Booklet Tamper Motor Rear (PL 21.19), alternately. Select Start. **The Booklet Tamper Motor Rear energizes.**

Y N

Select Stop. Go to Figure 1. Check continuity between the Booklet Tamper Motor Rear and the Booklet PWB and the Booklet PWB and the Finisher PWB. **The continuity check is OK.**

Y N

Repair the open circuit or short circuit.

Replace the Booklet Tamper Motor Rear (PL 21.19). If the problem continues, replace the Booklet PWB (PL 21.12). If the problem persists, replace Finisher PWB (PL 21.12).

Select Stop. Select [13-136], Booklet Tamper Home Sensor Rear (PL 21.19). Select Start. Block/unblock the Booklet Tamper Home Sensor Front. **The display changes.**

Y N

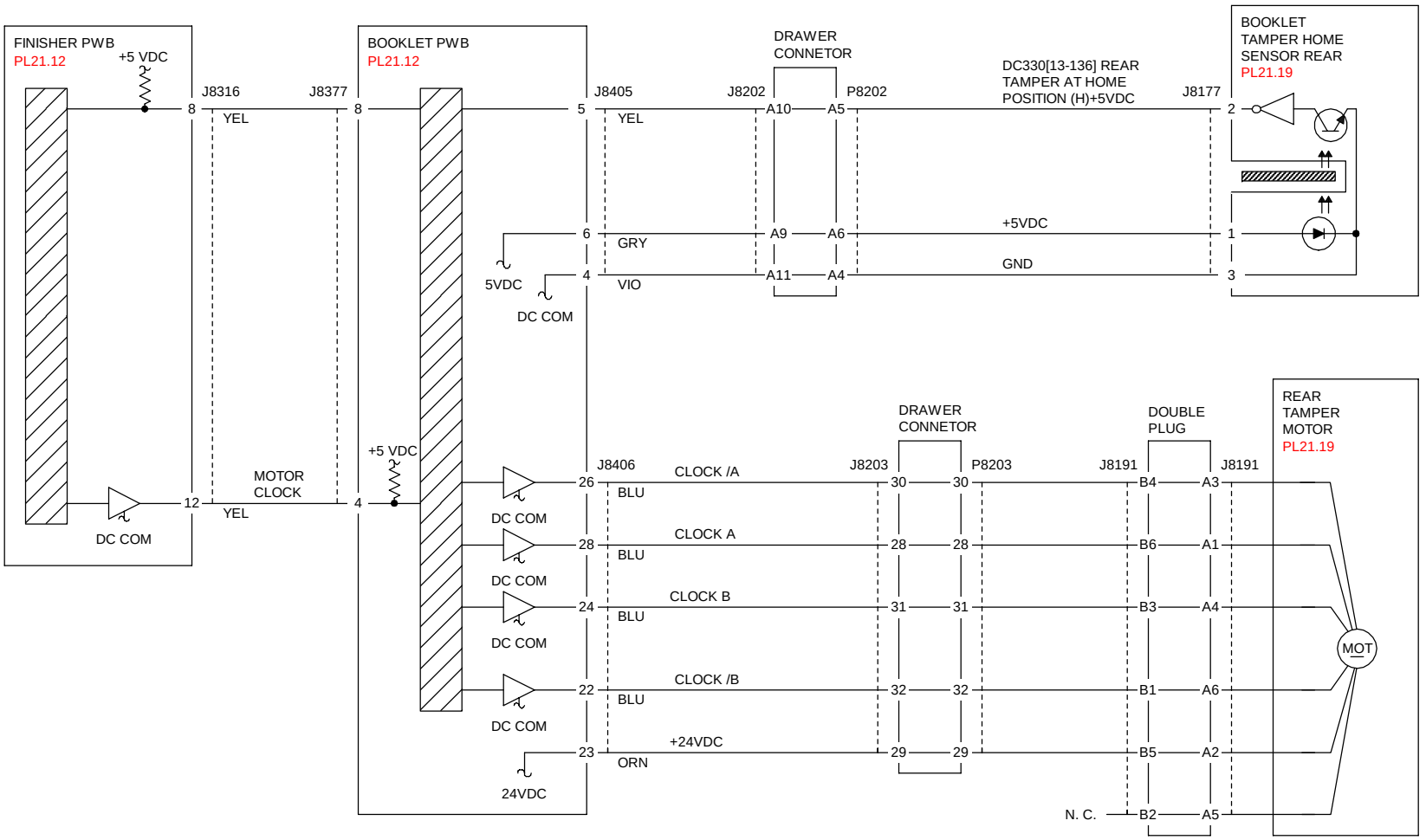
Select Stop. Go to Figure 1. Check continuity between the Booklet Tamper Home Sensor Rear and the Booklet PWB and the Booklet PWB and the Finisher PWB. **The continuity check is OK.**

Y N

Repair the open circuit or short circuit.

Replace the Booklet Tamper Home Sensor Rear (PL 21.19). If the problem continues, replace the Booklet PWB (PL 21.12). If the problem persists, replace Finisher PWB (PL 21.12).

Select Stop. If the problem continues, replace the Finisher PWB (PL 21.12).



T712139A-COP.VSD.

Figure 1 Booklet Tamper Rear

012-231 Puncher Home Sensor ON Fail (A/P Finishers)

The Puncher Home Sensor did not turn ON within the specified time after the Puncher Motor started running.

Initial Actions

Check the following:

- Puncher Home Actuator for deformation
- Puncher Home Sensor for proper installation
- Puncher Home Sensor connectors
- Puncher Motor for proper operation
- Puncher Motor connectors

Procedure

Enter Component Control [14-078] and [14-075], Puncher Motor (PL 21.8), alternately. **Select Start. The Puncher Motor runs.**

Y N

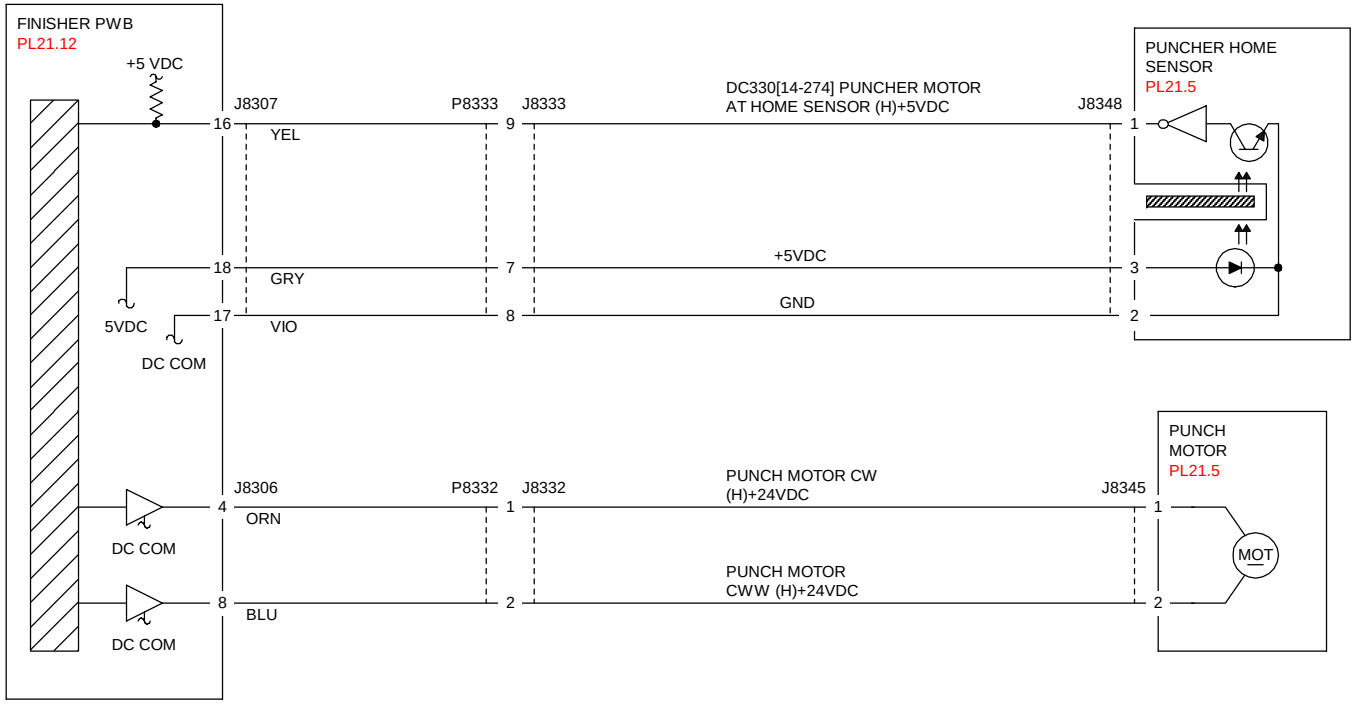
Select Stop. Go to Figure 1. Check circuit of the Punch Motor. Refer to OF 99-9 RAP for troubleshooting procedure.

Select Stop. Select [14-271], Puncher Home Sensor (PL 21.8). Select Start. Actuate the sensor with a piece of paper. **The display changes.**

Y N

Go to Figure 1. Check circuit of the Puncher Home Sensor. Refer to OF 99-2 RAP for troubleshooting procedure.

Select Stop. If the problem continues, replace the Finisher Main PWB (PL 21.12).



T712112A-COP.VSD.

Figure 1 Puncher Home

012-232 Puncher Home Sensor OFF Fail (A/P Finishers)

The Puncher Home Sensor did not turn OFF within 100 msec. after the Puncher Motor had started running.

Initial Actions

Check the following:

- Puncher Home Actuator for deformation
- Puncher Home Sensor for proper installation
- Puncher Home Sensor connectors
- Puncher Motor for proper operation
- Puncher Motor connectors

Procedure

Enter Component Control [14-078] and [14-075], Puncher Motor (PL 21.8), alternately. **Select Start. The Puncher Motor runs.**

Y N

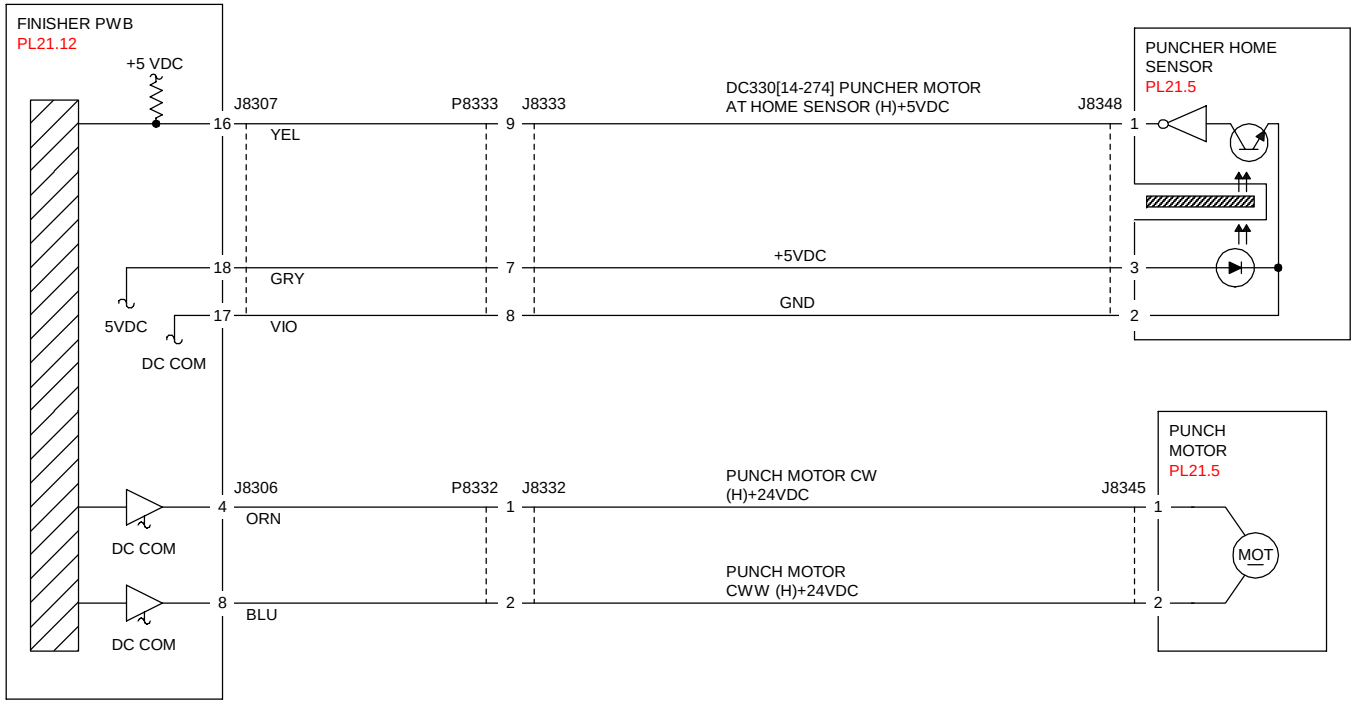
Select Stop. Go to Figure 1. Check circuit of the Punch Motor. Refer to OF 99-9 RAP for troubleshooting procedure.

Select Stop. Select [14-271], Puncher Home Sensor (PL 21.8). Select Start. Actuate the sensor with a piece of paper. **The display changes.**

Y N

Select Stop. Go to Figure 1. Check circuit of the Puncher Home Sensor. Refer to OF 99-2 RAP for troubleshooting procedure.

Select Stop. If the problem continues, replace the Finisher Main PWB (PL 21.12).



T712112A-COP.VSD.

Figure 1 Puncher Home

012-233 Puncher Move Home Sensor ON Fail (A/P Finishers)

Puncher Move Home Sensor is not turned on after the lapse of 400(300*500**)msec from operation start.Puncher Move Home Sensor is not turned on after the stop following Puncher Move Home Sensor ON.

Initial Actions

Check the following:

- Actuator for deformation
- Puncher Move Home Sensor for improper installation
- Puncher Move Home Sensor connectors for connection failure
- Puncher Move Motor connectors for connection failure

Procedure

Enter Component Control [14-073] and [14-074], Puncher Move Motor (PL 21.5), alternately. Select Start. **The Puncher Move Motor energizes.**

Y **N**

Select Stop. Go to Figure 1. Check continuity between the Puncher Move Motor and Finisher Main PWB. **The continuity check is OK.**

Y **N**

Repair the open circuit or short circuit.

Replace the Puncher Move Motor (PL 21.5). If the problem continues, replace the Finisher PWB (PL 21.12).

Select Stop. Select [14-270], Puncher Move Home Sensor (PL 21.5). Select Start. Block/unblock the Puncher Move Home Sensor. **The display changes.**

Y **N**

Select Stop. Go to Figure 1. Check continuity between the Puncher Move Home Sensor and Finisher Main PWB. **The continuity check is OK.**

Y **N**

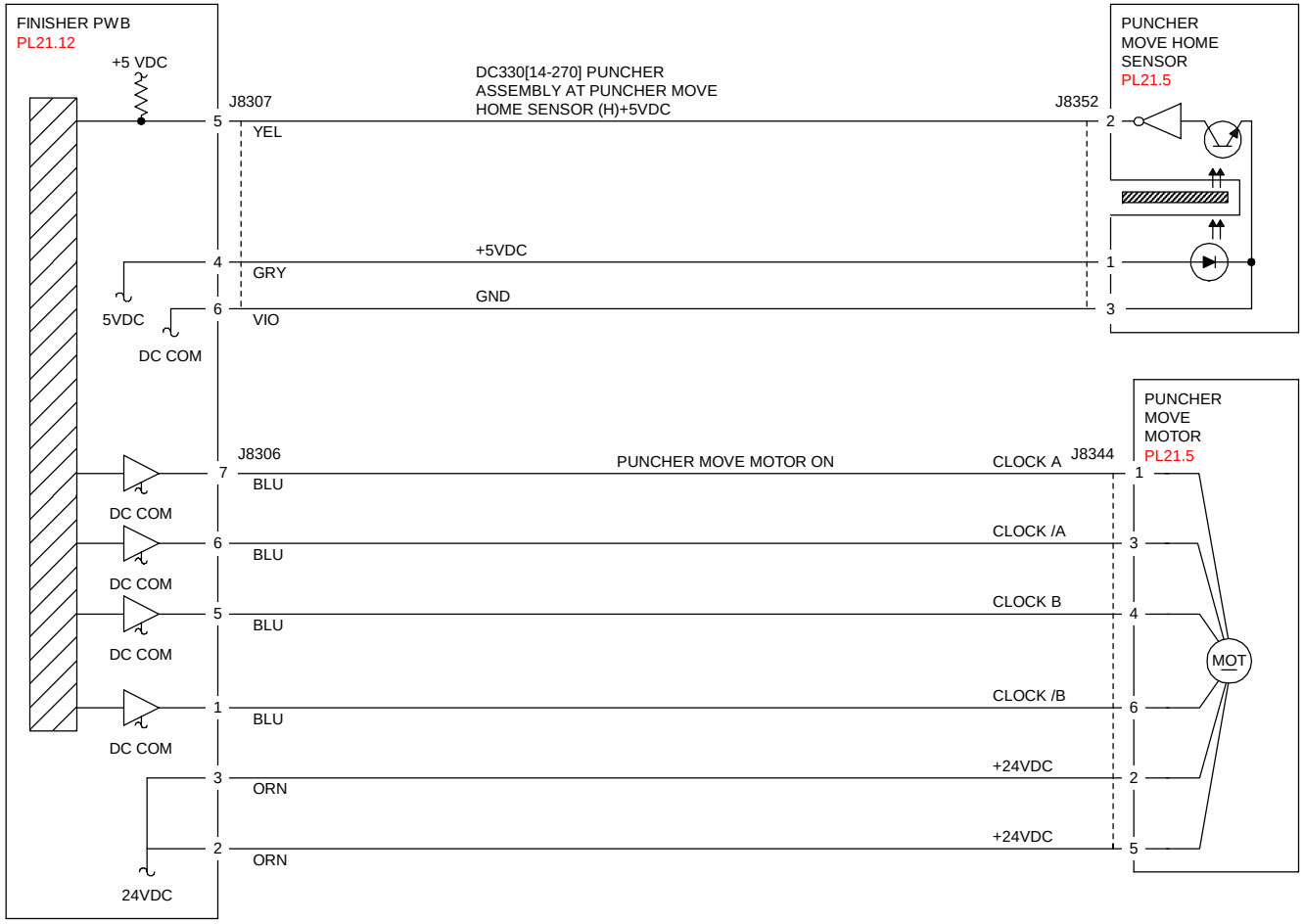
Repair the open circuit or short circuit.

Replace the Puncher Move Home Sensor (PL 21.5). If the problem continues, replace the Finisher PWB (PL 21.12).

Select Stop. Check the following:

- Puncher Move Motor rack and gear for binding, wear, or damage

If the above check is OK, replace the Finisher Main PWB (PL 21.12).



T712117A-COP.VSD.

Figure 1 Puncher Move Home

012-234 Puncher Move Home Sensor OFF Fail (A/P Finishers)

Puncher Move Home Sensor not turned off after the lapse of 1000 (100*) msec from operation start.Puncher Move Home Sensor is not turned off after the stop following Puncher Move Home Sensor OFF.

Initial Actions

- The Actuator for deformation
- The Puncher Move Home Sensor for improper installation
- The Puncher Move Home Sensor connectors for connection failure
- The Puncher Move Motor connectors for connection failure

Procedure

Enter Component Control [14-071] and [14-073], Puncher Move Motor (PL 21.5), alternately. Select Start. **The Puncher Move Motor run.**

Y N

Select Stop. Go to Figure 1. Check continuity between the Puncher Move Motor and Finisher Main PWB. **The continuity check is OK.**

Y N

Repair the open circuit or short circuit.

Replace the Puncher Move Motor (PL 21.5). If the problem continues, replace the Finisher PWB (PL 21.12).

Select Stop. Select [14-270], Puncher Move Home Sensor (PL 21.5). Select Start. Block/unblock the Puncher Move Home Sensor. **The display changes.**

Y N

Select Stop. Go to Figure 1. Check continuity between the Puncher Move Home Sensor and Finisher Main PWB. **The continuity check is OK.**

Y N

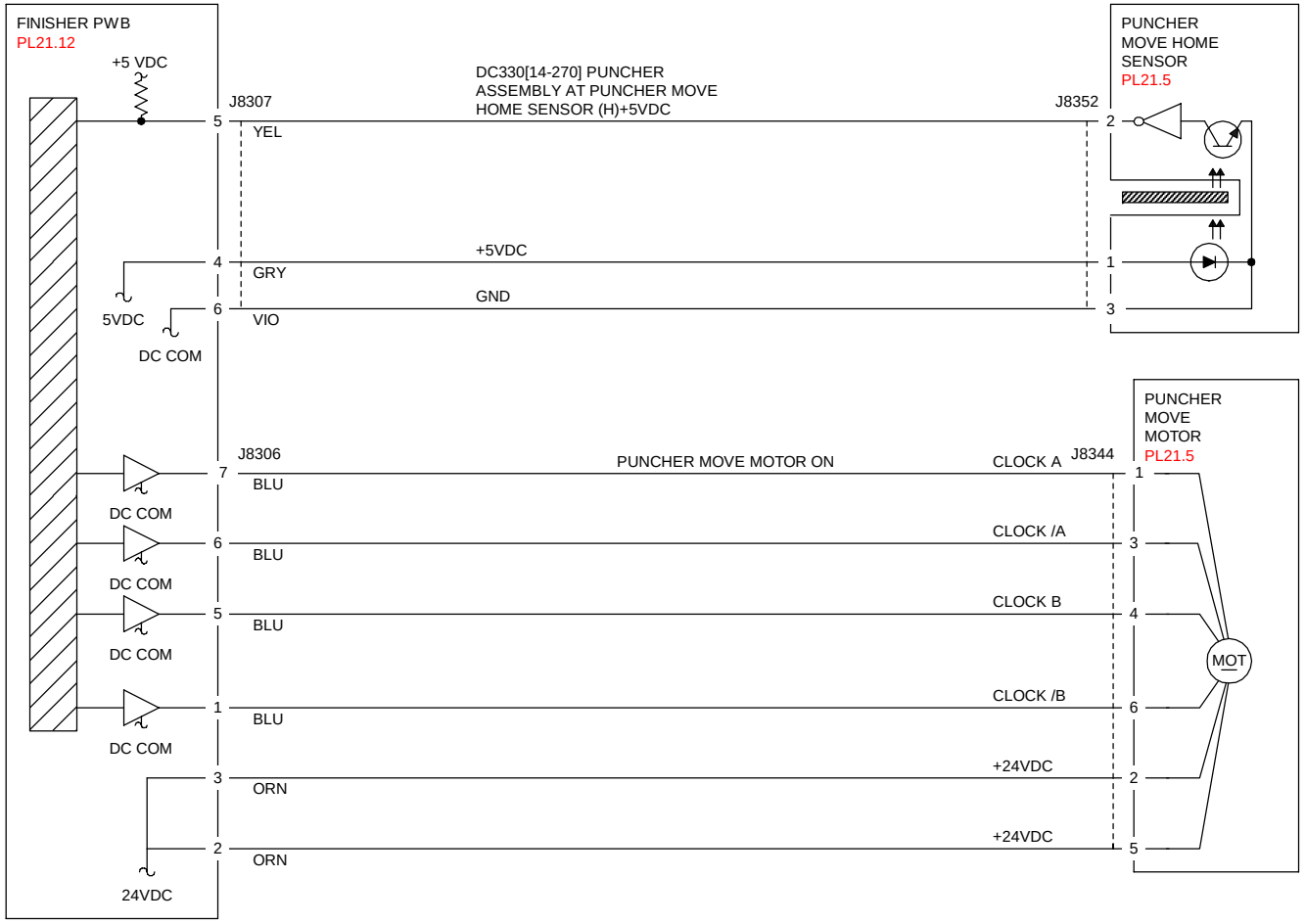
Repair the open circuit or short circuit.

Replace the Puncher Move Home Sensor (PL 21.5). If the problem continues, replace the Finisher PWB (PL 21.12).

Select Stop. Check the following:

- The Puncher Move Motor Belt for improper tension
- The Puncher Move Motor Belt for disengagement

If the above checks are OK, replace the Finisher Main PWB (PL 21.12).



T712117A-COP.VSD.

Figure 1 Puncher Move Home

012-243 Booklet Knife Home Sensor ON Fail (A/P Finishers)

Knife Home Sensor is not turned on after the lapse of 500ms from Clutch ON while Booklet Knife is returning to Home.

Initial Actions

- The Knife Home Sensor for improper installation
- The Knife Home Sensor connectors for connection failure
- The Booklet Fold Motor connectors for connection failure
- The Knife Clutch connectors for connection failure
- The Knife Clutch for improper installation
- The Knife drive mechanism for a foreign substance

Procedure

Manually move the Booklet Tamper to both ends. Enter Component Control [13-008] and [13-009], Booklet Folder Roll Motor (PL 21.22), alternately. Select Start. **The Booklet Folder Roll Motor energizes.**

Y N

Select Stop. Go to Figure 1. Check continuity between the Booklet Folder Roll Motor and the Booklet PWB and between the Booklet PWB and the Finisher PWB. **The continuity check is OK.**

Y N

Repair the open circuit or short circuit.

Replace the Booklet Folder Roll Motor (PL 21.22). If the problem continues, replace the Booklet PWB (PL 21.12). If the problem persists, replace Finisher PWB (PL 21.12).

Select Stop. Select [13-010], Knife Solenoid, (PL 21.22). Select Start. **The Knife Solenoid actuates.**

Y N

Select Stop. Go to Figure 1. Check continuity between the Knife Solenoid and the Booklet PWB and between the Booklet PWB and the Finisher PWB. **The continuity check is OK.**

Y N

Repair the open circuit or short circuit.

Replace the Knife Solenoid (PL 21.22). If the problem continues, replace the Booklet PWB (PL 21.12). If the problem persists, replace Finisher PWB (PL 21.12).

Select Stop. Select [13-101], Knife Home Sensor (PL 21.22). Select Start. Block/unblock the Knife Home Sensor. The display changed.

Y N

Select Stop. Go to Figure 1. Check continuity between the Knife Home Sensor and the Booklet PWB and between the Booklet PWB and the Finisher PWB. **The continuity check is OK.**

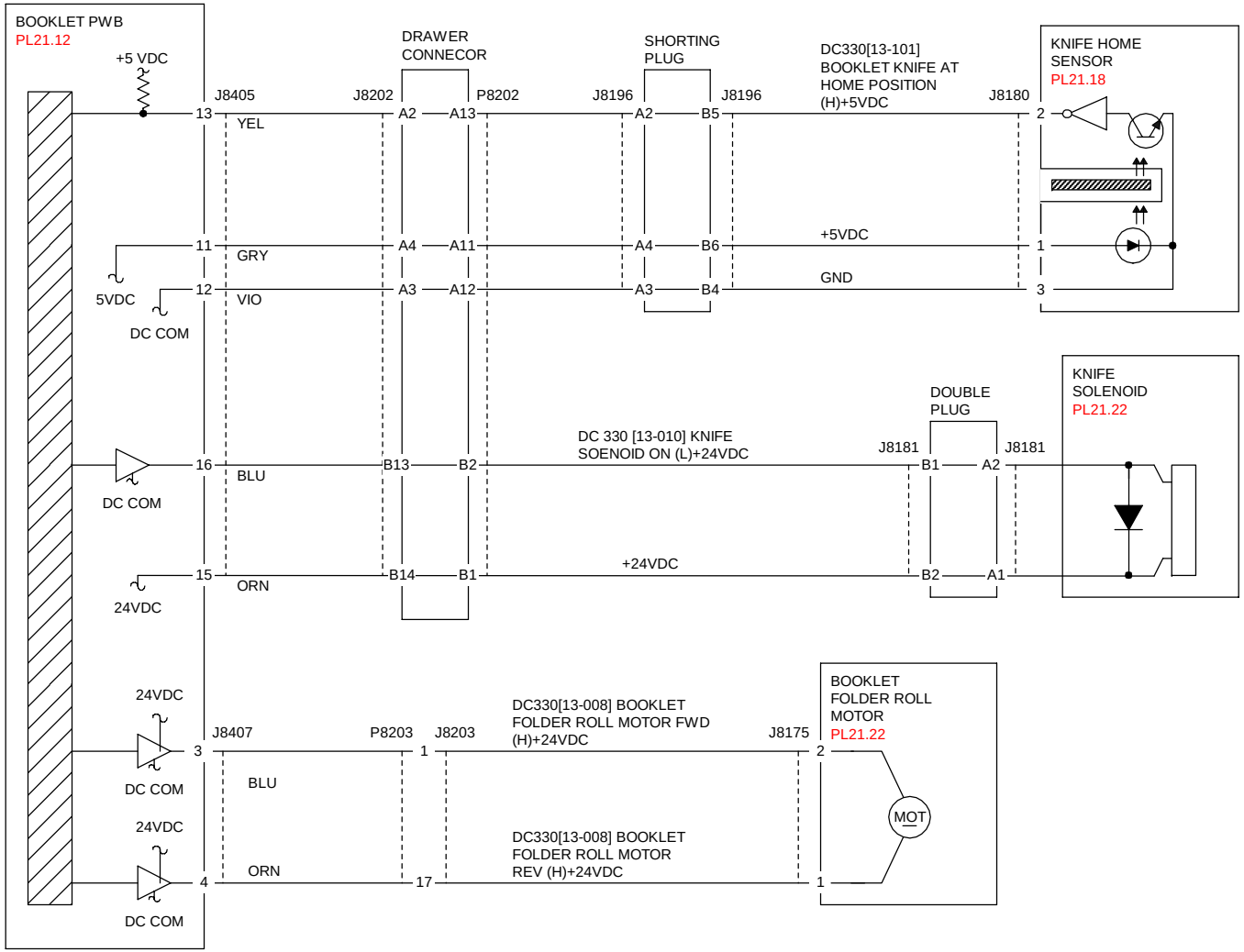
Y N

Repair the open circuit or short circuit.

A B

Replace the Knife Home Sensor (PL 21.22). If the problem continues, replace the Booklet PWB (PL 21.12). If the problem persists, replace Finisher PWB (PL 21.12).

Select Stop. If the problem continues, replace the Finisher PWB (PL 21.12).



T712141A-COP.VSD.

Figure 1 Booklet Knife

012-246 Booklet Stapler FAIL (A/P Finishers)

Error signal ON and Ready signal OFF output from the Booklet Stapler were detected after Booklet Stapling operation.

The Stapler Ready signal did not turn to ‘Not Ready’ within the specified time after Booklet Stapler Start signal ON.

Error signal ON and Ready signal OFF output from the Booklet Stapler were detected after Stapler Power ON check was performed at Power ON or when the interlock was closed.

Error signal ON was detected just before the Booklet Stapling operation.

Procedure

Check continuity between the Staple and Booklet PWB. **The continuity check is OK.**

Y N

Repair the open circuit or short circuit.

Go to Figure 1. Check continuity between the Booklet PWB and Finisher PWB. **The continuity check is OK.**

Y N

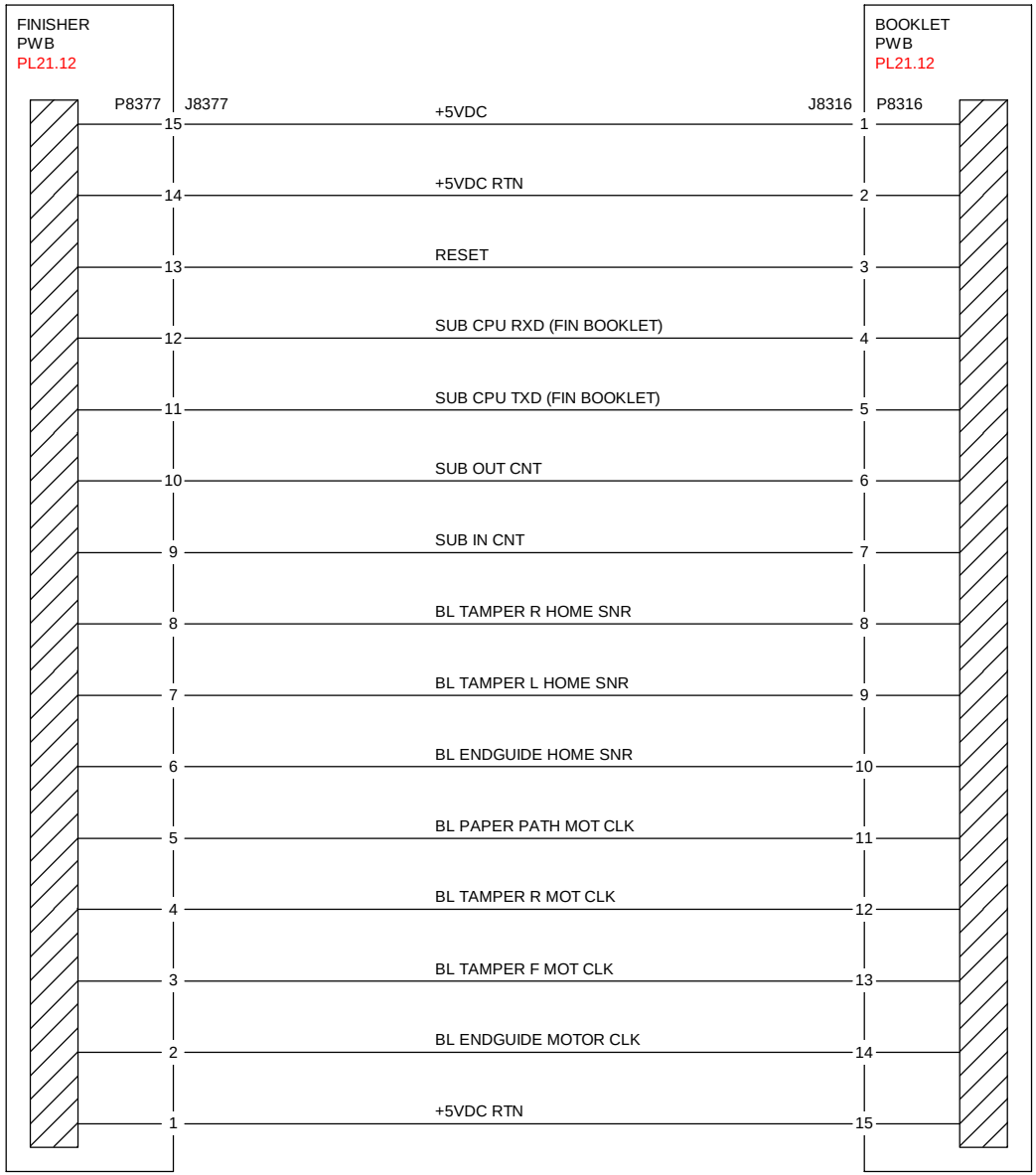
Repair the open circuit or short circuit.

Replace the Staple (PL 21.16). The problem is resolved.

Y N

Replace the Booklet PWB (PL 21.12). If the problem continues, replace the Finisher PWB (PL 21.12).

If the problem continues, replace the Finisher PWB (PL 21.12).



T712143A-COP.VSD.

Figure 1 Finisher, Booklet PWBs

012-247 Side Regi Sensor OFF Fail (A/P Finishers)

Side Regi Sensor not turned off after the lapse of 500msec from operation start.Side Regi Sensor is not turned off after the stop following Side Regi Sensor OFF.Target Side Regi Sensor1 or Side Regi Sensor2 is not turned off at operation start.

Initial Actions

- The Actuator for deformation
- The Side Reg 1 and 2 Sensors for improper installation
- The Side Reg 1 and 2 Sensors connectors for connection failure
- The Puncher Move Motor connectors for connection failure

Procedure

Enter Component Control [14-071] and [14-073], Puncher Move Motor (PL 21.5), alternately. Select Start. **The Puncher Move Motor run.**

Y N

Select Stop. Go to Figure 1. Check continuity between the Puncher Move Motor and Finisher Main PWB. **The continuity check is OK.**

Y N

Repair the open circuit or short circuit.

Replace the Puncher Move Motor (PL 21.5). If the problem continues, replace the Finisher PWB (PL 21.12).

Select Stop. Select [14-200], Side Regi 1 Sensor (PL 21.5). Select Start. Block/unblock the Side Reg 1 Sensor. **The display changes.**

Y N

Select Stop. Go to Figure 1. Check continuity between the Side Reg 1 Sensor and Finisher Main PWB. **The continuity check is OK.**

Y N

Repair the open circuit or short circuit.

Replace the Side Reg 1 Sensor (PL 21.5). If the problem continues, replace the Finisher PWB (PL 21.12).

Select [14-201], Side Reg 2 Sensor (PL 21.5). Select Start. Block/unblock the Side Reg 2 Sensor. **The display changes.**

Y N

Select Stop. Go to Figure 1. Check continuity between the Side Reg 2 Sensor and Finisher Main PWB. **The continuity check is OK.**

Y N

Repair the open circuit or short circuit.

Replace the Side Reg 2 Sensor (PL 21.5). If the problem continues, replace the Finisher PWB (PL 21.12).

Select Stop. Check the following:

- The Puncher Move Motor Belt for improper tension
- The Puncher Move Motor Belt for disengagement

If the above checks are OK, replace the Finisher Main PWB (PL 21.12).

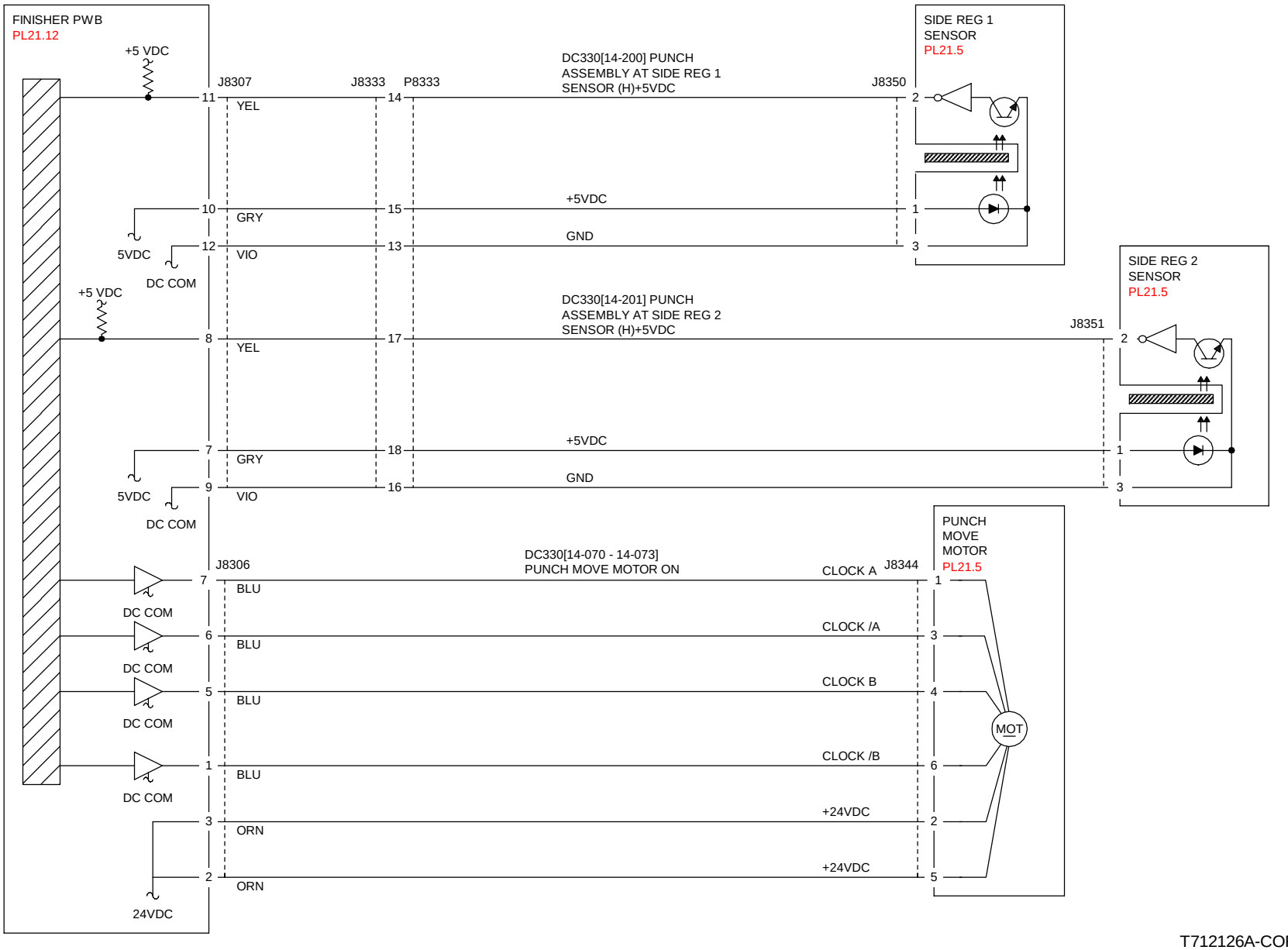


Figure 1 Side Registration

012-258 Booklet Broken (A/P Finishers)

The specified number of Booklet Set Recoveries were detected in the same Job. (The specified number is 5 by default. The setting can be changed in NVM.)

Procedure

Check the setting value in NVM. Perform the process again. **The Fault Code reoccurs.**

Y **N**

If the problem continues, replace the Finisher PWB (PL 21.12).

If the problem continues, replace the Finisher PWB (PL 21.12).

012-260 Eject Clamp Home Sensor On Fail (A/P Finisher)

Eject Clamp Home Sensor is not turned on within a specified time.

Initial Actions

- Check for obstructions in the Clamp area

Procedure

Enter Component Control [014-250], Eject Clamp Home Sensor (PL 21.7). Select Start. Actuate the Eject Clamp Home Sensor. **The display changes.**

Y **N**

Select Stop. Go to Figure 1. Check the circuit of the Eject Clamp Home Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Select [012-052], Eject Clamp Motor (PL 21.7). Select Start. **The Eject Clamp moves up.**

Y **N**

The Eject Motor energized.

Y **N**

Select Stop. Go to Figure 1. Check the circuit of the Eject Clamp Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

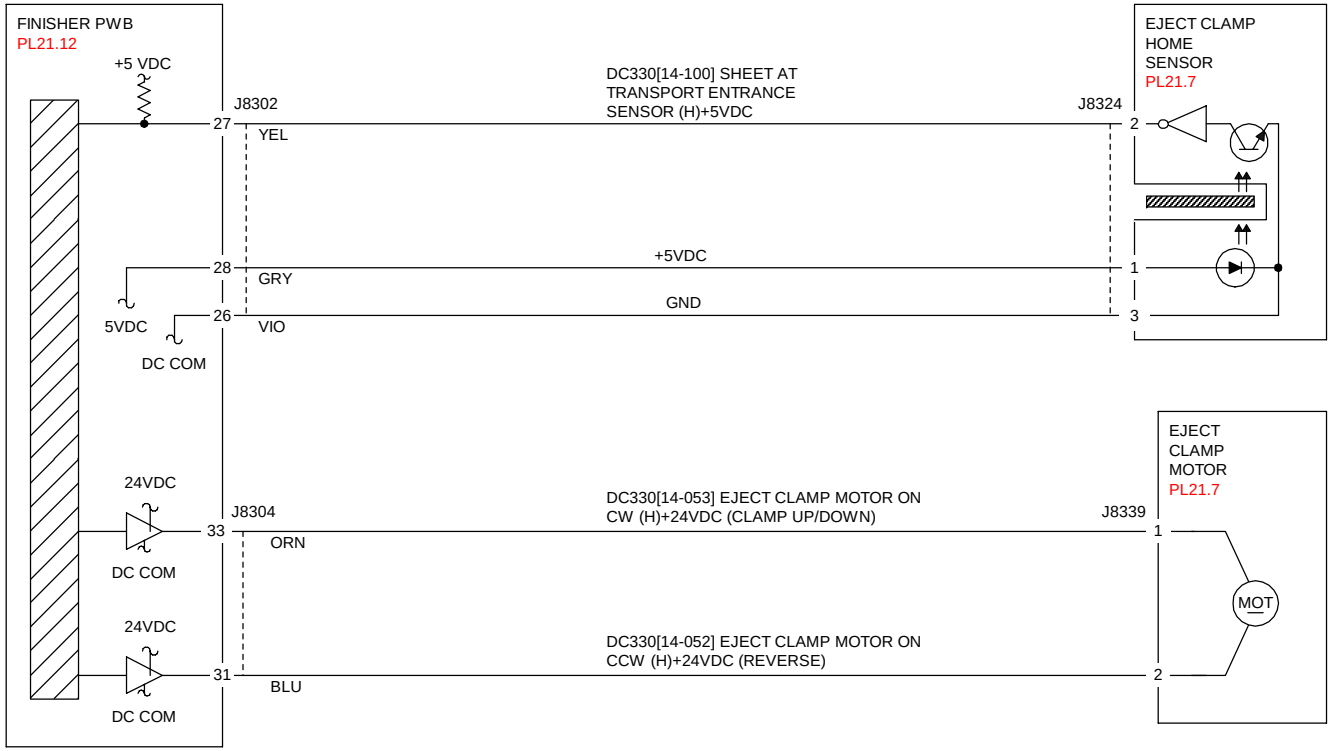
Check the Eject Clamp Motor and its associated gears, pulleys and belts for damage, contamination and misalignment (PL 21.7).

Select Stop.

Check the following:

- Ensure that the Eject Clamp Home Sensor connectors are securely connected and that the wires are not damaged
- Ensure that the Eject Clamp Motor connectors are securely connected and that the wires are not damaged

If the above checks are OK, replace the Eject Clamp Home Sensor (PL 21.7). If the problem persists, replace the Finisher PWB (PL 21.12).



T712115A-COP.VSD.

Figure 1 Eject Clamp

012-261 Booklet Knife Folding Sensor Fail (A/P Finishers)

When the Booklet Knife performs folding operation, the Knife Folding Sensor did not turn ON within 400 msec after Knife Solenoid ON.

Initial Actions

- The Knife Folding Sensor for improper installation
- The Knife Folding Sensor connectors for connection failure
- The Booklet Fold Motor connectors for connection failure
- The Knife Solenoid connectors for connection failure
- The Knife Solenoid for improper installation
- The Knife drive mechanism for a foreign substance

Procedure

Manually move the Booklet Tamper to both ends. Enter Component Control [13-008] and [13-009], Booklet Folder Roll Motor (PL 21.22), alternately. Select Start. **The Booklet Folder Roll Motor energizes.**

Y **N**

Select Stop. Go to Figure 1. Check continuity between the Booklet Folder Roll Motor and the Booklet PWB and between the Booklet PWB and the Finisher PWB. **The continuity check is OK.**

Y **N**

Repair the open circuit or short circuit.

Replace the Booklet Folder Roll Motor (PL 21.22). If the problem continues, replace the Booklet PWB (PL 21.12). If the problem persists, replace Finisher PWB (PL 21.12).

Select Stop. Select Component Control [13-010], Knife Solenoid, (PL 21.22). Select Start. **The Knife Solenoid actuates.**

Y **N**

Select Stop. Go to Figure 1. Check continuity between the Knife Solenoid and the Booklet PWB and between the Booklet PWB and the Finisher PWB. **The continuity check is OK.**

Y **N**

Repair the open circuit or short circuit.

Replace the Knife Solenoid (PL 21.22). If the problem continues, replace the Booklet PWB (PL 21.12). If the problem persists, replace Finisher PWB (PL 21.12).

Select Stop. Select Component Control [13-101], Knife Home Sensor (PL 21.22). Select Start. Block/unblock the Knife Home Sensor. The display changed.

Y **N**

Select Stop. Go to Figure 1. Check continuity between the Knife Home Sensor and the Booklet PWB and between the Booklet PWB and the Finisher PWB. **The continuity check is OK.**

Y **N**

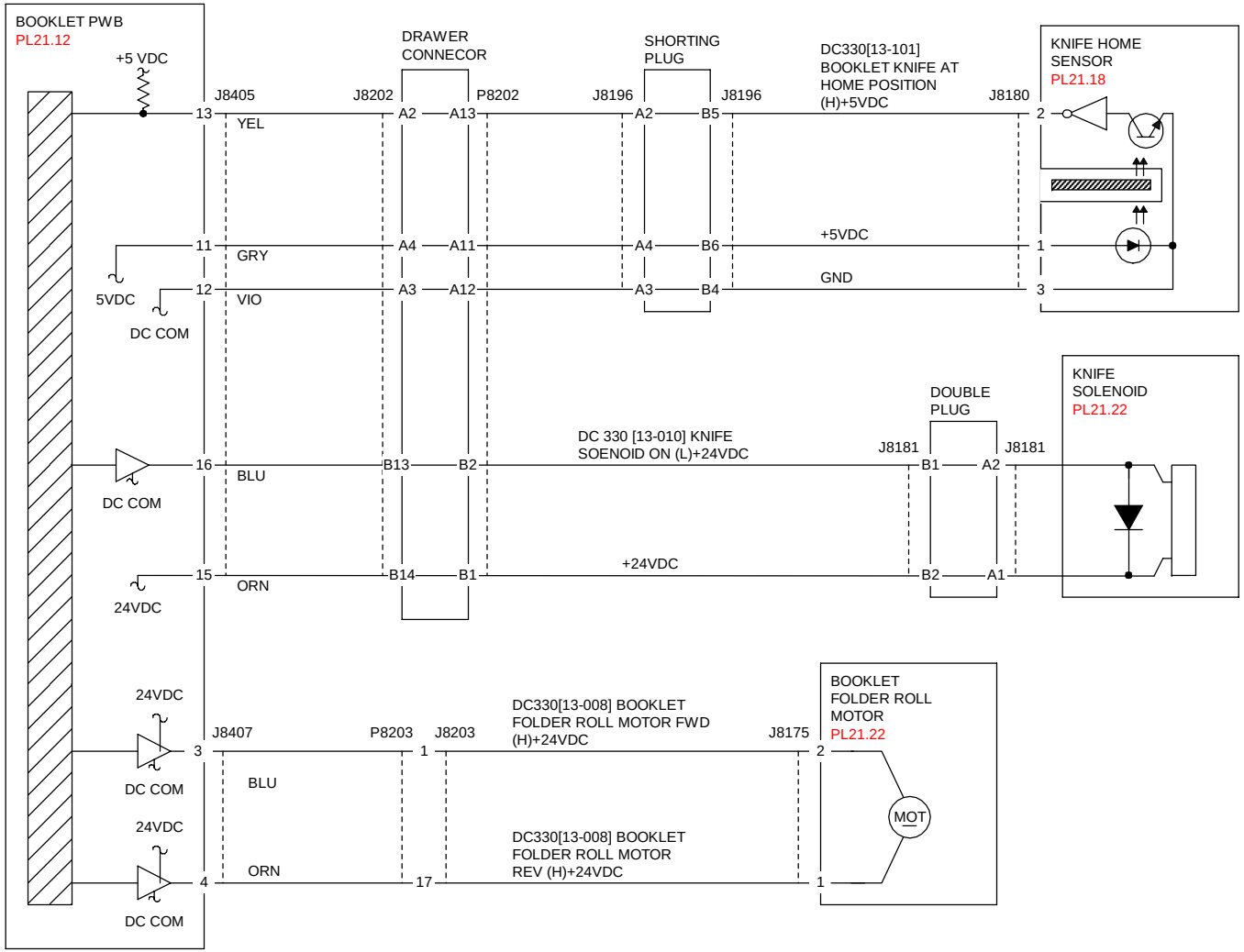
Repair the open circuit or short circuit.

Replace the Knife Home Sensor (PL 21.22). If the problem continues, replace the Booklet PWB (PL 21.12). If the problem persists, replace Finisher PWB (PL 21.12).

A

A

Select Stop. If the problem continues, replace the Finisher PWB (PL 21.12).



T712141A-COP.VSD.

Figure 1 Booklet Knife

012-263 Rear Tamper Home Sensor On Fail (A/P Finishers)

The Rear Tamper Home Sensor did not turn ON within the specified time after the Tamper Motor had started running.

Initial Actions

Check the following:

- Rear Tamper Actuator for deformation
- Rear Tamper Home Sensor for proper installation
- Rear Tamper Home Sensor connectors
- Rear Tamper Motor for proper operation
- Rear Tamper Motor connectors

Procedure

Enter Component Control [14-026] and [14-029], Rear Tamper Motor (PL 21.8), alternately. **Select Start. The Rear Tamper Motor runs.**

Y N

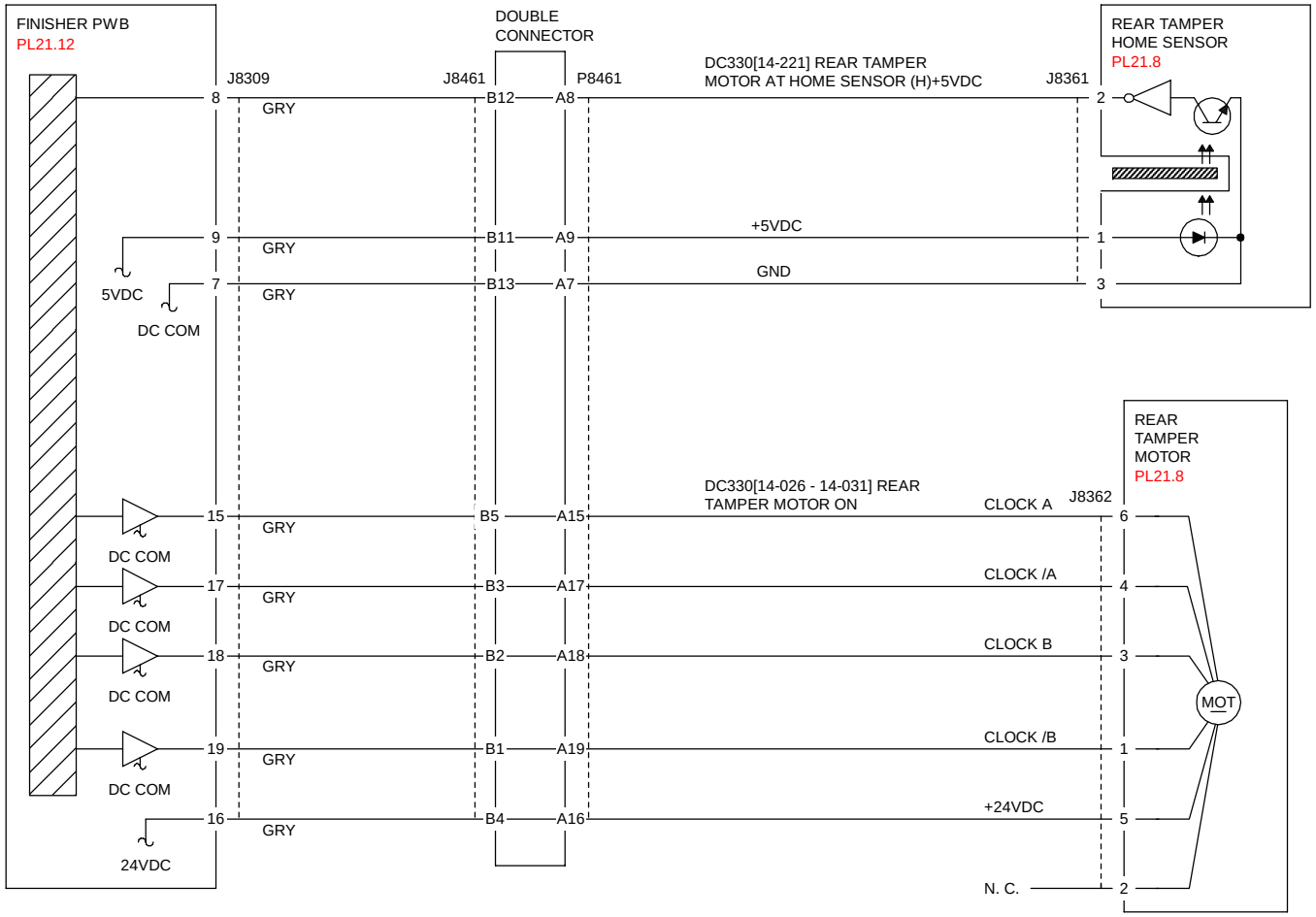
Select Stop. Go to Figure 1. Check circuit of the Rear Tamper Motor. Refer to OF 99-9 RAP for troubleshooting procedure.

Select Stop. Select [14-220], Rear Tamper Home Sensor (PL 21.8). Select Start. Actuate the sensor with a piece of paper. **The display changes.**

Y N

Select Stop. Go to Figure 1. Check circuit of the Rear Tamper Home Sensor. Refer to OF 99-2 RAP for troubleshooting procedure.

Select Stop. If the problem continues, replace the Finisher Main PWB (PL 21.12).



T712111A-COP.VSD.

Figure 1 Rear Tamper

012-264 Booklet Drawer Broken Fail (A/P Finishers)

Booklet Drawer Set Sensor Open was detected when the Finisher Front Door Interlock was closed.

Initial Actions

- The Booklet Drawer Set Sensor for improper installation
- The Booklet Drawer Set Sensor connectors for connection failure
- The Booklet Drawer Actuator part for a foreign substance and deformation
- The Drawer mechanism for a foreign substance and deformation

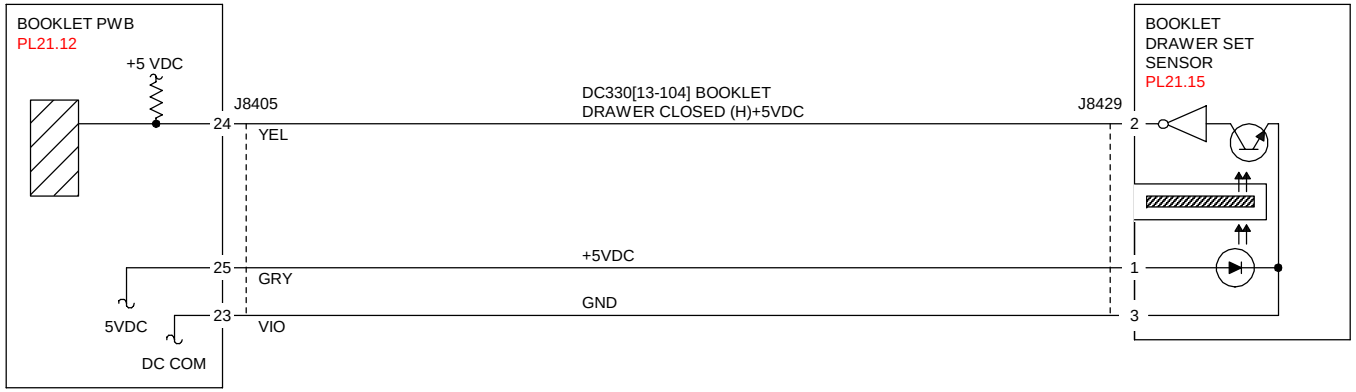
Procedure

Enter DC330 [13-104], Booklet Drawer Set Sensor (PL 21.15). Select Start. Remove and insert the Booklet Drawer manually. **The display changes.**

Y **N**

Go to Figure 1. Check the circuit of the Booklet Drawer Set Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Select Stop. If the problem continues, replace the Finisher PWB (PL 21.12).



T712138A-COP.VSD.

Figure 1 Booklet Drawer

012-265 Booklet Knife Home Sensor OFF Fail (A/P Finishers)

When the Booklet Knife moves from Home position, the Knife Home Sensor did not turn OFF within the specified time after Knife Solenoid ON.

Initial Actions

- The Knife Home Sensor for improper installation
- The Knife Home Sensor connectors for connection failure
- The Booklet Fold Motor connectors for connection failure
- The Knife Solenoid connectors for connection failure
- The Knife Solenoid for improper installation
- The Knife drive mechanism for a foreign substance

Procedure

Manually move the Booklet Tamper to both ends. Enter Component Control [13-008] and [13-009], Booklet Folder Roll Motor (PL 21.22), alternately. Select Start. **The Booklet Folder Roll Motor energizes.**

Y N

Select Stop. Go to Figure 1. Check continuity between the Booklet Folder Roll Motor and the Booklet PWB and between the Booklet PWB and the Finisher PWB. **The continuity check is OK.**

Y N

Repair the open circuit or short circuit.

Replace the Booklet Folder Roll Motor (PL 21.22). If the problem continues, replace the Booklet PWB (PL 21.12). If the problem persists, replace Finisher PWB (PL 21.12).

Select Stop. Select Component Control [13-010], Knife Solenoid, (PL 21.22). Select Start. **The Knife Solenoid actuates.**

Y N

Select Stop. Go to Figure 1. Check continuity between the Knife Solenoid and the Booklet PWB and between the Booklet PWB and the Finisher PWB. **The continuity check is OK.**

Y N

Repair the open circuit or short circuit.

Replace the Knife Solenoid (PL 21.22). If the problem continues, replace the Booklet PWB (PL 21.12). If the problem persists, replace Finisher PWB (PL 21.12).

Select Stop. Select Component Control [13-140], Knife Folding Sensor (PL 21.18). Select Start. Block/unblock the Knife Folding Sensor. The display changed.

Y N

Select Stop. Go to Figure 1. Check continuity between the Knife Folding Sensor and the Booklet PWB and between the Booklet PWB and the Finisher PWB. **The continuity check is OK.**

Y N

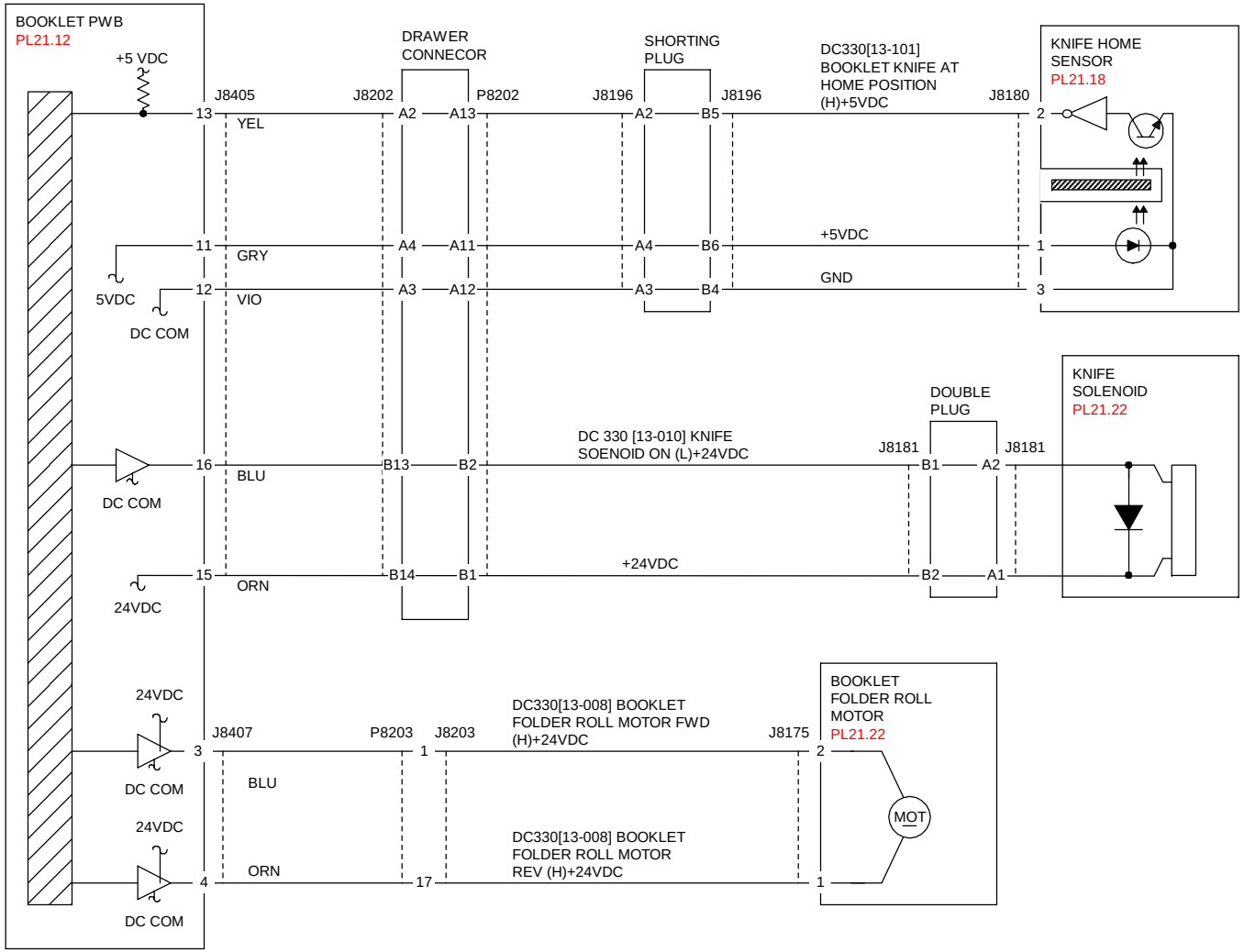
Repair the open circuit or short circuit.

A B

Replace the Knife Folding Sensor (PL 21.18). If the problem continues, replace the Booklet PWB (PL 21.12). If the problem persists, replace Finisher PWB (PL 21.12).

Select Stop. If the problem continues, replace the Finisher PWB (PL 21.12).

A B



T712141A-COP.VSD.

Figure 1 Booklet Knife

012-266 Booklet Compiler No Paper Sensor Fail (A/P Finishers)

The Booklet Compile No Paper Sensor did not turn ON within the specified time.

Procedure

Enter Component Control [13-102], Booklet Compile No Paper Sensor (PL 21.18). Select Start. Block/unblock the Booklet Compile No Paper Sensor. **The display changed.**

Y N

Select Stop. Go to Figure 1. Check continuity between the Booklet Compile No Paper and the Booklet PWB and between the Booklet PWB and the Finisher PWB. **The continuity check is OK.**

Y N

Repair the open circuit or short circuit.

Replace the Booklet Compile No Paper Sensor (PL 21.18). If the problem continues, replace the Booklet PWB (PL 21.12). If the problem persists, replace Finisher PWB (PL 21.12).

Select [13-064], Booklet Paper Path Motor (PL 21.22). Select Start. **The Motor energizes.**

Y N

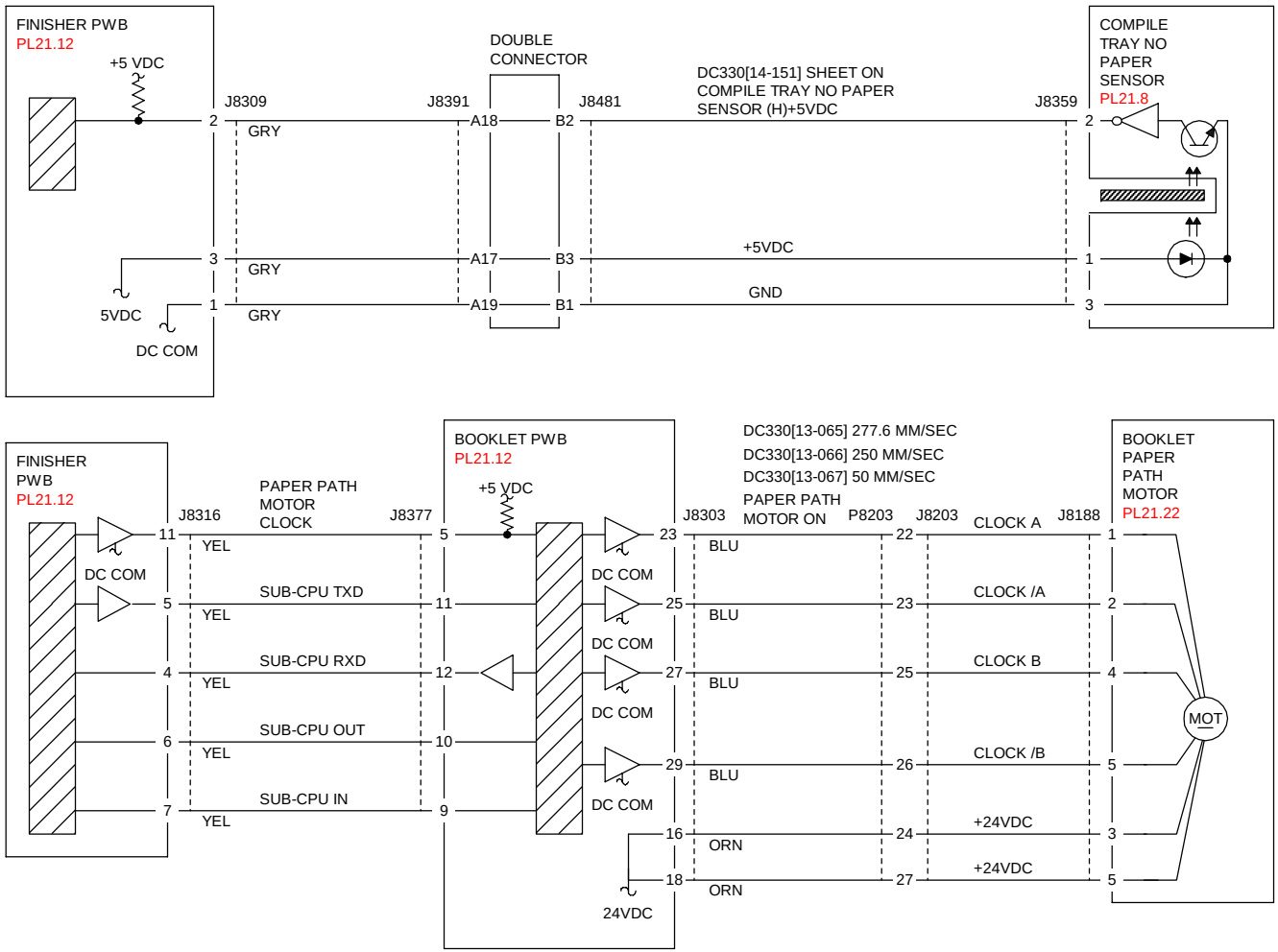
Select Stop.Go to Figure 1. Check continuity between the Booklet Paper Path Motor and the Booklet PWB and between the Booklet PWB and the Finisher PWB. **The continuity check is OK.**

Y N

Repair the open circuit or short circuit.

Replace the Booklet Paper Path Motor (PL 21.22). If the problem continues, replace the Booklet PWB (PL 21.12). If the problem persists, replace Finisher PWB (PL 21.12).

Select Stop. If the problem persists, replace Finisher PWB (PL 21.12).



T712151A-COP.VSD.

Figure 1 Booklet Compiler

012-269 Booklet Sub-CPU Communications Fail (A/P Finishers)

Communications between the Finisher PWB and the Booklet PWB Failed

Initial Actions

- Check the connectors at the Finisher PWB and the Booklet PWB are connected or seated properly (Figure 1)
- Check the wiring between the Finisher PWB and the Booklet PWB for damage (Figure 1)

Procedure

Power OFF and Power ON the Printer. **The problem is resolved.**

Y **N**

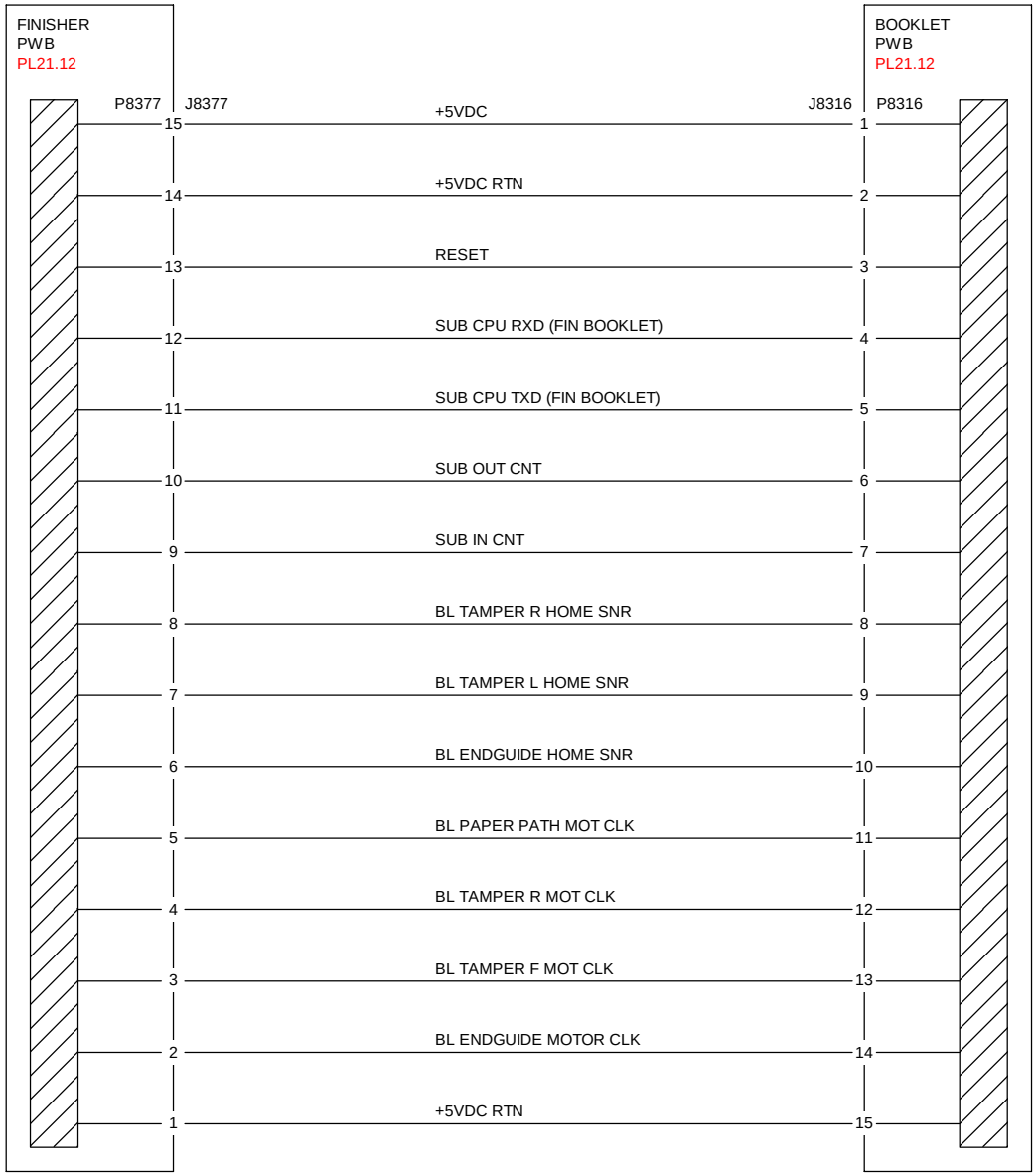
Reload the Software. **The problem is resolved.**

Y **N**

Replace the Finisher PWB (PL 21.12). If the problem continues, replace the Booklet PWB (PL 21.12).

Rerun the job.

Rerun the job.



T712143A-COP.VSD.

Figure 1 Finisher, Booklet PWBs

012-282 Eject Clamp Home Sensor Off Fail (A/P Finishers)

Eject Clamp Home Sensor is not turned off within a specified time.

Initial Actions

- Check for obstructions in the Clamp area

Procedure

Enter Component Control [014-250], Eject Clamp Home Sensor (PL 21.8). Select Start. Actuate the Eject Clamp Home Sensor. **The display changes.**

Y N

Select Stop. Go to Figure 1. Check the circuit of the Eject Clamp Home Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Select [012-052], Eject Clamp Motor (PL 21.7). Select Start. **The Eject Clamp moves up.**

Y N

The Eject Motor energized.

Y N

Select Stop. Go to Figure 1. Check the circuit of the Eject Clamp Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Check the Eject Clamp Motor and its associated gears, pulleys and belts for damage, contamination and misalignment (PL 21.7).

Select Stop.

Check the

- Ensure that the Eject Clamp Home Sensor connectors are securely connected and that the wires are not damaged
- Ensure that the Eject Clamp Motor connectors are securely connected and that the wires are not damaged

If the above checks are OK, replace the Eject Clamp Home Sensor (PL 21.8). If the problem persists, replace the Finisher PWB (PL 21.12).

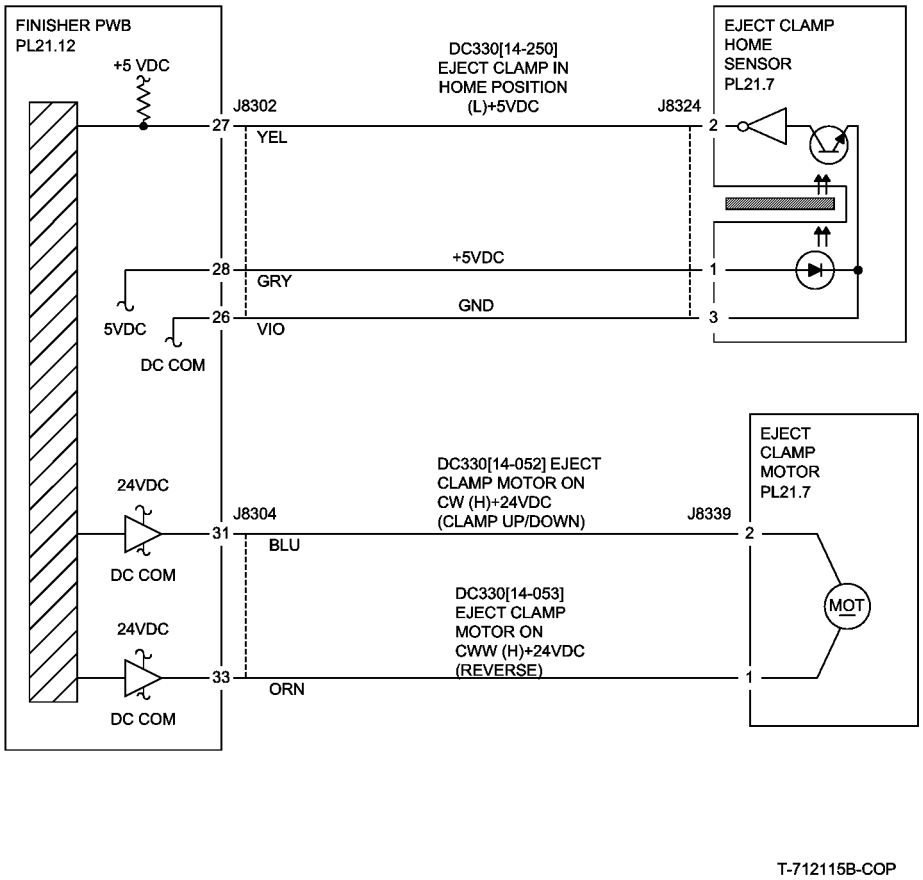


Figure 1 Eject Clamp Circuit Diagram

012-283 Set Clamp Home Sensor On Fail (A/P Finishers)

Set Clamp Home Sensor is not turned on within a specified time.

Initial Actions

- Check for obstructions in the Clamp area

Procedure

Enter Component Control [014-250], Eject Clamp Home Sensor (PL 21.8). Select Start. Actuate the Eject Clamp Home Sensor. **The display changes.**

Y N

Select Stop. Go to Figure 1. Check the circuit of the Eject Clamp Home Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Select [014-052], Eject Motor (PL 21.8). Select Start. **The Eject moves up.**

Y N

The Eject Motor energized.

Y N

Select Stop. Go to Figure 1. Check the circuit of the Eject Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Check the Eject Motor and its associated gears, pulleys and belts for damage, contamination and misalignment (PL 21.8).

Select Stop. The following codes will be stacked. Select [014-052], Eject Motor (PL 21.8). Select Start. Select [014-050], Set Clamp Clutch (PL 21.8). Select Start. **The Eject Roll Shaft rotates.**

Y N

The Set Clamp Clutch energized.

Y N

Select Stop. Go to Figure 1. Check the circuit of the Set Clamp Clutch. Refer to the OF 99-9 RAP for troubleshooting procedure.

Check the Set Clamp Clutch and its associated gears, pulleys and belts for damage, contamination and misalignment (PL 21.8).

Select Stop. Check the following:

- Ensure that the Eject Clamp Home Sensor connectors are securely connected and that the wires are not damaged
- Ensure that the Eject Motor connectors are securely connected and that the wires are not damaged

If the above checks are OK, replace the Eject Clamp Home Sensor (PL 21.8). If the problem persists, replace the Finisher PWB (PL 21.12).

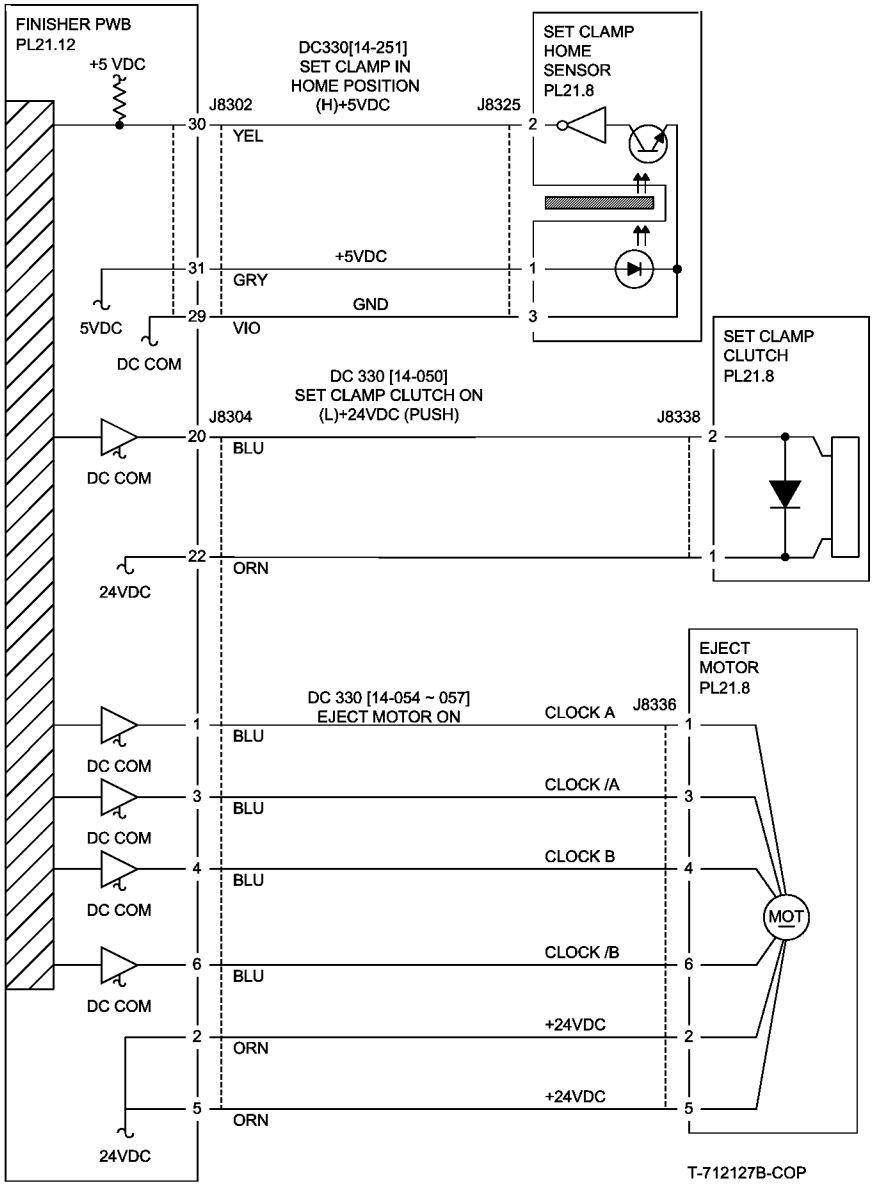


Figure 1 Set Clamp Circuit Diagram

012-284 Set Clamp Home Sensor Off Fail (A/P Finishers)

Set Clamp Home Sensor is not turned off within a specified time.

Initial Actions

- Check for obstructions in the Clamp area

Procedure

Enter Component Control [014-250], Eject Clamp Home Sensor (PL 21.8). Select Start. Actuate the Eject Clamp Home Sensor. **The display changes.**

Y N

Select Stop. Go to Figure 1. Check the circuit of the Eject Clamp Home Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Select [014-052], Eject Motor (PL 21.7). Select Start. **The Eject moves up.**

Y N

The Eject Motor energized.

Y N

Select Stop. Go to Figure 1. Check the circuit of the Eject Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Check the Eject Motor and its associated gears, pulleys and belts for damage, contamination and misalignment (PL 21.8).

Select Stop. Select [014-050], Set Clamp Clutch (PL 21.8). Select Start. **The Eject Roll Shaft rotates.**

Y N

The Set Clamp Clutch energized.

Y N

Select Stop. Go to Figure 1. Check the circuit of the Set Clamp Clutch. Refer to the OF 99-9 RAP for troubleshooting procedure.

Check the Set Clamp Clutch and its associated gears, pulleys and belts for damage, contamination and misalignment (PL 21.8).

Select Stop. Check the following:

- Ensure that the Eject Clamp Home Sensor connectors are securely connected and that the wires are not damaged
- Ensure that the Eject Motor connectors are securely connected and that the wires are not damaged

If the above checks are OK, replace the Eject Clamp Home Sensor (PL 21.8). If the problem persists, replace the Finisher PWB (PL 21.12).

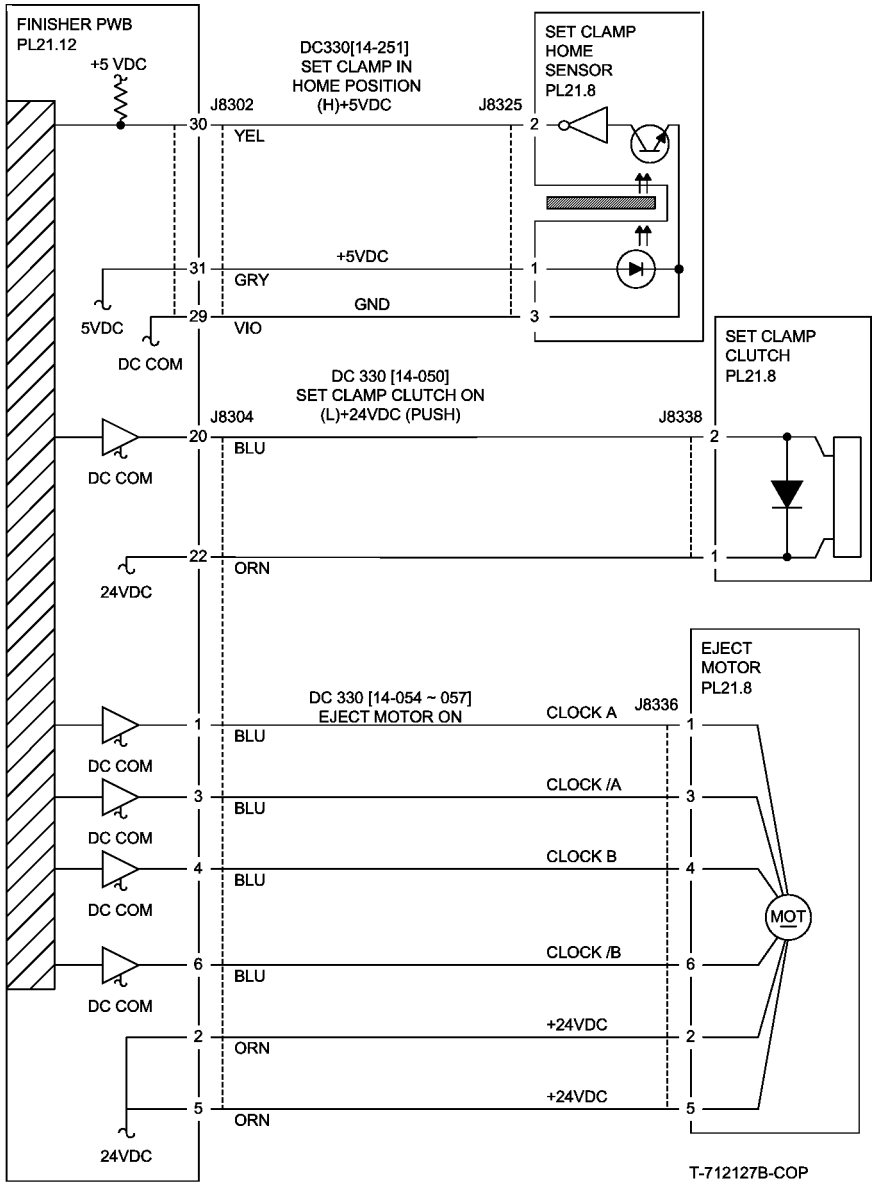


Figure 1 Set Clamp Circuit Diagram

012-286 Decurler Home Sensor On Fail (A/P Finishers)

Decurler Home Sensor is not turned on after the lapse of 1000msec from the detection of Decurler Home Sensor OFF.

Initial Actions

- Check for obstructions in the Decurler area

Procedure

Enter Component Control [014-217], Decurler Home Sensor (PL 21.26). Select Start. Actuate the Decurler Home Sensor. **The display changes.**

Y N

Select Stop. Go to Figure 1. Check the circuit of the Decurler Home Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Select [014-099], Decurler Cam Clutch (PL 21.26). Select Start. **The Decurler Roll Shaft rotates.**

Y N

The Decurler Cam Clutch energized.

Y N

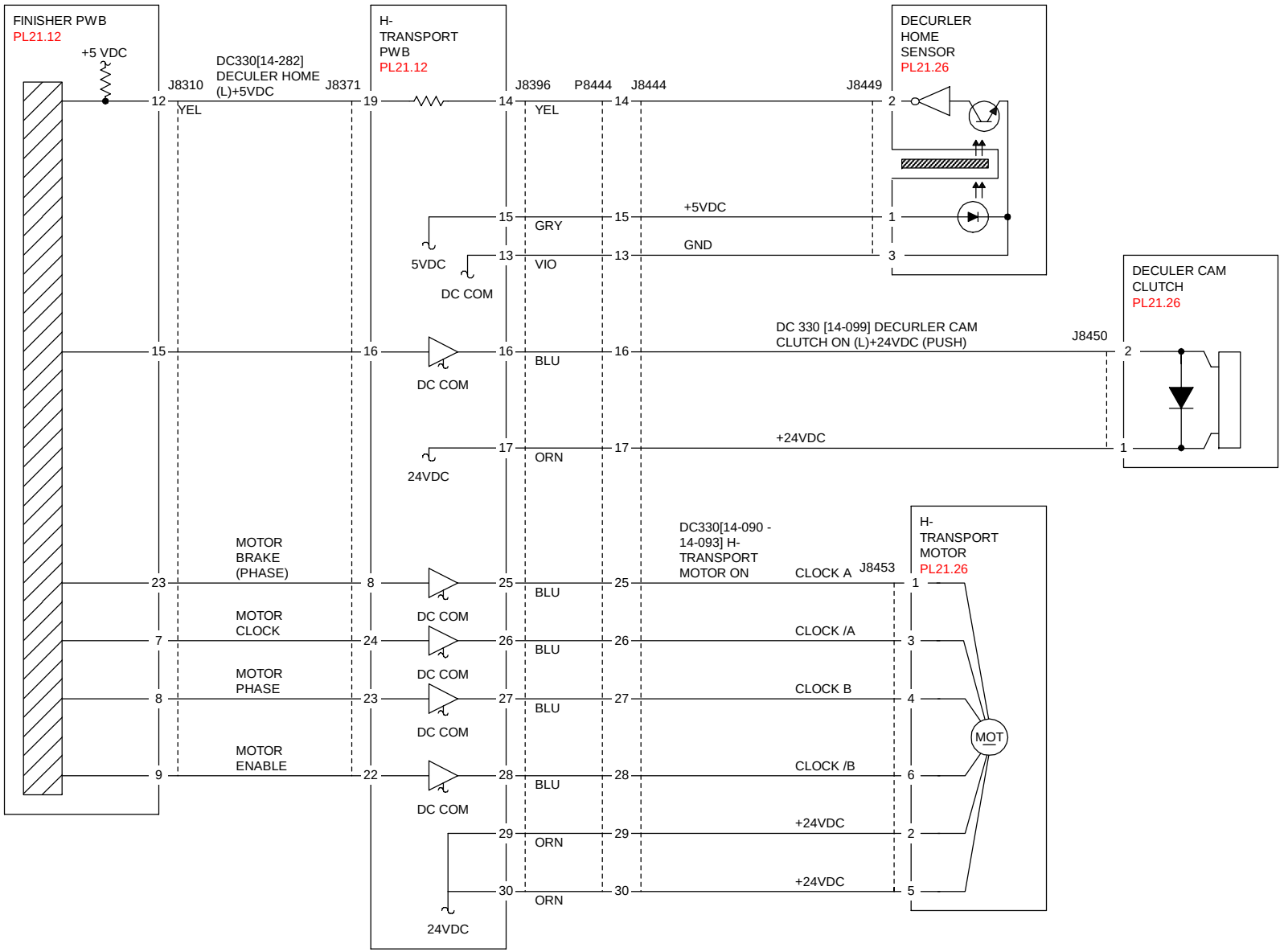
Select Stop. Go to Figure 1. Check the circuit of the Decurler Cam Clutch. Refer to the OF 99-9 RAP for troubleshooting procedure.

Check the Decurler Cam Clutch and its associated gears, pulleys and belts for damage, contamination and misalignment (PL 21.26).

Select Stop. Check the following:

- Ensure that the Decurler Cam Home Sensor connectors are securely connected and that the wires are not damaged
- Ensure that the Decurler Cam Clutch connectors are securely connected and that the wires are not damaged
- H-Transport Motor Drive belt for wear, damage, or loose
- H-Transport Motor connections are securely connected and that the wires are not damaged

If the above checks are OK, replace the Decurler Home Sensor (PL 21.26). If the problem continues, replace the H-Transport PWB (PL 21.12). If the problem persists, replace the Finisher PWB (PL 21.12).



T712129A-COP.VSD.

Figure 1 Decurler Home

012-287 Decurler Home Sensor Off Fail (A/P Finishers)

Decurler Move Home Sensor is not turned off after the lapse of 1000msec from the detection of Decurler Home Sensor On.

Initial Actions

- Check for obstructions in the Decurler area

Procedure

Enter Component Control [014-217], Decurler Home Sensor (PL 21.26). Select Start. Actuate the Decurler Home Sensor. **The display changes.**

Y N

Select Stop. Go to Figure 1. Check the circuit of the Decurler Home Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Select Stop. Select [014-099], Decurler Cam Clutch (PL 21.26). Select Start. **The Decurler Roll Shaft rotates.**

Y N

The Decurler Cam Clutch energized.

Y N

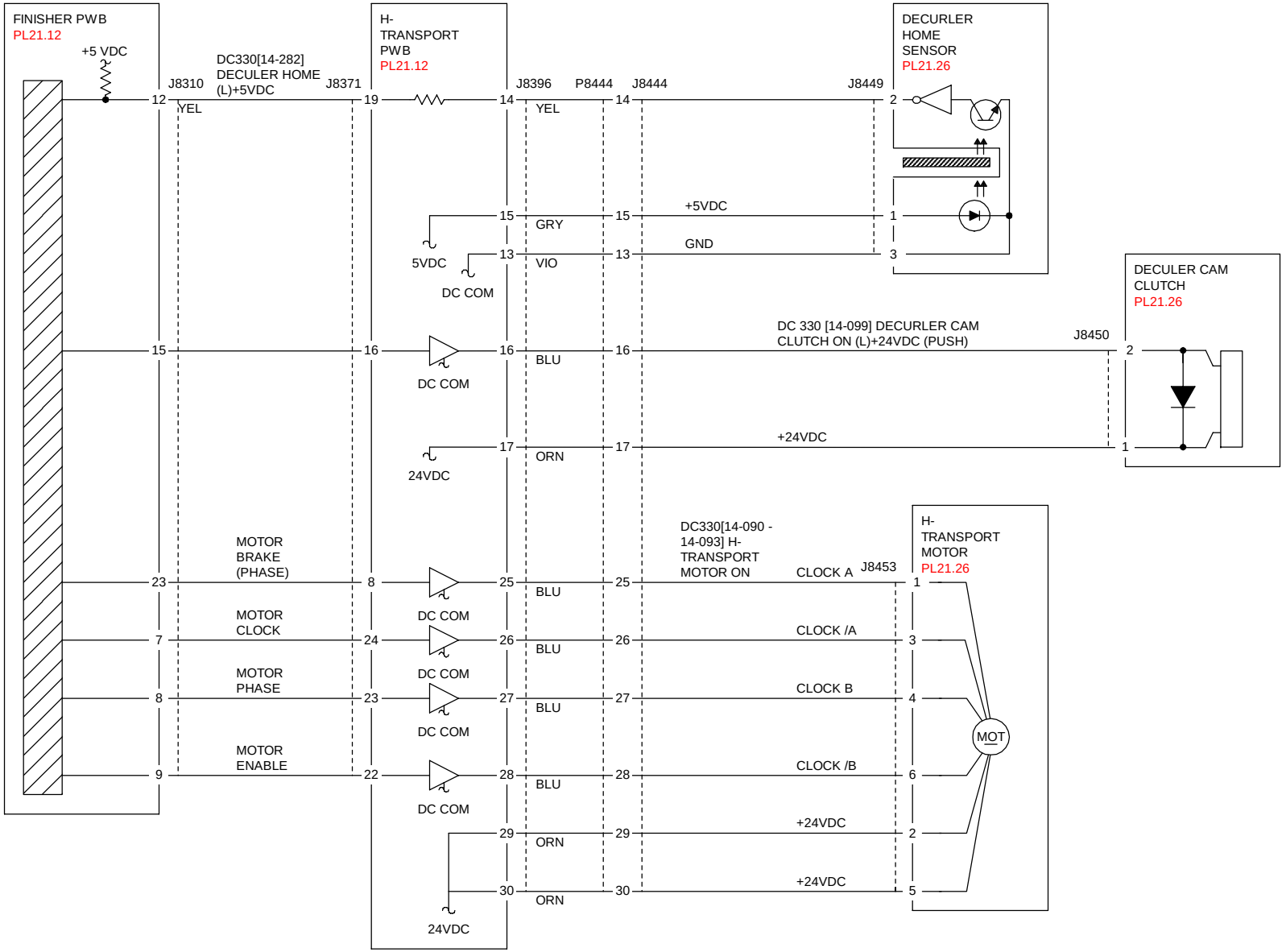
Select Stop. Go to Figure 1. Check the circuit of the Decurler Cam Clutch. Refer to the OF 99-9 RAP for troubleshooting procedure.

Check the Decurler Cam Clutch and its associated gears, pulleys and belts for damage, contamination and misalignment (PL 21.26).

Select Stop. Check the following:

- Ensure that the Decurler Cam Home Sensor connectors are securely connected and that the wires are not damaged
- Ensure that the Decurler Cam Clutch connectors are securely connected and that the wires are not damaged
- H-Transport Motor Drive belt for wear, damage, or loose
- H-Transport Motor connections are securely connected and that the wires are not damaged

If the above checks are OK, replace the Decurler Home Sensor (PL 21.26). If the problem continues, replace the H-Transport PWB (PL 21.12). If the problem persists, replace the Finisher PWB (PL 21.12).



T712129A-COP.VSD.

Figure 1 Decurler Home

012-291 Stapler FAIL (A/P Finishers)

The Staple Home Sensor has not switched from OFF to ON within the specified time after the Staple Motor had started rotating forward.

The Staple Home Sensor did not turn ON within the specified time after the Staple Motor had started rotating backward.

Initial Actions

- Check the Stapler Head for obstructions

Procedure

Enter Component Control [14-046] and [14-047], Staple Motor, (PL 21.6), alternately. Select Start. **The Staple Motor runs.**

Y **N**

Select Stop. Go to Figure 1. Check continuity between the Stapler Head and Finisher Main PWB. **The continuity check is OK.**

Y **N**

Repair the open circuit or short circuit.

Replace the Stapler Head (PL 21.6). If the problem continues, replace the Finisher PWB (PL 21.12).

Select Stop. Select [012-135], Staple Home Sensor. Select [14-046] and [14-047], Staple Motor, (PL 21.6), alternately. Select Start. **The display changes**

Y **N**

Select Stop. Go to Figure 1. Check continuity between the Stapler Home Sensor and Finisher Main PWB. **The continuity check is OK.**

Y **N**

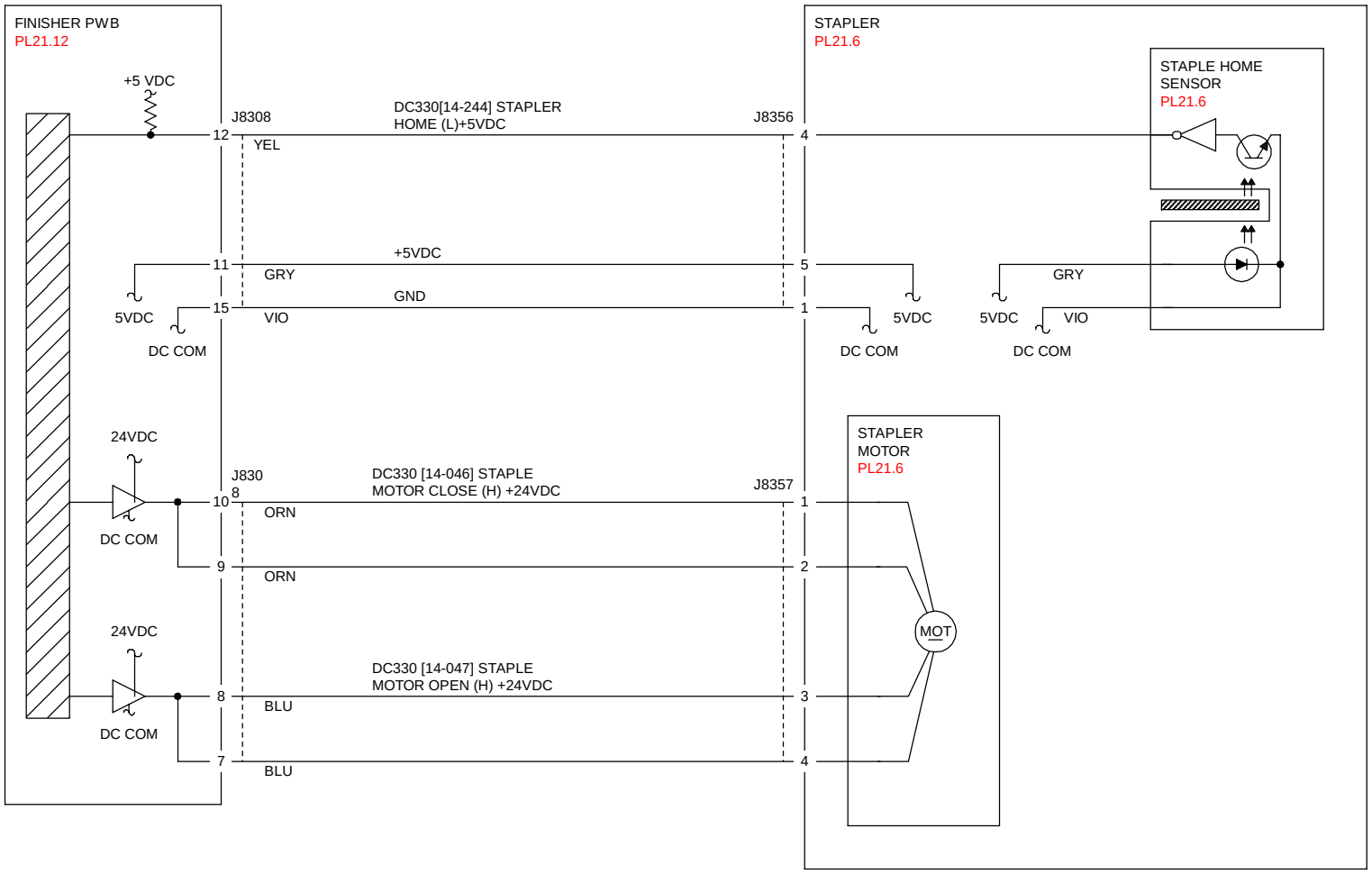
Repair the open circuit or short circuit.

Replace the Stapler Head (PL21.6). If the problem continues, replace the Finisher PWB (PL 21.12).

Select Stop. Check the following:

- The wire between the Staple Head and the Finisher PWB for damage

If the above checks are OK, replace the Finisher PWB (PL 21.12).



T712128A-COP.VSD.

Figure 1 Stapler

012-295 Stapler Move Position Sensor On Fail (A/P Finishers)

Stapler Move Position Sensor is not turned on within a specified time.

Stapler Move Position Sensor not turned on when home operation is completed.

Stapler Move Position Sensor is not turned on after the stop following Stapler Move Position Sensor ON.

Initial Actions

- Check Actuator for deformation
- Check Stapler Move Position Sensor for improper installation
- Check Stapler Move Position Sensor connectors for connection failure
- Check Staple Move Motor connectors for connection failure
- Check Staple Guide for deformation

Procedure

Enter Component Control [14-046] and [012-047], Stapler Move Motor (PL 21.6), alternately. Select Start. **The Staple Move Motor energizes.**

Y N

Select Stop. Go to Figure 1. Check continuity between the Stapler Move Motor and Finisher Main PWB. **The continuity check is OK.**

Y N

Repair the open circuit or short circuit.

Replace the Staple Move Motor (PL 21.6). If the problem continues, replace the Finisher PWB (PL 21.12).

Select Stop. Select Component Control [14-241], Stapler Move Position Sensor (PL 21.6). Select Start. Block/unblock the Stapler Move Position Sensor. **The display changed.**

Y N

Select Stop. Go to Figure 1. Check continuity between the Stapler Move Position Sensor and Finisher Main PWB. **The continuity check is OK.**

Y N

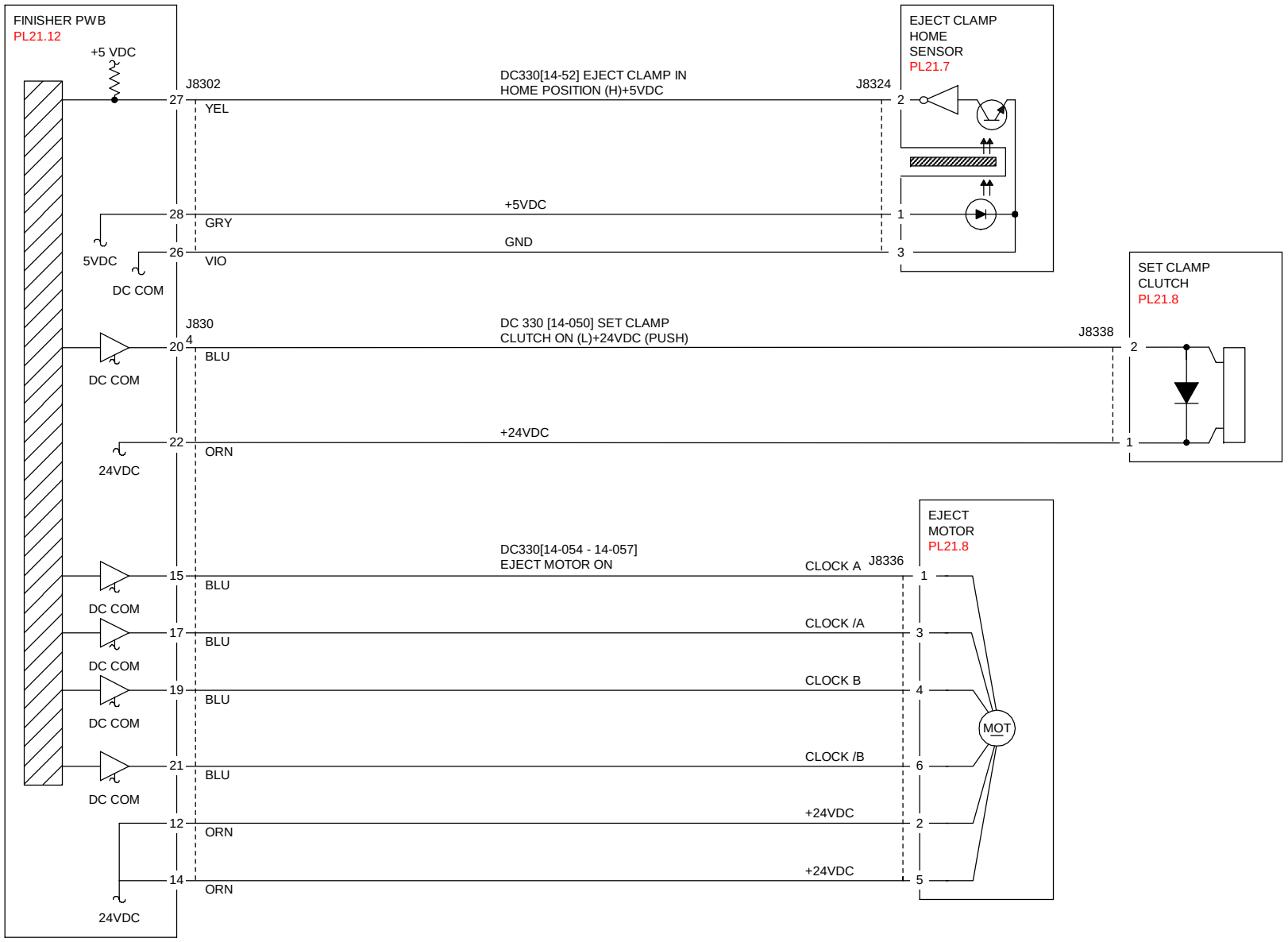
Repair the open circuit or short circuit.

Replace the Stapler Move Position Sensor (PL 21.6). If the problem continues, replace the Finisher PWB (PL 21.12).

Select Stop. Check the following:

- Obstructions on the Stapler Upper Rail
- Stapler Move Motor Gear

If the above checks are OK. replace the Finisher PWB (PL 21.12).



T712127A-COP.VSD.

Figure 1 Stapler Move Position

012-296 Stapler Move Position Sensor Off Fail (A/P Finishers)

Stapler Move Position Sensor is not turned off within a specified time

Stapler Move Position Sensor is not turned off when home operation is completed.

Stapler Move Position Sensor is not turned off after the stop following Stapler Move Position Sensor OFF.

Initial Actions

- Check Actuator for deformation
- Check Stapler Move Position Sensor for improper installation
- Check Stapler Move Position Sensor connectors for connection failure
- Check Staple Move Motor connectors for connection failure
- Check Staple Guide for deformation

Procedure

Enter Component Control [14-046] and [012-047], Stapler Move Motor (PL 21.6), alternately. Select Start. **The Staple Move Motor energizes.**

Y N

Select Stop. Go to Figure 1. Check continuity between the Stapler Move Motor and Finisher Main PWB. **The continuity check is OK.**

Y N

Repair the open circuit or short circuit.

Replace the Staple Move Motor (PL 21.6). If the problem continues, replace the Finisher PWB (PL 21.12).

Select Stop. Select Component Control [14-241], Stapler Move Position Sensor (PL 21.6). Select Start. Block/unblock the Stapler Move Position Sensor. **The display changed.**

Y N

Select Stop. Go to Figure 1. Check continuity between the Stapler Move Position Sensor and Finisher Main PWB. **The continuity check is OK.**

Y N

Repair the open circuit or short circuit.

Replace the Stapler Move Position Sensor (PL 21.6). If the problem continues, replace the Finisher PWB (PL 21.12).

Select Stop. Check the following:

- Obstructions on the Stapler Upper Rail
- Stapler Move Motor Gear

If the above checks are OK. replace the Finisher PWB (PL 21.12).

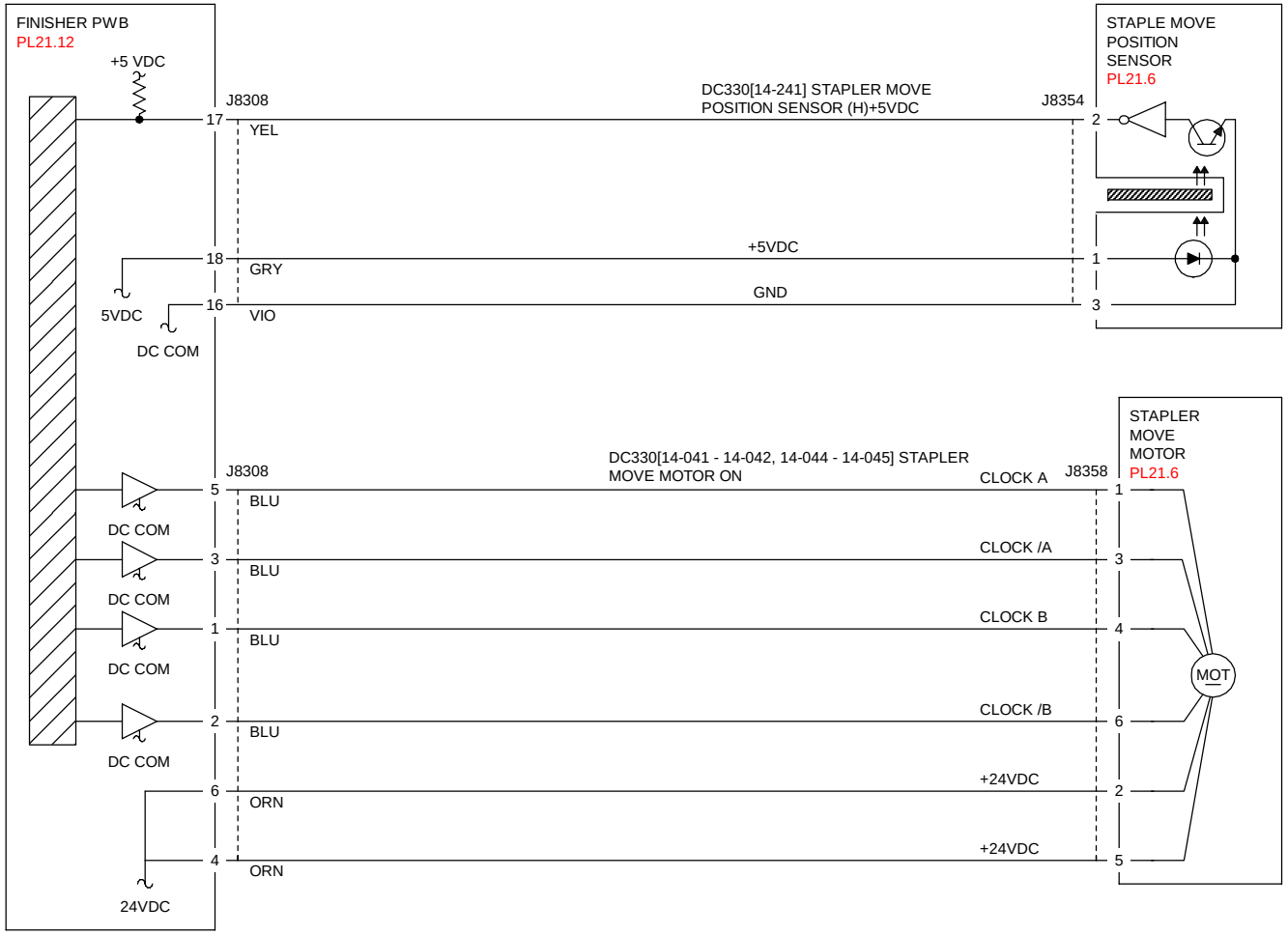


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Figure 1 Stapler Move Position

012-300 Eject Cover Open (A/P Finishers)

Eject Cover Switch open was detected.

Initial Actions

- Ensure that the Eject Cover is down
- Check Eject Cover Switch for improper installation
- Check Eject Cover Switch connectors for connection failure
- Check Actuator part for deformation

Procedure

Enter dC330 [012-300], Eject Cover Switch (PL 21.7). Select Start. Actuate the Eject Cover Switch. **The display changes**

Y N

Select Stop. Check continuity of the Eject Cover Switch. **The continuity check is OK.**

Y N

Replace the Eject Cover Switch (PL 21.7).

Go to Figure 1. Check continuity between the Eject Cover Switch and the Finisher PWB. If the check is OK, replace the Finisher PWB (PL 21.12).

Select Stop. If the problem continues, replace the Finisher PWB (PL 21.12).

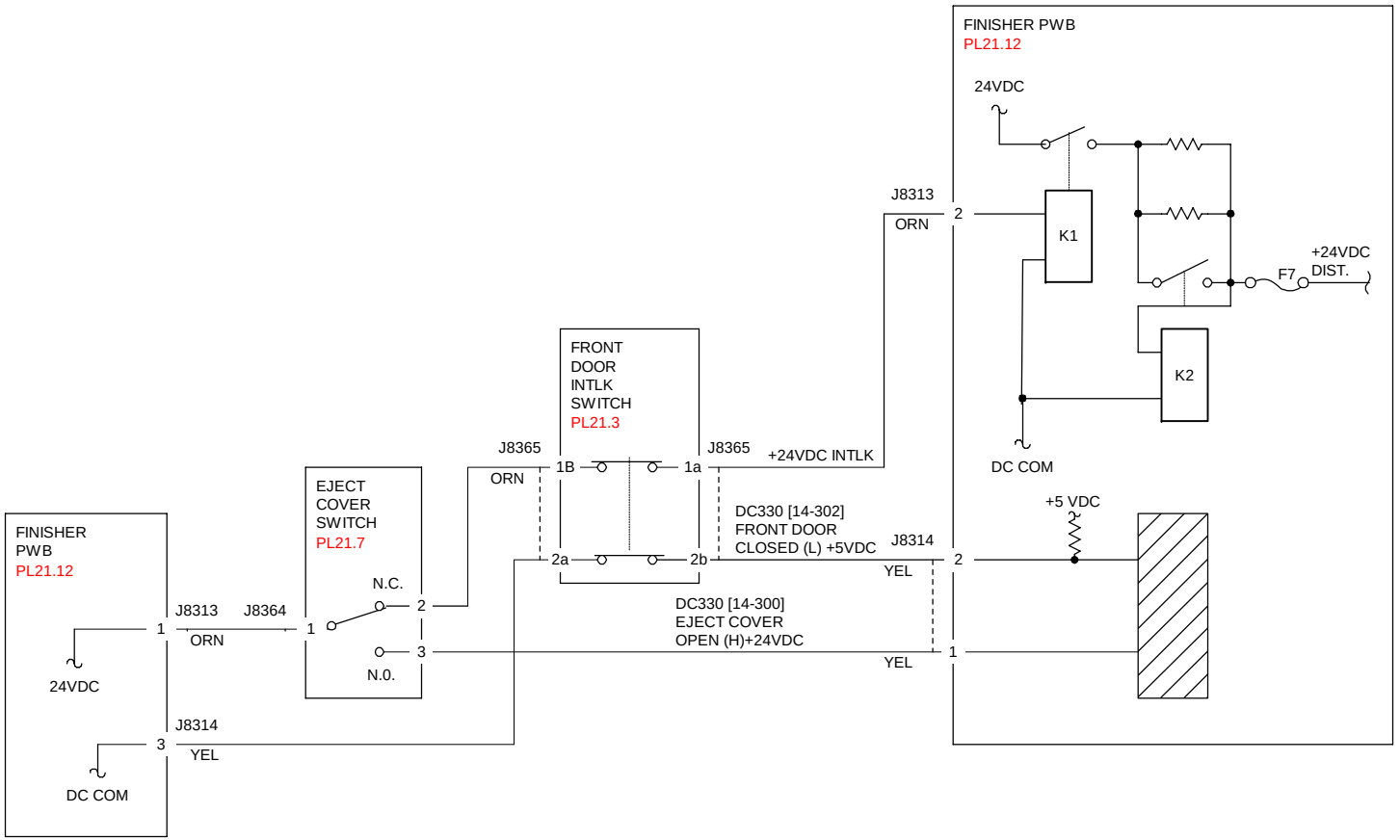

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Figure 1 Eject Cover

012-302 Finisher Front Door Interlock OPEN (A/P Finishers)

Finisher Front Door Switch OPEN was detected.

Initial Actions

Check the following:

- Finisher Front Door Switch for proper installation
- Finisher Front Door Switch connectors for connection failure
- Actuator part for deformation
- Ensure that the Eject Cover is in the closed/down position

Procedure

Enter Component Control [014-302], Front Door Interlock Switch (PL 21.3). Select Start. Open and close the Front Door. **The display changes.**

Y N

Go to Figure 1. Disconnect P/J8314 on the Finisher PWB. **+5 VDC is measured between the Finisher PWB P8314-2 and P8314-3.**

Y N

Replace the Finisher PWB (PL 21.12).

There is less than 5 ohms between P/J8314-3 and the finisher frame.

Y N

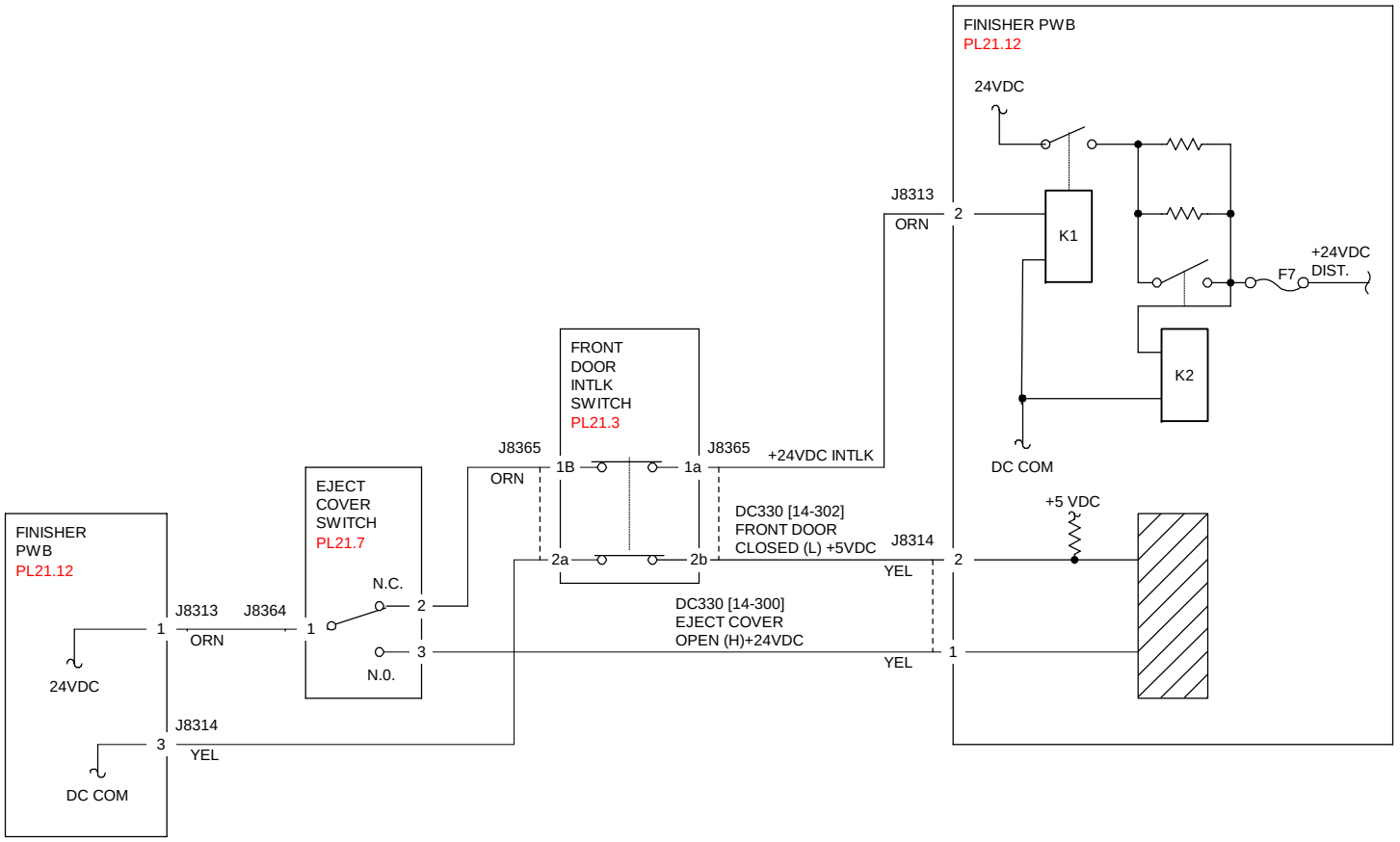
Replace the Finisher PWB (PL 21.12).

Go to Figure 1. Check the wires between the Finisher PWB, the Eject Cover Switch and the Finisher Front Door Switch for an open circuit or poor contact.
If the wires are good, replace the Front Door Interlock Switch (PL 21.3).

Select Stop. Check the following:

- Alignment between the Front Door and the Front Door Interlock Switch
- Front Door and Front Cover for proper installation
- Actuator for damage or bent
- Magnet for proper mounting

If the above checks are OK, replace the Finisher PWB (PL 21.12).



T712104A-COP.VSD.

Figure 1 Finisher Door Interlock

012-303 H-Transport Cover Open (A/P Finishers)

H-Transport Cover Interlock Sensor OPEN was detected.

Initial Actions

Check Items

- The H-Transport Cover Interlock Sensor for improper installation
- Check for obstruction in the between the H-Transport Cover and the H-Transport paper transport area
- The H-Transport Cover Interlock Sensor connectors for connection failure
- The Actuator part for deformation

Procedure

Enter Component Control [014-303], H-Transport Interlock Sensor (PL 21.25). Select Start. Block and unblock the H-Transport Interlock Sensor. **The display changes.**

Y N

+5 VDC is measured between the H-Transport Interlock Sensor P/J8445-1 and -3.

Y N

Go to Figure 1. Disconnect P/J8396 on Finisher PWB. **+5 VDC is measured between Finisher PWB P/J8396-1 and -3.**

Y N

Replace the Finisher PWB (PL 21.3).

Check for an open circuit between Finisher PWB P/J8396-3 and -1 and H-Transport Interlock Sensor P/J8445-1 and -3.

+5 VDC is measured between Finisher PWB P/J8396-2 and ground.

Y N

Replace the Finisher PWB (PL 21.3)

+5 VDC is measured between H-Transport Interlock Switch J8454-2 and ground.

Y N

Check the wire between the H-Transport Interlock Switch **J8454**-2 and the Finisher PWB P/J8396-2 for an open circuit or poor contact.

+5 VDC is measured between H-Transport Interlock Switch J8454-1 and ground.

Y N

Replace the H-Transport Interlock Switch (PL 21.24)

+5 VDC is measured at the H-Transport Interlock Sensor P/J8445-2 and ground.

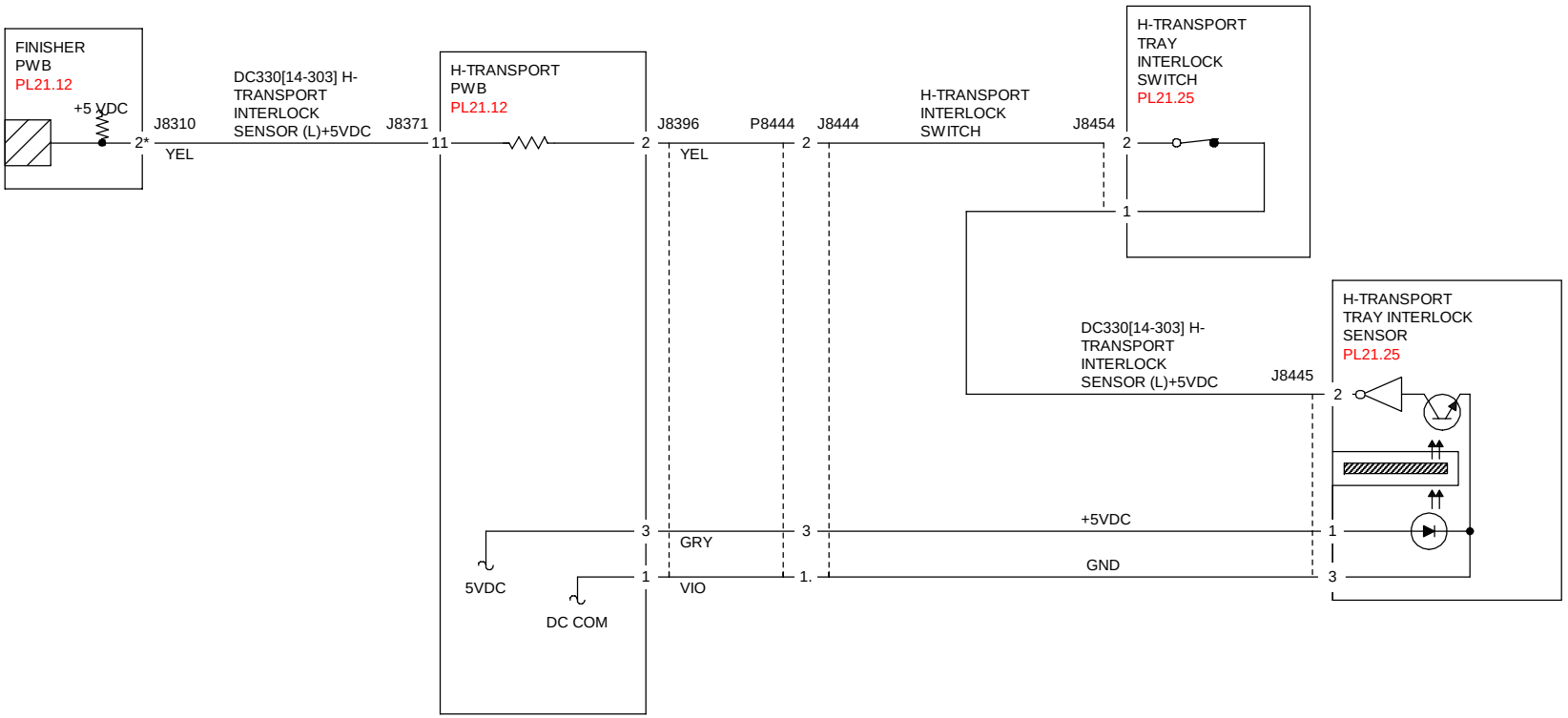
Y N

Check for an open circuit between H-Transport Interlock Switch **J8454**-1 and H-Transport Interlock Sensor P/J8445-2.

Replace the H-Transport Interlock Sensor (PL 21.25).

Select Stop. Check the following:

- Alignment between the H-Transport Cover and the H-Transport Interlock Sensor.
- Alignment between the H-Transport Cover and the H-Transport Interlock Switch.
- The H-Transport Cover for proper installation
- The Actuator for bending or alignment
- The Magnets for proper mounting



T712103A-COP.VSD.

Figure 1 H-Transport Interlock

012-307 Booklet Drawer Set Fail (A/P Finishers)

Booklet Drawer Set Sensor OPEN was detected.

Initial Actions

- The Booklet Drawer Set Sensor for improper installation
- The Booklet Drawer Set Sensor connectors for connection failure
- The Actuator part for deformation

Procedure

Enter dC330 [13-104], Booklet Drawer Set Sensor (PL 21.15). Select Start. Remove and insert the Booklet Drawer manually. **The display changes.**

Y **N**

Select Stop. Go to Figure 1. Check continuity between the Booklet Drawer Set Sensor and Finisher Main PWB. **The continuity check is OK.**

Y **N**

Repair the open circuit or short circuit.

Replace the Booklet Drawer Set Sensor (PL 21.15). If the problem continues, replace the Finisher PWB (PL 21.12).

Select Stop. If the problem continues, replace the Finisher PWB (PL 21.12).

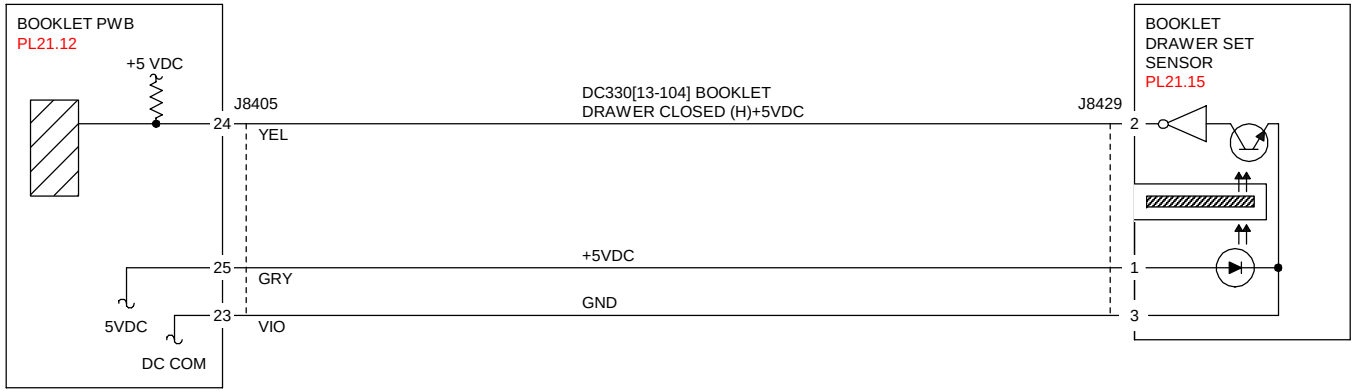


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Figure 1 Booklet Drawer

012-350 Finisher Communication (A/P Finishers)

Communication is not established between the MCU PWB and the Finisher PWB in A/P Finisher.

Procedure

The 012-350 or 012-521 occurred as a result of performing a GP 15 finisher software download.

Y N

Check P/J8300 on the Finisher PWB and P/J403 on the MCU PWB for a secure connection (Figure 1). Check the condition of the wires. Check the connections between the A/P Finisher and the IOT. If the P/Js were recently disconnected and reconnected check for damaged pins.

A

A

Check for less than 1 VDC at P/J403-B3 on the MCU PWB. **Less than 1 VDC is measured.**

Y N

Check the wire between P/J403-B3 on the MCU PWB and P/J8300-11 on the Finisher PWB for damage or a break. Repair as required. If the wire is good, replace the MCU PWB (PL 13.1).

Replace the Finisher PWB (PL 21.12).

Ignore the 012-350/012-521.

***NOTE:** Communications is lost with MCU PWB during Finisher software download and 012-350 is declared.*

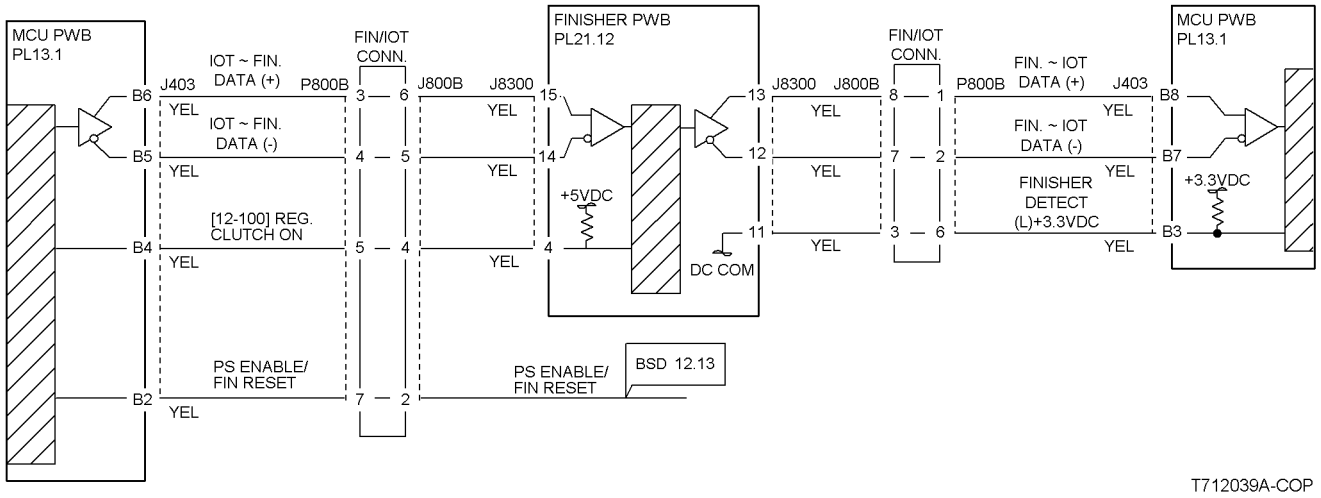


Figure 1 Finisher Communications

012-900 Paper at Buffer Path Sensor (A/P Finishers)

Control logic reports paper at the Buffer Path Sensor.

Initial Actions

Check the following:

- Paper on the Buffer Path Sensor
- Obstructions in the paper path

Procedure

Enter Component Control [014-101], Buffer Path Sensor (PL 21.10). Select Start. Actuate the Buffer Path Sensor. **The display changes.**

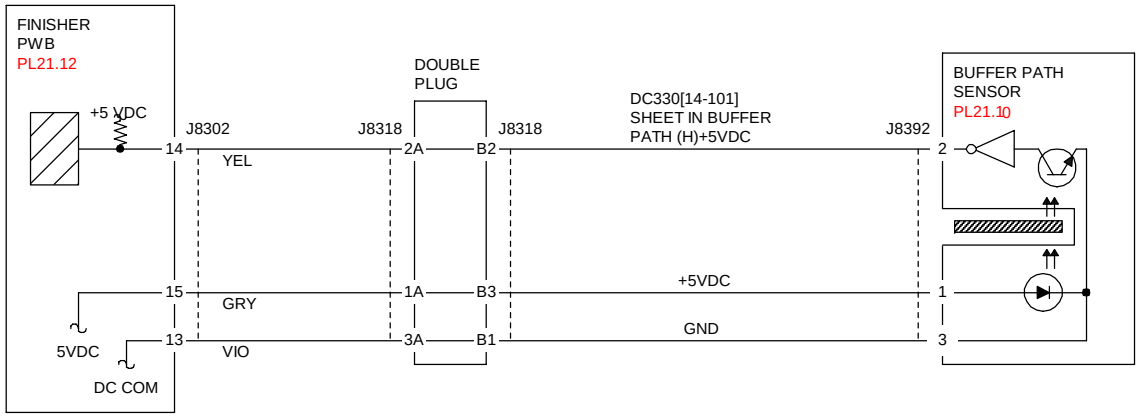
Y N

Select Stop. Go to Figure 1. Check the circuit of the Buffer Path Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Select Stop. Check the following:

- Ensure that the connectors shown in the circuit diagrams are securely connected and that the wires are not damaged
- Finisher for a docking failure

If the above checks are OK, then replace the Buffer Path Sensor (PL 21.10). If the problem persists, replace the Finisher PWB (PL 21.12).



T712108A-COP.VSD.

Figure 1 Buffer Path Sensor

012-901 Paper at H-Transport Entrance Sensor (A/P Finishers)

Control logic reports paper at the H-Transport Entrance Sensor.

Initial Actions

Check the following:

- Paper on the H-Transport Entrance Sensor
- Obstructions in the paper path
- H-Transport Drive Motor Belt for wear or damage
- Guides on the H-Transport Cover for damage, wear or faulty installation

Procedure

Enter Component Control [014-190], H-Transport Entrance Sensor (PL 21.25). Select Start. Open the H-Transport Cover and actuate the H-Transport Entrance Sensor. **The display changes.**

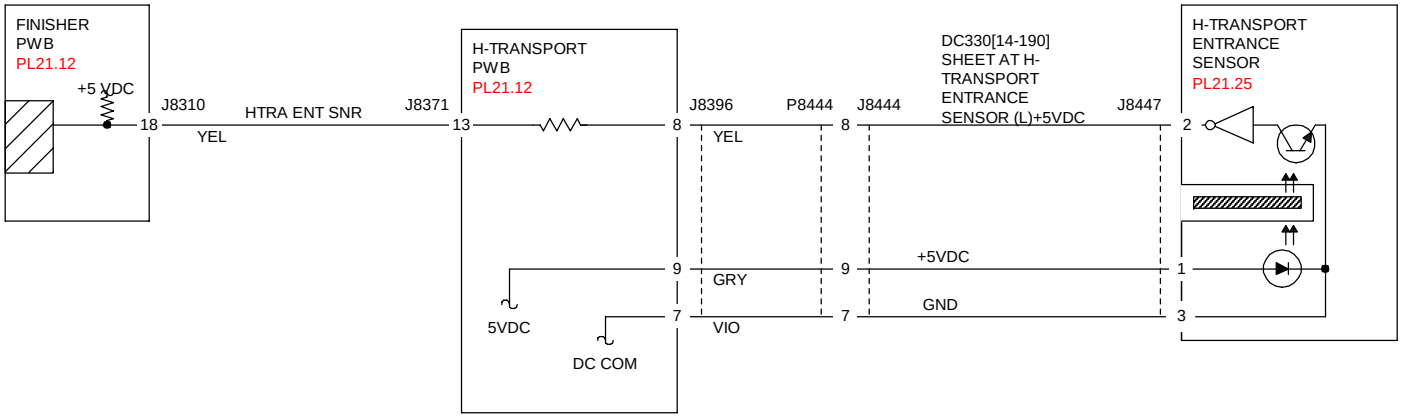
Y N

Select Stop. Go to Figure 1. Check the circuit of the H-Transport Entrance Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Select Stop. Check the following:

- Ensure that the connectors shown in the circuit diagrams are securely connected and that the wires are not damaged
- H-Transport and Finisher for a docking failure
- H-Transport Motor and its associated gears and belts for damage, contamination or mis-alignment

If the above checks are OK, then replace the H-Transport Entrance Sensor (PL 21.25). If the problem persists, replace the Finisher PWB (PL 21.12).



T712106A-COP.VSD.

Figure 1 H-Transport Entrance Sensor

012-902 Paper at H-Transport Exit Sensor (A/P Finisher)

Control logic reports paper at the H-Transport Exit Sensor.

Initial Actions

Check the following:

- Paper on the H-Transport Exit Sensor
- Obstructions in the paper path
- H-Transport Drive Motor Belt for wear or damage
- Guides on the H-Transport Cover for damage, wear or faulty installation

Procedure

Enter Component Control [014-281], H-Transport Tray Exit Sensor (PL 21.25). Select Start. Open the H-Transport Cover and actuate the H-Transport Tray Exit Sensor. **The display changes.**

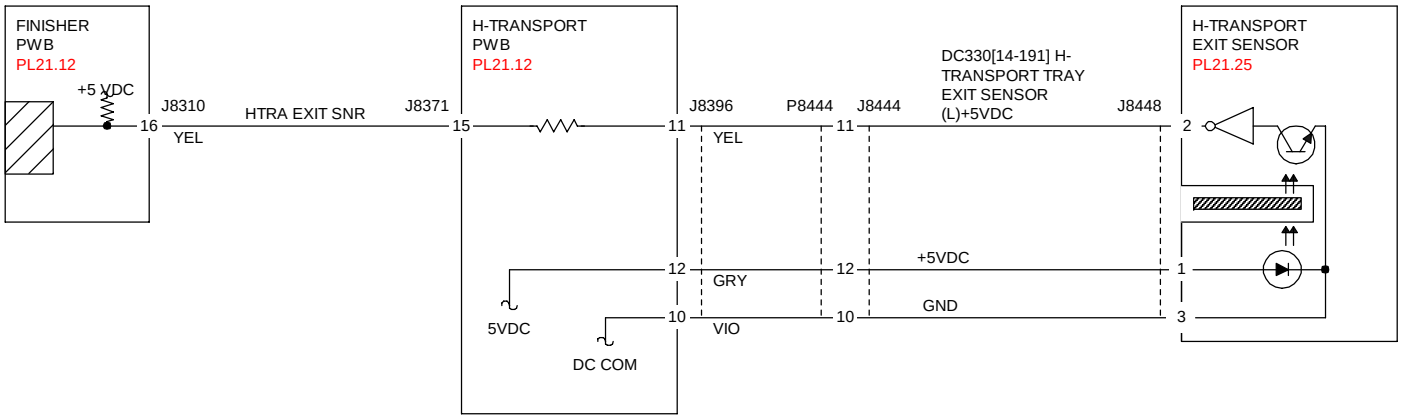
Y N

Select Stop. Go to Figure 1. Check the circuit of the H-Transport Tray Exit Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Select Stop. Check the following:

- Ensure that the connectors shown in the circuit diagrams are securely connected and that the wires are not damaged
- H-Transport and Finisher for a docking failure
- H-Transport Motor and its associated gears and belts for damage, contamination or mis-alignment

If the above checks are OK, then replace the H-Transport Entrance Sensor (PL 21.25). If the problem persists, replace the Finisher PWB (PL 21.12).



T712107A-COP.VSD.

Figure 1 H-Transport Exit Sensor

012-903 Paper at Compiler Exit Sensor (A/P Finisher)

Control logic reports paper at the Compiler Exit Sensor.

Initial Actions

- Paper on the Compiler Exit Sensor
- Obstructions in the paper path

Procedure

Enter Component Control [014-150], Compiler Exit Sensor (PL 21.9). Select Start. Open the H-Transport Cover and actuate the Compiler Exit Sensor. **The display changes.**

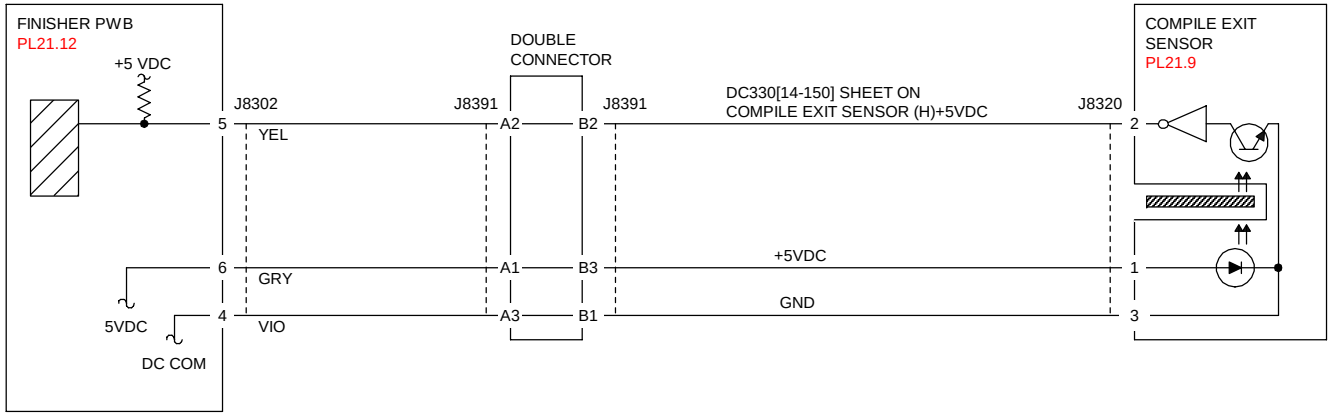
Y N

Select Stop. Go to Figure 1. Check the circuit of the Compiler Exit Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Select Stop. Check the following:

- Ensure that the connectors shown in the circuit diagrams are securely connected and that the wires are not damaged
- Exit Motor Belt for wear or damage
- Exit Pinch Rollers 1 and 2 for damage
- Lower Exit Roller for wear or damage
- Synchronous Belt for wear or damage

If the above checks are OK, then replace the Compiler Exit Sensor (PL 21.9). If the problem continues, replace the Finisher PWB (PL 21.12).



T712122A-COP.VSD.

Figure 1 Compiler Exit Sensor

012-905 Paper at Compiler Tray Paper Sensor (A/P Finishers)

Control logic reports paper at the Compiler Tray Paper Sensor.

Initial Actions

- Paper on the Compiler Tray Paper Sensor
- Obstructions in the paper path

Procedure

Enter Component Control [014-151], Compiler Tray No Paper Sensor (PL 21.9). Select Start. Actuate the Compiler Tray No Paper Sensor. **The display changes.**

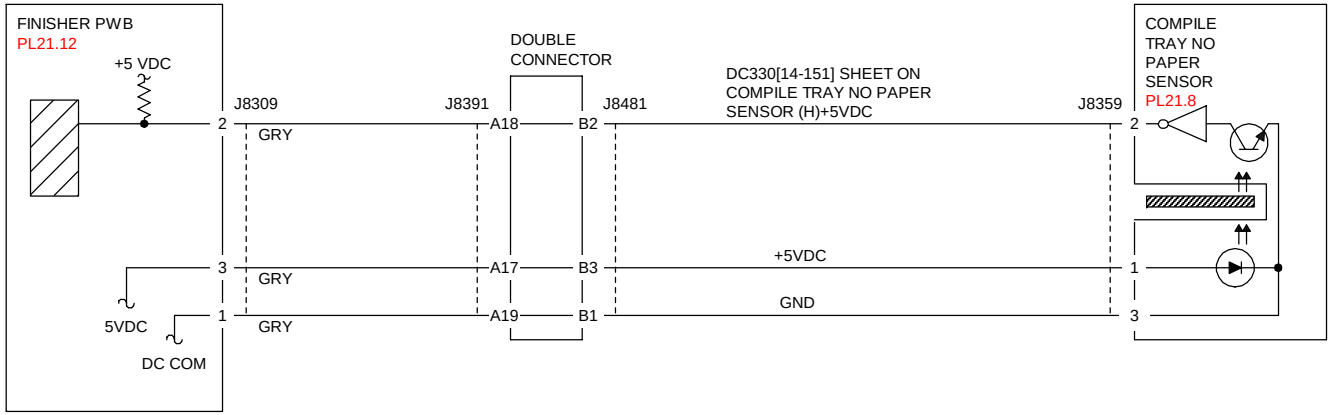
Y **N**

Select Stop. Go to Figure 1. Check the circuit of the Compiler Tray No Paper Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Select Stop. Check the following:

- Ensure that the connectors shown in the circuit diagrams are securely connected and that the wires are not damaged
- Exit Motor Belt for wear or damage
- Exit Pinch Rollers 1 and 2 for damage
- Lower Exit Roller for wear or damage
- Synchronous Belt for wear or damage

If the above checks are OK, then replace the Compiler Tray No Paper Sensor (PL 21.8). If the problem continues, replace the Finisher PWB (PL 21.12).



T712123A-COP.VSD.

Figure 1 Compiler Tray Paper Sensor

012-906 Paper at H-Transport Tray Exit Sensor (A/P Finishers)

Control logic reports paper at the H-Transport Tray Exit Sensor.

Initial Actions

Check the following:

- Paper on the H-Transport Exit Sensor
- Obstructions in the paper path
- H-Transport Drive Motor Belt for wear or damage
- Guides on the H-Transport Cover for damage, wear or faulty installation

Procedure

Enter Component Control [014-191], H-Transport Exit Sensor (PL 21.25). Select Start. Open the H-Transport Cover and actuate the H-Transport Entrance Sensor. **The display changes.**

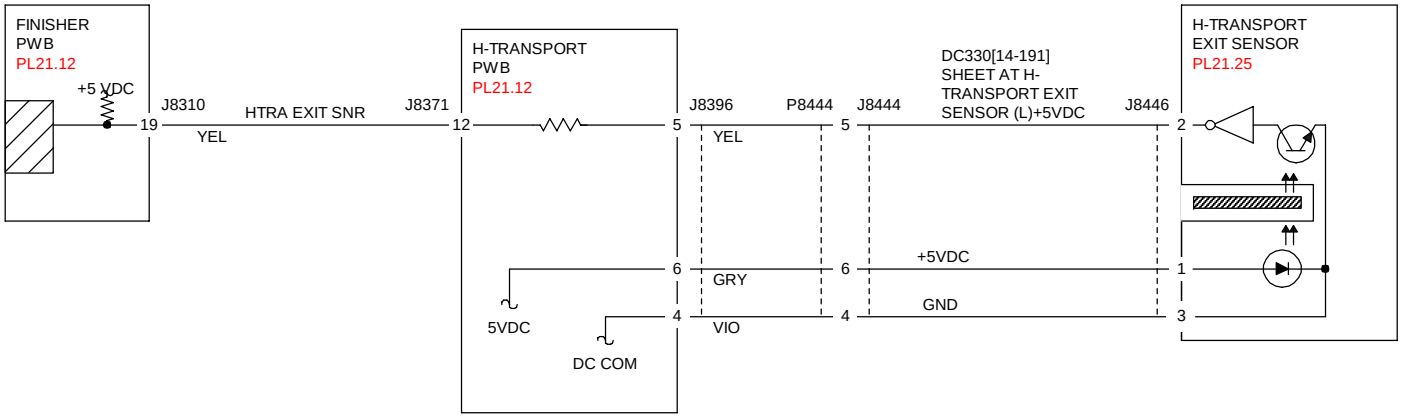
Y N

Select Stop. Go to Figure 1. Check the circuit of the H-Transport Entrance Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Select Stop. Check the following:

- Ensure that the connectors shown in the circuit diagrams are securely connected and that the wires are not damaged
- H-Transport and Finisher for a docking failure
- H-Transport Motor and its associated gears and belts for damage, contamination or mis-alignment

If the above checks are OK, then replace the H-Transport Entrance Sensor (PL 21.25). If the problem persists, replace the Finisher PWB (PL 21.12).



T712124A-COP.VSD.

Figure 1 H-Transport Tray Exit Sensor

012-907 Paper at Top Tray Exit Sensor (A/P Finishers)

Control logic reports paper at the Top Tray Exit Sensor.

Initial Actions

- Paper on the Top Tray Exit Sensor
- Obstructions in the paper path

Procedure

Enter Component Control [014-115], Top Tray Exit Sensor (PL 21.11). Select Start. Actuate the Top Tray Exit Sensor. **The display changes.**

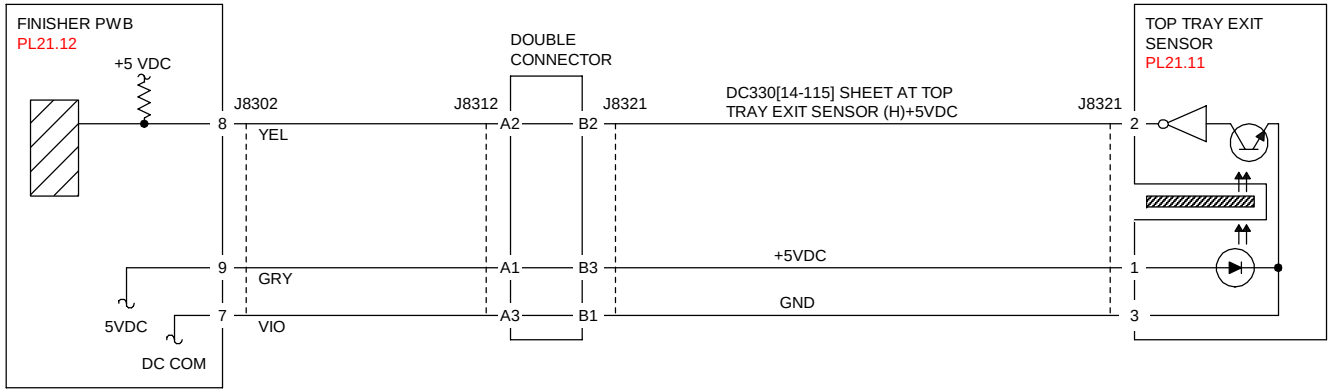
Y N

Select Stop. Go to Figure 1. Check the circuit of the Top Tray Exit Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Select Stop. Check the following:

- Ensure that the connectors shown in the circuit diagrams are securely connected and that the wires are not damaged
- Exit Motor Belt for wear or damage
- Exit Drive Shaft Rolls for wear or damage
- Exit Pinch Rollers for wear or damage
- Synchronous Belt for wear or damage

If the above checks are OK, then replace the Top Tray Exit Sensor (PL 21.11). If the problem continues, replace the Finisher PWB (PL 21.12).



T712152A-COP.VSD.

Figure 1 Top Tray Exit Sensor

012-910 Staple Ready Sensor Fail (A/P Finishers)

Staple Ready Sensor is turned off at stapling start.

Procedure

Enter Component Control [14-242], Stapler Ready Sensor (PL 21.6). Select Start. Block/unblock the Stapler Ready Sensor. **The display changed.**

Y **N**

Select Stop. Go to Figure 1. Check continuity between the Stapler Ready Sensor and Finisher PWB. **The continuity check is OK.**

Y **N**

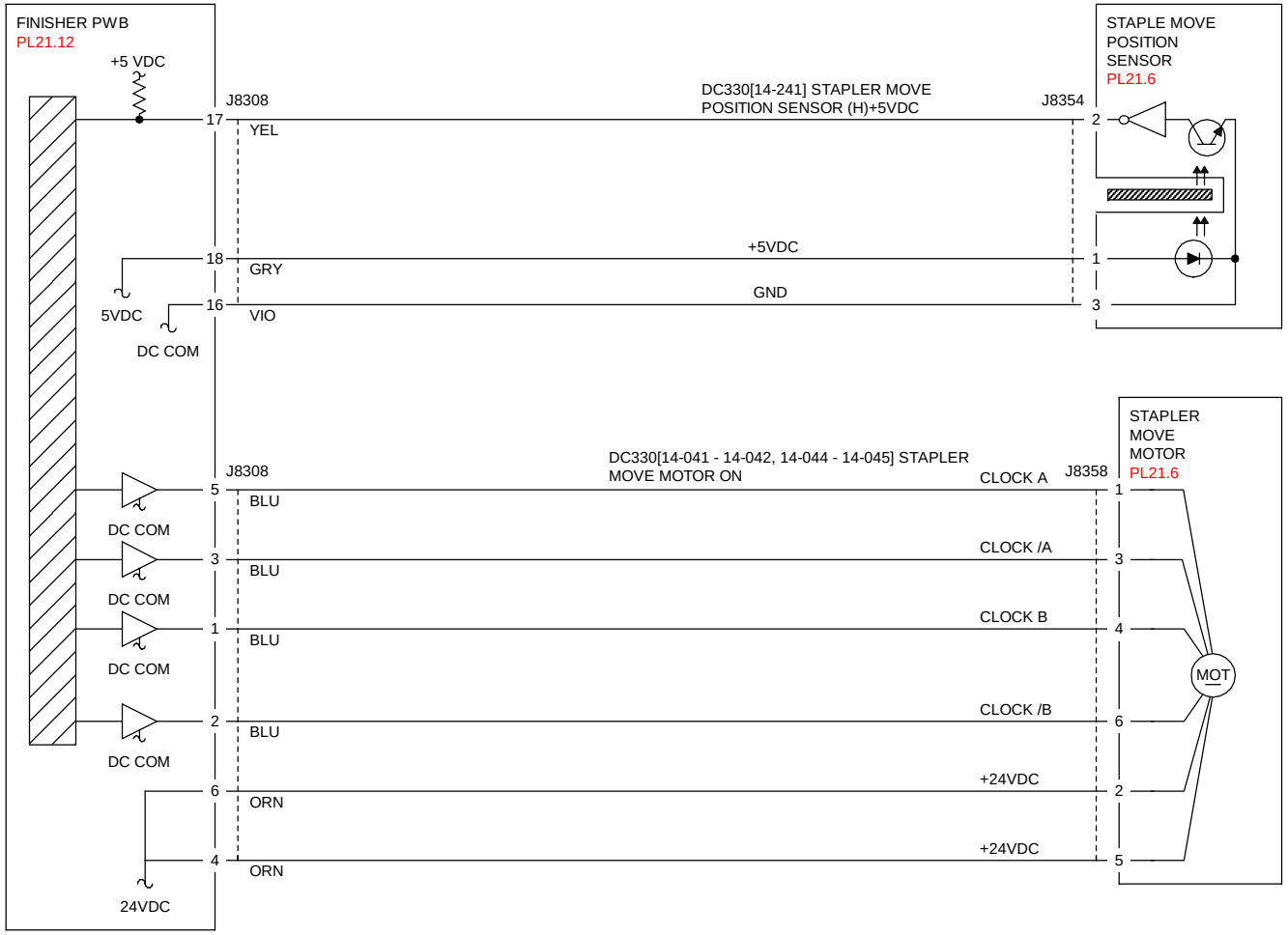
Repair the open circuit or short circuit.

Replace the Stapler Ready Sensor (PL 21.6). If the problem continues, replace the Finisher PWB (PL 21.12).

Select Stop. Check the following:

- Wiring between the Staple Ready Sensor and the Finisher PWB
- Wiring between the Staple Motor and the Finisher PWB
- Obstructions on the Stapler Upper Rail
- Stapler Move Motor Gear

If the above checks are OK. replace the Finisher PWB (PL 21.12).



T712125A-COP.VSD.

Figure 1 Staple Ready Sensor

012-916 Stapler NG (A/P Finishers)

The Staple Home Sensor has not switched from OFF to ON within the specified time after the Staple Motor started rotating forward.

The Staple Head Home Sensor turned ON within xxx msec. after the Staple Motor reversed.

Initial Actions

- The Actuator for deformation
- The Staple Home Sensor for improper installation
- The Staple Home Sensor connectors for connection failure
- The Staple Guide for a foreign substance and deformation
- The Staple Motor for operation failure
- The Staple Motor connectors for connection failure

Procedure

Enter Component Control [14-046] and [14-047], Staple Motor (PL 21.6), alternately. Select Start. **The Staple Motor energizes.**

Y N

Select Stop. Go to Figure 1. Check continuity between the Stapler Head and Finisher PWB. **The continuity check is OK.**

Y N

Repair the open circuit or short circuit.

Replace the Stapler Head (PL 21.6). If the problem continues, replace the Finisher PWB (PL 21.6).

Select Stop. Select [14-241], Staple Home Sensor (PL 21.6). Select [14-046] and [14-047], Staple Motor (PL 21.6), alternately. Select Start. **The display changes.**

Y N

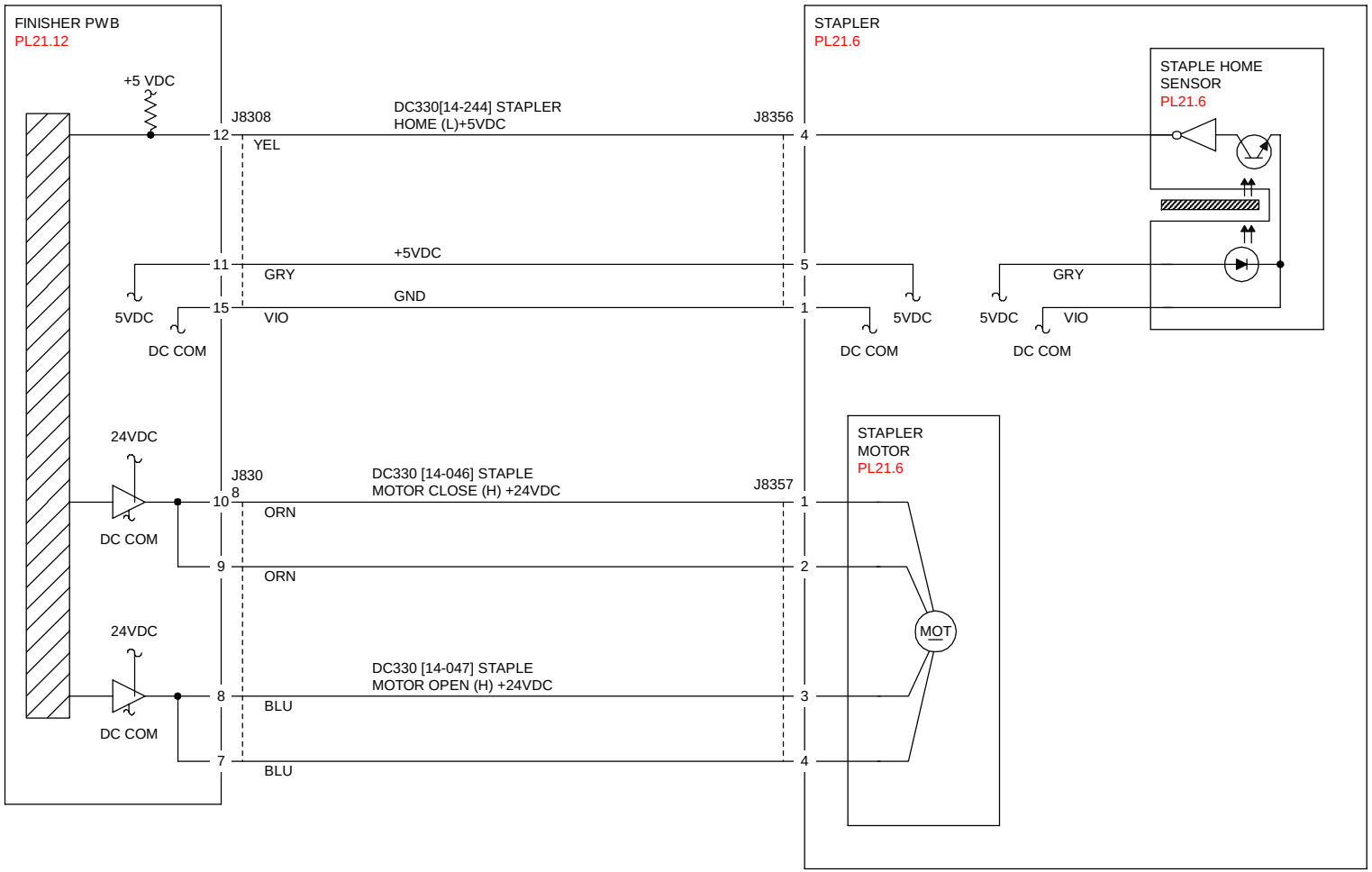
Select Stop. Go to Figure 1. Check continuity between the Stapler Head and Finisher PWB. **The continuity check is OK.**

Y N

Repair the open circuit or short circuit.

Replace the Stapler Head (PL 21.6). If the problem continues, replace the Finisher PWB (PL 21.12).

Select Stop. If the problem continues, replace the Finisher PWB (PL 21.12).



T712128A-COP.VSD.

Figure 1 Staple Home Sensor

012-920 Paper at Gate Sensor (Top Tray Job) (A/P Finishers)

Control logic reports paper at the Gate Sensor.

Initial Actions

- Check for obstructions in the paper path
- Check the Finisher Drive Motor Gears and Drive rolls for wear or damage

Procedure

Enter Component Control [014-102], Gate Sensor (PL 21.11). Select Start. Actuate the Gate Sensor. **The display changes.**

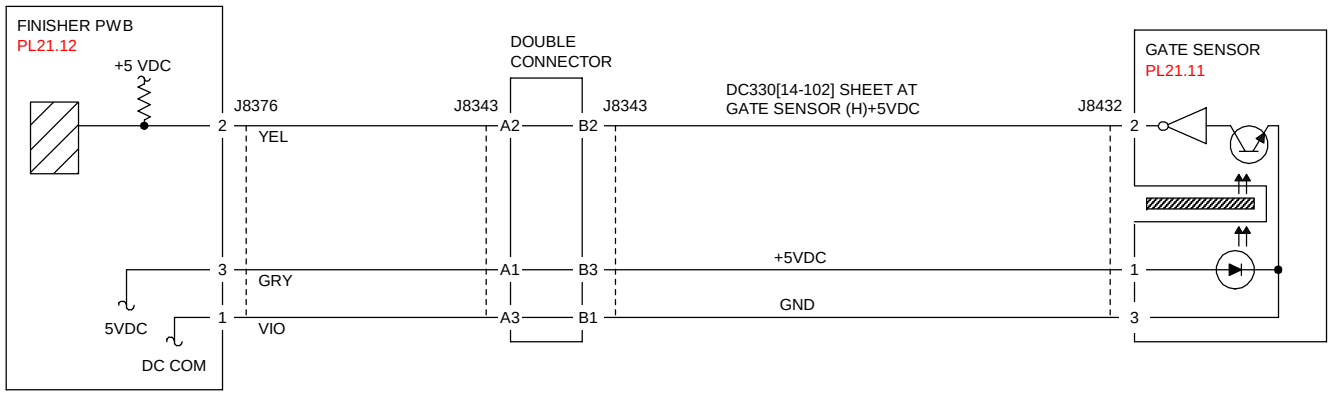
Y **N**

Select Stop. Go to Figure 1. Check the circuit of the Gate Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Select Stop. Check the following:

- Ensure that the connectors shown in the circuit diagrams are securely connected and that the wires are not damaged
- Check the Finisher is docked properly
- Check the Finisher Transport Motor and its associated gears and belts for damage, contamination or misalignment

If the above checks are OK, then replace the Gate Sensor (PL 21.11). If the problem persists, replace the Finisher PWB (PL 21.12).



T712132A-COP.VSD.

Figure 1 Gate Sensor

012-921 Paper at Gate Sensor (Compiler Path Job) (A/P Finishers)

Control logic reports paper at the Gate Sensor.

Initial Actions

- Check for obstructions in the paper path
- Check the Finisher Drive Motor Gears and Drive rolls for wear or damage

Procedure

Enter Component Control [014-102], Gate Sensor (PL 21.11). Select Start. Actuate the Gate Sensor. **The display changes.**

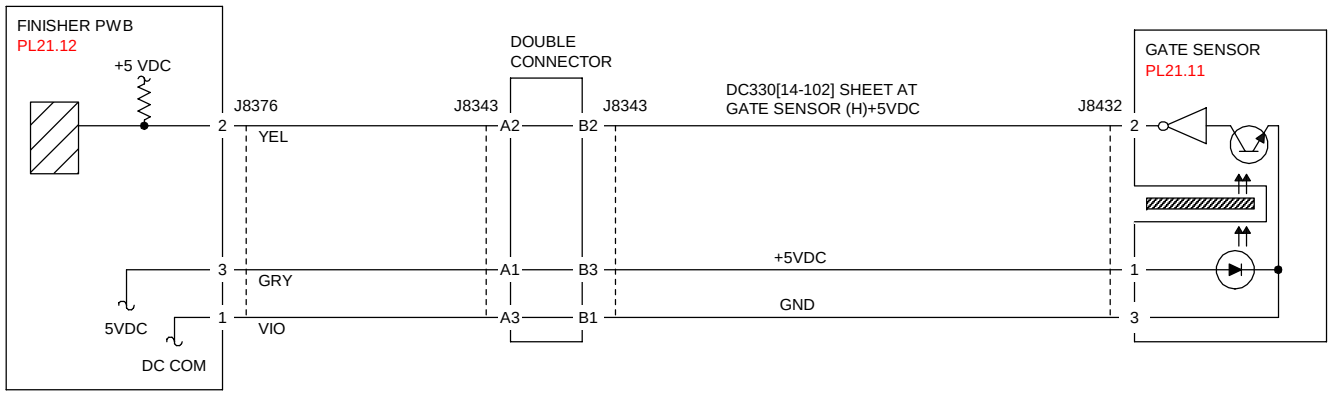
Y **N**

Select Stop. Go to Figure 1. Check the circuit of the Gate Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Select Stop. Check the following:

- Ensure that the connectors shown in the circuit diagrams are securely connected and that the wires are not damaged
- Check the Finisher is docked properly
- Check the Finisher Transport Motor and its associated gears and belts for damage, contamination or misalignment

If the above checks are OK, then replace the Gate Sensor (PL 21.11). If the problem persists, replace the Finisher PWB (PL 21.12).



T712132A-COP.VSD.

Figure 1 Gate Sensor

012-922 Paper at Gate Sensor (Buffer Path Job) (A/P Finishers)

Control logic reports paper at the Gate Sensor.

Initial Actions

- Check for obstructions in the paper path
- Check the Finisher Drive Motor Gears and Drive rolls for wear or damage

Procedure

Enter Component Control [014-102], Gate Sensor (PL 21.11). Select Start. Actuate the Gate Sensor. **The display changes.**

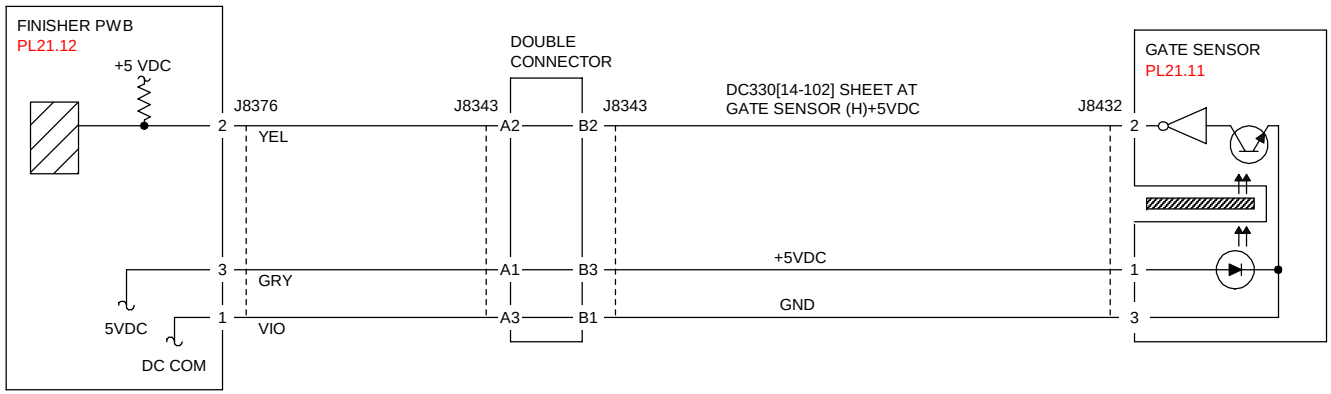
Y **N**

Select Stop. Go to Figure 1. Check the circuit of the Gate Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Select Stop. Check the following:

- Ensure that the connectors shown in the circuit diagrams are securely connected and that the wires are not damaged
- Check the Finisher is docked properly
- Check the Finisher Transport Motor and its associated gears and belts for damage, contamination or misalignment

If the above checks are OK, then replace the Gate Sensor (PL 21.11). If the problem persists, replace the Finisher PWB (PL 21.12).



T712132A-COP.VSD.

Figure 1 Gate Sensor

012-925 Stacker Lower Safety Warning (A/P Finishers)

BSD-ON: 12.41 (Figure 31)

Stack Height Sensor 1 OFF is not detected 500ms after the stacker starts going down and this occurs three times.

Procedure

Check for obstacles in the under the Stacker Tray. **The problem is resolved.**

Y N

Enter Component Control [14-264]. Select **Start**. Move the Stacker Tray manually. **The display changes.**

Y N

GO to BSD 12.41. Check the circuit of Stack Height Sensor 1 (PL 21.4). If the sensor and wiring are OK, replace the Finisher PWB (PL 21.12).

Select **Stop**. Replace the Finisher PWB (PL 21.12).

If the problem continues, replace the Finisher PWB (PL 21.12).

012-935 Paper at Xport Entrance Sensor (A/P Finishers)

Control logic reports paper at the Xport Entrance Sensor.

Initial Actions

- Check for obstructions in the paper path
- Check that the Finisher is docked correctly to ensure proper Transport Gate operation

Procedure

Enter Component Control [014-100], Transport Entrance Sensor (PL 21.10). Select Start. Actuate the Transport Entrance Sensor. **The display changes.**

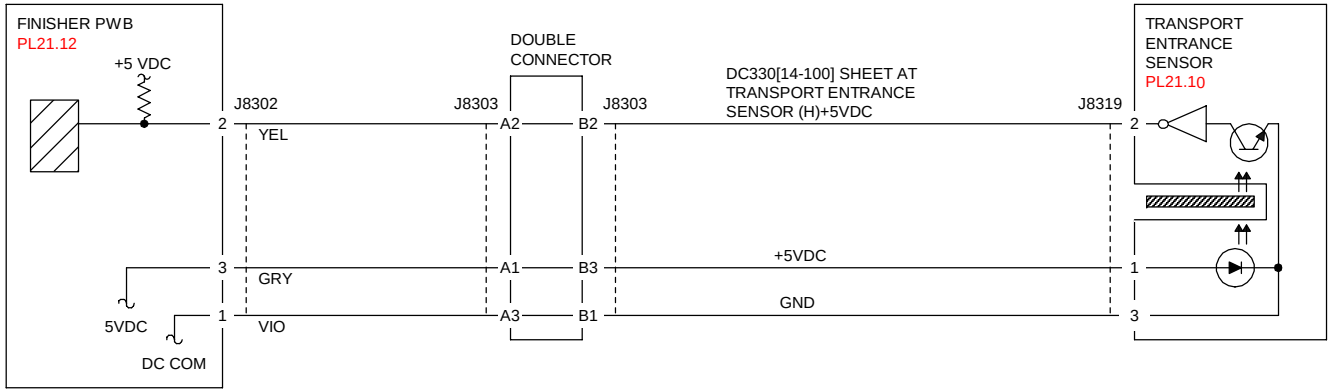
Y N

Select Stop. Go to Figure 1. Check the circuit of the Transport Entrance Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Select Stop. Check the following:

- Ensure that the connectors shown in the circuit diagrams are securely connected and that the wires are not damaged
- Check the H-Transport Motor and its associated gears and belts for damage, contamination or alignment
- Check the Finisher Transport Motor and its associated gears and belts for damage, contamination or alignment

If the above checks are OK, then replace the Transport Entrance Sensor (PL 21.25). If the problem persists, replace the Finisher PWB (PL 21.12).



T712133A-COP.VSD.

Figure 1 Transport Entrance Sensor

012-944 Stacker Set Over Full (A/P Finishers)

The Staple Set Count exceeded the maximum number of sheets on the Stacker Tray during the Staple Set Eject operation.

Procedure

Remove all paper from the Stacker. Perform the job again. **The problem is resolved**

Y N

Replace the Finisher PWB (PL 21.12).

Check the following:

- Eject Motor Gears for wear or damage.
- Paddle Shaft and Paddles for wear or damage.

012-945 Low Staples (A/P Finishers)

The Low Staple Sensor turned ON just before the Staple Motor started running.

Initial Actions

- Stapler Head connectors for connection failure
- Staple remaining amount

Procedure

Enter Component Control [14-242], Low Staple Sensor (PL 21.6). Select Start. **'LOW' (staples available) is displayed.**

Y N

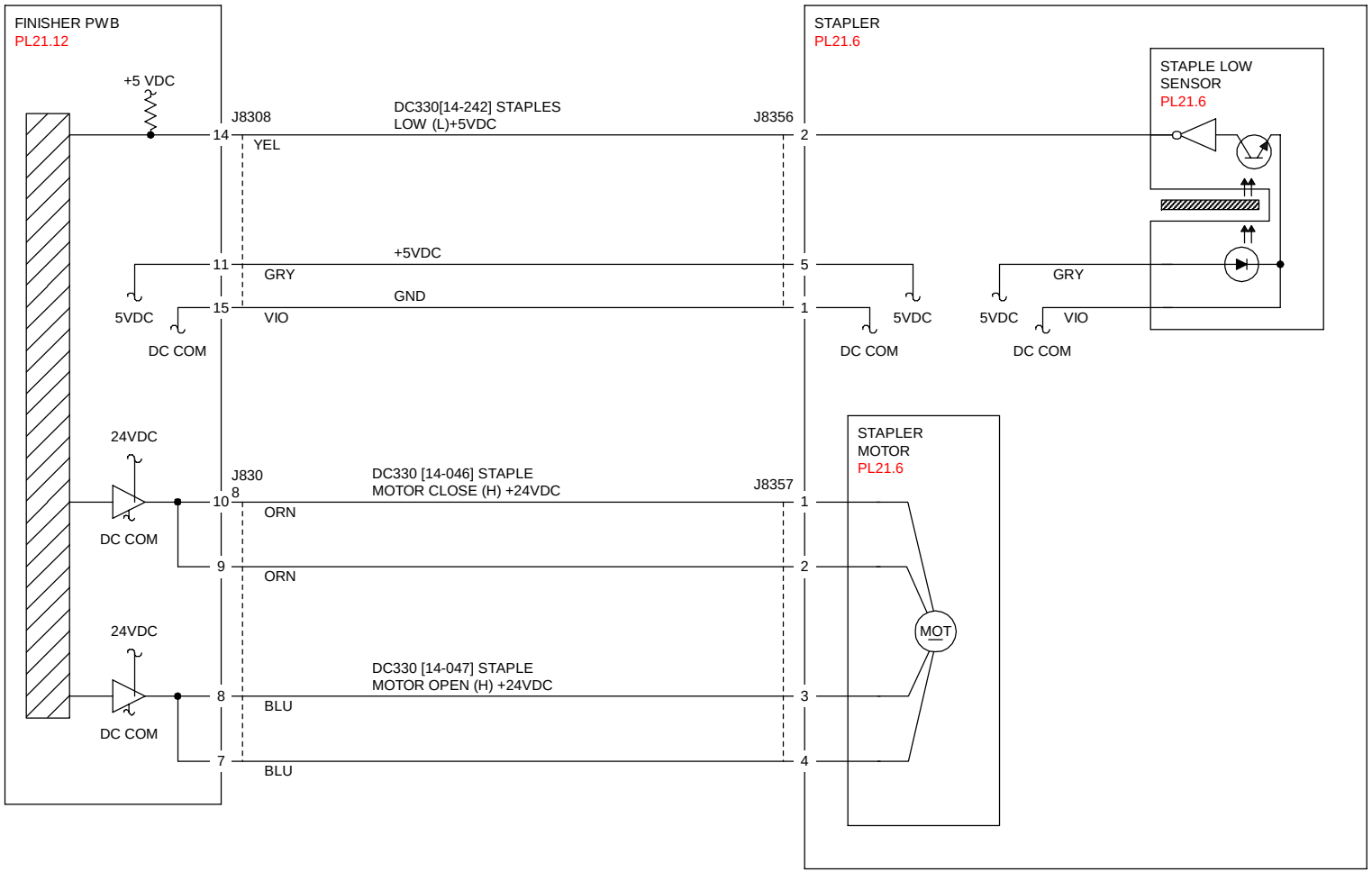
Select Stop. Go to Figure 1. Check continuity between the Stapler Head and Finisher PWB. **The continuity check is OK.**

Y N

Repair the open circuit or short circuit.

Replace the Stapler Head (PL 21.6). If the problem continues, replace the Finisher PWB (PL 21.12).

If the problem continues, replace the Finisher PWB (PL 21.12).



T712134A-COP.VSD.

Figure 1 Low Staple

012-946 Top Tray Full (A/P Finishers)

The Top Tray Full Sensor was turned ON for 10sec continuously.

Initial Actions

- The Top Tray Full Sensor for improper installation
- The Top Tray Full Sensor connectors for connection failure
- The Top Tray Full Sensor Actuator for deformation and operation failure

Procedure

Enter Component Control [14-215], Top Tray Full Sensor, (PL 21.11). Select Start. Actuate the Top Tray Full Sensor. **The display changes.**

Y **N**

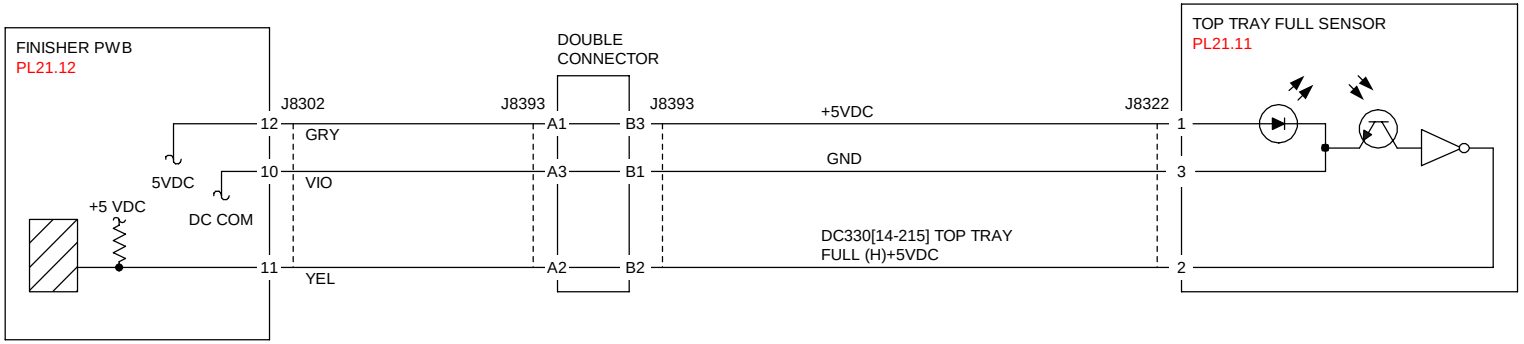
Select Stop. Go to Figure 1. Check continuity between the Top Tray Full Sensor and Finisher PWB. **The continuity check is OK.**

Y **N**

Repair the open circuit or short circuit.

Replace the Top Tray Full Sensor (PL 21.11). If the problem continues, replace the Finisher PWB (PL 21.12).

Select Stop. If the problem continues, replace the Finisher PWB (PL 21.12).



T712135A-COP.VSD.

Figure 1 Top Tray Full Sensor

012-948 Puncher Waste Bin Nearly Full (A/P Finishers)

Cumulative punching count reached the specified times (2-hole punching: 5000 times, 4-hole punching: 2500 times).

Procedure

Remove the Puncher Waste Bin and discard its dust. Install the Puncher Waste Bin. **The problem resolved.**

Y N

Enter dC330 [14-275], Puncher Box Set Sensor (PL 21.5). Select Start. Remove and insert the Puncher Waste Bin. The display changes.

Y N

Select Stop. Go to Figure 1. Check continuity between the Puncher Box Set Sensor and Finisher Main PWB. **The continuity check is OK.**

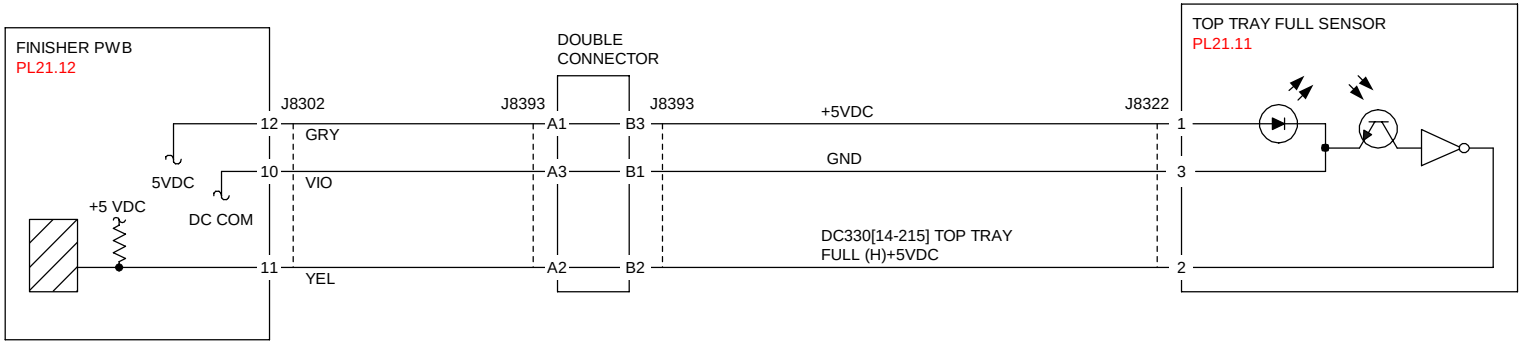
Y N

Repair the open circuit or short circuit.

Replace the Puncher Box Set Sensor (PL 21.5). If the problem continues, replace the Finisher PWB (PL 21.12).

Select Stop. Replace the Finisher PWB (PL 21.12).

Ensure the Puncher Waste Bin is installed properly.



T712135A-COP.VSD.

Figure 1 Puncher Set Box

012-949 Puncher Waste Bin Open (A/P Finishers)

The Puncher Waste Bin Set Sensor detected OFF (No Puncher Waste Bin).

Initial Actions

- The Puncher Waste Bin Set Sensor for improper installation
- The Puncher Waste Bin Set Sensor connectors for connection failure
- The Puncher Waste Bin Actuator part for deformation and damage
- The Guide for deformation
- The Guide for a foreign substance

Procedure

Enter Component Control [14-275], Puncher Box Set Sensor (PL 21.5). Select Start. Remove and insert the Puncher Waste Bin manually. **The display changes**

Y **N**

Select Stop. Go to Figure 1. Check continuity between the Puncher Box Set Sensor and Finisher Main PWB. **The continuity check is OK.**

Y **N**

Repair the open circuit or short circuit.

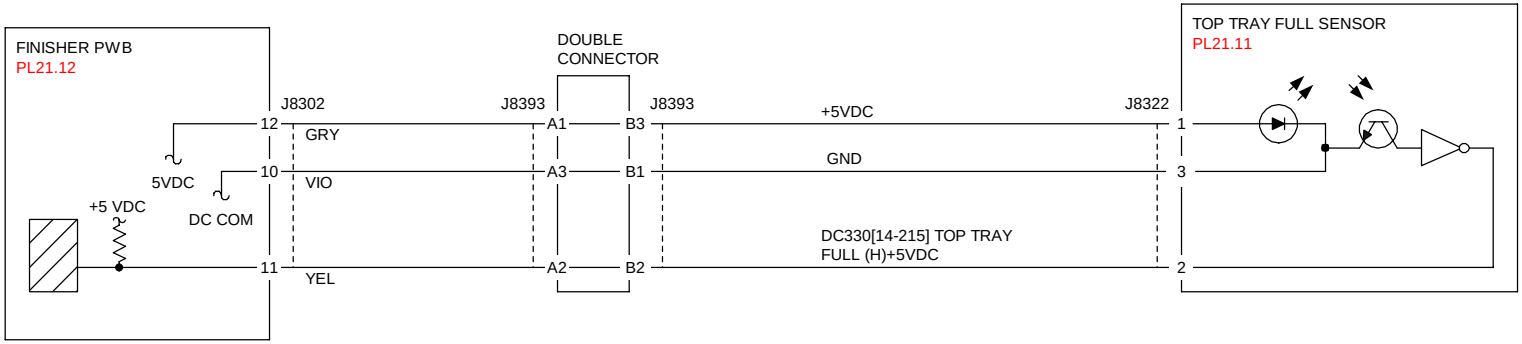
Replace the Puncher Box Set Sensor (PL 21.5). If the problem continues, replace the Finisher PWB (PL 21.12).

Check the Puncher Waste Box Actuator and Guide for deformation. **The Puncher Waste Bin can be removed and inserted properly.**

Y **N**

Repair or replace the Puncher Waste Bin (PL 21.5).

Select Stop. If the problem continues, replace the Finisher PWB (PL 21.12).



T712135A-COP.VSD.

Figure 1 Puncher Set Box

012-959 Full Stack was detected (A/P Finishers)

Stacker No Paper Sensor On was detected during the Stacker Tray height adjusting operation.

Initial Actions

- The Stacker No Paper Sensor for improper installation
- The Stacker No Paper Sensor connectors for connection failure
- The Elevator Motor for operation failure
- The Elevator Motor connectors for connection failure

Procedure

Enter Component Control [14-061] and [14-060], Elevator Motor (PL 21.4), alternately. Select Start. **The Elevator Motor energizes.**

Y N

Select Stop. Go to Figure 1. Check continuity between the Elevator Motor and Finisher PWB. **The continuity check is OK,**

Y N

Repair the open circuit or short circuit.

Replace the Elevator Motor (PL 21.4). If the problem continues, replace the Finisher PWB

Select Stop. Select [14-262], Stacker No Paper Sensor (PL 21.4). Select Start. Block/unblock the Stacker No Paper Sensor. **The display changes.**

Y N

Select Stop. Go to Figure 1. Check continuity between the Stacker No Paper Sensor and Finisher PWB. **The continuity check is OK,**

Y N

Repair the open circuit or short circuit.

Replace the Stacker No Paper Sensor (PL 21.4). If the problem continues, replace the Finisher PWB

Select [14-263], Stacker Encoder Sensor (PL 21.4). Select Start. Block/unblock the Stacker Encoder Sensor. **The display changes.**

Y N

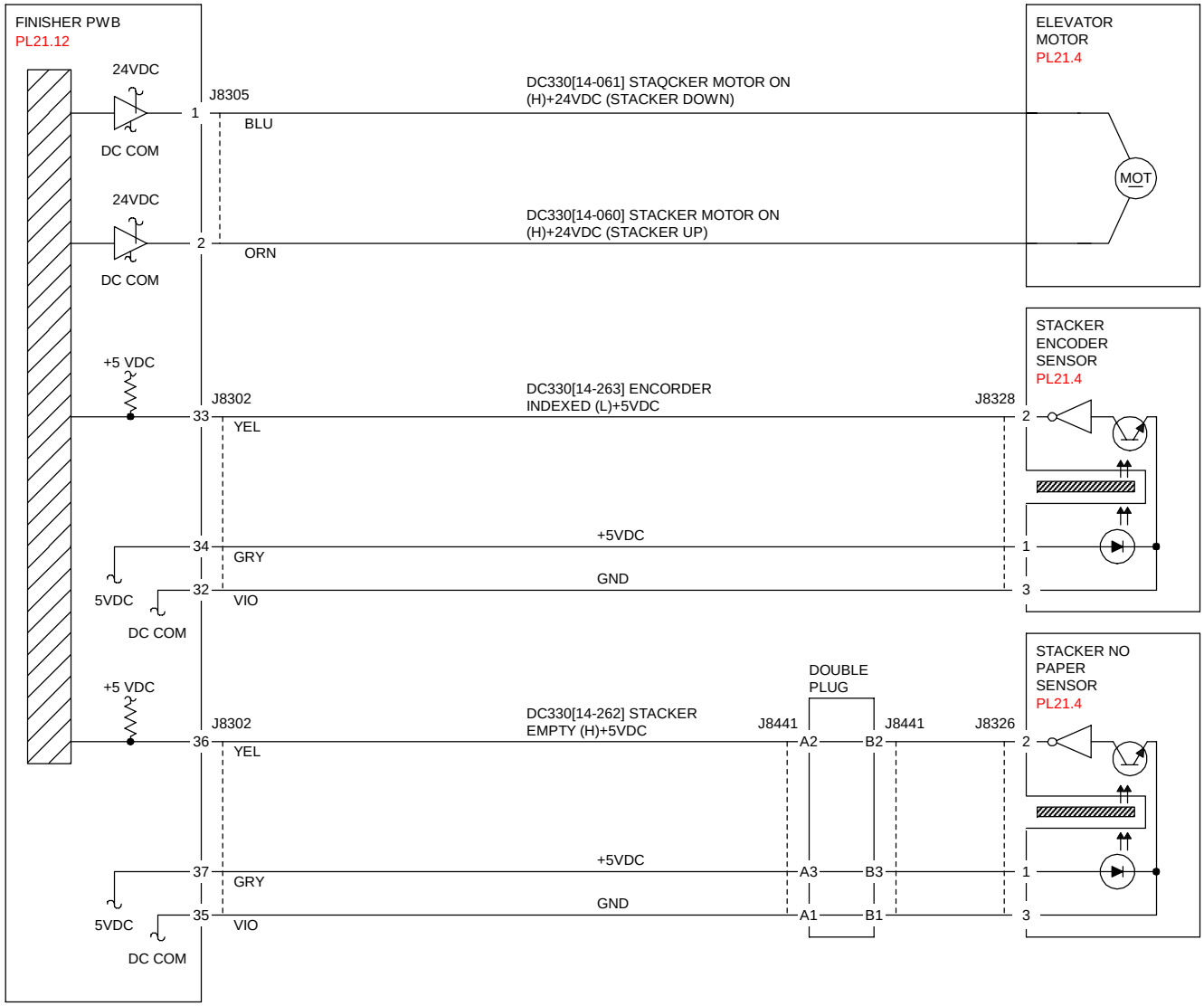
Select Stop. Go to Figure 1. Check continuity between the Stacker Encoder Sensor and Finisher PWB. **The continuity check is OK,**

Y N

Repair the open circuit or short circuit.

Replace the Stacker Encoder Sensor (PL 21.4). If the problem continues, replace the Finisher PWB

Select Stop. If the problem continues, replace the Finisher PWB (PL 21.12).



T712147A-COP.VSD.

Figure 1 Stacker Tray

012-960 Full Stack detected (A/P Finishers)

Stacker No Paper Sensor On was detected during the Stacker Tray height adjusting operation.

Initial Actions

- The Stacker No Paper Sensor for improper installation
- The Stacker No Paper Sensor connectors for connection failure
- The Elevator Motor for operation failure
- The Elevator Motor connectors for connection failure

Procedure

Enter Component Control [14-061] and [14-060], Elevator Motor (PL 21.4), alternately. Select Start. **The Elevator Motor energizes.**

Y N

Select Stop. Go to Figure 1. Check continuity between the Elevator Motor and Finisher PWB. **The continuity check is OK,**

Y N

Repair the open circuit or short circuit.

Replace the Elevator Motor (PL 21.4). If the problem continues, replace the Finisher PWB

Select [14-263], Stacker Encoder Sensor (PL 21.4). Select Start. Block/unblock the Stacker Encoder Sensor. **The display changes.**

Y N

Select Stop. Go to Figure 1. Check continuity between the Stacker Encoder Sensor and Finisher PWB. **The continuity check is OK,**

Y N

Repair the open circuit or short circuit.

Replace the Stacker Encoder Sensor (PL 21.4). If the problem continues, replace the Finisher PWB

Select Stop. Select [14-272], Stacker No Paper Sensor (PL 21.4). Select Start. Block/unblock the Stacker No Paper Sensor. **The display changes.**

Y N

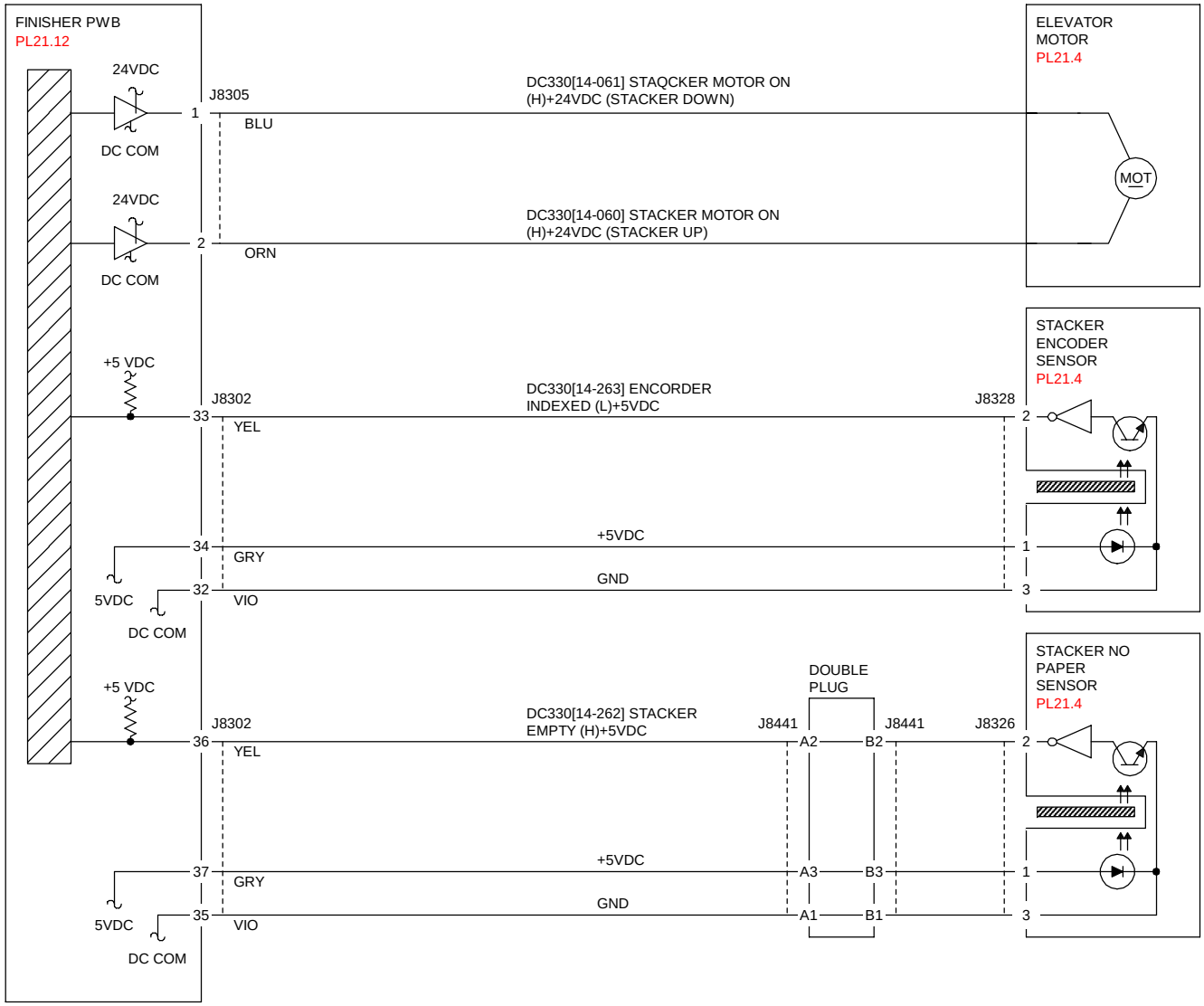
Select Stop. Go to Figure 1. Check continuity between the Stacker No Paper Sensor and Finisher PWB. **The continuity check is OK,**

Y N

Repair the open circuit or short circuit.

Replace the Stacker No Paper Sensor (PL 21.4). If the problem continues, replace the Finisher PWB

Select Stop. If the problem continues, replace the Finisher PWB (PL 21.12).



T712147A-COP.VSD.

Figure 1 Stacker Tray

012-961 Mix Stack detected (A/P Finishers)

Mix Stack Sensor On was detected during Mix Job.

Initial Actions

- The Elevator Motor for operation failure
- The Elevator Motor connectors for connection failure

Procedure

Enter Component Control [14-061] and [14-060], Elevator Motor (PL 21.4), alternately. Select Start. **The Elevator Motor energizes.**

Y N

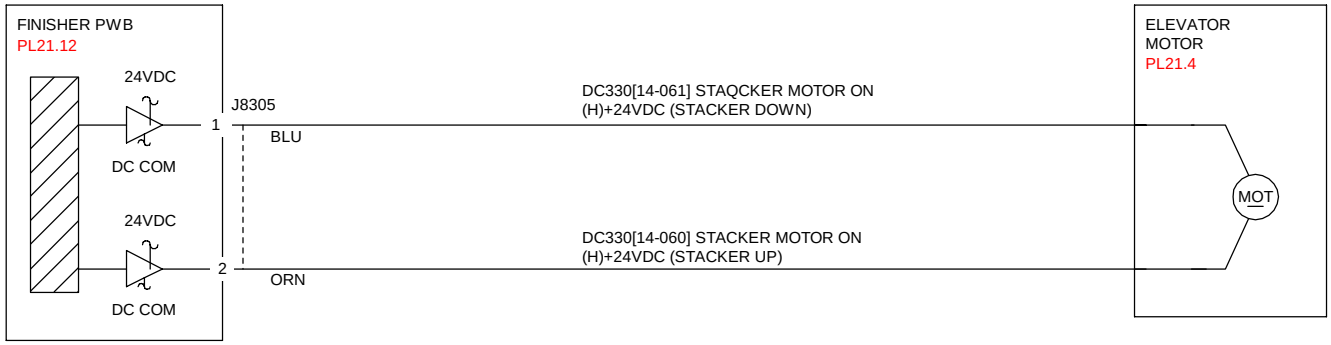
Select Stop. Go to Figure 1. **Check continuity between the Elevator Motor and Finisher PWB. The continuity check is OK.**

Y N

Repair the open circuit or short circuit.

Replace the Elevator Motor (PL 21.4). If the problem continues, replace the Finisher PWB (PL 21.12).

Select Stop. If the problem continues, replace the Finisher PWB (PL 21.12).



T712150A-COP.VSD.

Figure 1 Elevator Motor

012-978 Booklet Stapler NG (A/P Finishers)

Error signal ON and Ready signal ON output from the Staple were detected after Booklet Stapling operation.

Procedure

Go to Figure 1. Check continuity between the Booklet PWB and Finisher PWB. **The continuity check is OK.**

Y **N**

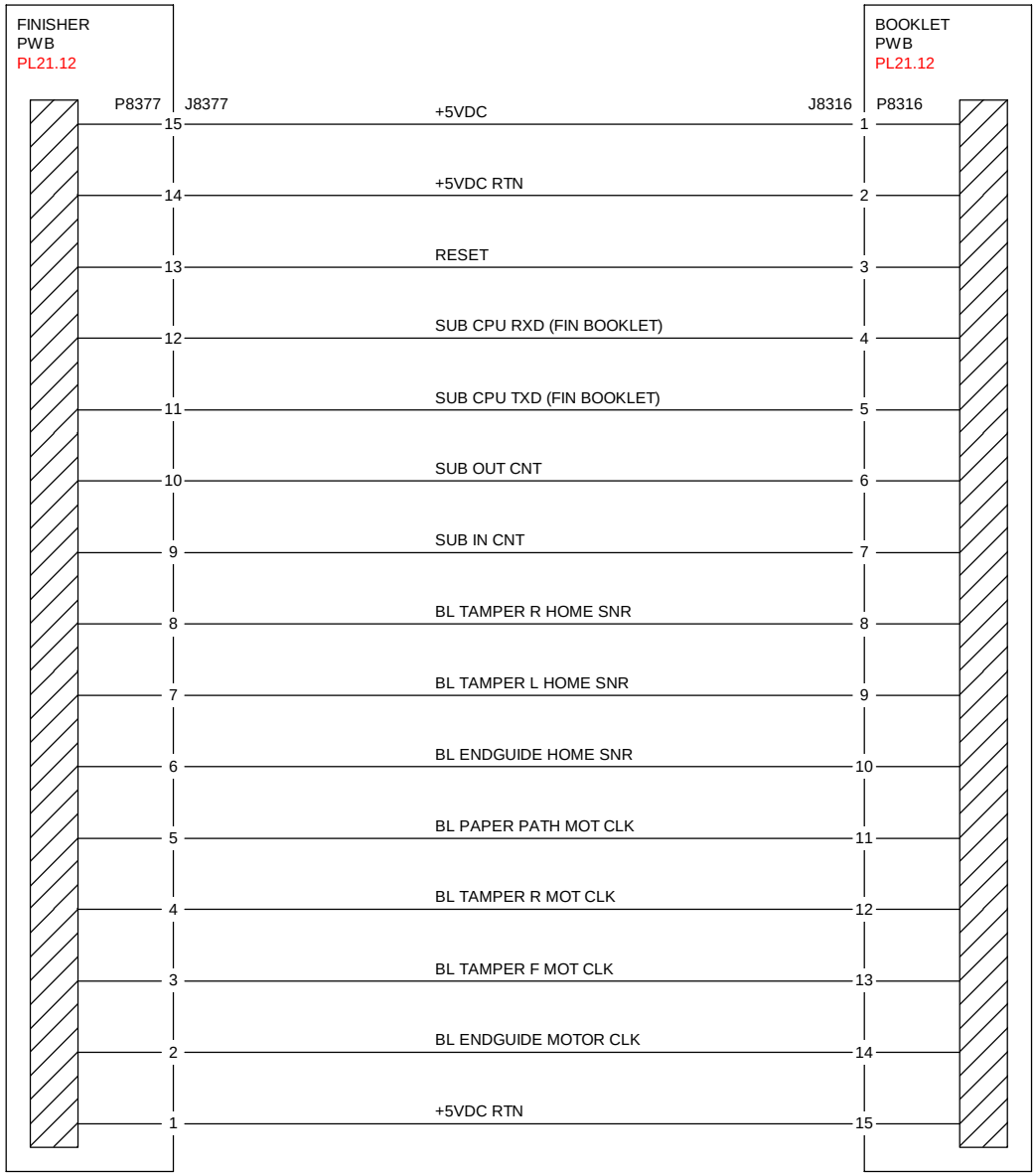
Repair the open circuit or short circuit.

Replace the Staple (PL 21.16). The problem resolved.

Y **N**

Replace the Booklet PWB (PL 21.12). If the problem continues, replace the Finisher PWB (PL 21.12).

If the problem continues, replace the Finisher PWB (PL 21.12).



T712143A-COP.VSD.

Figure 1 Finisher, Booklet PWBs

012-983 Booklet Tray Full was detected. (A/P Finishers)

Booklet Tray Full was detected.

Procedure

Remove all sets. Perform the job again. **The problem is resolved.**

Y **N**

Replace the Finisher Main PWB (PL 21.12).

If the problem continues, replace the Finisher PWB (PL 21.12).

012-984 Booklet Low Staple F (A/P Finishers)

Booklet Stapler Low Staple Front signal was detected just before Stapling operation.

Booklet Stapler Low Staple Front signal was detected at Power ON, at initialization, or when the interlock was closed.

Procedure

Supply the staples. **The problem is resolved.**

Y **N**

Enter Component Control [13-108], Booklet Stapler Low Staple Front. Select **Start. 'LOW' (staples available) is displayed**

Y **N**

Select Stop. Go to Figure 1. Check continuity between the Staple and Booklet PWB, and between the Booklet PWB and Finisher PWB. **The continuity check is OK.**

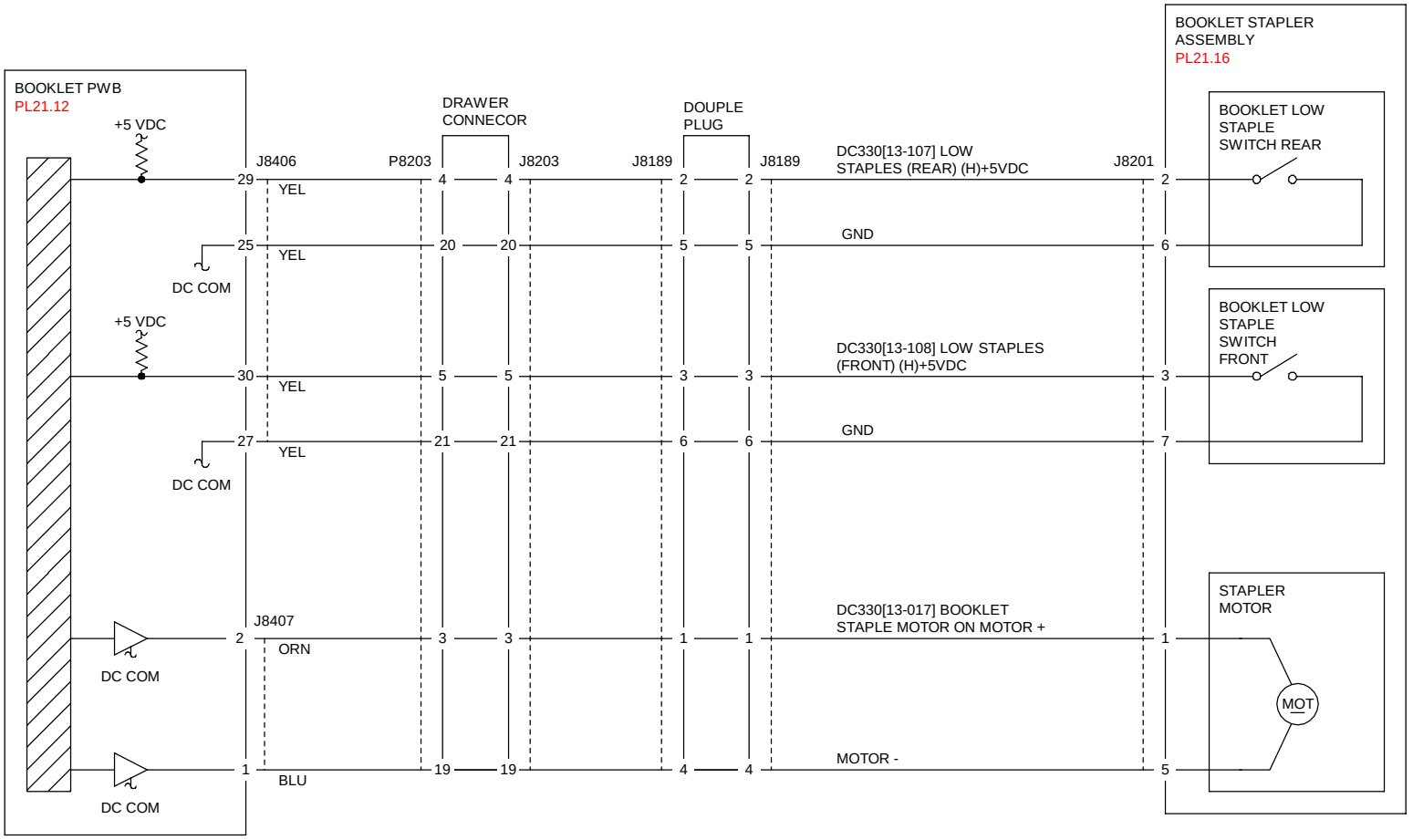
Y **N**

Repair the open circuit or short circuit.

Replace the Booklet Stapler Low Staple Front (PL 21.16). If the problem continues, replace the Finisher PWB (PL 21.12).

Select Stop. Replace the Finisher PWB (PL 21.12). If the problem continues, replace the Booklet PWB (PL 21.12).

If the problem continues, replace the Finisher PWB (PL 21.12). If the problem persists, replace the Booklet PWB (PL 21.12).



T712145A-COP.VSD.

Figure 1 Stapler Front Assembly

012-989 Booklet Low Staple R (A/P Finishers)

Booklet Stapler Low Staple Rear signal was detected just before Stapling operation.

Booklet Stapler Low Staple Rear signal was detected at Power ON, at initialization, or when the interlock was closed.

Procedure

Supply the staples. **The problem is resolved.**

Y **N**

Enter Component Control [13-107], Booklet Stapler Low Staple Rear. Select Start. **'LOW' (staples available) is displayed**

Y **N**

Select **Stop.** Go to Figure 1. Check continuity between the Staple and Booklet PWB, and between the Booklet PWB and Finisher PWB. **The continuity check is OK.**

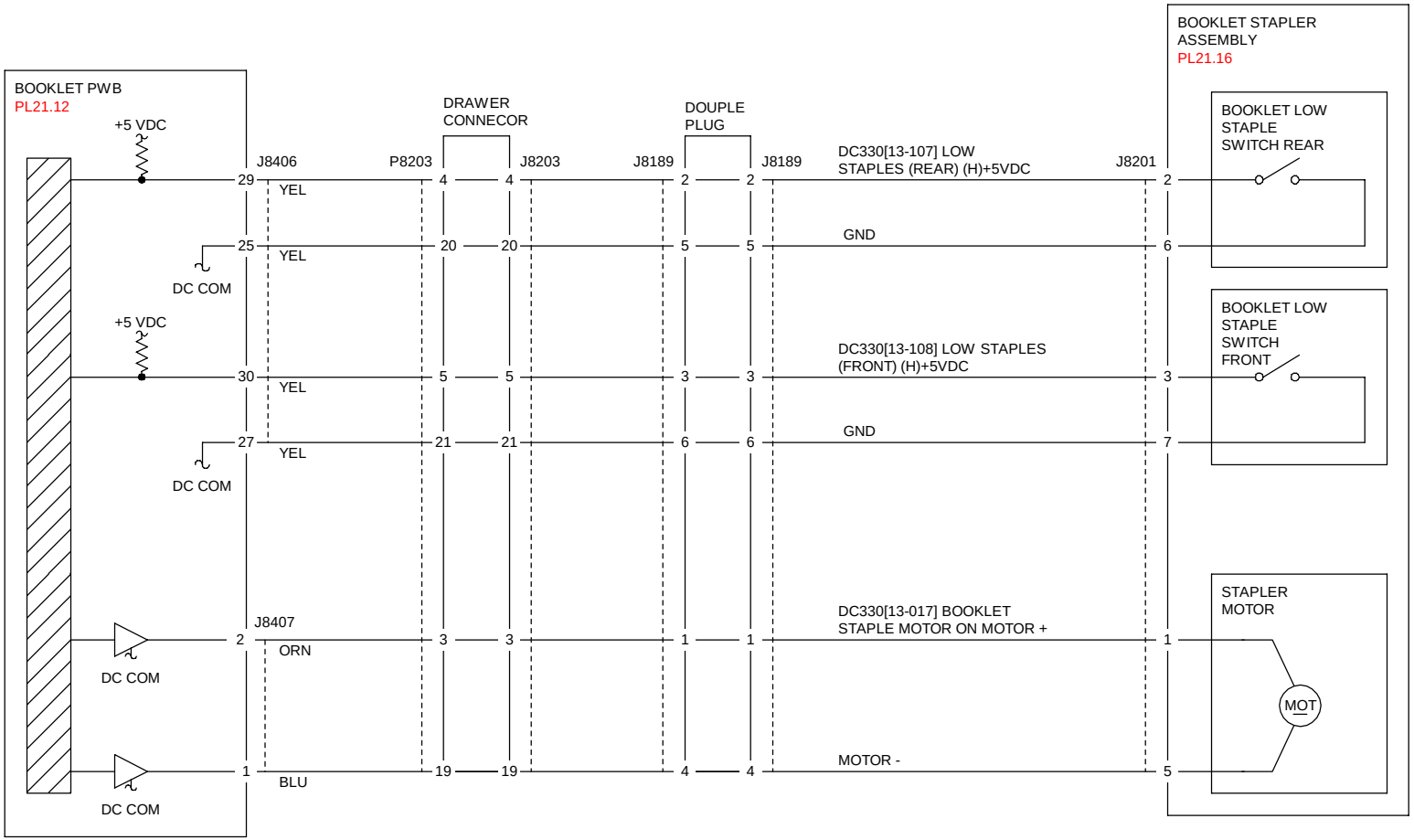
Y **N**

Repair the open circuit or short circuit.

Replace the Booklet Stapler Low Staple Rear (PL 21.16). If the problem continues, replace the Finisher PWB (PL 21.12).

Select Stop. Replace the Finisher PWB (PL 21.12). If the problem continues, replace the Booklet PWB (PL 21.12).

If the problem continues, replace the Finisher PWB (PL 21.12). If the problem persists, replace the Booklet PWB (PL 21.12).



T712145A-COP.VSD.

Figure 1 Stapler Rear Assembly

13-902 Paper remains at Booklet Compiler No Paper Sensor

Paper remains at the Booklet Compile No Paper Sensor.

Procedure

Go to 012-266 Booklet Compiler No Paper Sensor Fail to troubleshoot the Fault.

13-903 Paper remain at Booklet Folder Roll Exit Sensor

Paper remains at the Booklet Folder Roll Exit Sensor.

Procedure

Go to 012-115 Booklet Folder Roll Exit Sensor On Jam and/or 012-180 Booklet Folder Roll Exit Sensor Off Jam to troubleshoot the Fault.

016-210 Software Option (HDD Error) RAP

BSD-ON:16.1 Figure 1

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

Initial Actions

Power Off/On

Procedure

Check HDD electrical connections (PL 13.2 WC 7228/35/45 PL 13.4 WC7328/35/45).

If the problem persists perform Initialize Hard Disk.

If the problem persists, replace the HDD (PL 13.2 WC 7228/35/45 PL 13.4 WC7328/35/45).

016-211 Software Option (System Memory Low) RAP

BSD-ON:16.1 Figure 1

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

Initial Actions

Power Off/On

Procedure

Refer customer to following User Guide headings to check memory usage:

- Allocate Memory
- Memory Settings
- Covers
- Mailbox Screen
- Properties
- Properties Features
- Data Encryption
- Memory Full Procedure
- Maximum Stored Pages

016-212 Software Option (Page Memory Low) RAP

BSD-ON:16.1 Figure 1

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

Initial Actions

Power Off/On

Procedure

Refer customer to following User Guide headings to check memory usage:

- Allocate Memory
- Memory Settings
- Properties
- Properties Features
- Maximum Stored Pages
- Mailbox Screen
- Data Encryption
- Memory Full Procedure
- Covers

016-213 Software Option (Printer PWB) RAP

BSD-ON:16.1 Figure 1

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

Procedure

Check installation of the Printer PWB (USB or Parallel) (PL 13.3).

016-214 Software Option RAP

BSD-ON:16.1 Figure 1 / 34.1 Figure 1

One of the FAX address book functions cannot be executed due to a FAX PWB error not installed.

Initial Actions

Power Off/On

Procedure

Check the installation of the FAX PWB (PL 9.4).

016-215 Software Option RAP

BSD-ON:16.1 Figure 1

Functions such as scanner cannot be executed due to JPEG PWB error.

Initial Actions

Power Off/On

Procedure

Check installation and electrical connections of JPEG PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

016-216 Software Option RAP

BSD-ON:16.1 Figure 1

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

Initial Actions

Power Off/On

Procedure

Check installation and electrical connections of PWBs (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45 and PL 13.3)

016-217 Software Option RAP

BSD-ON:16.1 Figure 1

Functions such as local printing cannot be executed due to a Printer Kit option PWB error or the ESS PWB ROM is incompatible with the Printer Kit.

Initial Actions

Power Off/On

Procedure

Check installation and electrical connections of Printer PWB (USB or Parallel), ESS PWB and ESS ROMs. (PL 13.2, PL 13.3 WC 7228/35/45) (PL 13.4, PL 13.3 WC 7328/35/45)

016-218 PostScript (PS) Kit not Installed RAP

Because PostScript (PS) Kit is not installed, XDOD functions cannot be fulfilled.

Procedure

- Switch the power OFF then ON.
- Install the PS Kit, check with System Administrator for availability of the Kit.

016-219 Software Option RAP

BSD-ON:16.1 **Figure 1**

Functions such as local printing cannot be executed due to the Printing Kit SW Option not being enabled.

Initial Actions

Power Off/On

Procedure

Install the Printer Kit SW Option Key Software Optionsand set to enable.

016-220 SX2 Unrecoverable Error RAP

S2X Unrecoverable Error. A fatal SX2 error was detected. (WC 7228/35/45 0nly)

Procedure

1. Switch machine power Off then On.
2. If problem is still present, replace the S2X PWB (PL 18.3).

016-221 SX2 Communication Error RAP

S2X Communication Error. It was not possible to communicate with S2X. (WC 7228/35/45 0nly)

Procedure

1. Switch machine power Off then On.
2. If problem is still present, replace the S2X PWB (PL 18.3).

016-222 SX2 Self-Diag Error RAP

S2X Self-Diag Error. An error occurred during S2X self-diagnosis (WC 7228/35/45 0nly).

Procedure

1. Switch machine power Off then On.
2. If problem is still present, replace the S2X PWB (PL 18.3).

016-223 SX2 SDRAM Error RAP

S2X SDRAM Error. (WC 7228/35/45 0nly)

Procedure

1. Switch machine power Off then On.
2. If problem is still present, replace the S2X PWB (PL 18.3).

016-224 SX2 PCI Reg Error RAP

S2X PCI Reg Error. S2X had a problem accessing its internal PCI space (WC 7228/35/45 0nly).

Procedure

1. Switch machine power Off then On.
2. If problem is still present, replace the S2X PWB (PL 18.3).

016-225 SX2 ROM CheckSum Error RAP

S2X ROM CheckSum Error. S2X failed its ROM checksum test (WC 7228/35/45 0nly).

Procedure

1. Switch machine power Off then On.
2. If problem is still present, replace the S2X PWB (PL 18.3).

016-226 SX2 IIT Connection Error RAP

S2X IIT Connection Error. S2X could not detect the video clock that it receives from IIT (WC 7228/35/45 0nly).

Procedure

1. Switch machine power Off then On.
2. If problem is still present, check the S2X to IIT/IPS Ribbon Cable for proper connection.
3. Check Cable for continuity. If not good replace cable (PL 18.3).
4. If problem is still present, replace the S2X PWB (PL 18.3).

016-227 SX2 DDR Error RAP

S2X DDR Error. S2X failed its internal DDR memory write/read test (WC 7228/35/45 0nly).

Procedure

1. Switch machine power Off then On.
2. If problem is still present, replace the S2X PWB (PL 18.3).

016-228 SX2 Image Processing Error RAP

S2X Image Processing Error. (WC 7228/35/45 0nly)

Procedure

1. Switch machine power Off then On.
2. If problem is still present, replace the S2X PWB (PL 18.3).

016-229 SW Option Failure RAP

SW Option Fail (FCW-UI Not Exist) The extension MEM PWB is not installed.

NOTE: *Even thought this RAP refers to the UIs that are not installed on the machine the actual UI is the MCW UI this fault can be generated if the ESS does not detect the UI is installed. Therefore check the connections from the UI to the ESS PWB.*

Procedure

Disconnect and reconnect the UI Cable at the ESS PWB.

016-230 SW Option Failed - PS Image Log Kit (License required)

This fault is generated when the PS ROM is installed on the ESS and the SW Key has not been installed.

Procedure

- Switch the Machine Power Off then On.
- If the problem is still present, In UI Diagnostics (Accessing UI Diagnostics) ensure that the SW Key for the PS Image Log Kit is entered and enabled. Contact the System Administrator to get the SW Key if required.

016-231 SW Option Failed - Thumbnail Preview PWB failed or not installed

This fault is generated when the Thumbnail Preview PWB is not detected due to failed PWB or the Image Compression Kit has not been installed while the “Thumbnail Preview” Software Key has been enabled.

Initial Actions

- Switch the machine power Off and On.
- This fault could be declared if the Thumbnail Preview option had been installed and then the Thumbnail Preview PWB was removed. The Option may still be enabled.

Procedure

- If the problem is still present, make sure the Thumbnail Preview PWB is installed, PL 13.3.
- Uninstall and reinstall the Thumbnail Preview PWB and retry the job.
- If the problem is still present replace the Thumbnail Preview PWB PL 13.3.

Procedure if option was removed and fault cannot be cleared

Before running the “clear all command” ensure that the customer has all the options and associated PIN codes available to reenter. If the customer does not have all the PIN codes available **DO NOT** perform the “ClearAllFlags” command.

1. Once all the SW Options are located, perform the “ClearAllFlags” command using the following procedure:
   a. Enter Admin Tools.
   b. Select System Settings.
   c. Select Common Settings.
   d. Select Maintenance
   e. Select Software Options
   f. Enter “ClearAllFlags” (without the quotes) Note that this command is case sensitive.
2. Use the appropriate PIN code to restore the machine to factory default settings.
   - To restore Annotation, Electronic pre-collation, Dial Directory Expansion, and Copy Management Expansion use **2FCpS9XBOuyz**.
   - If the machine currently has E-Mail installed, use **mA0R1vIkhC4A**.

016-240 S2X Checksum Failure

This fault is generated when there is a checksum failure of the S2X NVM which is located on the S2X PWB. The NVM is stored on the PWB itself. (WC 7228/35/45 0nly)

Initial Actions

Switch the machine power Off then On.

Procedure

If the problem is still present replace the S2X PWB PL 18.3.

016-310 ssmm Job Log Full RAP

Job log file is not obtained from external application (AWAYS) and the files over specified limit (280 files) are stored.

Initial Actions

Power Off/On after receiving job log file (GetJobLog) from external application (AWAYS) via SSM.

Procedure

Obtain job log file (GetJobLog) from external application (AWAYS) via SSMI. After that, Power OFF/ON.

If problem persists call support center.

016-311 Scanner Install RAP

BSD-ON:16.1

The system detected that the scanner is not installed.

Procedure

Check the F1 Fuse (4A) (PL 13.1) for continuity. If not good replace the F1 Fuse (4A) (PL 13.1).

If the problem persists, check the electrical connections between the IIT and the ESS.

Ensure IF Cable PL 18.1 from the IIT is securely connected to ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).

If the problem persists, check the connections on the IIT/IPS PWB (PL 18.3).

016-312 SW Option Fail (HybridWaterMark Not Exist) RAP

HighbridWaterMark detection hardware unloaded is detected with SW option function being set to Valid. Detected prior to 016-313 detection.

Procedure

Check the following:

1. In UI Diagnostics, (Accessing UI Diagnostics) ensure that the password for the Secure Watermark Kit, Software Option is installed.
2. Ensure that the Hybrid WaterMark PWB is installed and connected correctly. Plugs into IIT/IPS PWB under the IPS cover (PL 18.1).
3. Ensure that the Hard Disk Drive (HDD) PL 13.2 is installed and operational.
4. Confirm System Memory PL 13.2 is sufficient for this option (768MB).

NOTE: *If the Hybrid (Secure) WaterMark was installed and is no longer installed (PWB not plugged into the top of the IIT/IPS PWB) but the SW Key had been installed the only way to clear fault is to enter NVM Read Write and reset NVM 785-021 to "0". This will clear the fault.*

016-313 Hybrid Water Mark Setting Mismatch RAP

BSD-ON:

This is a configuration error type of fault related to the Secure Watermark Kit.

Procedure

Check the following:

1. In UI Diagnostics, (Accessing UI Diagnostics) ensure that the password for the Secure Watermark Kit, Software Option is installed.
2. Ensure that the Hard Disk Drive (HDD) PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45 is installed and operational.
3. Confirm System Memory PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45 is sufficient for this option (768MB).

016-315 IIT Interface RAP

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

Procedure

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

Replace the IIT/IPS PWB (PL 18.3). If the problem persists, replace the MCU PWB (PL 13.1).

016-316 Page Memory Not Detected RAP

BSD-ON:16.1 Figure 1

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

Initial Actions

Power Off/On

Procedure

Ensure P/J's on the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45) and the IIT/IPS PWB (PL 18.3) are securely connected.

Check the installation of the Printer PWB if present.

016-317 Page Memory Error- Standard RAP

BSD-ON:16.1 Figure 1

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

Initial Actions

Power Off/On

Procedure

Ensure P/J's on the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45) and the IIT/IPS PWB (PL 18.3) are securely connected.

Check the installation of the Printer PWB if present.

016-318 Page Memory Error- Option RAP

BSD-ON:16.1 Figure 1

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

Initial Actions

Power Off/On

Procedure

Check the installation of the Printer PWB if present.

Refer customer to following User Guide headings to check memory usage:

- Allocate Memory
- Memory Settings
- Properties
- Properties Features
- Maximum Stored Pages
- Mailbox Screen
- Data Encryption
- Memory Full Procedure
- Covers

016-320 Doc Conversion SW Error RAP

A fatal error with doc conversion software was detected.

Procedure

If powering OFF then ON does not resolve the problem, perform the following:

1. Check ESS PWB and IIT/IPS PWB connections
2. Reinstall the software.
3. If the above actions do not resolve the problem, replace ESS PWB. (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).

016-321 Fax Module RAP

BSD-ON:16.1 Figure 1 / 34.1 Figure 1

An error was detected at System Check Fax.

Initial Actions

Power Off/On

Procedure

Check the installation of the FAX PWB.

Check that P/Js on FAX PWB are securely connected.

016-322 JBA Account Full RAP

BSD-ON:16.1 Figure 1

The accumulated accounting data in Job Based Accounting reached the specified value.

Procedure

Switch the power off then on 2 minutes after the job is attempted (after an external Accounting Server has read the accounting data).

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016-323 B Formatting RAP

BSD-ON:16.1 Figure 1

An internal formatting error occurred.

Initial Actions

Power Off/On

Procedure

If the problem persists, replace the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).

016-330 ESS SystemMemory Fail-1 RAP

Capacity of Slot1 loaded memory is out of spec.

Initial Actions

Power Off/On

Procedure

Remove/insert ESS System Memory #1. If the problem continues, replace ESS System Memory #1 (PL 13.2WC 7228/35/45 or PL 13.4 WC 7328/35/45). If the problem persists, replace ESS PWB (PL 13.2 7228/35/45 or PL 13.4 WC 7328/35/45)).

016-331 ESS SystemMemory Fail-2 RAP

BSD-ON:16.1 Figure 1

Capacity of Slot2 loaded memory is out of spec.

Initial Actions

Power Off/On

Procedure

Remove/insert ESS System Memory #2. If the problem continues, replace ESS System Memory #2 (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45. If the problem persists, replace ESS PWB PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).

016-332 ESS SystemMemory Fail-3 RAP

BSD-ON:16.1 Figure 1

Capacity of Slot1 and Slot2 loaded memory is out of spec.

Initial Actions

Power Off/On

Procedure

Remove/insert ESS System Memory #1 and #2. If the problem continues, replace ESS System Memory #1 and #2 (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45). If the problem persists, replace ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).

016-335 ESS ProgramROM Fail-1 RAP

BSD-ON: 16.1 Figure 1

Program ROM2 CheckSum is not correct.

Initial Actions

Power Off/On

Procedure

Replace ESS ROM #2 (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45). If the problem continues, replace ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).

016-336 ESS ProgramROM Fail-2 RAP

BSD-ON: 16.1 Figure 1

Program ROM1 Write Command failure.

Initial Actions

Power Off/On

Procedure

Perform the following:

- Remove/insert ESS ROM #1.
- Replace ESS ROM #1 (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).
- Remove/insert Print Kit.
- Replace Printer Kit (PL 13.3).
- Replace ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).

016-337 ESS ProgramROM Fail-3 RAP

BSD-ON: 16.1 Figure 1

Program ROM2 Write Command failure.

Initial Actions

Power Off/On

Procedure

Remove/insert ESS ROM #2. If the problem continues, replace ESS ROM #2 (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45). If the problem persists, replace ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).

016-338 ESS FontROM Fail-1 RAP

BSD-ON: 16.1 Figure 1

OnBoard loaded Font ROM ID is out of spec.

Initial Actions

Power Off/On

Procedure

Replace Print Kit. If the problem continues, replace ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).

016-339 ESS FontROM Fail-2 RAP

BSD-ON: 16.1 Figure 1

Slot1 loaded Font ROM ID is out of spec.

Initial Actions

Power Off/On

Procedure

Perform the following:

- Remove/insert ESS FontROM DIMM #1.
- Replace ESS FontROM DIMM #1 (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).
- Remove/insert Print Kit.
- Replace Printer Kit (PL 13.3).
- Replace ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).

016-340 ESS FontROM Fail-3 RAP

BSD-ON: 16.1 Figure 1

Slot2 loaded Font ROM ID is out of spec.

Initial Actions

Power Off/On

Procedure

Remove/insert ESS FontROM DIMM #2. If the problem continues, replace ESS FontROM DIMM #2 (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45). If the problem persists, replace ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).

016-341 ESS FontROM Fail-4 RAP

Slot2 loaded Font ROM CheckSum is out of spec.

Initial Actions

Power Off/On

Procedure

Remove/insert ESS FontROM DIMM #2. If the problem continues, replace ESS FontROM DIMM #2 (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45). If the problem persists, replace ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).

016-342 ESS RTC Failure RAP

RTC time range is out of the specified range. (Ex. 13 month 36 day) Time does not go on.

Initial Actions

Power Off/On

Procedure

If the problem persists, replace ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).

016-345 ESS NV-Memory Failure RAP

Initial address data is 0x00.

Initial Actions

Power Off/On

Procedure

Replace the NVM PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45) If the problem continues, replace ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).

016-347 ESS PageMemory Failure RAP

Slot2 loaded memory capacity is out of spec.

Initial Actions

Power Off/On

Procedure

Remove/insert Page Memory. If the problem continues, replace Page Memory (Option) (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45). If the problem persists, replace ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).

016-348 ESS PageMemory Failure-2 RAP

W/R/V test error for Page Memory.

Initial Actions

Power Off/On

Procedure

Check the Page Memory connection. If the problem continues, replace Page Memory (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45). If the problem persists, replace ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).

016-350 ESS SEEP ROM DIAG. Failure 1

Product ID cannot be obtained.

Initial Actions

Power Off/On.

Procedure

1. Check Connections between the following components:
   - SEEP ROM and BP PWB (check for bent pins etc.) PL 13.1.
   - Controller and BP PWB. PL 13.1
2. If problem persists replace BP PWB PL 13.1
3. If problem persists replace ESS PWB. PL 13.2 (WC 7228/35/45) or PL 13.4 (WC 7328/35/45)

016-351 ESS SEEP ROM DIAG Failure 2

Read/Write/Verify error for the Controller SEEP ROM.

Initial Actions

Power Off/On.

Procedure

1. Check Connections between the following components:
   - SEEP ROM and BP PWB (check for bent pins etc.) PL 13.1.
   - Controller and BP PWB. PL 13.1
2. If problem persists replace BP PWB PL 13.1
3. If problem persists replace ESS PWB. PL 13.2 (WC 7228/35/45) or PL 13.4 (WC 7328/35/45)

016-370 ESS Failure RAP

Error is detected in rendering engine diagnosis.

Initial Actions

Power Off/On

Procedure

Replace ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45)

016-371 ESS USB1.1 Host Failure RAP

Error is detected in USB1.1Host diagnosis (Communication with FaxCard cannot be established).

Initial Actions

Power Off/On

Procedure

Perform the following in order:

- Check the FAX Card connection
- Remove/insert FAX Cable
- Replace the FAX Card (PL 9.4)
- Replace ESS PWB (PL 13.2WC 7228/35/45 or PL 13.4 WC 7328/35/45)

016-450 SMB Host Name Duplicated RAP

BSD-ON:16.1 **Figure 1**

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

Initial Actions

Power Off/On

Procedure

Refer customer to Systems Administrator Guide headings:

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

016-453 Dynamic DNS - IPv6 Address Dynamic Update Error

Updating the IPv6 address / host name in DNS server failed

Procedure

Confirm that DNS server address is correctly set in the machine.

Confirm with the customer's system administrator whether the DNS server setting allows Dynamic DNS operation using IPv6 address.

016-454 DNS Dynamic Update RAP

DNS Dynamic Update failed.

Initial Actions

Power Off/On

Procedure

1. Ensure machine is correctly connected to the customer network.
2. Check with Customer System Administrator to determine if the DNS Server is setup for Dynamic operation.
3. Check that the DNS Server Address is set correctly to the machine.

016-455 SMTP Server Time-out RAP

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

Initial Actions

Power Off/On

Procedure

If the time on the machine is incorrect, User Guide heading Changing the Default Time Settings procedure resets the time. Or follow procedure below.

1. Press the **Log In/Out** button on the control panel.
2. Enter the Key Operator ID using the numeric keypad on the control panel. Select Confirm on the System Administrator Login screen.

   NOTE: *The default Key Operator ID is "11111". If the Authentication feature is enabled, you may be required to enter a password. The default password is "x-admin".*

3. Select System Settings on the System Administrator Menu screen.
4. Select System Settings on the System Settings screen.
5. Select Common Settings on the System Settings screen.
6. Select Machine Clock/Timers on the Common Settings screen.
7. Select the required option.
8. Select Change Settings.
9. Change the value using the scroll buttons or select required options.
10. Select Save.
11. Return to main menu.

016-456 SMTP time asynchronous RAP

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

Initial Actions

Power Off/On

Procedure

If the time on the machine is incorrect, User Guide heading Changing the Default Time Settings procedure resets the time. Or follow procedure below.

1. Press the **Log In/Out** button on the control panel.
2. Enter the Key Operator ID using the numeric keypad on the control panel. Select **Confirm** (WC 72XX) or select **Enter** (WC 73XX) 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.

016-461 Under Non-Transmitted Image Log Stagnation RAP

Limitation of creation of new job due to Image Log transfer suspension is in process.

Procedure

Check Image Log management server condition and network condition and identify/fix the factors that interfere with Image Log transfer to Image Log server.

Check transfer setting and transfer the log to be transferred.

Or change the transfer guarantee level to “Low”. If it is set to “Low”, Image Log may not transferred the Log, but delete the log in order.

016-500 Downloader Fail RAP

Error detected while in data write to Cont-ROM. (DLD system)

Procedure

If retry fails, replace Controller-ROM and upgrade version again with DLD system.

016-501 Downloader Fail RAP

Error detected while in data write to S2X-ROM (DLD system)

Procedure

If retry fails, replace S2X-PWB (PL 18.3) and upgrade version again with DLD system.

016-502 ROM Write RAP

BSD-ON: 16.1 Figure 1

There is a ROM writing failure in the Controller.

Initial Actions

Power Off/On

Procedure

Remove and replace the DIMM (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

If the problem persists, disconnect and reconnect the electrical connections on the HDD (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

If the problem persists, reload Software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45)).

016-503 SMTP Redirector RAP

The Redirector cannot resolve the SMTP (Simple Mail Transfer Protocol) Server address.

Initial Actions

Power Off/On

Procedure

- Have System Administrator check DNS setup for machine
- Ensure SMTP Server Name or IP Address is correct

016-504 Redirector POP Server RAP

The Redirector cannot resolve the POP (Post Office Protocol) Server address.

Initial Actions

Power Off/On

Procedure

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

Refer customer to System Administrator Guide headings

- E-mail
- E-mail Environments
- E-mail Setting Setup
- POP3 Server Settings
- Test Mail

016-505 Redirector POP Authentication RAP

The Redirector cannot pass POP (Post Office Protocol) authentication.

Initial Actions

Power Off/On

Procedure

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

Refer customer to System Administrator Guide headings

- E-mail
- E-mail Environments
- E-mail Setting Setup
- POP3 Server Settings
- Test Mail

016-506 Image Log RAP

The Image Log in the HDD is full.

Initial Actions

Power Off/On

Procedure

Switch off the power and disconnect and reconnect the electrical connectors in the ESS and HD. Switch on the power.

If the problem persists perform Initialize Hard Disk.

If the problem persists, replace the HDD (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45)).

016-507 Image Log Send RAP

The Image Log send command 1 in the HDD failed.

Initial Actions

Power Off/On

Procedure

Switch off the power and disconnect and reconnect the electrical connectors in the ESS and HD. Switch on the power.

If the problem persists perform Initialize Hard Disk.

If the problem persists, replace the HDD (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

016-508 Image Log RAP

The Image Log send command 2 in the HDD failed.

Initial Actions

Power Off/On

Procedure

Switch off the power and disconnect and reconnect the electrical connectors in the ESS and HD. Switch on the power.

If the problem persists perform Initialize Hard Disk.

If the problem persists, replace the HDD (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

016-509 Image Log RAP

The Image Log block send command 1 in the HDD failed.

Initial Actions

Power Off/On

Procedure

Switch off the power and disconnect and reconnect the electrical connectors in the ESS and HD. Switch on the power.

If the problem persists perform Initialize Hard Disk.

If the problem persists perform GP 7 Special Boot Modes HDD Initialization.

If the problem persists, replace the HDD (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

016-510 Image Log RAP

The Image Log block send command 2 in the HDD failed.

Initial Actions

Power Off/On

Procedure

Switch off the power and disconnect and reconnect the electrical connectors in the ESS and HD. Switch on the power.

If the problem persists perform Initialize Hard Disk.

If the problem persists, replace the HDD (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

016-511 Image Log RAP

The Image Log invalid send rule 1 executed in the HD.

Initial Actions

Power Off/On

Procedure

Switch off the power and disconnect and reconnect the electrical connectors in the ESS and HD. Switch on the power.

If the problem persists perform Initialize Hard Disk.

If the problem persists, replace the HDD (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

016-512 Image Log RAP

The Image Log invalid send rule 2 executed in the HD.

Initial Actions

Power Off/On

Procedure

Switch off the power and disconnect and reconnect the electrical connectors in the ESS and HDD. Switch on the power.

If the problem persists perform Initialize Hard Disk.

If the problem persists, replace the HDD (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

016-514 XPS Error RAP

Invalid Schema, parameter error, XPS file breakage and XPS decomposer internal error occurs while in XPS Bridge is processing.

Procedure

Print using printer driver (ART-EX,PCL etc.) from XPS Viewer.

016-515 XPS Short of Memory RAP

Memory shortage is detected in XPS Bridge processing.

Procedure

Change print mode to “Standard” if it is set to”High image quality” or “High speed”.

When the problem continues, extend memory capacity.

When the problem persists even with memory extended to the max. capacity, print using driver (ART-EX, PCL etc.) from XPS Viewer.

016-516 XPS PrintTicket Description Error RAP

Print Ticket included in XPS Document is “Grammar this machine does not support “or “Print request content this machine does not support”.

Procedure

Check if there is any problem in usage of the application for submitting print job and print request content.

When no problem is found, to contact supplier of the relevant application for submitting print job.

When the problem cannot be solved, to obtain printer setting list, job history report and print data with Print Ticket which has been submitted

016-517 PS Booklet Illegal Color Mode Change RAP

PSDecomp detects change of ProcessColorModel or resolution/bi-tone/con-tone parameter while in interpretation of job with Booklet designation.

Procedure

Have customer resubmit the job with corrected parameters.

016-522 LDAP RAP

BSD-ON:16.1

There is a SSL (Secure Socket Layer) error in the LDAP (Lightweight Directory Access Protocol) protocol.

Initial Actions

Power Off/On

Procedure

Switch off the power and disconnect and reconnect the electrical connectors in the ESS. Switch on the power.

016-523 LDAP RAP

BSD-ON:16.1

There is a SSL (Secure Socket Layer) error in the LDAP (Lightweight Directory Access Protocol) protocol.

Initial Actions

Power Off/On

Procedure

Switch off the power and disconnect and reconnect the electrical connectors in the ESS. Switch on the power.

016-524 LDAP RAP

BSD-ON:16.1

There is a SSL (Secure Socket Layer) error in the LDAP (Lightweight Directory Access Protocol) protocol.

Initial Actions

Power Off/On

Procedure

Switch off the power and disconnect and reconnect the electrical connectors in the ESS. Switch on the power.

016-525 LDAP RAP

BSD-ON:16.1

There is a SSL (Secure Socket Layer) error in the LDAP (Lightweight Directory Access Protocol) protocol.

Initial Actions

Power Off/On

Procedure

Switch off the power and disconnect and reconnect the electrical connectors in the ESS. Switch on the power.

016-526 LDAP RAP

BSD-ON:16.1

There is a SSL (Secure Socket Layer) error in the LDAP (Lightweight Directory Access Protocol) protocol.

Initial Actions

Power Off/On

Procedure

Switch off the power and disconnect and reconnect the electrical connectors in the ESS. Switch on the power.

016-527 LDAP RAP

BSD-ON:16.1

There is a SSL (Secure Socket Layer) error in the LDAP (Lightweight Directory Access Protocol) protocol.

Initial Actions

Power Off/On

Procedure

Switch off the power and disconnect and reconnect the electrical connectors in the ESS. Switch on the power.

016-530 Kerberos Authentication Protocol Error 06

This fault was received in error since it is not used by the WC 7227/7235/7245 machine software.

Procedure

Switch the power off then on. If fault persists call Technical Support for assistance.

016-533 Kerberos Authentication Protocol Error 37

The time setting for the machine and the Kerberos Server are set at different times or the Daylight Saving Time settings are different and should be the same.

Procedure

Do the following:

1. Enter CE Mode, refer to Entering and exiting CE mode and access the UI Diagnostics, refer to Accessing UI Diagnostics. Select the Date / Time from the Maintenance/Diagnostics screen.
2. Check and record the Time and Daylight Saving Time settings.
3. Have the System Administrator check the Time and Daylight Saving Time settings for the Kerberos Server.
4. Adjust the Time and/or the Daylight Time setting that does not agree with the Kerberos Server in Date / Time.
5. Exit UI Diagnostics. The machine should reboot with the time change.

016-534 LDAP RAP

There was a Kerberos server authentication protocol error. The realm assigned to the machine does not exist on the Kerberos server or the machine is not connecting to the Kerberos server address.

Initial Actions

Power Off/On

Procedure

Check that the realm name and Kerberos server address settings on the machine are correct. If connected with Windows 2000 or Windows 2003 Server, make sure the realm name is in upper case characters.

016-539 LDAP RAP

There was a Kerberos server authentication protocol error.

Initial Actions

Power Off/On

Procedure

This error was generated by the software.

016-543 Attestation Agent error 543 (REALM_UNKNOWN) RAP

The specified realm/domain has disappeared from the ApeosWare Authentication Agent.(The domain was manually deleted at the ApeosWare Authentication Agent after obtaining the realm name list from the device.)

Procedure

Either update the realm list using the Realm Update button of the device or add the domain into the ApeosWare Authentication Agent.

016-545 Attestation Agent error 545 (CLOCKSKEW_ERR) RAP

A Clock skew error has occurred in attestation.

The time of ApeosWare Authentication Agent and ActiveDirectory is out of sync with the upper limit of the Kerberos ClockSkew set in the ActiveDirectory.

Procedure

Match the time of the PC where the ApeosWare Authentication agent is installed in with the time of the PC where the ActiveDirectory is.

Furthermore, if the Windows Time Service in the PC where the ApeosWare Authentication Agent is installed is stopped, start it up.

Refer to the ApeosWare Authentication agent User Guide for solutions.

016-546 Attestation Agent error 546 RAP

A general user tried to obtain the information of another user.

Procedure

Contact our Customer Support Center.

016-548 Attestation Agent error 548 (UNREGISTERED_DEVICE) RAP

The information of the machine that is performing the authentication operation is not in the database (GetUserInformation method only).

The device is not registered in the ApeosWare Authentication Agent.

Procedure

Register the device in the ApeosWare Authentication Agent. Refer to the **ApeosWare Authentication Agent User Guide** for solutions. Match the time of the PC where the ApeosWare Authentication agent is installed in with the time of the PC where the **ActiveDirectory** is.

016-553 Attestation Agent error 553 (VERSION_MISMATCH) RAP

The version information written in the SOAP Header cannot be understood. The ApeosWare Authentication Agent does not support the version of the device interface.

Procedure

The version of the ApeosWare Authentication Agent needs to be upgraded.

Check that the machine is a product that is supported by the upgraded version of the ApeosWare Authentication Agent.

016-554 Attestation Agent error 554 (CONFIGRATION_ERROR) RAP

The existence check for the specified user in the event of an authentication error has failed.

The domain user reference login name or the reference password of the ApeosWare Authentication Agent domain is incorrect.

Procedure

Set the domain user reference login name or the reference password of the ApeosWare Authentication Agent domain to the correct items.

016-555 Attestation Agent error 555 (SERVICE_ISNOT_WORKING) RAP

Timed out when connecting to the authentication server.

The ApeosWare Authentication Agent cannot connect to the database or the Active Directory.

Procedure

Check that the ApeosWare Authentication Agent can connect to the database or the Active Directory.

Refer to the ApeosWare Authentication Agent User Guide for solutions.

016-556 Attestation Agent error 556 (SERVICE_IS_PROCESSING) RAP

Timeout during database processing.

Error has occurred in the database that the ApeosWare Authentication Agent is connected to due to overloading.

Procedure

Wait for a while before authenticating again as the service is overloaded.

If that did not solve the problem, check the ApeosWare Authentication Agent.

Refer to the ApeosWare Authentication Agent User Guide for solutions.

016-557 Attestation Agent error 557 (INTERNAL_ERROR) RAP

Another error has occurred in attestation.

An internal error has occurred in the ApeosWare Authentication Agent.

Procedure

Check the ApeosWare Authentication Agent.

Refer to the ApeosWare Authentication Agent User Guide for solutions.

016-558 Attestation Agent error 558 (MISC_ERR) RAP

The machine has received an unknown error from the ApeosWare Authentication Agent.

Procedure

Turn the power OFF then ON.

016-560 Attestation Agent error 560 RAP

A communication error has occurred between the ApeosWare Authentication Agent and the machine

Procedure

Check that the network cable is connected and check the settings of the Authentication Agent function.

If DNS address of the Server is set as the Server name/IP address of the ApeosWare Authentication Agent in the printer function settings list, check that DNS is enabled

016-562 Attestation Agent error 562 RAP

Attestation Agent Error

*ICCG External Attestation agent detected a duplicated ID

Procedure

Correct a temporary user entered into ActiveDirectory or Attestation Agent so that it does not have the same IC card info as any other user.

016-569 Attestation Agent error 569 RAP

Errors related to the functions of the Authentication Agent other than listed previously Attestation Agent Error

Procedure

Turn the power OFF then ON

016-574 Host Name Error RAP

A failure in resolving a problem with a host name in FTP scan

Procedure

Check the connection to DNS.

Or check that the destination server name is entered on DNS.

016-575 DNS Server Error in FTP RAP

In FTP scan, the server was not found on DNS.

Procedure

Set DNS address.

Or set the destination server address, using IP address.

016-576 Server Connection Error in FTP RAP

In FTP scan, there is a problem with the connection to the server.

Procedure

Check that the destination FTP server and this machine are set up so that they can communicate with each other on the network. For example, check the following:

- The IP address of the server is correct
- The network cable is connected

016-577 FTP Service RAP

FTP Service has a problem.

Procedure

Check the following:

- FTP Service is activated
- Port No. used for FTP Service is correct

016-578 Login/Password Error RAP

A login name or password error in FTP scan.

Procedure

Check the login name (user name) and password are correct.

016-579 Scanning Picture Error RAP

There is a problem with the place to save images scanned in FTP scan.

Procedure

Check that the scanned-images saving place on the FTP scan server is correct.

016-580 File Name Acquisition Failure RAP

A failure in acquiring a file name/folder on the FTP scan server.

Procedure

Check the right to access the FTP scan server.

016-581 File Name Suffix Limit Error RAP

The suffix of a FTP scan file name/folder name exceeds the limit.

Procedure

Change the file name/destination folder, or move or delete the file in the destination folder.

016-582 File Creation Failure RAP

A failure in creating a FTP scan file.

Procedure

Check the following:

- That the specified name is a file name that can be created in the storage place.
- That the storage place has some space available.

016-583 Lock Folder Creation Failure RAP

A failure in creating a FTP scan lock folder

Procedure

Check the following:

- If the existing lock directory (*.LCK) is left on the destination, manually delete it and retry the job.
- That the specified name is a folder name that can be created in the storage place.
- That there is no folder with the same name as the specified one.
- That the storage place has some space available.

016-584 Folder Creation Failure RAP

A failure in creating a FTP scan folder

Procedure

Check the following:

- That the specified name is a folder name that can be created in the storage place.
- That there is no folder with the same name as the specified one.
- That the storage place has some space available.

016-585 File Delete Failure RAP

A failure in deleting a FTP scan file.Check the right to access the server.

Procedure

Check the right to access the server.

016-586 Lock Folder Delete Failure RAP

A failure in deleting a FTP scan lock folder

Procedure

Check the following:

- The right to access the server.
- If the existing lock directory (*.LCK) is left on the destination, manually delete it and retry the job.

016-587 Folder Delete Failure RAP

A failure in deleting a FTP scan folder

Procedure

Check the right to access the server.

016-588 Data Write-in Failure RAP

A failure in writing data onto the FTP scan server

Procedure

Check that the storage place has some space available.

016-589 Data Read Failure RAP

A failure in reading data from the FTP scan server

Procedure

Check that the user has the **[right to read data from]** folder on the server.

016-590 Data Reading Failure RAP

[Overwrite prohibited] is selected as action to be taken when a duplicated FTP scan file name is detected.

Procedure

Select any option other than **[Overwrite prohibited]**.

016-591 Scan Filing Policy Injustice RAP

FTP scan filing policy is illegal (when Add selected).

Procedure

If **[Add]** is selected as action to be taken when a duplicated file name is detected, check that the file format is not a multi-page one.

016-592 NEXTNAME.DAT file access error RAP

NEXTNAME.DAT file access error in FTP scan

Procedure

If **[Add]** is selected as action to be taken when a duplicated file name is detected, check that NEXTNAME.DAT file is correct.

016-593 Internal Scan Error RAP

An internal error occurred in FTP scan.

Procedure

If the same operation causes this to reoccur, contact our Custom Support Center.

016-594 TYPE Command Failure RAP

In FTP scan, a TYPE command failed. (network error)

Procedure

If the same operation causes this to reoccur, contact our Custom Support Center.

016-595 Port Command Failure RAP

In FTP scan, a Port command failed. (network error)

Procedure

If the same operation causes this to reoccur, contact our Custom Support Center.

016-596 CDUP Command Failure RAP

In FTP scan, a CDUP command failed. (network error)

Procedure

If the same operation causes this to reoccur, contact our Custom Support Center.

016-597 Same Name File Exists RAP

FTP scanning stopped because another file (folder) with the same name existed. (CreditMutuel specification)

Procedure

Check the following:

- With multiple machines not accessing the same folder on the same server, repeat the same operation.
- If this still reoccurs, contact our Custom Support Center.

016-600 Key Operator Authentication Locked RAP

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

Procedure

NOTE: *Default is 5 events. dC131 Initialize NVM [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 2 to reset password to 11111 default if the System Administrator ID is unavailable.

016-601 Illegal Access Detection RAP

The number of incorrect authentication login attempts reached the limit.

Procedure

NOTE: *Default is 10 users. NVM location [700-564] can be set 1 to 600 users.*

If required, refer to GP 2 to reset password to 11111 default if the System Administrator ID is unavailable.

016-700 Password is Under Minimum RAP

Job with password of which number of digit is below the minimum value for a password is received.

Make the minimum number of password digit for Security Print and Authentication Print settable. Do not store job with password of which number of digit is below the minimum value.

Procedure

Increase the number of digit of the password of desired print job to a value larger than the minimum.

016-701 ART EX Memory Expended RAP

BSD-ON:16.1

Insufficient memory was detected while using the ART EX.

Initial Actions

Power Off/On

Procedure

Decrease the resolution setting.

016-702 Out of Page Buffer RAP

BSD-ON:16.1

Insufficient Print Page Buffer is detected.

Initial Actions

Power Off/On

Procedure

Requires Print Page buffer memory expansion, a decrease of resolution, or set to Print Guarantee mode (Print Guarantee mode is only for PLW). For PCL, set the PCL Heap Memory/ Band Buffer Ratio to above 1:2.

Refer customer to System Administrator Guide headings

- When printing fails
- Setting Format of config.txt

016-703 E-mail To Invalid Box RAP

BSD-ON:16.1 Figure 1

The system detected an unopened or invalid mailbox and aborted a job when receiving an E-mail.

Initial Actions

Power Off/On

Procedure

Send the E-mail to a valid mailbox destination or set up the appropriate mailbox.

Refer customer to Mailbox section in User Guide.

016-704 Mailbox Full RAP

BSD-ON:16.1 Figure 1

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

Initial Actions

Power Off/On

Procedure

Delete unnecessary documents and then repeat the operation.

Refer customer to Mailbox section in User Guide.

016-705 Secure Print RAP

BSD-ON:16.1 Figure 1

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

Initial Actions

Power Off/On

Procedure

Check HDD electrical connections (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

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

Refer customer to User Guide headings:

- Print
- Secure Print
- Print Driver Features

016-706 Maximum Users Exceeded RAP

BSD-ON:16.1 Figure 1

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

Initial Actions

Power Off/On

Procedure

Delete unnecessary documents/users and print again.

Refer customer to User Guide headings Maximum Stored Pages,

Create/Check User Accounts

016-707 Sample Print RAP

BSD-ON:16.1 Figure 1

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

Initial Actions

Power Off/On

Procedure

Check HDD electrical connections (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

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

016-708 HDD Full Annotation/Watermark RAP

BSD-ON:16.1 Figure 1

When an Annotation/Watermark image was to be stored in the HDD, the Full status was detected and the job was aborted.

Initial Actions

Power Off/On

Procedure

Check HDD electrical connections (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

If the problem persists perform Initialize Hard Disk.

If the problem persists, replace the HDD (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

016-709 ART EX Command RAP

BSD-ON:16.1 Figure 1

An ART EX command error occurred during PLW processing.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

016-710 Delayed Print RAP

BSD-ON:16.1 Figure 1

- A Delay Print Job was received from the machine that has no HDD installed.
- The number of jobs that can be simultaneously received (100 jobs) was exceeded.

Initial Actions

Power Off/On

Procedure

Check the HDD electrical connections (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

If the problem persists perform Initialize Hard Disk.

If the problem persists, replace the HDD (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

016-711 E-mail Transmission Size Limit RAP

BSD-ON:16.1 Figure 1

The send module (redirector) attempted to send data exceeding the system data size limit for Scan to E-mail.

Initial Actions

Power Off/On

Procedure

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

Reduce the image using the send parameter and resend (e.g. 11 x 17 to 8.5 x 11 or A3 to A4).

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

016-712 Panther Capacity (I-Formatted) RAP

BSD-ON:16.1 Figure 1

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

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

016-713 Security Box Password RAP

BSD-ON:16.1 Figure 1

There is a password error in the security box.

Initial Actions

Power Off/On

Procedure

A procedure is not available at time of publication.

016-714 Security Box Enable RAP

BSD-ON:16.1 Figure 1

The security box is not enabled.

Initial Actions

Power Off/On

Procedure

A procedure is not available at time of publication.

016-716 TIFF Data Overflow RAP

BSD-ON:16.1 Figure 1

There is a spooling problem with TIFF (Tagged Image File Format) data.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

If the problem persists perform Initialize Hard Disk.

If the problem persists remove and replace the DIMM (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

If the problem persists, disconnect and reconnect HDD electrical connections (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

016-717 Fax/iFax Send RAP

BSD-ON:16.1 Figure 1

The Send Result is not detected.

Initial Actions

Power Off/On

Procedure

Cancel and rerun the job

016-718 PCL6 Memory RAP

BSD-ON:16.1 Figure 1

Insufficient memory was detected while performing Printer COntrol Language functions.

Initial Actions

Power Off/On

Procedure

Cancel the job, reduce resolution, and rerun the job.

016-719 Out of PCL Memory RAP

BSD-ON:16.1 Figure 1

Insufficient memory is detected while using PCL.

Initial Actions

Power Off/On

Procedure

The print job exceeded the memory capacity of the print control language driver. Ask customer to break up the print job into smaller parts.

016-720 PCL Command RAP

BSD-ON:16.1 Figure 1

A PCL command error occurred during PCL processing.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

016-721 Other Errors RAP

BSD-ON:16.1 Figure 1

The Auto Tray Switching feature was enabled when Auto Paper Off is selected for all paper trays on the Paper Type Priority screen.

Procedure

Inform customer that when Auto Tray Switching feature is enabled, select a paper type other than Auto Paper Off option on the Paper Type Priority screen.

016-722 Staple Position RAP

BSD-ON:16.1 **Figure 1**

The job was cancelled when the Staple Position could not be determined.

Initial Actions

Ensure the staple position selection matches the available staple position in the finisher.

Procedure

Refer customer to following User Guide headings:

- Image Rotation-Rotation Direction Screen

016-723 Punch Position Error RAP

Job Cancel by Punch Position NG. A job was cancelled because the punch position was impossible.

Procedure

- Check the Punch settings for the print data to be sent to the printer.
- Check the client driver settings or PC settings.

016-724 Staple Position RAP

BSD-ON:16.1 Figure 1

The staple selection and hole punch selection is not compatible.

Initial Actions

Ensure the staple position selection and hole punch position selection is compatible (no holes will be punched on staples or staples located in holes)

Procedure

Refer customer to following User Guide headings:

- Image Rotation-Rotation Direction Screen

016-725 B-Formatter Image RAP

BSD-ON:16.1 Figure 1

There is a B-Formatter Library image conversion error.

Initial Actions

Power Off/On

Procedure

If the problem persists, replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

016-726 PDL Auto Switch RAP

The Page Description Language failed to change.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

016-727 Printer Request

The result of a print request is a zero-page document that cannot be stored in a mailbox, and the job is canceled.

Initial Actions

Power Off/On

Procedure

Set the print option to print blank pages, and reprint to confirm if the output is not blank. Add text if the output is blank, and try printing again.

016-728 TIFF Data Unsupported RAP

BSD-ON:16.1 Figure 1

The TIFF (Tagged Image File Format) data contains a tag that is not set in the Image File Expansion Library.

Initial Actions

Power Off/On

Procedure

Refer customer to following User Guide headings:

- TIFF-S, TIFF-S, and TIFF-J in Internet iFax Profile
- Job Templates - Network Scanning
- File Format
- Properties

016-729 TIFF Data Size RAP

BSD-ON:16.1 Figure 1

The specified TIFF (Tagged Image File Format) settings exceed the upper limit of the valid number of colors and pixels.

Initial Actions

Power Off/On

Procedure

Refer customer to following User Guide headings:

- TIFF-S, TIFF-S, and TIFF-J in Internet Fax Profile
- Job Templates - Network Scanning
- File Format
- Properties

016-730 ART Command Unsupported RAP

BSD-ON:16.1 Figure 1

A command not supported by the ART was detected.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

016-731 TIFF Data Invalid RAP

BSD-ON:16.1 Figure 1

The TIFF (Tagged Image File Format) data is corrupt.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

If the problem persists, refer customer to following User Guide headings:

- TIFF-S, TIFF-S, and TIFF-J in Internet iFax Profile
- Job Templates - Network Scanning
- File Format
- Properties

016-732 Form Not Registered RAP

BSD-ON:16.1 Figure 1

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

Initial Actions

Power Off/On

Procedure

Rerun the job.

016-733 Destination Address RAP

BSD-ON:16.1 Figure 1

There is an error in the destination address.

Initial Actions

Power Off/On

Procedure

Verify the address is correct.

016-734 Transmission Report RAP

BSD-ON:16.1 Figure 1

There is a simple transmission report error.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

016-735 Updating Job Template RAP

BSD-ON:16.1 Figure 1

The system attempted to output the Job Template List while the Job Template was being updated.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

016-736 Remote Directory Lock RAP

BSD-ON:16.1 Figure 1

There is a lock error in the remote directory.

Initial Actions

Power Off/On

Procedure

A procedure is not available at time of publication.

016-737 Remote Directory Removal RAP

BSD-ON:16.1 Figure 1

There is a lock removal error in the remote directory.

Initial Actions

Power Off/On

Procedure

A procedure is not available at time of publication.

016-738 PS Booklet Output Size Illegal RAP

PS Booklet Print Output Paper Size is illegal.

Procedure

Specify the paper size that allows booklet printing.

016-739 Mismatch Between PS Booklet and Output RAP

Mismatch between PS Booklet Doc and Output Paper

Procedure

Specify the combination of the document/paper sizes that allows booklet printing.

016-740 PS Booklet Output Tray Incorrect RAP

PS Booklet Output Tray is incorrect.

Procedure

Specify the tray that allows booklet printing.

016-741 Cannot Shift to Download Mode Failure RAP

Download Inhibit detected but Download Mode transfer is disabled because some job still remains.

Procedure

Ensure that NVM 700-420 is set to 0 and retry.

016-742 Download Data ProductID Error RAP

Download data ProductID mismatch.

Procedure

Download data is illegal. Obtain the download data again and retry.

016-743 Download Data Model Mismatch RAP

Machine model/Panel type error.

Target download data model does not conform to machine model.

Procedure

Obtain download file of the same model as that of the machine for software upgrade and retry the operation.

016-744 Download Data CheckSum Error RAP

Download data CheckSum is not correct.

Procedure

Properly connect the cable to the device and restart the operation.

016-745 XPJL Soft Failure RAP

XPJL fatal error in downloading. (Error occurs after XPJL recognizes received data to be download data).

Procedure

Power OFF/ON.

016-746 Unsupported PDF File RAP

BSD-ON:16.1 **Figure 1**

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

Procedure

Ask customer to print using the driver from Acrobat Reader.

016-747 Insufficient Memory

An error occurred while processing the annotation image data due to insufficient memory.

Procedure

Take one of the following actions:

- Increase the annotation image memory size
- Reduce the number of the images in [Repeat Image]
- If the problem persists, Power Off/On the machine

016-748 HDD Full RAP

BSD-ON:16.1 Figure 1

HDD Full status was detected and the job was aborted when accessing a mailbox.

Initial Actions

Power Off/On

Procedure

Refer customer to check Mailbox section in User Guide to make available more HDD space.

If the problem persists check the HDD electrical connections (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

If the problem persists perform Initialize Hard Disk.

If the problem persists, replace the HDD (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

016-749 Post Script Font RAP

BSD-ON:16.1 Figure 1

The specified font is not found in the ROM or the HDD.

Initial Actions

Power Off/On

Procedure

Refer customer to User Guide index on Change Print Settings or Print Mode Settings.

016-750 Print Job RAP

BSD-ON:16.1 Figure 1

The control logic detected an error in the print job ticket.

Initial Actions

Power Off/On

Procedure

Refer customer to User Guide section Change Print Settings or Print Mode Settings.

016-751 PDF RAP

BSD-ON:16.1 Figure 1

One of the following errors occurred while performing PDF Bridge processing:

- Syntax error
- Use of undefined commands
- Parameter error
- Broken PDF file
- Internal error

Initial Actions

Power Off/On

Procedure

Ask customer to print using the driver from Acrobat Reader.

016-752 PDF Memory Limit RAP

BSD-ON:16.1 **Figure 1**

Insufficient memory was detected during PDF Bridge processing.

Initial Actions

Power Off/On

Procedure

Ask customer to check print settings. When the Print mode is set to [High Quality], if the setting for [Standard] is set to [Normal], change the setting to [High Speed].

016-753 PDF PassWord Mismatch RAP

PDF Password Mismatched. The password specified on the UI panel and the password specified in XJPL (specified by the contents bridge) did not agree when processing a PDF file that was password protected.

Procedure

Specify the correct password on UI Panel or through Contents Bridge.

016-754 PDF LZW Not Installed RAP

PDF LZW Not Installed. A PDF file that used LZW compression technology was processed by the PDF bridge when the ‘Contents Bridge Expansion Kit’ was not installed.

Procedure

Install ‘Contents Bridge Expansion Kit,’ or print from Acrobat Reader by using the driver.

016-755 PDF Print Prohibited RAP

PDF Print Prohibited. A PDF file for which it had been specified that printing was prohibited was processed.

Procedure

Clear the prohibition of printing a PDF file and then print it by using Acrobat.

016-756 Auditron-Prohibit Service RAP

Auditron-Prohibit Service. The use of this service is prohibited.

Procedure

Ask the account administrator to permit the use of services.

016-757 Auditron-Invalid User RAP

Auditron-Invalid User. A user account is invalid.

Procedure

Set the correct account and retry.

016-758 Auditron-Disabled Function RAP

Auditron-Disabled Function. A function cannot be used due to lack of rights or permission.

Procedure

1. Reset to another function available for the account and retry.
2. Ask the account administrator to add the right.

016-759 Auditron-Reached Limit RAP

Auditron-Reached Limit. The upper bound to the number of pages that can be copied was reached.

Procedure

Ask the account administrator to set a new paper qty.

016-760 PS Decompose Failure RAP

PS Decompose Failure. An error occurred during postscript (option) processing.

Procedure

- Set a print mode to ‘Speed Preferred.’
- Resend the job. (If the problem persists, check the execution environment and data.)

016-761 FIFO Empty RAP

FIFO Empty. Image expansion error (FIFO empty error).

Procedure

Print in the Speed Preferred mode. If this does not resolve the problem, use the Print Guarantee mode for print. (Only for the machine with this mode.)

016-762 Print LANG Not Installed RAP

Print LANG Not Installed. A function that is not installed (such as a print language or print utility) was specified.

Procedure

In ‘Printer Mode’ specify a print language.

016-764 SMTP Server Connect Error RAP

SMTP Server Connect Error. It was not possible to connect to the SMTP server.

Procedure

Take out mail from the Server HDD. Restart SMTP Services.

016-765 SMTP Server HD Full RAP

SMTP Server HD Full. It was not possible to send mail because the HDD capacity of the SMTP server was full.

Procedure

Take out mail from the Server HDD. Reconsider the capacity of the server.

016-766 SMTP Server File System Error RAP

SMTP Server File System Error. An error occurred in the SMTP server.

Procedure

Contact the SMTP Server administrator. Reconsider the preset limit to the server capacity.

016-767 Invalid E-mail Address RAP

Invalid E-mail Address. It was not possible to send because the mail address was wrong.

Procedure

Ensure the mail address is correct and resend the mail.

016-768 Invalid Sender Address RAP

Invalid Sender Address. It was not possible to connect to the SMTP server because the mail address of this equipment was not correct.

Procedure

Check the set-up MC mail address to see if the Email address is valid in the domain.

016-769 SMTP Server Unsupported DSN RAP

SMTP Server Unsupported DSN. The SMTP server does not support path verification (DNS).

Procedure

Enable the ESMTP function of the nearest SMTP server, or set DNS to OFF and send.

016-770 FAX Function Cancelled RAP

The direct fax function is disabled.

Procedure

Check with the System Administrator whether the function is enabled.

016-771 JBIG Parameter RAP

BSD-ON:16.1 **Figure 1**

There is a JBIG (Joint Bi-level Image Experts Group) parameter error.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

016-772 JBIG Parameter RAP

BSD-ON:16.1 **Figure 1**

There is a JBIG (Joint Bi-level Image Experts Group) parameter error.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

016-773 JBIG Parameter RAP

BSD-ON:16.1 Figure 1

There is a JBIG (Joint Bi-level Image Experts Group) parameter error.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

016-774 JBIG Parameter RAP

BSD-ON:16.1 Figure 1

There is a JBIG (Joint Bi-level Image Experts Group) parameter error.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

016-775 JBIG Parameter RAP

BSD-ON:16.1 **Figure 1**

There is a JBIG (Joint Bi-level Image Experts Group) parameter error.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

016-776 JBIG Parameter RAP

BSD-ON:16.1 **Figure 1**

There is a JBIG (Joint Bi-level Image Experts Group) parameter error.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

016-777 JBIG Parameter RAP

BSD-ON:16.1 Figure 1

There is a JBIG (Joint Bi-level Image Experts Group) parameter error.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

016-778 JBIG Parameter RAP

BSD-ON:16.1 Figure 1

There is a JBIG (Joint Bi-level Image Experts Group) parameter error.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

016-779 Scan Image Conversion Error RAP

Scan Image Conversion Error. An error occurred during scan image conversion processing.

Procedure

Retry the operation.

016-780 Attached Document TIFF RAP

There is a TIFF (Tagged Image File Format) error in the attached document.

Procedure

Ask customer to cancel and rerun the job.

016-781 Scan Server Connect Error RAP

Scan Server Connect Error. The CenterWare scan service could not connect to the server to send a file.

Procedure

1. Set up the proper MC ‘Subnet Mask’ and ‘Gateway.’
2. By ‘pinging’ from the destination server, check that the MC is connected.
3. Check that the MC with Windows or UNIX can connect to the destination server via ftp.

016-782 Scan Server Login Error RAP

Scan Server Login Error. The CenterWare scan service could not log into the server to send a file.

Procedure

1. Set up the login name and password at the destination server.
2. Set up the proper login name and password in attributes that the Job Template file has.
3. In CentreWare and on the client PC, set the same account as the above at resources.

016-783 Invalid Server Path RAP

Invalid Server Path. The CenterWare scan service could not find the specified server path to send a file.

Procedure

Check the name of the path to the server which path is set up on the job template.

016-784 Server Write Error RAP

Server Write Error. An error occurred when writing to the server with the CenterWare scan service.

Procedure

1. Check for ‘Write Authorization’ into the server directory.
2. Check the server disk for free space.

016-785 Server HD Full RAP

Server HD Full. The CenterWare scan service could not send a file because the HDD of the server had insufficient capacity.

Procedure

Check that there is ‘Write Authorization’ in the server directory and increase free space on the server disk.

016-786 HD Full-Scan Write Error RAP

HD Full-Scan Write Error. It was not possible to write a file while using the scan function because the HDD capacity was insufficient.

Procedure

1. A print job may make HDD full for a while, so wait for a while and retry.
2. If the problem continues, Initialize Hard Disk.
3. If the problem persists, replace the HDD (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

016-787 Invalid Server IP Address RAP

Invalid Server IP Address. The server address specified in a job template was wrong.

Procedure

Specify the correct job template, or check the contents (string Repository Name) of the job template file.

016-788 Retrieve to Browser Failure RAP

Retrieve to Browser Failed. The retrieval of a file from a web browser failed.

Procedure

1. Reload the browser page and perform retrieval operation again.
2. Activate the browser again and perform retrieval operation again.
3. Turn the device OFF then ON and perform retrieval operation again.
   Note that no actions are required if the job was canceled by a user.
4. Improve the connection status to a network.
5. Check whether there are problems such as duplicated IP addresses.

016-789 HD Full-Job Memory RAP

HD Full-Job Memory. Processing was interrupted because the required HDD capacity to process mail was exceeded.

Procedure

Reduce resolution or reduction/enlargement ratio to decrease the data size or send in several pieces.

016-791 File Retrieve Failure RAP

File Retrieve Fail. There was an error in obtaining a file.

Procedure

Check server directory structure and files (whether files exist, etc.). Check for the right to access both. Check whether access to the specified transfer destination server is available.

016-792 Specified Job Not Found RAP

Specified Job Not Found. The job log for a job specified in the panel could not be obtained when outputting an aggregate report by job.

Procedure

Remove unnecessary data from HDD to increase free space.

016-793 MF I/O HD Full RAP

MF I/O HD Full. The HDD capacity was insufficient.

Procedure

Delete the files in the HDD. Or, initialize the HD (Initialize Hard Disk).

016-794 Media Reader Not Installed RAP

Media Reader: Media No Insert.

Procedure

Check that the Media is inserted.

016-795 Media Reader Format Error RAP

Media Reader: Format Error.

Procedure

1. Check the contents in the Media from the PC. Check the file format/directory in the media and the selected mode (Digital Camera Print/Document Print), then make settings again.

016-796 Document Insert Operation Error RAP

Document insert operation error.

Procedure

1. Check the contents in the Media from the PC. Check whether the print file attribute data is displayed in the PC and make settings again.

016-797 Media Reader Image File Read Error RAP

Media Reader: Image File Read Error.

Procedure

1. Check the contents in the Media from the PC. Check whether the print file images are displayed in the PC and make settings again.

016-798 No Trust Marking Option RAP

No Trust Marking Option. When the decomposer called the S-image library the error of no HDD was returned.

Procedure

- Install the necessary options (HD).
- Check Connections to HDD (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

016-799 Print Instruction Failure RAP

Print Instruction Fail. A print parameter was incorrect.

Procedure

Perform the job again.

016-940 Duplex Output Side 1 and 2 Size Difference RAP

After the start of a job with Duplex Output selected, a difference was detected in size between side 1 and side 2.

Procedure

Specify the job to avoid the detection conditions.

016-941 Booklet Mixed-in-Size Image Detected RAP

After the start of a job with Booklet selected, mixed-in-size/orientation pages with images were detected.

Procedure

Specify the job to avoid the detection conditions.

016-942 Duplex Size Difference Between Side 1 and 2 RAP

As a result of deletion of a page for which Duplex was selected, a difference was detected in size between side 1 and side 2.

Procedure

Specify the job to avoid the detection conditions.

016-943 Duplex Doc/Divider Difference Between Side 1 and 2 RAP

As a result of insertion of a doc/divider after a page for which Duplex was selected, a difference was detected in size between side 1 and side 2.

Procedure

Specify the job to avoid the detection conditions.

016-944 Documents Merged RAP

It was found that docs were merged, where specified was connection of docs including the cover with an image or a doc with a divider.

Procedure

Specify the job to avoid the detection conditions.

016-945 Document Unavailable for Duplex RAP

It was found that a doc unavailable for duplex print was inserted after a doc for which Duplex was selected,

Procedure

Specify the job to avoid the detection conditions.

016-946 Document or Divider Inserted RAP

It was found that a doc or a divider was inserted after the cover or divider page.

Procedure

Specify the job to avoid the detection conditions.

016-947 APS Documentation Selected RAP

After the start of a job with APS Doc selected or with APS set up, it was found that there were no trays loaded with paper of sizes for Auto Paper Selection.

Procedure

Specify the job to avoid the detection conditions.

016-948 Booklet Selection Discontinued RAP

Though a job was started with Booklet selected, it was discontinued because it had the cover with an image, a divider or a blank page.

Procedure

Specify the job to avoid the detection conditions.

016-949 Document Size/Orientation Inserted RAP

After specifying page connection, the user inserted a doc different in size/orientation from the page to be processed.

Procedure

Specify the job to avoid the detection conditions.

016-981 HDD Access Failure RAP

A failure in access to HDD

Procedure

If no user action can resolve the problem, increase HDD partition size for a specific service.

016-982 HDD Access Error 2 RAP

HDD Access Error 2. It was determined that the HDD was full during a collation job, destination storage job, or divided job.

Procedure

Increase HDD partition size for a specific service.

016-983 Log Image Storage Area on Disk Full RAP

This is prepared for the user to interfere and cancel a copy/scan job when the log image storage area on the disk becomes full with the level of ensuring creation set to [High].

Procedure

Press the Cancel Job button to cancel the job.

Rerun the job.

If the situation is the same despite some re-attempts, delete unnecessary documents saved in the device or change the level of ensuring creation (to Low). However, if the level is set to Low, log image creation cannot be ensured.

016-985 Data Size Over Flow (Scan to E-mail) RAP

Data Size Over Flow (Scan to Email). It was not possible to send during a scan to e-mail because the data size exceeded the upper bound.

Procedure

1. Reduce resolution (image quality for transmission), which is a send parameter, and resend.
2. Reduce reduce/enlarge ratio, which is a send parameter, and resend. (E.g. Reduce A3 to A4.)
3. Change ‘Upper limit of data size’ in the System Setting screen on UI Panel. (Default 2MB recommended)

018-400 IPSEC Error (Configuration Mismatch) RAP

While IPSEC is set to Enable, password is not set in authentication mode = [Pre-shared key] or IPSEC certificate is not set in authentication mode = [Digital signature].

Procedure

Make IPSEC setting consistent with Authentication mode and enable IPSEC again. Inconsistency in IPSEC setting: Password is not set with Authentication mode = [Pre-shared Key] or Authentication mode = IPSEC certificate is not set with [Digital signature].

018-500 CA Message Receiver Boot Error (S_cert lost) RAP

Job cannot be executed with designated combination of parameters (storage file size, paper size, paper tray, Duplex designation, output tray).

Procedure

Re-set paper size, paper tray, Duplex designation and output tray etc. and retry job.

018-501 CA Server Connection Error RAP

When server certificate and secret key are not available at device start, SSL server necessary to CA cannot be started.

Procedure

No server certificate for the device. Set server certificate or disable CA function.

018-502 Login Failure in SMB RAP

Limitation of the workstation to log in the server in SMB Scan is detected at SMB server login.

Procedure

Verify designated user property information to check if workstation that can login the server is limited or not.

018-503 CA Message Receiver Timeout RAP

At SMB server login, limitation of workstation that can be logged in with SMB scan is detected.

Procedure

Verify designated user property information to check if workstation that can login the server is limited or not.

018-504 CA SessionID Mismatch RAP

When message is received from CA server, no reaction of JRM/UI is made, resulting in time-out.

Procedure

Timeout occurs while waiting for a response to CA server due to inside load of the device. Retry authentication operation.

018-505 SMB-DOS protocol error RAP

Unable to authenticate due to an incorrect SMB user name or password.

Procedure

Check the user name and password with the system administrator.

The password cannot be recovered. If the customer has forgotten the password, reset the password.

018-506 CA FieldID Mismatch RAP

When the fault occurs in SMB authentication:

- Unable to authenticate due to wrong user name or password
- Time of SMB server and that of M/C are not the same. The fault occurs with Windows Server 2003
- When the fault occurs while scanner transfers scanned data to PC storage to SMB:
  - Unable to log in SMB server while in scanned data transfer due to wrong user name or password
  - Time of SMB server and that of M/C are not the same. The fault occurs with Windows Server 2003.

NOTE: For only [SC12041: Product of DMP6-2 or later]:

Designated user name is not registered as user allowed to use shared Windows MacOS X v10.4.

Procedure

Take any of the following actions:

-Check user name or password with network administrator.

-For Windows Server 2003, to make time of SMB server and that of this M/C identical.

Note: Password cannot be verified. When you forget password, password need be reset according to the following procedure:

1) Select [Start] menu> [All programs] >[Management tool] >[Active Directory user and computer] on domain controller of active directory where user information is set.

2) Select [Active Directory user and computer [Server]] >[Domain] >[Users] and list user information from the left frame of [Active Directory user and computer] window.

3) Right-click target user from the right frame of [Active Directory user and computer] window and select [Reset password].

Verify user who can use Windows Share MacOS X v10.4 according to the following procedure:

1) Activate [System setting] icon from [Dock].

2) Click [Share] icon in [System setting] window.

3) Select [Windows Share] on Service selection screen and click [Account] button.

4) Check account you want to make valid and click [Complete] button.

018-507 CA Credential Error RAP

While in communication with CA server for authentication, FieldID of CA server and FieldID of device are not the same (Communication error, or device internal error, or wrong code).

Procedure

Error occurs in authentication operation between CA server and the device. Retry authentication operation.

018-508 CA Server Fatal Error RAP

When CA authentication server requests user information entry, the entered information is judged to be inconsistent by the server.

Procedure

User authentication fails. Input user name or password is not correct. Verify and input correct user name and password.

018-509 Template Parameter Conflict RAP

1. In CUI scanning, start of a job designated with template name that does not exit is requested.

2. Job template attribute conflict.

3. Address of server for image storage is not set in job template.

Procedure

Check if the content designated with job template is correct or not, for example:

-Setting that is not usable in the device is described.

-Transfer destination repository is not correctly set.

-Template name that does not exist is designated.

018-524 Invalid Device Network Setting RAP

1. While device DNS is not set, server name is described in job template with FQDN.

2. Transfer protocol port described in job template is not activated on device (SMB, FTP etc.).

Procedure

Check if network-related setting and port necessary to scan job execution are properly done on the device side.

-Ensure that the DNS server setting correct.

-Ensure that the port of the designated protocol is activated.

018-525 HDD Full or HDD Access Error RAP

1. While in CUI scan start processing, internal HDD Full occurs (job template partition).

2. While in CUI scan start processing, internal HDD failure is detected.

Procedure

Retry the operation after a short interval.

018-526 Rejected to be Refresh RAP

CUI scan start request is received while in job template polling.

Procedure

Retry the operation after a short interval.

018-527 JT Monitor Internal Error RAP

Job Template Monitor internal error.

Procedure

Retry the operation.

018-528 Soap Request Error RAP

Incorrect argument request is received from Soap client of Custom Service.

Procedure

Check if the custom service setting is correct.

018-529 Duplicate Scan Request RAP

While in CUI scan start processing requested from Soap client of Custom Service, another CUI scan start request is received.

Procedure

Retry the operation after a short interval.

018-530 Authentication Error RAP

1. Limitation of total DV sheet, limitation of DV color mode, limitation of DV service use.

2. Use of unregistered card.

3. While in authentication information retrieval, job error occurs due to external device connection.

Procedure

Conduct correct authentication operation or verify limitation by M/C administrator (color mode, total sheet volume, service).

018-531 Failed to Create a New Job RAP

Error of JRM detection while in CUI scan job start

Procedure

Retry the operation.

018-532 Too Many Jobs to Create a New Job RAP

Error of JRM detection while in CUI scan job start

Procedure

Retry the operation.

018-543 Shared name error in SMB server RAP

A shared name on the SMB scan server is wrong.

Procedure

Check what the specified shared name is and enter the correct one.

018-547 Number restriction over of SMB scan users RAP

The limited number of SMB scan users is exceeded.

Procedure

1. Check what the limited number of users that can connect to a shared folder is.

2. Check that the number of users that use the server simultaneously is not over max.

018-595 LDAP protocol error RAP

Attestation Server detected a duplicated user. (LDAP)

Procedure

Correct the user entered in database on the LDAP server so that it does not have the same IC card info as any other user.

018-596 LDAP Protocol Error 596 RAP

(1) Error other than 018-595 that occurs with authentication LDAP protocol (ProtocolCategory=7)

(2) Protocol type delivered to Coml_Fault_GetNETCeCode(?) is unexpected.

FTP/HTTP is designated or protocol type larger than LDAP_NETAUTH(=7) is designated.(DMP6-2)

Procedure

Retry the operation.

018-701 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-702 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-703 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-704 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-705 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-706 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-707 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-708 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-710 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-711 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-712 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-713 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-714 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-716 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-717 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-718 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-719 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-720 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-721 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are present. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-732 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-733 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-734 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-735 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-736 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-748 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-749 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-750 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-751 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-752 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-753 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-754 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-764 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-765 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-766 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-767 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-768 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-769 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-770 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-771 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-780 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-781 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-782 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-783 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-784 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-785 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-786 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-787 LDAP RAP

BSD-ON:

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-788 LDAP RAP

BSD-ON:

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-789 LDAP RAP

BSD-ON:

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-790 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-791 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-792 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-793 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-794 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-795 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-796 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

018-797 LDAP RAP

There is an error in the Lightweight Directory Access Protocol.

Procedure

Verify that print jobs are printing or print a Configuration Report and verify that network setup settings are indicated. **The printer is operational or the Config Report indicates valid network settings.**

Y N

Check for damage with the network connection. If there is no damage then there is a problem with the network. Tell the customer that the network requires service.

There is a problem with the LDAP setups on the machine or with the remote LDAP server. Ask the customer to verify the machine LDAP setups. If OK then there is a problem with the remote LDAP server.

021-360 FI Accessory Connection Error RAP

An error occurred in the connection to the FI accessory. The accessory that was supposed to be installed is not present.

Initial Actions

Power Off/On

Procedure

Check the connections and P/Js on the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45) and check that any accessory PWB's are securely installed.

If the problem persists, reload Firmware (GP 7).

021-361 Invalid IOT Paper Size Group Info RAP

Paper Size Group Information inconsistency between ESS and IOT.

Initial Actions

Power Off/On

Procedure

Reload Firmware (GP 7).

If the problem persists, pull out and insert the Foreign Interface

If the problem persists, replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

021-731 FI - Function Disabled RAP

The foreign device support function is disabled.

Procedure

A procedure is not available at time of publication.

021-732 FI - Service Disabled RAP

With an accessory installed, there is a missing card, an insufficient fee paid, or an incorrect card value.

Procedure

Insert a Xerox card, copy card or cash into the accessory and ensure that there are sufficient fees or card value.

021-733 FI - Color Service Disabled RAP

BSD-ON:3.7

With an accessory installed there is a Color Mode Restriction or the upper limit was reached.

Procedure

Operate the Color Mode Restriction Key SW to enable Color mode. Or, replace the card with another card that does not reach the upper limit in Color mode.

024-340 IOT-ESS Communication 1 RAP

BSD-ON:3.1/16.1 Figure 1 / Figure 1

An abnormal parameter is set for the send function.

Initial Actions

Power Off/On

Procedure

Check that connectors on the MCU PWB (PL 13.1) and on the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45) are securely connected.

If the problem continues, reload Software (GP 7). If the problem persists, replace the MCU PWB (PL 13.1).

024-341 IOT-ESS Communication 2 RAP

BSD-ON:3.1/16.1 Figure 1 / Figure 1

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

Initial Actions

Power Off/On

Procedure

Check that connectors on the MCU PWB (PL 13.1) and on the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45) are securely connected.

If the problem continues, reload Software (GP 7). If the problem persists, replace the MCU PWB (PL 13.1).

024-342 IOT-ESS Communication 3 RAP

BSD-ON:3.1 Figure 1

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

Initial Actions

Power Off/On

Procedure

Check that connectors on the MCU PWB (PL 13.1) and on the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45) are securely connected.

If the problem continues, reload Software (GP 7). If the problem persists, replace the MCU PWB (PL 13.1).

024-343 IOT-ESS Communication 4 RAP

BSD-ON:3.1 Figure 1

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

Initial Actions

Power Off/On

Procedure

Check that connectors on the MCU PWB (PL 13.1) and on the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45) are securely connected.

If the problem continues, reload Software (GP 7). If the problem persists, replace the MCU PWB (PL 13.1).

024-345 IOT-ESS Communication 5 RAP

BSD-ON:3.1 Figure 1

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

Initial Actions

Power Off/On

Procedure

Check that connectors on the MCU PWB (PL 13.1) and on the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45) are securely connected.

If the problem continues, reload Software (GP 7). If the problem persists, replace the MCU PWB (PL 13.1).

024-346 IOT-ESS Communication 6 RAP

BSD-ON:3.1 Figure 1

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

Initial Actions

Power Off/On

Procedure

Check that connectors on the MCU PWB (PL 13.1) and on the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45) are securely connected.

If the problem continues, reload Software (GP 7). If the problem persists, replace the MCU PWB (PL 13.1).

024-347 IOT-ESS Communication 7 RAP

BSD-ON:3.1/16.1 Figure 1 / Figure 1

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

Procedure

Check that connectors on the MCU PWB (PL 13.1) and on the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45) are securely connected.

If the problem continues, reload Software (GP 7). If the problem persists, replace the MCU PWB (PL 13.1).

024-348 IOT-ESS Communication 8 RAP

BSD-ON:3.1/16.1 Figure 1 / Figure 1

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

Procedure

Check that connectors on the MCU PWB (PL 13.1) and on the ESS PWB (PL 13.2WC 7228/35/45 or PL 13.4 WC 7328/35/45) are securely connected.

If the problem continues, reload Software (GP 7). If the problem persists, replace the MCU PWB (PL 13.1).

024-349 IOT-ESS Communication 9 RAP

BSD-ON:3.1 Figure 1

A transmission failure occurred as the acknowledgement could not be received after 2 resend attempts. (After header recognition, receive interruption was detected by the IOT.)

Initial Actions

Power Off/On

Procedure

Check that connectors on the MCU PWB (PL 13.1) and on the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45 are securely connected.

If the problem continues, reload Software (GP 7). If the problem persists, replace the MCU PWB (PL 13.1).

024-350 IOT-ESS Communication 10 RAP

BSD-ON:3.1 Figure 1

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

Initial Actions

Power Off/On

Procedure

Check that connectors on the MCU PWB (PL 13.1) and on the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45) are securely connected.

If the problem continues, reload Software (GP 7). If the problem persists, replace the MCU PWB (PL 13.1).

024-351 IOT-ESS Communication 11 RAP

BSD-ON:3.1 Figure 1

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

Initial Actions

Power Off/On

Procedure

Check that connectors on the MCU PWB (PL 13.1) and on the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45) are securely connected.

If the problem continues, reload Software (GP 7). If the problem persists, replace the MCU PWB (PL 13.1).

024-352 IOT-ESS Communication 12 RAP

BSD-ON: 3.1/16.1 Figure 1 / Figure 1

IOT-ESS Communication Failure 12. ESS PWB detected a communication failure between IOT and ESS.

Initial Actions

Power Off/On

Procedure

Check that connectors on the MCU PWB (PL 13.1) and on the ESS PWB (PL 13.2) WC 7228/35/45 or PL 13.4 WC 7328/35/45 are securely connected.

If the problem continues, reload Software (GP 7). If the problem persists, replace the MCU PWB (PL 13.1).

024-353 IOT-ESS Communication 13 RAP

BSD-ON: 3.1 Figure 1

IOT-ESS Communication Failure 13. ESS PWB detected a communication failure between IOT and ESS.

Initial Actions

Power Off/On

Procedure

Check that connectors on the MCU PWB (PL 13.1) and on the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45) are securely connected.

If the problem continues, reload Software (GP 7). If the problem persists, replace the MCU PWB (PL 13.1).

024-354 IOT-ESS Communication 14 RAP

BSD-ON:3.1 Figure 1

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

Initial Actions

Power Off/On

Procedure

Check that connectors on the MCU PWB (PL 13.1) and on the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45) are securely connected.

If the problem continues, reload Software (GP 7). If the problem persists, replace the MCU PWB (PL 13.1).

024-355 IOT-ESS Communication 15 RAP

BSD-ON: 3.1 Figure 1

IOT-ESS Communication Failure 15. ESS PWB detected a communication failure between IOT and ESS.

Initial Actions

Power Off/On

Procedure

Check that connectors on the MCU PWB (PL 13.1) and on the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45) are securely connected.

If the problem continues, reload Software (GP 7). If the problem persists, replace the MCU PWB (PL 13.1).

024-356 IOT-ESS Communication 16 RAP

BSD-ON:3.1/16.1 Figure 1 / Figure 1

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

Initial Actions

Power Off/On

Procedure

Check that connectors on the MCU PWB (PL 13.1) and on the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45) are securely connected.

If the problem continues, reload Software (GP 7). If the problem persists, replace the MCU PWB (PL 13.1).

024-357 IOT-ESS Communication 17 RAP

BSD-ON: 3.1 Figure 1

IOT-ESS Communication Failure 17. ESS PWB detected a communication failure between IOT and ESS.

Initial Actions

Power Off/On

Procedure

Check that connectors on the MCU PWB (PL 13.1) and on the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45) are securely connected.

If the problem continues, reload Software (GP 7). If the problem persists, replace the MCU PWB (PL 13.1).

024-358 IOT-ESS Communication 18 RAP

BSD-ON: 3.1 Figure 1

IOT-ESS Communication Failure 18. ESS PWB detected a communication failure between IOT and ESS.

Initial Actions

Power Off/On

Procedure

Check that connectors on the MCU PWB (PL 13.1) and on the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45) are securely connected.

If the problem continues, reload Software (GP 7). If the problem persists, replace the MCU PWB (PL 13.1).

024-359 IOT-ESS Communication 19 RAP

BSD-ON: 3.1 Figure 1

IOT-ESS Communication Failure 19. ESS PWB detected a communication failure between IOT and ESS.

Initial Actions

Power Off/On

Procedure

Check that connectors on the MCU PWB (PL 13.1) and on the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45) are securely connected.

If the problem continues, reload Software (GP 7). If the problem persists, replace the MCU PWB (PL 13.1).

024-360 IOT-ESS Initialization RAP

The IOT and ESS failed to initialize

Initial Actions

Power Off/On

Initial Actions

Power Off/On

Procedure

Check that connectors on the MCU PWB (PL 13.1) and on the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45) are securely connected.

If the problem continues, reload Software (GP 7). If the problem persists, replace the MCU PWB (PL 13.1).

024-361 Invalid IOT Paper Size RAP

Invalid IOT Paper Size Group Information.

Initial Actions

Power Off/On

Procedure

Check that connectors on the MCU PWB (PL 13.1) and on the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45) are securely connected.

If the problem continues, reload Software (GP 7). If the problem persists, replace the MCU PWB (PL 13.1).

024-362 Page Sync Start RAP

BSD-ON:3.1/16.1 Figure 1 / Figure 1

During IOT output, before the output data was written to FIFO Full (first in first out), Page Sync activated.

Initial Actions

Power Off/On

Procedure

Check that connectors on the MCU PWB (PL 13.1) and on the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45) are securely connected.

If the problem continues, reload Software (GP 7). If the problem persists, replace the MCU PWB (PL 13.1).

024-363 Page Sync Stop RAP

BSD-ON:3.1/16.1 Figure 1 / Figure 1

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

Initial Actions

Move away machines that are noisy.

Procedure

Electrical noise on the power circuit for the machine may be excessive. Verify the ground connections on the ESS Chassis.

Check that connectors on the MCU PWB (PL 13.1) and on the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45) are securely connected.

If the problem persists reload Software (GP 7).

024-364 DMA Transfer RAP

Reduction/enlargement failed to access the data in Direct Memory Access.

Procedure

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

Perform GP 14.

If problem continues, reload Software (GP 7).

Uninstall and reinstall the Page Memory (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45)

If the problem persists, replace the Page Memory (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).

If the problem persists, replace the HDD (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).

024-365 Overflow Loop Back Write RAP

Overflow on the Loop Back Write.

Procedure

Power OFF/ON.

024-366 JBIG Library Other Failure RAP

JBIG Library Other Failure.

Procedure

Turn the power OFF then ON. If the problem persists, perform the following.

1. Replace the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).

024-367 Decompression Synchronization RAP

BSD-ON:3.1/16.1 Figure 1 / Figure 1

Incorrect line synchronization was detected.

Initial Actions

Power Off/On

Procedure

Check that connectors on the MCU PWB (PL 13.1) and on the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45) are securely connected.

Perform GP 14.

If problem continues, reload Software (GP 7).

If the problem persists, replace the Page Memory (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45)

If the problem persists, replace the HDD (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).

If the problem persists, replace the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).

024-368 PCI RAP

BSD-ON:3.1/16.1 Figure 1 / Figure 1

PCI access error occurred due to a faulty PCI bus.

Procedure

Check that connectors on the MCU PWB (PL 13.1) and on the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45) are securely connected.

If the problem persists, reload Software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).

024-370 Marker Code Detection RAP

BSD-ON:3.1/16.1 Figure 1 / Figure 1

During Enlarge, when the file was enlarged only by the specified size, the end code (FF02) cannot be found in the compressed data.

Procedure

The problem occurs only for specific documents.

Y N

Perform following as required:

1. Check that connectors on the MCU PWB (PL 13.1) and on the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45) are securely connected.
2. Replace the RAM PWBs (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).
3. Perform GP 14. If the problem persists, replace the HDD (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).
4. Replace the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).

Perform following as required:

1. Reload Software (GP 7).
2. Change the Print mode (Normal/High Quality/High Resolution).
3. Change the port settings or the Receive Buffer size.)

024-600 Billing Master Counter RAP

BSD-ON:

There is a billing master counter error.

Procedure

Perform GP 10.

024-601 Billing Backup Counter 1 RAP

There is a billing backup counter error.

Procedure

Perform GP 10.

024-602 Billing Backup Counter 2 RAP

There is a billing backup counter error.

Procedure

Perform GP 10.

024-603 Software Key Master Counter RAP

There is a software key master counter error.

Procedure

Auto-recovers.

024-604 Software Key Backup Counter 1 RAP

There is a software key backup counter 1 error.

Procedure

Auto-recovers.

024-605 Software Key Backup Counter 2 RAP

BSD-ON:

There is a software key backup counter 2 error.

Procedure

Auto-recovers.

024-700 Memory shortage or HDD not mounted

BSD-ON:16.1 Figure 1

Job is unprintable due to [System memory capacity shortage] or [HDD unmounted] signal is received.

Procedure

1. Mount the HDD (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).
2. Uninstall and Reinstall Page Memory (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).
3. Replace Page Memory (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).
4. Power OFF/ON.
5. If 016-210 or 016-211 faults are present repair as necessary.

024-746 Paper Tray Parameter Mismatched RAP

Selected Paper Tray Parameter Mismatch. A function was specified (one of paper size, paper tray, output tray, and duplex printing) that is not compatible with the type of paper specified.

Procedure

Do not specify parameters that are incompatible with the specified paper type.

024-747 Print Instruction RAP

An invalid print parameter combination was set.

Procedure

Check the print data;an invalid combination of job requirements has been set. For example, a custom size was specified, and [Paper Supply] was set to [Auto]. In this case, select the bypass tray.

024-748 Bates Numbering Digit Over

The job contains too many pages therefore it exceeded the max number of digits (9) or the maximum number set by the customer.

Procedure

Either reduce the number of pages in the job so that it does not exceed the maximum digits (9) or the customer designated number or increase the number up to the maximum (9) number of digits.

024-775 Booklet Sheet Count Over Limit

The customer tried to print a booklet with a higher number of sheets than the Booklet limit without imposition and the job was cancelled at the machine.

NOTE: *This is detected at start of Print. If the number of sheets per set is larger than the Booklet limit the job is cancelled. The only message a customer gets is "Job has been Cancelled" with no other information provided.*

If "Fold Only" is requested a set will be folded up to the limit of the Booklet and output .

Procedure

Inform the customer that the Booklet requested contained more sheets than the Specification allowed for a booklet.

024-916 Mix Full Stack RAP

BSD-ON:12.8 Figure 8

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

Initial Actions

- Power Off/On

Procedure

Go to the 12-961 RAP (Office Finisher), or the 012-961 Mix Stack detected RAP and 012-960 Full Stack detected RAP (A/P Finishers).

024-917 Stacker Tray Staple Set Over Count RAP

BSD-ON:12.9 Figure 10

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

Initial Actions

- Power Off/On
- Empty the tray

Procedure

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

Y N

Connect the connectors.

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

Y N

Return to Service Call Procedures.

Replace the Finisher PWB (PL 17.13). If the problem persists, replace the MCU PWB (PL 13.1).

024-923 Y Toner Empty RAP

The Yellow Toner Cartridge is empty. This fault requires service only if the message appears before the Toner Cartridge is depleted.

NOTE: *Continuous running of high density prints can temporarily deplete the toner supply.*

Initial Actions

- Ensure that there is toner and the toner is evenly distributed in the Yellow cartridge.
- Check the Yellow ATC Sensor for blockage or contaminants.
- Check the drive system from the Developer Drive Motor to the Yellow Developer Housing for damage.

Procedure

Replace the Toner Cartridge. If the problem continues, go to the 009-410 RAP.

024-924 M Toner Empty RAP

The Magenta Toner Cartridge is empty. This fault requires service only if the message appears before the Toner Cartridge is depleted.

NOTE: *Continuous running of high density prints can temporarily deplete the toner supply.*

Initial Actions

- Ensure that there is toner and the toner is evenly distributed in the Magenta cartridge.
- Check the Magenta ATC Sensor for blockage or contaminants.
- Check the drive system from the Developer Drive Motor to the Magenta Developer Housing for damage.

Procedure

Replace the Toner Cartridge. If the problem continues, go to the 009-411 RAP.

024-925 C Toner Empty RAP

The Cyan Toner Cartridge is empty. This fault requires service only if the message appears before the Toner Cartridge is depleted.

NOTE: *Continuous running of high density prints can temporarily deplete the toner supply.*

Initial Actions

- Ensure that there is toner and the toner is evenly distributed in the cartridge (C).
- Check the Cyan ATC Sensor for blockage or contaminants.
- Check the drive system from the Developer Drive Motor to the Developer Housing (C) for damage.

Procedure

Replace the Toner Cartridge. If the problem continues, go to the 009-412 RAP.

024-930 Stacker Tray Full RAP

Procedure

Go to the 12-960 RAP (Office Finisher), or the 012-960 Full Stack detected RAP (A/P Finishers).

024-933 Yellow Drum Cartridge Replacement RAP

The Yellow Drum Cartridge must be replaced.

Procedure

Replace the Yellow Drum Cartridge (refer to Section 6, CRUs and Consumables). **The problem is corrected.**

Y N

Replace the MCU PWB. (PL 13.1).

Return to Service Call Procedures.

024-940 Magenta Drum Cartridge Replacement RAP

The Magenta Drum Cartridge must be replaced.

Procedure

Replace the Magenta Drum Cartridge (refer to Section 6, CRUs and Consumables). **The problem is corrected.**

Y N

Replace the MCU PWB. (PL 13.1).

Return to Service Call Procedures.

024-941 Cyan Drum End of Life RAP

Cyan Drum end-of-life.

Procedure

Replace the Cyan Drum Cartridge (refer to Section 6, CRUs and Consumables). **The problem is corrected.**

Y **N**

Replace the MCU PWB. (PL 13.1).

Return to Service Call Procedures.

024-942 Booklet Sheet Over Count RAP

Booklet Sheets Over Count. The number of sheets in a booklet is over the limit.

Initial Actions

Check the maximum number of sheets for Booklet.

Procedure

program job in compliance with the maximum number of sheets for Booklet. Switch the power OFF then ON.Cancel Booklet. **The same error recurs.**

Y **N**

Bind sheets by the maximum number of sheets for Booklet.

Replace the Booklet PWB (PL 21.12) followed by the Finisher PWB (PL 21.12). or

024-943 Booklet Low Staple RAP

Booklet Low Staple. There are few remaining staples for booklets. (This fault can also occur if the cartridge is removed.)

Procedure

Replace the Staple Cartridge. If the problem persists, o to the 012-984 Booklet Low Staple F or 012-989 Booklet Low Staple R RAPs.

024-945 Booklet Full Stack RAP

BSD-ON: 12.30 (Figure 20)

Booklet Full Stack. The number of outlet portions to the booklet tray has reached the system data threshold.

Procedure

Remove all sets. Perform the job again. **The problem is resolved.**

Y N

Execute Component Control [013-139 Booklet No Paper Sensor]. Move the actuator manually. **The display changes.**

Y N

Go to BSD 12.30 and troubleshoot the Booklet No Paper Sensor circuit.

Replace the Booklet PWB (PL 21.12) followed by the Finisher PWB (PL 21.12).

If the problem reoccurs, replace the Finisher PWB (PL 21.12).

024-946 Tray 1 Position RAP

BSD-ON:7.1 Figure 1

The Tray 1 Paper Size Switch detected no tray.

Initial Actions

- Reload the tray correctly.
- Check the operation of the tray actuator.

Procedure

Go to the 007-270 RAP.

024-947 Tray 2 Position RAP

BSD-ON:7.2 Figure 2

The Tray 2 Paper Size Switch detected no tray.

Initial Actions

- Reload the tray correctly.
- Check the operation of the tray actuator.

Procedure

Go to the 007-271 RAP.

024-948 Tray 3 Position RAP

BSD-ON:7.3/7.5 Figure 4 / Figure 7

The Tray 3 Paper Size Switch detected no tray.

Initial Actions

- Reload the tray correctly.
- Check the operation of the tray actuator.

Procedure

Go to the 007-272 RAP (3TM), or the 007-276 RAP (TTM).

024-949 Tray 4 Position RAP

BSD-ON:7.4/7.6 Figure 5 / Figure 8

The Tray 4 Paper Size Switch detected no tray.

Initial Actions

- Reload the tray correctly.
- Check the operation of the tray actuator.

Procedure

Go to the 007-273 RAP (3TM), or the 007-277 RAP (TTM).

024-950 Tray 1 Empty RAP

BSD-ON: 7.5 (Figure 7)

Tray 1 is out of paper.

Initial Actions

- Power Off/On

Procedure

Check the installation of the Tray 1 No Paper Sensor (PL 2.3) and the operation of the actuator. **The Sensor is installed correctly and the actuator works.**

Y **N**

Reinstall the Sensor.

Execute Component Control [007-120 Tray 1 No Paper Sensor]. Manually activate the Tray 1 No Paper Sensor (PL 2.3). **The display changes.**

Y **N**

Go to BSD 7.5 (Figure 7). Troubleshoot the circuit of the Tray 1 No Paper Sensor. Refer to the OF 99-2, Transmissive Sensor RAP.

Go to the 007-281 RAP to check the Tray 1 Feed LIft Motor.

024-951 Tray 2 Empty RAP

BSD-ON: 7.6A TTM (Figure 8), or 7.6B 3TM (Figure 9)

Tray 2 is out of paper.

Initial Actions

- Power Off/On

Procedure

Check the installation of the Tray 2 No Paper Sensor (PL 15.3 - 3TM/ PL 16.7 - TTM) and the operation of the actuator. **The Sensor is installed correctly and the actuator works.**

Y **N**

Reinstall the Sensor.

Execute Component Control [007-121 Tray 2 No Paper Sensor]. Manually activate the Tray 2 No Paper Sensor (PL 15.3 - 3TM/ PL 16.7 - TTM). **The display changes.**

Y **N**

Go to BSD 7.6. Troubleshoot the circuit of the Tray 2 No Paper Sensor. Refer to the OF 99-2, Transmissive Sensor RAP.

Go to the 007-282 RAP to check the Tray 2 Feed LIft Motor.

024-952 Tray 3 Empty RAP

BSD-ON: 7.7A TTM (Figure 10), or 7.7B 3TM (Figure 11)

Tray 3 is out of paper.

Initial Actions

- Power Off/On

Procedure

Check the installation of the Tray 3 No Paper Sensor (PL 16.9 - TTM/PL 15.5 - 3TM) and the operation of the actuator. **The Sensor is installed correctly and the actuator works.**

Y **N**

Reinstall the Sensor.

Execute Component Control [007-122 Tray 3 No Paper Sensor]. Manually activate the Tray 3 No Paper Sensor (PL 16.9 - TTM/PL 15.5 - 3TM). **The display changes.**

Y **N**

Go to BSD 7.7A - TTM (Figure 10), or 7.7B - TTM (Figure 11). Troubleshoot the circuit of the Tray 3 No Paper Sensor. Refer to the OF 99-2, Transmissive Sensor RAP.

Go to the 007-283 RAP (3TM) or the 007-291 RAP (TTM) to check the Tray 3 Feed LIft Motor.

024-953 Tray 4 Empty RAP

BSD-ON: 7.8A TTM (Figure 12), or 7.8B 3TM (Figure 13)

There is no paper in Tray 4.

Initial Actions

- Check the tray for paper.
- Switch the power OFF then ON.
- Check the operation of the actuator.

Procedure

Execute Component Control [007-123 Tray 4 Paper Sensor]. Activate the actuator of the Tray 4 Paper Sensor (PL 16.11 - TTM/PL 15.7 - 3TM). **The display changes.**

Y **N**

Go to BSD 7.8A TTM (Figure 12), or 7.8B 3TM (Figure 13) and troubleshoot the Tray 4 Paper Sensor circuit.

Go to the 007-284 RAP (3TM) or the 007-293 RAP (TTM) to check the Tray 4 Feed LIft Motor.

024-954 Tray 5 Empty RAP

BSD-ON: 7.9 (Figure 14)

Tray 5 is out of paper.

Initial Actions

- Power Off/On

Procedure

Execute Component Control [007-125 Tray 5 Paper Sensor]. Activate the actuator of the Tray 5 Paper Sensor (PL 2.13). **The display changes.**

Y **N**

Go to BSD 7.9 (Figure 14) and troubleshoot the Tray 5 Paper Sensor circuit.

Replace the MCU PWB (PL 13.1).

024-959 RAP

Procedure

Go to the 007-270 RAP

024-960 RAP

Procedure

Go to the 007-271 RAP.

024-961 RAP

Procedure

Go to the 007-272 RAP (3TM) or the 007-276 RAP (TTM).

024-962 RAP

Procedure

.Go to the 007-273 RAP (3TM) or the 007-277 RAP (TTM).

024-965 ATS/APS Paper (IOT detect) RAP

No paper loaded of the designated paper for the job.

Initial Actions

- Power Off/On
- Reload the relevant tray.

Procedure

There are no other further actions required.

024-966 ATS/APS Destination RAP

BSD-ON:7.1-7.6 Figure 1 - Figure 8

APS/ATS is unable to detect the paper size.

Initial Actions

Change the Paper that is selected or change the tray.

Procedure

No further action is required.

024-967 Mixed Width Paper (Stapler job) RAP

BSD-ON: 12.6 (Office Finisher) Figure 6 12.35 (A/P Finisher) Figure 25

Paper Width Mix was detected during stapling.

Initial Actions

- Power Off/On

Procedure

Cancel stapling for that job.

024-968 Stapler/Punch Batting RAP

Stapler/Punch Batting. Stapler and punch batting.

Initial Actions

- Check if there is the specified paper in the tray.
- Switch the power OFF then ON.

Procedure

Cancel Staple mode and Punch mode. **The same problem recurs.**

Y N

Correct the settings.

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

Y N

Connect the connectors properly.

Check the connection of the cable between the machine and the Finisher. **The cable is properly connected.**

Y N

Connect the cable properly.

Replace the Finisher PWB (PL 21.12), if the problem continues, replace the MCU PWB (PL 13.1).

024-969 Different Width Mix Punch RAP

Different Width Mix Punch. Paper of different widths was detected while printing in punch mode.

Initial Actions

- Check if there is the specified paper in the tray.
- Switch the power OFF then ON.

Procedure

Copy: Cancel Punch mode (user intervention) **Printer**: Cancel Punch mode (auto cancellation) **The same problem recurs.**

Y N

Correct the settings.

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

Y N

Connect the connectors properly.

Check the connection of the cable between the machine and the Finisher. **The cable is properly connected.**

Y N

Connect the cable properly.

Replace the Finisher PWB (PL 21.12), if the problem continues, replace the MCU PWB (PL 13.1).

024-975 Booklet Sheets Exceed Maximum Number RAP

It was detected that the number of sheets for Booklet was exceeded when printing started. The number of sheets loaded exceeded the maximum number of sheets possible for Booklet.

Initial Actions

- Check the maximum number of sheets for Booklet.
- Switch the power OFF then ON.

Procedure

Load paper in compliance with the maximum number of sheets for Booklet.Switch the power OFF then ON.Cancel Booklet. **The same error recurs.**

Y N

Bind sheets by the maximum number of sheets for Booklet.

Replace the Booklet PWB (PL 21.12) followed by the Finisher PWB (PL 21.12).

024-976 Staple Status Failed RAP

BSD-ON:12.6

- After the Stapler Motor turned On (Forward rotation), the system did not detect that the Staple Head Home Sensor switched from Off to On within the specified time.
- After the Stapler Motor turned On (Reverse rotation), the Staple Head Home Sensor did not turn On within the specified time.

Initial Actions

- Power Off/On

Procedure

Go to the 012-916 Stapler NG (A/P Finishers) RAP or the 12-916 RAP (Office Finisher).

024-977 Stapler Feed Ready RAP

Procedure

Go to 012-910 Staple Ready Sensor Fail RAP (A/P Finishers) or 12-910 RAP (Office Finisher).

024-978 Booklet Stapler Incorrect RAP

Booklet Stapler incorrect. The ready signal was still not ready at the specified time after the start of a booklet stapling operation.

Procedure

Check continuity between the Booklet PWB and Finisher PWB. **The continuity check is OK.**

Y **N**

Repair the open circuit or short circuit.

Replace the Booklet Stapler (PL 21.16). If the problem remains, replace the Booklet PWB (PL 21.12). If the problem persists, replace the Finisher PWB (PL 21.12).

024-979 Stapler Near Empty RAP

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

Initial Actions

- Power Off/On

Procedure

Go to 12-965 RAP (Office Finisher), or 012-945 Low Staples RAP (A/P Finishers).

024-980 Stacker Tray Full RAP

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

Initial Actions

- Power Off/On

Procedure

Go to the 12-960 RAP (Office Finisher), or the 012-960 Full Stack detected RAP (A/P Finishers).

024-981 Finisher Top Tray Full RAP

BSD-ON: 12.31 (Figure 21)

Finisher Top Tray Full. The top tray sensor was on for 10 consecutive seconds.

Initial Actions

- Check Top Tray Exit for operation failure
- Check paper transportation failure due to a foreign substance/burr on the paper path
- Check transportation failure of non-standard paper

Procedure

Execute Component Control [014-215 Top Tray Full Sensor]. **Actuate the Top Tray Full Sensor (PL 21.11) with paper. The display changes.**

Y N

Check the circuit of the Top Tray Full Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Enter dC330 [014-115], Top Tray Exit Sensor (PL 21.11). Actuate the Top Tray Exit Sensor. **The display changes.**

Y N

Check the circuit of the Top Tray Exit Sensor. Refer to the OF 99-2 RAP for troubleshooting procedure.

Select [014-007], Exit Motor (PL 21.11). **The motor energizes.**

Y N

Check the circuit of the Exit Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Select Stop. Select [014-011] or [014-012], Transport Gate Solenoid (PL 21.10). **The Transport Gate Solenoid actuates.**

Y N

Check the circuit of the Transport Gate Solenoid. Refer to the OF 99-8 RAP for troubleshooting procedure.

Select [014-001], Finisher Transport Motor (PL 21.10). **The motor energizes.**

Y N

Check the circuit of the Finisher Transport Motor. Refer to the OF 99-9 RAP for troubleshooting procedure.

Select Stop.

Check the following:

- Ensure that the connectors shown in the circuit diagrams are securely connected and that the wires are not damaged
- Check the Exit Motor and its associated gears and belts for damage, contamination or misalignment
- Exit Drive Shaft for wear and a revolution failure
- The Exit Pinch Rolls for wear and/or damage

If the above checks are OK, then replace the Top Tray Exit Sensor (PL 21.11). If the problem persists, replace the Finisher PWB (PL 21.12).

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

- Power Off/On

Procedure

Go to the 12-911 RAP (Office Finisher), or the 012-925 Stacker Lower Safety Warning RAP (A/P Finishers).

024-983 Booklet Tray Full RAP

Booklet Tray Full. The booklet tray is full.

Initial Actions

Switch the power OFF then ON.

Procedure

Check the set values in Component Control [763-137] and [763-138]. **The set values are appropriate for the paper size.**

Y N

Change the settings or return it to the default value 20.

Check each connector of the Booklet PWB (PL 21.12) and the Finisher PWB (PL 21.12). **The connectors are properly connected.**

Y N

Connect the connectors properly.

Replace the Booklet PWB (PL 21.12) followed by the Finisher PWB (PL 21.12).

024-984 Booklet Low Staple F RAP

BSD-ON: 12.28 (Figure 18)

Booklet Low Staple F

1. The booklet stapler low staple F signal came on just before a stapling operation.
2. The booklet stapler low staple F signal came on when power was turned or when the interlock close was initialized.

Procedure

Supply the staples. **The problem is resolved.**

Y N

Enter Component Control [13-107], Low Staple Front. **'LOW' (staples available) is displayed.**

Y N

Check continuity between the Staple and Booklet PWB, and between the Booklet PWB and Finisher PWB. **The continuity check is OK.**

Y N

Repair the open circuit or short circuit.

Replace the Booklet Stapler (PL 21.16). If the problem continues, replace the Booklet PWB (PL 21.12).

Replace the Booklet PWB (PL 21.12). If the problem continues, replace the Finisher PWB (PL 21.12).

If the problem continues, replace the Booklet PWB (PL 21.12). If the problem persists, replace the Finisher PWB (PL 21.12).

024-989 Booklet Low Staple R RAP

BSD-ON: 12.28 (Figure 18)

Booklet Low Staple R

1. The booklet stapler low staple R signal came on just before a stapling operation.
2. The booklet stapler low staple R signal came on when power was turned or when the interlock close was initialized.

Procedure

Supply the staples. **The problem is resolved.**

Y N

Enter dC330 [13-108], Low Staple Rear. **'LOW' (staples available) is displayed**

Y N

Check continuity between the Staple and Booklet PWB, and between the Booklet PWB and Finisher PWB. **The continuity check is OK.**

Y N

Repair the open circuit or short circuit.

Replace the Booklet Stapler (PL 21.16). If the problem continues, replace the Booklet PWB (PL 21.12).

Replace the Booklet PWB (PL 21.12). If the problem continues, replace the Finisher PWB (PL 21.12).

If the problem continues, replace the Booklet PWB (PL 21.12). If the problem persists, replace the Finisher PWB (PL 21.12).

025-596 Diagnostic HDD Maintenance RAP

BSD-ON:16.1 Figure 1

A error is declared when the HDD Fail Forecast occurred.

Initial Actions

Power Off/On

Procedure

Check the HDD electrical connections (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
If the problem persists perform Initialize Hard Disk.
If the problem persists replace the HDD (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

025-597 Diagnostic HDD Initialize RAP

BSD-ON:16.1 Figure 1

An error is declared when the HDD Initialization Diagnostic was executed.

Initial Actions

Power Off/On

Procedure

Check the HDD electrical connections (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
If the problem persists perform Initialize Hard Disk.
If the problem persists replace the HDD (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

027-442 Duplicate IP Address

Device with the same IP address as IPv6 “Stateless Auto Setting Address1” of M/C exists on the network. When 027-442 to 027-447 occur at one time, the faults are displayed in ascending order of Link number.

Procedure

1. Check for no print output.
2. Check for network related failures.
3. Change the IP address of the machine IPv6 “Stateless Auto Set Address1. or the IP address of the device on the network.

027-443 DNS renewal failure of Dynamic

IPv6 - Stateless automatic setting IP address2 duplicated. When 027-442 to 027-447 occur at one time, the faults are displayed in ascending order of Link number.

Procedure

1. Check for no print output.
2. Check for network related failures.
3. Change the IP address of the machine IPv6 “Stateless Auto Set Address1. or the IP address of the device on the network.

027-444 Duplicate IP Address

IPv6 - ‘Stateless automatic setting IP address3’ duplicated on the network in another device. When 027-442 to 027-447 occur at one time, the faults are displayed in ascending order of Link number.

Procedure

1. Check for no print output.
2. Check for network related failures.
3. Change the IP address of the machine IPv6 “Stateless Auto Set Address1. or the IP address of the device on the network.

027-445 Illegal IP Address

IPv6 “Manual setting address” set to M/C is not correct. When 027-442 to 027-447 occur at one time, the faults are displayed in ascending order of Link number.

Procedure

- Check if incorrect address is used for IPv6 address automatically is set as the manual address or not.

027-446 Duplicate IP Address

Device with the same IP address as IPv6 “Manual setting address” of M/C exists on the network. When 027-442 to 027-447 occur at one time, the faults are displayed in ascending order of Link number.

Procedure

1. Check for no print output.
2. Check for network related failures.
3. Change the IP address of the machine IPv6 “Stateless Auto Set Address1. or the IP address of the device on the network.

027-447 Duplicate IP Address

Device with the same IP address as IPv6 “Link local address” of M/C exists on the network. When 027-442 to 027-447 occur at one time, the faults are displayed in ascending order of Link number.

Procedure

1. Check for no print output.
2. Check for network related failures.
3. Change the IP address of the machine IPv6 “Stateless Auto Set Address1. or the IP address of the device on the network.

027-452 Duplicate IP Address RAP

BSD-ON:16.1 Figure 1

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

Initial Actions

Change the IP address.

Procedure

If the problem persists, replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

027-500 SMTP Server Mail I/O RAP

BSD-ON:16.1 Figure 1

The Mail I/O cannot resolve the SMTP (Simple Mail Transfer Protocol) Server address.

Procedure

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

027-501 POP Server RAP

BSD-ON:16.1

The Mail I/O cannot resolve the POP (Post Office Protocol) Server address.

Initial Actions

Power Off/On

Procedure

Specify the correct POP (Post Office Protocol) Server name or specify the IP address.

027-502 POP Authentication RAP

BSD-ON:16.1

The Mail I/O cannot pass POP (Post Office Protocol) authentication.

Initial Actions

Power Off/On

Procedure

Check that the login name and password for the POP (Post Office Protocol) Server are correct.

027-513 SMB Scan Client RAP

A SMB scan client does not have the right to access. (Win9x series)

Initial Actions

Power Off/On

Procedure

Check if the specified user is allowed to read/write a file in storage place on the SMB server. If not, make the setting that allows the user to access.

027-514 Host Name Solution Error RAP

A failure in resolving a problem with a host name in SMB scan

Initial Actions

Power Off/On

Procedure

Check the connection to DNS. Or check that the destination server name is entered on DNS.

027-515 DNS Server Error in SMB RAP

In SMB scan, the server was not found on DNS.

Procedure

Set DNS address.

Or set the destination server address, using IP address.

027-516 Server Connection Error in SMB RAP

In SBM scan, there is a problem with the connection to the server.

Procedure

Check that the destination SMB server and this machine are set up so that they can communicate with each other on the network. For example, check the following:

- Network Cable for connection
- TCP/IP Setup
- Communication through Port 137 (UDP), Port 138 (UDP) and Port 139 (TCP)
- If any communication is conducted beyond subnet, check WINS Server settings and check that any problem with server name address can be resolved properly

027-518 Login/Password Error RAP

A login name or password error in SMB scan.

Procedure

Check the login name (user name) and password are correct.

027-519 Scanning Picture Error RAP

There is a problem with the scanned images saving place SBM scan server.

Procedure

Check the following:.

- That the storage place is correct.
- That the specified storage place is not linked to another server for DFS setting. Directly specify the server to link to, shared name and storage place.

027-520 File Name Acquisition Failure RAP

A failure in acquiring a file name/folder on the SMB scan server.

Procedure

Check the right to access the SMB scan server.

027-521 File Name Suffix Limit Error RAP

The suffix of a SMB scan file name/folder name exceeds the limit.

Procedure

Change the file name/destination folder, or move or delete the file in the destination folder.

027-522 File Creation Failure RAP

A failure in creating a SMB scan file.

Procedure

Check the following:

- That the specified name is a file name that can be created in the storage place.
- That the specified file name is not used by another user.
- That there is no file or folder with the same name as the specified file name.

027-523 Lock Folder Creation Failure RAP

A failure in creating a SMB scan lock folder

Procedure

Check the following:

- If the existing lock directory (*.LCK) is left on the destination, manually delete it and retry the job.
- That the specified name is a folder name that can be created in the storage place.
- That there is no folder with the same name as the specified one.
- That the storage place has some space available.

027-524 Folder Creation Failure RAP

A failure in creating a SMB scan folder

Procedure

Check the following:

- That the specified name is a folder name that can be created in the storage place.
- That there is no folder with the same name as the specified one.
- That the storage place has some space available.

027-525 File Delete Failure RAP

A failure in deleting a SMB scan file.

Procedure

Check that another user does not handle the file in the specified storage place.

027-526 Lock Folder Delete Failure RAP

A failure in deleting a SMB scan lock folder

Procedure

If the existing lock directory (*.LCK) is left on the destination, manually delete it and retry the job.

027-527 Folder Delete Failure RAP

A failure in deleting a FTP scan folder

Procedure

Check that another user does not handle the file in the specified storage place.

027-528 Data Write-in Failure RAP

No space available in the specified storage place on the SMB scan data server.

Procedure

Check that the storage place has some space available.

027-529 Data Read Failure RAP

An error internal to SMB Library occurred.

Procedure

Do the same operation again. If this does not resolve the problem, contact our Customer Support Center.

027-530 Data Reading Failure RAP

[Overwrite prohibited] is selected as action to be taken when a duplicated SMB scan file name is detected.

Procedure

Select any option other than **[Overwrite prohibited]**.

027-531 Scan Filing Policy Injustice RAP

SMB scan filing policy is illegal (when Add selected).

Procedure

If **[Add]** is selected as action to be taken when a duplicated file name is detected, check that the file format is not a multi-page one.

027-532 NEXTNAME.DAT file access error RAP

NEXTNAME.DAT file access error in SMB scan

Procedure

If **[Add]** is selected as action to be taken when a duplicated file name is detected, check that NEXTNAME.DAT file is correct.

027-533 Internal Scan Error RAP

An internal error occurred in SMB scan.

Procedure

If the same operation causes this to reoccur, contact our Custom Support Center.

027-543 Server Name Specification Error RAP

A specified SMB server (NetBIOS) name is wrong.

Procedure

Check that the SMB server name is correct.

027-547 SMB Protocol error 4-007 RAP

SMB protocol error. An invalid character was detected in the specified domain name.

Procedure

Check with the network administrator for the domain name.

Also, check if the domain name set on the machine is correct, using the following procedure:

1.Enter the System Administration mode, and select [System Settings] > [System Settings] > [Network Settings] > [Remote Authentication Server/Directory Service] > [SMB Server Settings].

2.Select the SMB server to check the domain name.

027-548 SMB Protocol error 4-008 RAP

SMB protocol error. An invalid character was detected in the specified domain name.

Procedure

Check with the network administrator for the domain name.

027-549 SMB Protocol error 4-009 RAP

SMB protocol error.

Procedure

Try again. If the problem persists, contact our Customer Support Center.

027-564 SMB Protocol error 4-024 RAP

SMB protocol error. The SMB server was not found.

Procedure

Check if the connection between the authentication server and the machine has been established via a network. For example, check the following points:

-Network cable connection TCP/IP settings

-Connection via Port 137 (UDP)/Port 138 (UDP)/Port 139 (TCP)

027-565 SMB Protocol error 4-025 RAP

SMB protocol error.

Procedure

Try again. If the problem persists, contact our Customer Support Center.

027-566 SMB Protocol error 4-026 RAP

SMB protocol error. SMB (TCP/IP) is not active.

Procedure

Check on CentreWare Internet Services that SMB (TCP/IP) is active on the **[Port Status]** screen of the **[Properties]** tab.

027-569 SMB (TCP/IP) is not Started RAP

SMB (TCP/IP) has not been started.

Procedure

Check on CentreWare Internet Services that SMB (TCP/IP) is active on the **[Port Status]** screen of the **[Properties]** tab.

027-572 SMB Protocol error 4-032 RAP

SMB protocol error.

Procedure

Try again. If the problem persists, contact our Customer Support Center.

027-573 SMB Protocol error 4-033 RAP

SMB protocol error.

Procedure

Try again. If the problem persists, contact our Customer Support Center.

027-574 SMB Protocol error 4-034 RAP

SMB protocol error.

Procedure

Try again. If the problem persists, contact our Customer Support Center.

027-576 SMB Protocol error 4-036 RAP

SMB protocol error.

Procedure

Try again. If the problem persists, contact our Customer Support Center.

027-578 SMB Protocol error 4-038 RAP

SMB protocol error.

Procedure

Try again. If the problem persists, contact our Customer Support Center.

027-584 SMB Protocol error 4-044 RAP

SMB protocol error. The SMB server is in shared security mode.

Procedure

The SMB server may be on Windows 95, Windows 98, or Windows Me OS. Set the SMB server on an OS other than Windows 95, Windows 98, or Windows Me OS.

027-585 SMB Protocol error 4-045 RAP

SMB protocol error. Login disabled period.

Procedure

Check with the system administrator for the login-permitted period.

027-586 SMB Protocol error 4-046 RAP

SMB protocol error. The password has expired.

Procedure

Obtain a valid password from the system administrator.

027-587 SMB Protocol error 4-047 RAP

SMB protocol error. The password must be changed.

Procedure

Log in to Windows, and change the password. Ask the system administrator to change the setting so that you do not need to change the login password next time.

027-588 SMB Protocol error 4-048 RAP

SMB protocol error. The user is invalid.

Procedure

Ask the system administrator for validating the user.

027-589 SMB Protocol error 4-049 RAP

SMB protocol error. The user was locked out.

Procedure

Ask the system administrator for canceling the lockout status.

027-590 SMB Protocol error 4-050 RAP

SMB protocol error. The user was locked out.

Procedure

Obtain a valid user account from the system administrator. Or, ask the system administrator to extend the account expiration date.

027-591 SMB Protocol error 4-051 RAP

SMB protocol error. Users are restricted. A blank password is invalid.

Procedure

Set the password for the user.

027-599 SMB Protocol error 4-other codes RAP

SMB library internal error other than 27-547 to 27-579 has occurred.

Procedure

Operate again.

027-700 Media Failure RAP

Media Failure. There was a media failure.

Procedure

Replace the malfunctioning Media with a working Media.

027-701 Media Not Found RAP

Media Not Found. Media was not found.

Procedure

Insert the Media.

027-702 Media Data Not Found/Supported RAP

Media Data Not Found / Not Supported. The data on the media was corrupted or there was no data.

Procedure

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

027-703 Media Reader Failure/Disconnected RAP

Media Reader Failure / Disconnected. ESS cannot access the media reader.

Procedure

Check the connection between the Media Reader and the device.

If the problem persists, replace the Media Reader.

027-706 Certificate RAP

BSD-ON:16.1 Figure 1

The authentication certificate is not available.

Procedure

A procedure is not available at time of publication.

027-707 Certificate Expired RAP

BSD-ON:16.1 Figure 1

The authentication certificate expired.

Procedure

A procedure is not available at time of publication.

027-708 Certificate Valid RAP

BSD-ON:16.1 Figure 1

The authentication certificate is not credible.

Procedure

A procedure is not available at time of publication.

027-709 Certificate Revoked RAP

BSD-ON:16.1 Figure 1

The authentication certificate is revoked.

Procedure

A procedure is not available at time of publication.

027-710 Invalid S/MIME Mail RAP

BSD-ON:16.1 Figure 1

The Mail I/O received S/MIME (Secure/Multipurpose Internet Mail Extensions) mail even though S/MIME was set to “Off”.

Procedure

Enable S/MIME as required.

027-711 S/MIME Mail Certificate RAP

BSD-ON:16.1 Figure 1

The Mail I/O received the S/MIME (Secure/Multipurpose Internet Mail Extensions) signature mail but could not obtain the sender certificate.

Procedure

Request for the mail to be resent. Check the setting of the S/MIME device as required.

027-712 S/MIME Mail Certificate RAP

BSD-ON:16.1 Figure 1

The Mail I/O received the S/MIME (Secure/Multipurpose Internet Mail Extensions) signature mail with valid sender certificate but a signature verification error is detected.

Procedure

Request that mail to be resent with a valid sender certificate.

027-713 S/MIME Mail Altered RAP

BSD-ON:16.1 Figure 1

The Mail I/O received the S/MIME (Secure/Multipurpose Internet Mail Extensions) signature mail but corrupted mail is detected.

Procedure

Check the sender as required.

027-714 S/MIME Mail Invalid RAP

BSD-ON:16.1 Figure 1

The Mail I/O received the S/MIME (Secure/Multipurpose Internet Mail Extensions) signature mail with different sender mail address and signature mail address.

Procedure

Check the sender as required.

027-715 S/MIME Mail Certificate Registration RAP

BSD-ON:16.1 Figure 1

The certificate supported by S/MIME (Secure/Multipurpose Internet Mail Extensions) encrypted mail is not registered in the device.

Procedure

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

027-716 Email Signature RAP

BSD-ON:16.1 Figure 1

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

Procedure

A procedure is not available at time of publication.

027-720 Extension Server Host RAP

BSD-ON:16.1 Figure 1

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

Procedure

Check the connection to the destination Server for the application interface. Set the destination Server address for the application interface using IP address as required.

027-721 Extension Server RAP

BSD-ON:16.1 Figure 1

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

Procedure

Check the host and then repeat the operation.

027-722 Extension Server Time-out RAP

BSD-ON:16.1 Figure 1

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

Procedure

Check the host and then repeat the operation.

027-723 Extension Server Authentication RAP

BSD-ON:16.1 Figure 1

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

Procedure

Check the host and then repeat the operation.

027-724 Extension Server Access RAP

BSD-ON:16.1 Figure 1

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

Procedure

Check the host and then repeat the operation.

027-725 Extension Server Operation RAP

BSD-ON:16.1 Figure 1

Job operation of the application interface failed.

Procedure

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

027-726 Extension Server State RAP

BSD-ON:16.1 Figure 1

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

Procedure

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

027-727 Extension Server Parameters RAP

BSD-ON:16.1 Figure 1

The parameter used for the application interface is incorrect.

Procedure

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

027-728 Extension Server File RAP

BSD-ON:16.1 Figure 1

The file used for the application interface is incorrect.

Procedure

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

027-737 Template Server Read RAP

BSD-ON:16.1 Figure 1

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

Procedure

Check that “Read Authorization” is established for the storage destination server directory set as a resource.

027-739 Invalid Template Server Path RAP

BSD-ON:16.1 Figure 1

An error was received from the Server for the FTP command “CWD” and the specified path of the Job Template Pool Server cannot be found.

Procedure

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

027-740 Template Server Login RAP

BSD-ON:16.1 Figure 1

Login to the FTP Server failed.

Procedure

Set the login name and password in the Job Template file storage destination.

From another PC connected to the network, check that login to the above account is possible.

From a client PC, set a login name and password as a resource using CenterWare.

027-741 Template Server Connect RAP

BSD-ON:16.1 Figure 1

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

Procedure

Connect the network cable from the machine correctly.

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

Perform the “ping” test on the destination server from the PSW.

From a client PC, check that FTP connection to the destination server is possible.

027-742 HDD File System RAP

BSD-ON:16.1 Figure 1

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

Initial Actions

Power Off/On

Procedure

Replace the HDD (PL 13.2 WC 7228/35/45 PL 13.4 WC7328/35/45).

027-743 Template Server Install RAP

BSD-ON:16.1 Figure 1

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

Procedure

Set the parameters related to the Job Template Pool Server.

027-744 Template Address RAP

BSD-ON:16.1 Figure 1

An error occurred while recalling the DNS Resolution Library.

Procedure

Check the connection to the DNS (Domain Name System). Check that the Job Template Pool Server domain name is registered in the DNS.

027-745 Template Address Server RAP

BSD-ON:16.1 Figure 1

The DNS Server address is not set during address resolution.

Initial Actions

Power Off/On

Procedure

Set the DNS address. Check the Job Template Pool Server address using IP address.

027-746 Job Template Pool Server RAP

BSD-ON:16.1 Figure 1

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

Procedure

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

027-750 Fax Document Inhibited RAP

BSD-ON:16.1 Figure 1

iFAX Document E-mail and iFAX Transfer instructions were received when iFAX Document E-mail and iFAX Transfer is prohibited.

Procedure

Change the transfer setting to receive iFAX.

027-751 Job Template Analysis RAP

BSD-ON:16.1 Figure 1

An error is detected when analyzing the given instruction.

Procedure

Verify the job set up selections.

027-752 Required User Entry Not Entered RAP

BSD-ON:16.1 Figure 1

The instruction to start the job is issued but the required user entry not entered.

Procedure

Do not link the entry box to instructions that require user entry.

Set preset values for the items in the instruction requiring user entry.

027-753 Job Flow Service Disabled RAP

BSD-ON:16.1 **Figure 1**

The system attempted to create a job to recall an external service while the Job Flow Service is invalid.

Procedure

Ask customer to enable the Job Flow Service.

027-760 XJT Command Failure RAP

XJT Command Failure. A command from an XDOD client was incorrect.

Procedure

Check the following:

Check 1: Check if the parameter setting specified in XDOD client is out of system specifications.

Check 2: Check the XDOD client and Controller versions, and then save the XDOD job ticket and contact Support for checking.

NOTE: *It would be the best if a PRN file can be obtained, but it is not possible from the XDOD client.*

027-761 Web Print Time Out RAP

Web print job is received but printing cannot be started within “Time limit of on-demand printing”.

Procedure

To take any of the following actions:

(1) To retry printing with reduced number of document when on-demand printing is requested for multiple documents using external access function.

(2) To enter machine administrator mode to elongate the time or to set 0 from [System setting/Registration]>[System setting]>[System clock/Timer setting]>[Time limit of on-demand print], when the problem still recurs.

NOTE: When on-demand print using external access function is requested for multiple documents, printing process time until the last document is accepted is not considered. Therefore, timeout may occur before the last document is accepted, with large-volume document and complicated document requiring longer data processing time. Set Time limit according to form of document to be printed.

027-762 Illegal Web PrintJob Ticket RAP

On-demand print using external access function is requested to machine but designated job ticket is not correct as follows:

-Error overwrite of job ticket due to machine software failure

-Error overwrite of job ticket due to external server bug of sender

-Error overwrite of job ticket due to network problem

-Intentional falsification of job ticket

Procedure

Retry print request.

027-770 PDL Error RAP

PDL Error

Procedure

This Fault Code may occur in the following situation:

1. When a job contains a PDL error.
2. When a job size exceeds 4GB.

If the job was created by a print driver not equipped with DFE. Create the job again using the print driver equipped with the DFE and resubmit the job.

027-771 DFE Disk Full RAP

DFE Disk Full

Procedure

Change the job conditions and try again.

Delete unnecessary Files from the HD in the DFE.

027-796 E-mail Not Printed RAP

BSD-ON:16.1 Figure 1

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

Procedure

Ask customer to change the settings and repeat the operation.

Ask customer to check the remote machine.

If the problem persists, replace the FAX PWB (PL 9.4).

If the problem persists, replace the G3 PWB (PL 9.4).

If the problem persists, replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC7328/35/45).

027-797 Invalid Output Destination RAP

BSD-ON:16.1 Figure 1

E-mail was received with E-mail to Box and E-mail to Fax not selected.

Procedure

Change the settings and repeat the operation.

If the problem persists check the remote machine.

Replace the FAX PWB (PL 9.4).

If the problem persists, replace the G3 PWB (PL 9.4).

If the problem persists, replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC7328/35/45).

033-363 Fax Control RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There was an ESS reset when the FAX PWB did not respond.

Initial Actions

Power Off/On

Procedure

Check the electrical connections on the FAX PWB.

If the problem persists, replace the FAX PWB (PL 9.4).

033-710 Fax Control RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The specified document does not exist.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel the job and resend.

033-711 Page Error

Specified page does not exist; or specified page has data error.

Procedure

Switch the power off then on. Re-try the Fax job.

033-712 Fax Control RAP

BSD-ON:16.1 **Figure 1**

Memory is at maximum limit.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel the job and resend.

033-713 Fax Control RAP

BSD-ON:16.1 **Figure 1**

The Chain-Link does not exist.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel the job and resend.

033-714 Scan Error

Scan Error (no specified doc). Data is not registered.

Procedure

Switch the power off then on. Re-try the Fax job.

033-715 Fax Control RAP

BSD-ON:16.1Figure 1

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

Initial Actions

Power Off/On

Procedure

Ask customer to cancel the job and resend.

033-716 Fax Control RAP

BSD-ON:16.1 Figure 1

The specified mailbox does not exist.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel the job and resend.

033-717 Fax Control RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

Verification of the specified password failed.

Procedure

Perform following as required

1. Verify machine is connected to dedicated analog line (not ISDN).
2. Verify that no password is set.

   Customer can perform following steps if system admin is accessible with code 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 Fax Control RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

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

Initial Actions

Power Off/On

Procedure

Ask customer to cancel the job and resend.

033-719 Fax Control RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

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

Procedure

Ask customer to cancel the job and resend.

If the problem persists, check the Fax line connection (telephone line).

If the problem persists, check the electrical connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

033-720 Document Create Failure

Specified document cannot be generated.

Procedure

Switch the power off then on. Re-try the Fax job.

033-721 Fax Control RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The specified page cannot be created.

Procedure

Ask customer to cancel the job and resend.

033-722 Fax Control RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

A stored Fax job is cancelled.

Procedure

Ask customer to resend.

033-724 Fax Control RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

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

Procedure

Ask customer to cancel the job and resend in smaller parts.

If the problem persists refer customer to User Guide to find information on lowering memory usage.

033-725 Fax Control RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

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

Initial Actions

Power Off/On

Procedure

Ask customer to request a re-resend.

033-726 Fax Control RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

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

Procedure

Ask customer to verify that two-sided printing is not available.

033-727 Fax Control RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

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

Initial Actions

Power off/on

Procedure

Ask customer to request a re-resend.

033-728 Fax Control RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

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

Procedure

Ask customer to cancel the job and resend.

033-730 Fax Recovery Error

Fax job recovery error.

Procedure

Switch the power off then on. Re-try the Fax job.

033-731 Fax Control RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

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

Procedure

Ask customer to request a re-resend.

033-732 Fax Control RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

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

Procedure

Ask customer to request a re-resend.

033-733 Fax Control RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

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

Procedure

Ask customer to cancel the job and resend.

033-734 Fax Control RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

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

Procedure

Ask customer to cancel the job and resend.

033-735 Fax Control RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

An error occurred in reserving fax receive memory.

Procedure

Ask customer to request a re-resend.

033-736 Fax Control RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

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

Procedure

Ask customer to cancel the job and resend.

033-737 Fax Control RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

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

Initial Actions

Power off/on

Procedure

Ask customer to cancel the job and resend.

033-738 Fax Control RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

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

Procedure

Ask customer to cancel the job and resend.

033-740 Fax Control RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The user canceled immediate printing upon receiving.

Procedure

Ask customer to request a re-resend.

033-741 Fax Control RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

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

Procedure

Ask customer to request a re-resend.

033-742 Fax Control RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

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

Procedure

Ask customer to request a re-resend.

033-743 Fax Control RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

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

Procedure

Ask customer to request a re-resend.

033-744 Fax Control RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

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

Procedure

Ask customer to request a re-resend.

033-745 Fax Control RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

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

Procedure

Ask customer to request a re-resend.

033-746 Fax Control RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

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

Procedure

Ask customer to request a re-resend.

033-747 Fax Control RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

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

Procedure

Ask customer to request a re-resend.

033-749 Fax Control RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

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

Initial Actions

Power off/on

Procedure

Ask customer to cancel the job and resend.

033-750 Fax Control RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

Enlargement of error free image data failed when image data was retrieved from the FAX PWB.

Procedure

Ask customer to cancel the job and resend.

033-751 Activity Report Suspended RAP

When a communication management report occurred at a print prohibited time period, the machine just goes into sleep mode and the report output is postponed.

Procedure

No action is necessary as it will automatically restart after exiting the print prohibited time period.

033-755 Fax Printing is Canceled RAP

Fax document printing is canceled as fax service is inoperative.

Initial Actions

Power Off/On

Procedure

(1) Check Fax cable connection

(2) Verify Fax item error code (133-xxx, 134-xxx) occurred with the machine Control Panel display and Fault History report, and follow recovery procedure for the relevant Fault Code.

033-790 Fax Control RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

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

Procedure

Ask customer to cancel the job and resend.

033-791 Fax Control RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

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

Procedure

Ask customer to cancel the job and resend.

033-792 Fax Control RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The RCC Service was immediately terminated.

Procedure

Ask customer to cancel the job and resend.

034-211 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

Failure was detected on the Fax Option Slot 1 PWB.

Procedure

Check the installation of the PWB in Slot 1 on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-212 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

Failure was detected on the Fax Option Slot 2 PWB.

Procedure

Check the installation of the PWB in Slot 2 on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-500 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is incorrect information in the dial data (Recipient telephone number).

Procedure

Ask customer to verify the Fax number and resend.

034-501 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The specified channel is not installed.

Procedure

Ask customer to verify that the specified channel is installed.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-505 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

Transmission exceeded memory capacity.

Procedure

Ask customer to cancel the job and resend.

034-506 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

A send error is detected in the Recipients Print Sets function when the receiving Fax does not support remote collating and copying.

Procedure

Ask customer to reconfigure the job and resend.

034-507 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

One of the following occurred.

- The password is incorrect.
- An error in the mailbox number is detected.
- No documents for polling are found.

Procedure

Ask customer to check if the password, mailbox number or document for valid polling.

Ask customer to cancel the job and then resend.

034-508 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The Fax controller sent a reject command signal and stopped the transmission.

Procedure

Check the Fax line connection (telephone line).

Ask customer to allow a 5 minute recovery time and then resend.

034-509 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The Fax controller stopped the transmission after receiving the invalid procedure signal from the receiving Fax.

Procedure

Check the Fax line connection (telephone line).

Ask customer to cancel the job and then resend.

034-510 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The Fax controller stopped the transmission after receiving the reject command signal from the receiving Fax.

Procedure

Check the Fax line connection (telephone line).

Ask customer to allow a 5 minute recovery time and then resend.

Ask customer to cancel the job and then resend.

034-511 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The receiving Fax is unable to send.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and then resend.

034-512 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

An infinite loop was detected at the receiving Fax relay broadcast.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and then resend.

034-513 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The Fax controller received an illegal command from the receiving Fax during remote maintenance.

Procedure

Check the Fax line connection (telephone line).

Ask customer to cancel the job and then resend.

034-514 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The Fax controller received a remote maintenance request from the receiving Fax but the Fax controller does not support this function.

Procedure

Check Fax setup.

Ask customer to cancel the job and then resend.

034-515 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The Fax controller received a DIS signal from the receiving Fax.

A DCS signal is received when this function is not supported.

An illegal command was received.

Procedure

Check the Fax line connection (telephone line).

Ask customer to cancel the job and then resend.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-519 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The number of recipients exceeded the limit.

Procedure

Ask customer to reduce the number of recipients and then resend.

034-520 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The number of services exceeded the limit.

Procedure

Ask customer to reduce the number of selections and then resend.

034-521 Internal I/F Error RAP

Service designated with SI does not exist (This error may not be sent back due to cross sequence fix).

Initial Actions

Power OFF/ON

Procedure

Verify software version, if required, upgrade to the latest version.

034-522 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is no phone line available for manual transmission when manual transmission is disabled.

Procedure

Ask customer to allow a 5 minute recovery time and then resend.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-523 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The Fax controller was unable to accept the service when it is in a prohibited state.

Procedure

Ask customer to allow a 5 minute recovery time and then resend.

034-527 Dial Control Error RAP

Dial Control Error

Initial Actions

Power OFF/ON

Procedure

Verify software version, if required, upgrade to the latest version.

034-528 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

A manual transmission was requested during dialing.

Procedure

Ask customer to resend.

034-529 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

When confirming and receiving print jobs, the jobs cannot be printed when the document size does not match the paper size.

Procedure

Ask customer to check if the paper tray guides are set correctly.

Ask customer to check the size of the paper loaded in the tray.

If the problem persists, perform GP 13 Fax Checkout.

034-530 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

DTMF I/F Time-out is detected when an operation did not occur within the specified time.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-550 Write to FaxCard-ROM error detection RAP

An error has occurred during the process of writing data to the FaxCard-ROM. (During DLD method).

Procedure

Retry job. If retry failed, replace the FaxCard-ROM and perform VerUP operation on the DLD method again.

034-700 GCPLock-G3DicepBusy-CodecHang RAP

-GCP lock Date task noRTC ACK). Hardware failure, software I/F error.

-G3 Dicep not changed to idle status, causing timeout.

-CODEC hang-up.

Initial Actions

Power OFF/ON

Procedure

Verify software version, if required, upgrade to the latest version.

034-701 Software Reset RAP

Software Reset.

Initial Actions

Power OFF/ON

Procedure

Verify software version, if required, upgrade to the latest version.

034-702 Fax Communication RAP

BSD-ON:16.1 **Figure 1**

Unable the to initiate the call without the address specified, no destination specified.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 2 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-703 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The D Channel was deleted from the network.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-704 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is a ISDN D Channel error.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-705 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

Layer 1 is deactivated with the power on.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-706 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

Layer 1 is deactivated with the power off.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-707 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is an internal fax communication error during preparation to transmit the fax.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-708 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is an internal fax communication error during preparation to transmit the fax.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-709 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is an internal fax communication error during preparation to transmit the fax.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-710 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is an internal fax communication error during preparation to transmit the fax.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-711 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

Fax controller is waiting for a data link time-out.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-712 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is an internal processing error.

Procedure

Ask customer to cancel the job and resend.

034-713 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is a transmission time-out.

Procedure

Ask customer to cancel the job and resend.

034-714 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is a wait release time-out.

Procedure

Ask customer to cancel the job and resend.

034-715 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is a wait release complete time-out.

Procedure

Ask customer to cancel the job and resend.

034-716 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is a connection time-out.

Procedure

Ask customer to cancel the job and resend.

034-717 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is an internal fax communication error during preparation to transmit the fax.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-718 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is an internal fax communication error during preparation to transmit the fax.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-719 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is an internal fax communication error during preparation to transmit the fax.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-720 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is an internal fax communication error during preparation to transmit the fax.

Procedure

Ask customer to cancel the job and resend.

034-721 Format, Contents Error RAP

Upper layer primitive format error, Content error.

Initial Actions

Power OFF/ON

Procedure

Verify software version, if required, upgrade to the latest version.

034-722 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is an internal fax communication error during preparation to transmit the fax.

Procedure

Ask customer to cancel the job and resend.

034-723 No Timer Assigned RAP

No assigned time.

Initial Actions

Power OFF/ON

Procedure

Verify software version, if required, upgrade to the latest version.

034-724 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is an internal fax communication error during preparation to transmit the fax.

Procedure

Ask customer to cancel the job and resend.

034-725 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is an internal fax communication error during preparation to transmit the fax.

Procedure

Ask customer to cancel the job and resend.

034-726 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The I/F buffer is busy.

Procedure

Ask customer to allow a 5 minute recovery time and then resend.

034-727 No Reply for 3 sec. for 1300Hz RAP

No response over 3 sec. at 1300Hz incoming call.

Initial Actions

Power OFF/ON

Procedure

Verify software version, if required, upgrade to the latest version.

034-728 Invalid Destination RAP

Calling is disabled due to wrong dial data.

Initial Actions

Power OFF/ON

Procedure

Verify software version, if required, upgrade to the latest version.

034-729 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The line was cut off when sending In-Channel PB.

Procedure

Ask customer to cancel the job and resend.

034-730 Fax Communication RAP

BSD-ON:16.1 Figure 1

There is a conflict between incoming and outgoing calls

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-731 Fax Communication RAP

BSD-ON:16.1 Figure 1

The network cutoff the Fax setup.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-732 Fax Communication RAP

BSD-ON:16.1 Figure 1

The network cutoff the Fax setup after a time-out.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-733 Fax Communication RAP

BSD-ON:16.1 Figure 1

There is a sequence error or message incompatibility.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-734 HI Task Internal Error RAP

HI Task internal error.

Initial Actions

Power OFF/ON

Procedure

Verify software version, if required, upgrade to the latest version.

034-735 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The connection is limited to D channel.

Procedure

Ask customer to cancel the job and resend.

034-736 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The Fax network sent the wrong notice.

Procedure

Ask customer to cancel the job and resend.

034-737 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The control failed during call response.

Procedure

Replace the FAX PWB (PL 9.4).

If the problem persists, replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

034-738 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is a Layer 1 start up or activation error.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-739 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

Layer 1 synchronization is lost.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-740 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is a frame transmission error.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-741 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is a frame send error.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-742 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

A frame send error is detected.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-743 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

When sending frames, the DMA (Dynamic Memory Access) was abnormally terminated.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, replace the FAX PWB (PL 9.4).

034-744 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

An incorrect channel was terminated.

Procedure

Ask customer to cancel the job and resend.

034-745 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

A call is initiated to the configured channel.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-746 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There are no usable lines.

Procedure

Ask customer to cancel the job and resend.

Check the Fax line connection (telephone line).

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, check the connections on the FAX PWB.

If the problem persists, replace the FAX PWB (PL 9.4).

034-747 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The network switching equipment is busy.

Procedure

Ask customer to cancel the job and resend.

Check the Fax line connection (telephone line).

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, check the connections on the FAX PWB.

If the problem persists, replace the FAX PWB (PL 9.4).

034-748 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The specified line can not be used.

Procedure

Ask customer to cancel the job and resend.

034-749 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is a network busy error.

Procedure

Ask customer to cancel the job and resend.

034-750 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is an error on the network.

Procedure

Ask customer to cancel the job and resend.

034-751 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is a temporary error on the network.

Procedure

Ask customer to cancel the job and resend.

034-752 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The receiving Fax is busy.

Procedure

Ask customer to cancel the job and resend.

034-753 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The receiving Fax is not responding.

Procedure

Ask customer to cancel the job and resend.

034-754 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The receiving Fax is not responding.

Procedure

Ask customer to cancel the job and resend.

034-755 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The receiving Fax refused the call.

Procedure

Ask customer to cancel the job and resend.

034-756 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is a fault at the receiving Fax.

Procedure

Ask customer to cancel the job and resend.

034-757 Fax Communication RAP

There is a fault at the receiving Fax.

Procedure

Ask customer to cancel the job and resend.

034-758 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The destination Fax number is invalid or incorrect.

Procedure

Ask customer verify the Fax number and resend.

034-759 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is a network error.

Procedure

Ask customer to cancel the job and resend.

034-760 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is no line or route to the destination.

Procedure

Ask customer to cancel the job and resend.

034-761 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The Fax number format is invalid.

Procedure

Ask customer verify the Fax number and resend.

034-762 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is a problem with the destination.

Procedure

Ask customer to cancel the job and resend.

034-763 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

Fax communication with the receiving Fax is not authorized.

Procedure

Ask customer to verify the Fax number and resend.

034-764 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

Communication capability is not configured.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-765 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is a feature limit error.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-766 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The selected communication is not implemented.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-767 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The selected mode is not implemented.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-768 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

Restricted digital information is insufficient for Fax operation.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-769 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is a feature error.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-770 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is a reply and response to status query.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-771 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

Access information was discarded.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-772 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is an internal connection error.

Procedure

Ask customer to cancel the job and resend.

034-773 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

An invalid Fax number was dialed.

Procedure

Ask customer to verify the Fax number and resend.

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-774 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

An invalid line or channel was specified.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-775 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

An unspecified invalid message was received.

Procedure

Ask customer to cancel the job and resend.

034-776 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

A required information element is missing.

Procedure

Ask customer to cancel the job and resend.

034-777 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

An undefined type of message was received.

Procedure

Ask customer to cancel the job and resend.

034-778 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

An incorrect message was received.

Procedure

Ask customer to cancel the job and resend.

034-779 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

No information was received, or the information is not defined.

Procedure

Ask customer to cancel the job and resend.

034-780 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

Invalid information was received.

Procedure

Ask customer to cancel the job and resend.

034-781 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

A received message is not compatible with the call status.

Procedure

Ask customer to cancel the job and resend.

034-782 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

An error cleared due to time-out.

Procedure

Ask customer to cancel the job and resend.

034-783 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

An unspecified protocol error occurred.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-784 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The destination Fax number changed.

Procedure

Ask customer to verify the Fax number and resend.

034-785 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

An incompatible destination error was received.

Procedure

Ask customer to verify the Fax number and resend.

034-786 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The call identity is not in use.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-787 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The call identity is in use.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, replace the FAX PWB (PL 9.4).

034-788 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The cause for a Fax failure is not identified.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-789 Fax Communication RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is a presentation of an illegal event.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-790 Fax Communication Channel 0 RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

Channel 0 outside line is not connected.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-791 Fax Communication Channel 1 RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

Channel 1 outside line is not connected.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-792 Fax Communication Channel 2 RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

Channel 2 outside line is not connected.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-793 Fax Communication Channel 3 RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

Channel 3 outside line is not connected.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-794 Fax Communication Channel 4 RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

Channel 4 outside line is not connected.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-795 Fax Communication Channel 5 RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

Channel 5 outside line is not connected.

Procedure

Check the Fax line connection (telephone line).

If the problem persists, check the connections on the FAX PWB.

If the problem persists, perform GP 13 Fax Checkout.

If the problem persists, replace the FAX PWB (PL 9.4).

034-796 Fax Communication Channel RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

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

Procedure

Ask customer to verify the Fax number and resend.

034-797 Communication Parameter Error RAP

Job error communication option parameter has error.

Initial Actions

Power OFF/ON

Procedure

Verify software version, if required, upgrade to the latest version.

034-798 Data Parameter Error RAP

Job error communication data parameter has error.

Initial Actions

Power OFF/ON

Procedure

Verify software version, if required, upgrade to the latest version.

034-799 Auto Dial Without Dial Data RAP

Auto Dial is activated but no dial data is found.

Initial Actions

Power OFF/ON

Procedure

Verify software version, if required, upgrade to the latest version.

035-550 Write to FaxG3-ROM error detection RAP

An error has occurred during the process of writing data to the FaxG3-ROM. (During DLD method).

Procedure

Retry job. If retry failed, replace the FaxG3-ROM and perform VerUP operation on the DLD method again.

035-700 Fax Protocol RAP

BSD-ON:16.1/34.1

A modem error occurred.

Procedure

Check the electrical connections on the FAX PWB (PL 9.4).

If the problem persists perform GP 13 Fax Checkout.

If the problem persists replace the FAX PWB (PL 9.4).

035-701 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The disconnect signal was not received from the receiving Fax after transmission was not established, or there is a time-out.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-702 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

For the NSS/DTC (Non-Standard Setup/Digital Transmit Command) signal sent from the Fax controller, the DCN (Disconnect) signal was received from the receiving Fax, or transmission was rejected by the Select Receive function on the receiving Fax.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

Check the connections on the FAX PWB (PL 9.4).

035-703 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

DCN (Distributed Computer Network) signal was received from the receiving Fax when sending in Phase-B (pre-message processing).

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-704 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

Polling could not be done because the receiving Fax does not support Polling Send function, or the stored document/original was not set.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-705 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The NSS (Non-Standard Facilities Set-up) signal was sent out three times but there was no response from the receiving Fax, or the DCN (Disconnect) signal was received.

Resending of DCS/NSS (Digital Command Signal/Non-Standard Facilities Set-up) signal exceeded the limit.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-706 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

When sending the NSS (Non-Standard Facilities Set-up) signal, fall back could not be done or a fall back error occurred (In User/Auto Resend Standby).

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-707 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The password does not exist or it was inconsistent.

Transmission was received from another party other than the selected party for transmission.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-708 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The post command was sent out three times but there was no response from the receiving Fax, or a DCN (Disconnect) signal was received.

Post messages resend over the limit.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-709 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The Fax controller received a RTN (Retrain Negative) signal from the receiving Fax.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

If the problem persists reduce the send speed and then repeat the operation.

035-710 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The Fax controller received a PIN (Procedure Interrupt Negative) signal from the receiving Fax.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-711 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

DCN (Disconnect) signal or an invalid command was received from the receiving Fax when sending in Phase-D.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-712 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

A NSC (Non-Standard Facilities Command) signal resulted in one of the following:

- The password was incorrect.
- Stored documents/originals for polling was not set on the receiving Fax.
- Document jam on the receiving Fax.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-713 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

No response signal was returned from the receiving Fax after the FTT (Failure To Train) signal was sent.

Procedure

Fax phone line may also carry a DSL (Digital Subscriber Line) internet signal, but this is not supported by the hardware. Fax requires an analog only phone line (can be used for voice only).

035-714 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

A DCN (Disconnect) signal was returned from the receiving Fax to the NSC/DTC (Non-Standard Facilities Command/Digital Transmit Command) signal sent from the Fax controller for one of the following:

- Incorrect password
- No originals for polling
- Paper jam on the receiving Fax

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-715 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

A password mismatch interrupted polling.

Procedure

Ask customer to cancel the job, verify any passwords, and resend.

035-716 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is a time out or there is no post message.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-717 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

An RTN (Retrain Negative) signal was sent to the receiving Fax.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

If the problem persists reduce the send speed and then repeat the operation.

035-718 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

When no data was sent from the receiving Fax, or after receiving more than 1 page manually, the receiving Fax changed the resolution or the document size and the Fax controller returned to Phase-B (pre-message processing), but no data was sent from the receiving Fax.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-719 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

A busy tone was detected in receive Phase-B (pre-message processing).

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-720 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The receiving Fax has one of the following problems:

- A compatibility problem
- Can not receive the DIS/NSF/NSC/DTC (DIgital Identification/Non-Standard Facilities/ Non-Standard Facilities Command/Digital Transmit Command) signals
- Memory is full

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-721 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

DCN (Disconnect) signal was received from the receiving Fax when receiving in Phase-B (pre-message processing).

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-722 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The frame length exceeded 3.45sec in 300bps command/response.

Procedure

Ask customer to cancel the job and resend.

035-723 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The Fax controller could not receive the CD (Collision Detection) signal within 3mins after receiving the signal from the receiving Fax.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-724 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The Fax controller sent a FTT (Failure To Train) signal after receiving a DCN (Disconnect) signal from the receiving Fax.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-725 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The receiving Fax does not support the relay broadcast and mailbox functions.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend. If the resend fails Fax transmission cannot be used and another method of transmitting the data is required.

035-726 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The Fax controller did not receive the TRN (Train) signal within 10 seconds after Phase-C (message transmission).

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-727 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

More than 50% of decoding errors were detected when 148mm of G3 image information was received in Phase-C (message transmission).

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-728 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

One of the following occurred:

- The Fax controller did not detect a normal line within 1 minute after it had begun to receive G3 image information.
- The Fax controller did not detect the EOL (End of Line) signal within 13sec (default) when receiving.
- The Fax controller could not receive the EOL (End of Line) signal within 10sec in Phase-C (message transmission).

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-729 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is a time-out drop-out when receiving the image information.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-730 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

During training or when sending a command in high speed in Phase-C (message transmission), an error is detected when the modem is not turned on when a HDLC (High Level Data Link Control) signal was sent.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-731 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

An error was detected during V.8 internal Fax attributes selections.

Procedure

Ask customer to cancel the job and resend.

035-732 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The V.34 CD (Collision Detection) is off.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-733 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is an error in V.34 mode (33.6 KBPS rate).

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-734 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

During Polling Receive, there was no stored documents/originals for polling, or the polling operation/settings were missed during V.8 internal Fax attributes selections.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-735 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

During Polling Send, there was no stored documents/originals for polling or the polling operation/settings was missed on the Fax controller during V.8 internal Fax attributes selections.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-736 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The Fax controller received the DCN (Disconnect) signal from the receiving Fax, or no response was returned from the receiving Fax to the CTC (Continue To Correct) signal sent by the Fax controller.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-737 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The Fax controller received the DCN (Disconnect) signal, or no response was returned from the receiving Fax to the EOR (End Of Retransmission) signal sent by the Fax controller.

Resending of CTC/EOR (Continue To Correct/End Of Retransmission) signal exceeded the limit.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-738 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The Fax controller received the DCN (Disconnect) signal from the receiving Fax, or no response was returned from the receiving Fax to the RR (Receive Ready) signal sent by the Fax controller.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-739 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is a time-out after initial 2 way transmissions are established.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-740 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

After the EOR (End Of Re-transmission) signal was sent, transmission stopped or the EOR-Quit signal was sent from the Fax controller.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-741 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There is a time-out during Phase-C (message transmission).

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-742 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

After the EOR (End of Re-transmission) signal was sent, the ERR (Response For End Of Transmission) signal was returned, or the EOR-Q (End Of Re-transmission-Quit) signal was received by the Fax controller.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-743 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The receiving Fax can not receive a SUB (Sub-Address).

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-744 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The receiving Fax can not receive a password.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-745 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The receiving Fax does not support the SEP (Separator) function.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-746 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The Fax controller detected one of the following:

- No DT1 signal before dialing.
- A BT1/BT2 signal before dialing.
- A CT1 signal before dialing (a state in which PBX is busy).
- A CT2 signal before dialing.
- No DT1 signal during dialing (This could happen when an outside line was used without any signal sending from the PBX).
- A BT1/BT2 signal during dialing.
- A CT1/CT2 signal during dialing.
- No 2nd DT2 signal during dialing.
- A BT1/BT2 signal during dialing.
- A CT1/CT2 signal during dialing.
- No third DT3 signal during dialing.
- A BT1/BT2 signal during dialing.
- A CT1/CT2 signal during dialing.
- A BT1/BT2 signal after dialing.
- A CT1/CT2 signal after dialing.
- No DT signal from the PBX before dialing.
- A BT signal from the PBX before dialing.
- A CT signal from the PBX before dialing.
- A BT signal from the PBX after dialing.
- A CT signal from the PBX after dialing.

Procedure

Check the electrical connections on the FAX PWB (PL 9.4).

If the problem persists perform GP 13 Fax Checkout.

If the connections are good then there is a problem with the customers PBX (Private Branch Exchange) line or the receiving fax.

035-747 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The operation was stopped during dialing by using the Stop button.

Procedure

The customer terminated the transmission. Ask customer to resend the job.

035-748 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The operation was stopped during transmission by using the Stop button.

Procedure

The customer terminated the transmission. Ask customer to resend the job.

035-749 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

After dialing, the Fax controller did not receive the CED/DIS (Called Station Identification/Digital Identification Signal) from the receiving Fax, causing a transmission error or re-dial to exceed the limit.

Procedure

There is a problem with the receiving Fax. Ask customer to cancel the job and resend.

035-750 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The machine power failed during transmission, causing an error.

Procedure

Ask customer to cancel the job and resend.

035-751 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The operation was stopped during document sending by using the Stop button.

Procedure

Ask customer to cancel the job and resend.

035-752 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

The number of jobs exceeded the limit.

Procedure

Ask customer to cancel the job and resend in separate parts.

035-753 Fax Memory Full RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

This fault occurs in Fax receive of 999 sheets or more. Image information memory full, (File full, append record error)

Procedure

Check with sender to divide the sent job.

035-754 File Management Memory Full RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

File management area full

Initial Actions

Power OFF/ON

Procedure

Check S/W Version, if required, upgrade to the latest version.

035-755 File Add Page Error RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

File append record error.

Initial Actions

Power OFF/ON

Procedure

Check S/W Version, if required, upgrade to the latest version.

035-756 Cannot Add Page RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

No additional data of file.

Initial Actions

Power OFF/ON

Procedure

Check S/W Version, if required, upgrade to the latest version.

035-757 No Receive Page RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

No received page.

Initial Actions

Power OFF/ON

Procedure

Check S/W Version, if required, upgrade to the latest version.

035-758 No Specified File or Page RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

No designated file or page.

Initial Actions

Power OFF/ON

Procedure

Check S/W Version, if required, upgrade to the latest version.

035-759 No Specified Job RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

No relevant job at communication, reservation cancel.

Initial Actions

Power OFF/ON

Procedure

Check S/W Version, if required, upgrade to the latest version.

035-760 No Specified Job RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

No relevant job at communication, reservation cancel.

Initial Actions

Power OFF/ON

Procedure

Check S/W Version, if required, upgrade to the latest version.

035-761 File Processing Error RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

Timeout occurs in file error COMM file access or file handler does not send back error code at error occurrence.

Initial Actions

Power OFF/ON

Procedure

Check S/W Version, if required, upgrade to the latest version.

035-762 Fax Protocol RAP

BSD-ON:16.1/34.1 Figure 1 / Figure 1

There was a break in the ISDN (Integrated Services Digital Network) transmission.

Procedure

Check the electrical connections on the FAX PWB (PL 9.4).

Ask customer to cancel the job and resend.

036-500 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-501 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-502 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-503 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-504 Fax Parameter RAP

BSD-ON:34.1Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-505 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-506 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-507 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-508 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-509 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-510 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-511 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-512 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-513 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-514 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-515 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-516 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-517 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-518 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-519 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-520 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-521 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-522 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-523 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-524 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-525 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-526 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-527 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-528 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-529 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-530 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-531 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-532 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-533 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-534 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-535 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-536 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-537 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-538 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-539 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-540 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-541 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-542 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-550 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

Procedure

Perform GP 13 Fax Checkout.

036-700 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-701 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-702 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-703 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-704 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-705 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-706 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-707 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-708 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-709 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-710 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-711 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-712 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-713 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-714 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-715 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-716 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-717 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-718 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-719 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-720 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-721 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-722 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-723 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-724 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-725 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-726 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-727 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-728 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-729 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-730 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-731 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-732 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-733 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-734 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-735 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-736 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-737 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-738 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-739 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-740 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-741 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-742 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-743 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-744 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-745 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-746 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-747 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-748 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-749 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-750 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-751 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-752 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-753 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-754 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-755 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-756 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-757 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-758 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-759 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-760 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-761 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-762 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-763 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-764 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-765 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-766 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-767 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-768 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-769 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-770 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-771 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-772 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-773 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-774 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-775 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-776 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-777 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-778 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-779 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-780 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-781 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-782 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-783 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-784 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-785 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-786 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-787 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-788 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-789 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-790 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-791 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-792 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-793 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-794 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-795 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-796 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-797 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-798 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

036-799 Fax Parameter RAP

BSD-ON:34.1 Figure 1

There is a fax error with either the Fax controller or the receiving fax.

Procedure

Perform GP 13 Fax Checkout.

If the checkout is good then there is a problem with the receiving fax. Ask customer to cancel the job and resend.

041-500 IOT Download Failure

BSD-ON:16.1 Figure 1

IOT software download failure.

Initial Actions

- Ensure the USB Cable is connected securely and is not damaged. If you have another USB Cable use it and try the download again.

Procedure

- Perform a forced IIT download. If successful, the ESS PWB is good.
- Perform a forced IOT download. If successful, the machine is repaired, return to Call Flow.
- If the forced IOT download was not successful replace the MCU PWB (REP 1.2).

041-501 IOT Download Failure

BSD-ON: Figure 1

IOT software download failure.

Initial Actions

- Ensure the USB Cable is connected securely and is not damaged. If you have another USB Cable use it and try the download again.

Procedure

- Perform a forced IIT download. If successful, the ESS PWB is good.
- Perform a forced IOT download. If successful, the machine is repaired, return to Call Flow.
- If the forced IOT download was not successful replace the MCU NVM PWB (REP 1.2.1).

062-300 DADF Open

BSD-ON: 6.3 (Figure 3)

The DADF was opened during the DADF Job.

Procedure

Enter Component Control [062-300] and place a magnet over the Platen Open Switch (PL 18.4). **The display changes.**

Y N

Remove the Platen Glass. Remove IIT/IPS Cover (PL 18.1). Connect a jumper between P/J722-A2 and ground. **The display changes.**

Y N

Replace the IPS/IIT PWB (PL 18.3).

Check the circuit of the Platen Open Switch for an open circuit. If the wires are good, replace the Platen Open Switch (PL 18.3).

Replace the magnet in the DADF (PL 18.4).

062-360 Carriage Position

BSD-ON: 6.4 (Figure 4)

CRG Position error was detected.

Procedure

Switch the power off. Remove the Platen Glass. Manually move the Full Rate Carriage. **The Carriage moves easily.**

Y N

Repair as required (PL 18.5).

Switch the power on. Enter Component Control [062-212] and press Start. Manually move the Full Rate Carriage to actuate the IIT Registration Sensor. **The display changes.**

Y N

Then the IIT/IPS PWB P/J722 is more accessible. Disconnect P/J722 at IIT/IPS PWB. **+5 VDC is measured between P/J722-A1 and ground (-).**

Y N

Replace the IIT/IPS PWB (PL 18.3).

Check the wires between the IIT/IPS PWB P/J722 and the IIT Registration Sensor for visible damage. **The wires are damaged.**

Y N

Replace the IIT Registration Sensor (PL 18.5). If the problem continues, replace the IIT/IPS PWB (PL 18.3).

Repair the wires.

Enter Component Control [062-005] (Scan) or [062-006] (Return) and press Start. **The Carriage Motor energizes.**

Y N

Connect black meter lead to ground. Measure voltage at each pin of P/J721. **+24 VDC is measured at each pin.**

Y N

Disconnect P/J721. Measure voltage at P/J721-1 and P/J721-2. **+24 VDC is measured.**

Y N

Switch machine off then on. Measure voltage at P/J721-1 and P/J721-2. **+24 VDC is measured.**

Y N

Replace the IIT/IPS PWB (PL 18.3) and check motor wires for a short circuit.

Check the motor wires for a short circuit. If the wires are good, replace the Carriage Motor (PL 18.5).

Check the motor wires for obvious damage or a short circuit. If the wires are good, replace the Carriage Motor (PL 18.4).

Replace the IIT/IPS PWB (PL 18.2).

Check the following:

- Carriage Motor Belt for disengagement, damage, or no tension (PL 18.5).
- Carriage Capstan Shaft/pulley damage (PL 18.5).
- Full Rate/Half Rate Carriage Position Adjustment (ADJ 11.6.1).

062-362 IIT/IPS PWB RAP

Control Logic detected a failure in the IIT/IPS PWB.

Procedure

Switch off the power. Access the IIT/IPS PWB (PL 18.3). Disconnect and reconnect the IIT/IPS PWB connectors.
If the problem persists reload Software (GP 7).
If the problem persists replace the IIT/IPS PWB (PL 18.3).

062-371 Exposure Lamp

BSD-ON: 1.8 (Figure 8)

BSD-ON: 6.1 (Figure 1)

Open circuit of the Lamp was detected.

Procedure

Enter Component Control [062-002]. Press **Start. The Exposure Lamp illuminates.**

Y N

Switch off the power. Remove the Platen Glass and the IPS Cover. Switch the power on. **There is +24VDC between P/J720-6 or -7(+) on the IIT/IPS PWB and ground (-).**

Y N

WARNING

To avoid personal injury or shock, be aware there is live AC voltage on the heatsinks and capacitors.

Remove the DADF and the IIT Top Cover. **There is +24VDC between P/J702-1 or 2 on the IIT LVPS (+) and ground (-).**

Y N

Switch the power off. Disconnect P/J702 from the IIT LVPS. Switch on the power. **There is +24VDC between the IIT LVPS P/J702-1 or 2 (+) and ground (-).**

Y N

Check for IIT LVPS On signal from the Controller.
Check the input power (ACH) to the IIT LVPS.
If no problems are found, replace the IIT LVPS (PL 18.4).

Check for a short circuit. Refer to the IIT+24VDC wirenet.

Check the wires from P/J702 on the IIT LVPS to P/J720 on the IIT/IPS PWB for an open or short circuit.

There is +24VDC from P/J723-3 or 2 on the IIT/IPS PWB to ground (-).

Y N

There is +24VDC from P/J723-3 or 2 to P/J723-6 or 7 on the IIT/IPS PWB.

Y N

Replace the IIT/IPS PWB (PL 18.2).

Replace the Lamp Wire Harness (PL 18.4).
If the problem continues, replace the Lamp Ballast PWB (PL 18.4).
If the problem continues, replace the IIT/IPS PWB (PL 18.2).

Enter dC 330 [006-002]. Press **Start**. **The voltage at P/J723-3 drops to approximately 7.5 VDC.**

Y N

Replace the IIT/IPS PWB (PL 18.3).

Replace the Exposure Lamp (PL 18.6).
If the problem continues, replace the Lamp Wire Harness (PL 18.6).
If the problem continues, replace Lamp Ballast PWB (PL 18.6).

A

Check the following:

- The White Reference Strip, under the frame that is below the Registration Edge, for excessive contamination.
- The optical light path for contamination.

If the Strip and optics are clean, replace the Exposure Lamp (PL 18.6).
If the problem continues, replace the Lamp Ballast PWB (PL 18.6).
If the problem continues, replace the IIT/IPS PWB (PL 18.3).

062-386 Platen AOC CH1 RAP

BSD-ON: 6.2 (Figure 2)

At the adjustment of CCD output after power on, CCD does not generate the correct output.

Procedure

Check the connection of each IIT/IPS PWB connector. **The connectors are securely connected.**

Y N

Connect the connectors.

Switch on the power. **The problem persists.**

Y N

Return to Service Call Procedures

Replace the CCD Lens Assembly (PL 18.4).
If the problem persists, replace the IIT/IPS PWB (PL 18.3).

062-389 Carriage Over Run Right

BSD-ON: 6.4 (Figure 4)

The carriage has overrun at the Scan End.

Procedure

Switch the power off. Remove the Platen Glass. Manually move the Full Rate Carriage. **The Carriage moves easily.**

Y N

Repair as required (PL 18.5).

Switch the power on. Enter Component Control [062-212] and press Start. Manually move the Full Rate Carriage and actuate the IIT Registration Sensor. **The display changes.**

Y N

Check the circuit of the IIT Registration Sensor. **The IIT Registration Sensor is more easily accessible for voltage measurements than P/J722 on the IIT/IPS PWB.**

Y N

Then the IIT/IPS PWB P/J722 is more accessible. Disconnect P/J722 at IIT/IPS PWB. **+5 VDC is measured between P/J722-A3 and ground (-), and +5 VDC is measured between P/J722-A1 and ground (-). Switch off the power. Less than 5 ohms is measured between P/J722-A3 and ground (-).**

Y N

Replace the IIT/IPS PWB (PL 18.3).

Check the wires between the IIT/IPS PWB P/J722 and the IIT Registration Sensor for visible damage. **The wires are damaged.**

Y N

Replace the IIT Registration Sensor (PL 18.5).

Repair the wires.

Disconnect sensor from harness. **+5 VDC is measured between the harness side of P/J728-3 (+) and ground (-).**

Y N

Check the wire between P/J728-3 and the PWB P/J722-A1 for visible damage. **The wires are damaged.**

Y N

Replace the IIT/IPS PWB (PL 18.3).

Repair the wires.

+5 VDC is measured between the harness side of P/J728-3 (+) and P/J728-2 (-).

Y N

Check the wires between the harness side of P/J728-3 and P/J728-2 and the PWB for visible damage. **The wires are damaged.**

Y N

Replace the IIT/IPS PWB (PL 18.3).

Repair the wires.

A B

Replace the IIT Registration Sensor (PL 18.5). If the problem continues, replace the IIT/IPS PWB (PL 18.2).

Enter Component Control [062-005] (Scan) or [062-006] (Return) and press Start. **The Carriage Motor energizes.**

Y N

Connect black meter lead to ground. Measure voltage at each pin of P/J721. **+24 VDC is measured at each pin.**

Y N

Disconnect P/J721 or P/J722. Measure voltage at P/J721-1 and P/J721-2. **+24 VDC is measured.**

Y N

Switch machine off then on. Measure voltage at P/J721-1 and P/J721-2. **+24 VDC is measured.**

Y N

Replace the IIT/IPS PWB (PL 18.3) and check motor wires for a short circuit.

Check the motor wires for a short circuit. If the wires are good, replace the Carriage Motor (PL 18.5).

Check the motor wires for obvious damage or a short circuit. If the wires are good, replace the Carriage Motor (PL 18.5).

Replace the IIT/IPS PWB (PL 18.3).

Check the following:

- Carriage Motor Belt for disengagement, damage, or no tension (PL 18.5).
- Carriage Capstan Shaft/pulley damage (PL 18.5).
- Full Rate/Half Rate Carriage Position Adjustment (ADJ 11.6.1).

A B

062-392 IIT/IPS PWB Memory Failure RAP

IISS RAM failure s detected at power on.

Procedure

Switch the power off. Reseat all connections on the IIT/IPS PWB, then switch the power on. If the problem persists, replace the IIT/IPS PWB (PL 18.3).

062-393 IIT/IPS PWB Failure RAP

IIT/IPS Ram Test failure(s) detected at power on.

Procedure

Switch the power off. If the problem persists ferform the following:

1. Reseat all connections on the IIT/IPS PWB, then switch the power on.
2. Go To Component Control and change 715-030 from 0 to 1 and replace the specified part. If the problem continues replace the IIT/IPS PWB.

062-500 Downloader Failure RAP

Error detected during write to IISS-ROM. ROM data is deleted.

Procedure

Replace the IIT/IPS PWB (PL 18.3).

062-790 Prohibited Document Detection RAP

Control logic detects a prohibited document.

Procedure

Ask the customer to verify that the document is not a prohibited document (currency, etc.)

If the document is not prohibited, try to copy by changing the orientation on the platen. If the problem continues, replace the IIT/IPS PWB (PL 18.3).

077-967 Paper Difference RAP

The specified paper type and the paper type being used are different.

Initial Actions

Perform the following:

- Switch the power off then on.
- Check if the Regi Sensor actuator is operating properly.
- Check the paper type.
- Check the paper type settings.

Procedure

Load the paper type selected. If problem still exists, replace the MCU PWB (PL 13.1).

077-968 Paper Type Changed RAP

The type of paper in the tray was changed.

Initial Actions

Perform the following:

- Switch the power off then on.
- Check if the Regi Sensor actuator is operating properly.
- Check the paper type.
- Check the paper type settings.

Procedure

Load the paper type selected. If problem still exists, replace the MCU PWB (PL 13.2).

102-356 EWS Fatal Error RAP

BSD-ON:16.1 Figure 1

Fatal error related to the EWS. A problem occurred during software processing, and processing could no longer continue.

Procedure

Switch the power off then on. If the problem still exists, perform the following:

1. Remove and re-insert the following components:
   - ESS NVM PWB (J334)
   - System Memory 1 (J330)
   - System Memory 2 (J331)
   - Page Memory (J338)
2. Reinstall the latest version of the ESS software (GP 7).
3. If the problem still exists, replace the ESS PWB (PL 13.2 WC 7228/7235/7245) or (PL 13.4 WC 7328/7335/7345).

102-380 MF UI Count Fatal Error RAP

BSD-ON:16.1 Figure 1

Fatal error in the MF UI count. A problem occurred during software processing, and processing could no longer continue.

Initial Actions

Check the ESS PWB/UI PWB connection, and the UI to UI I/F connection, and then repeat the same operation under which the error occurred.

Procedure

Switch the power off then on. If the problem still exists, perform the following:

1. Remove and re-insert the following components:
   - ESS NVM PWB (J334)
   - System Memory 1 (J330)
   - System Memory 2 (J331)
   - Page Memory (J338)
2. Reinstall the latest version of the ESS software (GP 7).
3. Replace the UI PWB (PL 13.2). If the problem still exists, replace the ESS PWB (PL 13.2 WC 7228/7235/7245) or (PL 13.4 WC 7328/7335/7345).

102-381 Scope Initialization Error RAP

BSD-ON:16.1 Figure 1

There was notification of a scope initialization error on the ESS side, a message sending error, or an error obtaining the received data, during communication between ESS and the control panel.

Initial Actions

Check the ESS PWB/UI PWB connection, and the UI to UI I/F connection, and then repeat the same operation under which the error occurred.

Procedure

Switch the power off then on. If the problem still exists, perform the following:

1. Remove and re-insert the following components:
   - ESS NVM PWB (J334)
   - System Memory 1 (J330)
   - System Memory 2 (J331)
   - Page Memory (J338)
2. Reinstall the latest version of the ESS software (GP 7).
3. Replace the UI PWB (PL 13.2). If the problem still exists, replace the ESS PWB (PL 13.2) or (PL 13.4 WC 7328/7335/7345).

102-382 Verification Message Return Failure RAP

BSD-ON:16.1 Figure 1

A required message was sent to the control panel and a verification message was not returned within the specified time, after a required parameter had not been attached from the control panel, or a problem with its length was detected for a variable length parameter.

Initial Actions

Check the ESS PWB/UI PWB connection, and the UI to UI I/F connection, and then repeat the same operation under which the error occurred.

Procedure

Switch the power off then on. If the problem still exists, perform the following:

1. Remove and re-insert the following components:
   - ESS NVM PWB (J334)
   - System Memory 1 (J330)
   - System Memory 2 (J331)
   - Page Memory (J338)
2. Reinstall the latest version of the ESS software (GP 7).
3. Replace the UI PWB (PL 13.2). If the problem still exists, replace the ESS PWB (PL 13.2).

103-310 SW Option Fail (HybridWaterMark Not Exist) RAP

Hybrid WaterMark detection hardware unloaded is detected with SW option function being set to Valid. Detected prior to 103-311 detection.

Procedure

Check the following:

1. In UI Diagnostics, (Accessing UI Diagnostics) ensure that the password for the Secure Watermark Kit, Software Option is installed.
2. Ensure that the Hybrid WaterMark PWB is installed and connected correctly. Plugs into IIT/IPS PWB under the IPS PWB cover (SGS 9 o'clock for kit instructions and location).
3. Ensure that the Hard Disk Drive (HDD) PL 13.2 (WC7228/35/45)) or PL 13.4 (WC7328/35/45) is installed and operational.
4. Confirm System Memory PL 13.2 (WC7228/35/45)) or PL 13.4 (WC7328/35/45) is sufficient for this option (768MB).

NOTE: *If the Hybrid (Secure) WaterMark was installed and is no longer installed (PWB not plugged into the top of the IIT/IPS PWB) but the SW Key had been installed the only way to clear fault is to enter NVM Read/Write and reset NVM 785-021 to "0". This will clear the fault.*

103-311 Hybrid Water Mark Setting Mismatch RAP

This is a configuration error type of fault related to the Secure Watermark Kit.

Procedure

Check the following:

1. In UI Diagnostics, (Accessing UI Diagnostics) ensure that the password for the Secure Watermark Kit, Software Option is installed.
2. Ensure that the Hard Disk Drive (HDD) PL 13.2 (WC7228/35/45)) or PL 13.4 (WC7328/35/45) is installed and operational.
3. Confirm System Memory PL 13.2 (WC7228/35/45)) or PL 13.4 (WC7328/35/45) is sufficient for this option (768MB).

103-312 Hybrid Water Mark HW not detected (Side 2)

Hybrid Water Mark detection hardware unloaded is detected with SW option function being set to Valid for Secure Watermark detection on Side 2 of document. Detected prior to 103-311 detection.

Procedure

Check the following:

1. In UI Diagnostics, (Accessing UI Diagnostics) ensure that the password for the Secure Watermark Kit, Software Option is installed.
2. Ensure that the Hybrid WaterMark PWB is installed and connected correctly. Plugs into IIT/IPS PWB under the IPS cover (PL 18.1). If installed replace Hybrid (Secure) Water-Mark PWB PL 18.3
3. Ensure that the Hard Disk Drive (HDD) PL 13.2 is installed and operational.
4. Confirm System Memory PL 13.2 (WC7228/35/45)) or PL 13.4 (WC7328/35/45) is sufficient for this option (768MB).

   NOTE: *If the Hybrid (Secure) WaterMark was installed and is no longer installed (PWB not plugged into the top of the IIT/IPS PWB) but the SW Key had been installed the only way to clear fault is to enter NVM Read Write and reset NVM 785-021 to "0". This will clear the fault.*

112-700 Punch Dust Box Full RAP

Punch Dust Box Full was detected.

Initial Actions

Empty the Punch Waste Bin.

Procedure

Switch the power off then on. If the problem still exists, perform the following:

1. Check the Finisher PWB (PL 21.12) and the MCU PWB (PL 13.1) connectors for being connected properly.
2. Replace the Finisher PWB (PL 21.12) before replacing the MCU PWB (PL 13.1).

116-210 Media Reader Fatal Error RAP

BSD-ON:16.1 Figure 1

Media Reader Fatal Error

Initial Actions

Check that the ESS PWB and connector cables are installed securely, and then repeat the same operation under which the error occurred.

Procedure

Switch the power off then on. If the problem still exists, perform the following:

1. Remove and re-insert the following components:
   - ESS NVM PWB (J334)
   - System Memory 1 (J330)
   - System Memory 2 (J331)
   - Page Memory (J338)
2. Reinstall the latest version of the ESS software (GP 7).
3. Replace the Media Reader Kit (PL 13.3).
4. If the problem still exists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC7328/35/45).

116-212 Media Reader S/W Logic Failure RAP

BSD-ON: 16.1 Figure 1

Media Reader SW Logic Failure

Initial Actions

Check that the ESS PWB and connector cables are installed securely, and then repeat the same operation under which the error occurred.

Procedure

Switch the power off then on. If the problem still exists, perform the following:

1. Remove and re-insert the following components:
   - ESS NVM PWB (J334)
   - System Memory 1 (J330)
   - System Memory 2 (J331)
   - Page Memory (J338)
2. Reinstall the latest version of the ESS software (GP 7).
3. Replace the Media Reader Kit (PL 13.3).
4. If the problem still exists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC7328/35/45).

116-220 Downloader Failure RAP

BSD-ON:16.1 Figure 1

Downloader (which is download execution sw on the ESS) failed to initialize on the ESS PWB.

Procedure

A procedure is not available at time of publication.

116-310 ESS ROM 2 RAP

BSD-ON:16.1 Figure 1

An error is detected in the ESS ROM 2.

Initial Actions

Power Off/On

Procedure

Remove and reinstall the Fax PWB and the ESS ROM 2 (J333).

If the problem persists replace the ESS ROM 2 (PL 13.2 WC7228/35/45 PL 13.4 WC7328/35/45).

116-312 HDD Encrypt Key RAP

BSD-ON:16.1 Figure 1

An error in the HDD encryption key is detected during boot.

Initial Actions

Power Off/On

Procedure

Check the HDD electrical connections.

Perform GP 14.

If the problem persists replace the HDD (PL 13.2 WC7228/35/45 PL 13.4 WC7328/35/45).

116-313 HDD Encrypt Setup RAP

BSD-ON:16.1 Figure 1

The encryption key is set up but the HDD is not encrypted.

Procedure

Check the HDD electrical connections.

Perform GP 14.

If the problem persists replace the HDD (PL 13.2 WC7228/35/45 PL 13.4 WC7328/35/45).

116-314 Ethernet Address RAP

BSD-ON:16.1 Figure 1

An Ethernet address error is detected.

Initial Actions

Power Off/On

Procedure

Check the EPROM on the ESS.

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC7328/35/45).

116-315 ESS System Memory 1 R/W Check RAP

BSD-ON:16.1 Figure 1

An error is detected during the Read/Write operation of the System Memory 1.

Initial Actions

Power Off/On

Procedure

Remove and reinstall the System Memory 1 (J330).

If the problem persists, replace the ESS DDR DIMM #1 (PL 13.2 WC7228/35/45 PL 13.4 WC7328/35/45).

116-316 ESS System Memory 2 R/W Check RAP

BSD-ON:16.1 Figure 1

An error is detected during the Read/Write operation of the ESS System Memory 2.

Initial Actions

Power Off/On

Procedure

Remove and reinstall the System Memory 2 (J331).

If the problem persists, replace the ESS System Memory 2 (PL 13.2 WC7228/35/45 PL 13.4 WC7328/35/45).

116-317 ESS ROM 1 Check RAP

BSD-ON:16.1 Figure 1

An error is detected when the ESS ROM 1 was checked.

Initial Actions

Power Off/On

Procedure

Remove and reinstall ESS ROM 1 (J332).

If the problem persists replace the ESS ROM 1 (PL 13.2 WC7228/35/45 PL 13.4 WC7328/35/45).

116-318 ESS ROM 2 Check RAP

BSD-ON:16.1 Figure 1

An error is detected when the ESS ROM 2 was checked.

Initial Actions

Power Off/On

Procedure

Remove and reinstall the ESS ROM 2 (J333).

If the problem persists, replace ESS ROM 2 (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-319 Controller UI Configuration

There is a configuration mismatch between the Controller ROM and the UI.

Procedure

If the Controller or UI was just serviced, check the electrical connections.

If the problem occurred during customer usage, replace the ESS ROMs (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

If the problem persists, replace the UI PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-321 System Software RAP

BSD-ON:16.1 Figure 1

An internal controller error shut down the processor.

Initial Actions

Power Off/On

Procedure

Reseat the ESS RAM and NVM PWBs. If the problem remains, perform GP 14. If the problem persists reload software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45). If this does not resolve the problem, replace the ESS NVM PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-322 WebDAV S/W Failure RAP

BSD-ON:16.1 Figure 1

WebDAV S/W Failure. A problem occurred during software processing, and processing could no longer continue.

Procedure

Switch the power off, then on. If problem still exists, check the CE log to see if the same fail frequently occurred. If the problem frequently occurred, perform the following:

1. Upgrade ESS Firmware to the latest version (GP 7) and check to see if the same problem is repeated.
2. Remove and reinstall RAM PWBs or replace RAM (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-323 ESS NVM R/W Check RAP

BSD-ON:16.1 Figure 1

An error is detected during the ESS NVM Read/Write Check.

Initial Actions

Power Off/On

Procedure

Remove and reinstall (J334) or replace the ESS NVM PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-324 Exception Error RAP

BSD-ON:16.1 Figure 1

An ESS exception error shut down the processor.

Initial Actions

Power Off/On

Procedure

Reseat the ESS RAM and NVM PWBs. If the problem remains, perform GP 14. If the problem persists reload software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45). If this does not resolve the problem, replace the ESS NVM PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-325 ESS Fan RAP

BSD-ON:16.1 Figure 1

The ESS fan failed.

Procedure

Replace the ESS fan (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-328 L2 Cache RAP

BSD-ON:16.1 Figure 1

A cache failure is detected in the Controller.

Initial Actions

Power Off/On

Procedure

Reseat the ESS RAM and NVM PWBs. If the problem remains, perform GP 14. If the problem persists reload software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45). If this does not resolve the problem, replace the ESS NVM PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-329 Serial I/F Software RAP

BSD-ON:16.1 Figure 1

A system call error is detected.

Initial Actions

Power Off/On

Procedure

Reseat the ESS RAM and NVM PWBs. If the problem remains, perform GP 14. If the problem persists reload software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45). If this does not resolve the problem, replace the ESS NVM PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-330 HDD File System RAP

BSD-ON:16.1 Figure 1

The HDD Check detected an error during power on or the HDD is not formatted.

Initial Actions

Power Off/On

Procedure

Check the HDD electrical connections.

Perform GP 14.

If the problem continues, replace the HDD (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45). If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-331 Invalid Log Information RAP

BSD-ON:16.1 Figure 1

A log error is detected.

Initial Actions

Power Off/On

Procedure

Switch off the power Remove the HD, switch the power on, then off, reinstall the HD, and switch on the power.

If the problem persists perform GP 14.

If the problem persists replace the HDD (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45.

116-332 ESS ROM RAP

BSD-ON:16.1 Figure 1

An error is detected in the ESS 1 ROM.

Initial Actions

Power Off/On

Procedure

Reinstall or replace the ESS 1 ROM (J332).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-333 LocalTalk Software RAP

BSD-ON:16.1 Figure 1

A LocalTalk system call error caused a shutdown.

Initial Actions

Power Off/On

Procedure

Reload Firmware (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-334 ESS NVM Data Compare Fail RAP

BSD-ON:16.1 Figure 1

NVM Data invalid at power on.

Initial Actions

Power Off/On

Procedure

Reseat the ESS RAM and NVM PWBs. If the problem remains, perform GP 14. If the problem persists reload software (GP 7).

If the problem persists, replace the ESS NVM PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45). If this does not resolve the problem, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-336 HDD Access RAP

BSD-ON:16.1 Figure 1

A failure is detected during HDD access

Initial Actions

Power Off/On

Procedure

Check the HDD electrical connections.

Perform GP 14.

If the problem continues, replace the HDD (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45). If the problem persists, replace the ESS PWB (PL 13.2) WC7228/35/45 PL 13.4 WC 7328/35/45.

116-337 SNTP Software RAP

BSD-ON:16.1 Figure 1

An error in SNTP (Simple Network Transfer Processing) caused in internal shutdown.

Initial Actions

Power Off/On

Procedure

Reseat the ESS RAM and NVM PWBs. If the problem remains, perform GP 14. If the problem persists reload software (GP 7).

If the problem persists, replace the ESS NVM PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45). If this does not resolve the problem, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-338 JBA RAP

BSD-ON:16.1 Figure 1

A JBA (Job Based Accounting) processing error caused in internal shutdown.

Initial Actions

Power Off/On

Procedure

Reload Firmware (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-340 Memory RAP

BSD-ON:16.1 Figure 1

The DDR DIMM, Entry Buffer, and Work Area are insufficient.

Initial Actions

Power Off/On

Procedure

Add memory (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

Disable the PostScript option.

116-341 ROM Version RAP

BSD-ON:16.1 Figure 1

- Multiple incorrect versions of the ESS ROMs are installed.
- An invalid combination of ROMs are installed.

Initial Actions

Power Off/On

Procedure

NOTE: *When installing multiple ROMs, it is necessary to match both the major versions and the minor versions.*

Reload software (GP 7).

Check the version of the ESS ROMs and if necessary, replace it with the correct version (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-342 Network Manager RAP

BSD-ON:16.1 Figure 1

An internal shutdown occurred due to an error in processing SNMP (Simple Network Management Protocol).

Initial Actions

Power Off/On

Procedure

Reseat the ESS RAM and NVM PWBs. If the problem remains, perform GP 14. If the problem persists reload software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-343 Main PWB IC RAP

BSD-ON:16.1 Figure 1

An error is detected in the IC in the ESS PWB.

Initial Actions

Power Off/On

Procedure

Check the connection of each ESS PWB connector (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45). **The connectors are securely connected.**

Y N

Connect the connectors.

Switch on the power again. **The problem persists.**

Y N

Return to Service Call Procedures.

Replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-346 Formatter RAP

BSD-ON:16.1 Figure 1

Errors are detected by the Formatter.

Initial Actions

Power Off/On

Procedure

Reseat the ESS RAM and NVM PWBs. If the problem remains, perform GP 14. If the problem persists reload software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-348 Redirector RAP

BSD-ON:16.1 Figure 1

A system function recall error is detected by the Redirector.

Initial Actions

Power Off/On

Procedure

Reseat the ESS RAM and NVM PWBs. If the problem remains, perform GP 14. If the problem persists reload software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-349 SIF RAP

BSD-ON:16.1 Figure 1

An error occurred using the SIF (Source Input Format) function.

Initial Actions

Power Off/On

Procedure

Reseat the ESS RAM and NVM PWBs. If the problem remains, perform GP 14. If the problem persists reload software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-350 AppleTalk Software RAP

BSD-ON:16.1 Figure 1

An internal shutdown occurred after an AppleTalk processing error.

Initial Actions

Power Off/On

Procedure

Reseat the ESS RAM and NVM PWBs. If the problem persists reload software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-351 Ether Talk Software RAP

BSD-ON:16.1 Figure 1

An internal shutdown occurred after an Ether Talk processing error.

Initial Actions

Power Off/On

Procedure

Reseat the ESS RAM and NVM PWBs. If the problem persists reload software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-352 NetWare Software RAP

BSD-ON:16.1 Figure 1

An internal shutdown occurred after a NetWare processing error.

Initial Actions

Power Off/On

Procedure

Reseat the ESS RAM and NVM PWBs. If the problem persists reload software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-353 HDD Mechanical RAP

BSD-ON:16.1 Figure 1

A mechanical error occurred in the HDD.

Initial Actions

Power Off/On

Procedure

Switch off the power Remove the HD, switch the power on, then off, reinstall the HD, and switch on the power.

CAUTION

DO NOT *perform the* ***ESS NVM INIT*** *portion of GP14. If the first three portions do not resolve the issue, replace the HDD.*

If the problem persists perform GP 14.

If the problem persists replace the HDD (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-354 HDD Product RAP

BSD-ON:16.1 Figure 1

An error occurred in the HDD.

Initial Actions

Power Off/On

Procedure

Switch off the power Remove the HD, switch the power on, then off, reinstall the HD, and switch on the power.

If the problem persists perform GP 14.

If the problem persists replace the HDD (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-355 SNMP Agent Software RAP

BSD-ON:16.1 Figure 1

An internal shutdown occurred after an SNMP (Simple Network Management Protocol) processing error.

Initial Actions

Power Off/On

Procedure

Reseat the ESS RAM and NVM PWBs. If the problem persists reload software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-356 HDD Format RAP

BSD-ON:16.1 Figure 1

HDD formatting failed.

Initial Actions

Power Off/On

Procedure

Switch off the power Remove the HD, switch the power on, then off, reinstall the HD, and switch on the power.

If the problem persists perform GP 14.

If the problem persists replace the HDD (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-357 PostScript RAP

BSD-ON:16.1 Figure 1

An internal shutdown occurred after a processing error.

Initial Actions

Power Off/On

Procedure

Reseat the ESS RAM and NVM PWBs. If the problem persists reload software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-358 Salutation Software RAP

BSD-ON:16.1 Figure 1

An internal shutdown occurred after a Salutation processing error.

Initial Actions

Power Off/On

Procedure

Reseat the ESS RAM and NVM PWBs. If the problem persists reload software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-359 PLW Software RAP

BSD-ON:16.1 Figure 1

An internal shutdown occurred after a processing error.

Initial Actions

Power Off/On

Procedure

Reseat the ESS RAM and NVM PWBs. If the problem remains, perform GP 14. If the problem persists reload software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-360 SMB Software RAP

BSD-ON:16.1 Figure 1

An internal shutdown occurred after a SMB (Server Message Block) processing error.

Initial Actions

Power Off/On

Procedure

Reseat the ESS RAM and NVM PWBs. If the problem remains, perform GP 14. If the problem persists reload software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-361 Spool HDD RAP

BSD-ON:16.1 Figure 1

The controller spool detected an error during HDD access.

Initial Actions

Power Off/On

Procedure

Check the HDD electrical connections.

Perform GP 14.

If the problem continues, replace the HDD (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45). If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-362 SSDP Software RAP

BSD-ON:16.1 Figure 1

An internal shutdown occurred after an SSDP (Simple Service Discovery Protocol) processing error.

Initial Actions

Power Off/On

Procedure

Reseat the ESS ROM and NVM PWBs. If the problem remains, perform GP 14. If the problem persists reload software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-363 Print Service Software RAP

BSD-ON:16.1 Figure 1

An internal shutdown occurred after an SNMP processing error.

Initial Actions

Power Off/On

Procedure

Reseat the ESS ROM and NVM PWBs. If the problem remains, perform GP 14. If the problem persists reload software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-364 Timer RAP

BSD-ON:16.1 Figure 1

A timer failure is detected in the ESS PWB.

Initial Actions

Power Off/On

Procedure

Check the connection of each ESS PWB connector (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45). **The connectors are correctly connected.**

Y N

Connect the connectors.

Turn on the power again. **The problem persists.**

Y N

Return to Service Call Procedures.

Replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-365 Spool RAP

BSD-ON:16.1 Figure 1

An internal shutdown occurred after an SPL processing error.

Initial Actions

Power Off/On

Procedure

Reseat the ESS ROM and NVM PWBs (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45). Check the HDD electrical connections.

Perform GP 14.

If the problem continues, replace the HDD (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45). If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-366 Software Report RAP

BSD-ON:16.1 Figure 1

An internal shutdown occurred after a reporting error.

Initial Actions

Power Off/On

Procedure

Reseat the ESS ROM and NVM PWBs. If the problem remains, perform GP 14. If the problem persists reload software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-367 Parallel Software RAP

BSD-ON:16.1 Figure 1

An internal shutdown occurred after a processing error.

Initial Actions

Power Off/On

Procedure

Reseat the ESS ROM and NVM PWBs. If the problem remains, perform GP 14. If the problem persists reload software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-368 Dump Print RAP

BSD-ON:16.1 Figure 1

An internal shutdown occurred after a processing error.

Initial Actions

Power Off/On

Procedure

Reseat the ESS ROM and NVM PWBs. If the problem remains, perform GP 14. If the problem persists reload software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-370 XJCL RAP

BSD-ON:16.1 Figure 1

An internal shutdown occurred after a XJCL (X Job Control Language) processing error.

Initial Actions

Power Off/On

Procedure

Reseat the ESS ROM and NVM PWBs. If the problem remains, perform GP 14. If the problem persists reload software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-371 PCL Decomposer Software RAP

BSD-ON:16.1 Figure 1

An internal shutdown occurred after a PCL (Printer Command Language) processing error.

Initial Actions

Power Off/On

Procedure

Reseat the ESS ROM and NVM PWBs. If the problem remains, perform GP 14. If the problem persists reload software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-372 Formatter RAP

BSD-ON:16.1 Figure 1

An internal shutdown occurred after a processing error.

Initial Actions

Power Off/On

Procedure

Reseat the ESS ROM and NVM PWBs. If the problem remains, perform GP 14. If the problem persists reload software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-373 Dynamic DNS Software RAP

BSD-ON:16.1 Figure 1

An internal shutdown occurred after a DDNS (Dynamic Domain Name System) processing error.

Initial Actions

Power Off/On

Procedure

Reseat the ESS ROM and NVM PWBs. If the problem remains, perform GP 14. If the problem persists reload software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-374 Auto Switch RAP

BSD-ON:16.1 Figure 1

An internal shutdown occurred after a processing error.

Initial Actions

Power Off/On

Procedure

Reseat the ESS ROM and NVM PWBs. If the problem remains, perform GP 14. If the problem persists reload software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-375 Formatter RAP

BSD-ON:16.1 Figure 1

A response such as system function recall error is detected.

Initial Actions

Power Off/On

Procedure

Reseat the ESS ROM and NVM PWBs.

If the problem persists reload software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-376 Port 9100 Software RAP

BSD-ON:16.1 Figure 1

An internal shutdown occurred after a processing error.

Initial Actions

Power Off/On

Procedure

Reseat the ESS ROM and NVM PWBs.

If the problem persists reload software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-377 Video DMA RAP

BSD-ON:16.1 Figure 1

A Video DMA (Direct Memory Access) failure is detected.

Initial Actions

Power Off/On

Procedure

Reseat the ESS ROM and NVM PWBs.

If the problem persists reload software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-378 Controller Software RAP

BSD-ON:16.1 Figure 1

An internal shutdown occurred after a processing error.

Initial Actions

Power Off/On

Procedure

Reseat the ESS ROM and NVM PWBs.

If the problem persists reload software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-379 Controller Software RAP

BSD-ON:16.1 Figure 1

An internal shutdown occurred after an MCC processing error.

Initial Actions

Power Off/On

Procedure

Reseat the ESS ROM and NVM PWBs.

If the problem persists reload software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-380 ESS ROM 1 RAP

BSD-ON:16.1 Figure 1

An error is detected when the ESS ROM 1 was checked.

Initial Actions

Power Off/On

Procedure

Reseat the ESS 1 ROM.

If the problem persists reload software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-381 ABL Initialize RAP

BSD-ON:16.1 Figure 1

Corrupted data is detected in the ABL (Address Book Library).

Initial Actions

Power Off/On

Procedure

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

Y N

Connect the connectors.

Turn on the power again. **The problem persists.**

Y N

Return to Service Call Procedures.

Clear the ESS NVM. (Perform this only after explaining to the user the purpose of clearing recipient information.) If the problem persists replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-382 ABL Initialize RAP

BSD-ON:16.1 Figure 1

HDD access by the ABL (Address Book Library) failed.

Initial Actions

Power Off/On

Procedure

Check the HDD electrical connections.

Perform GP 14.

If the problem continues, replace the HDD (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45). If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-383 PIT Lib Failure RAP

BSD-ON:16.1 Figure 1

(1) Thumbnail Preview kit is not mounted on ESS PWB. During job

(2) Thumbnail Preview PWB failure is detected during job execution.

(3) HDD access error occurs during job execution.

NOTE: 016-231 is detected at power on, but this fault “is detected during job execution”. Note the timing of fault occurrence is different.

Initial Actions

Power Off/On

Procedure

Check Fault History for an 016-231. If an 016-231 occurred, troubleshoot the 016-231.

116-384 DCS Fatal Error RAP

DCS software load failure

Procedure

Switch the power off, then on.

116-385 IDC Software RAP

BSD-ON:16.1 Figure 1

An internal shutdown occurred after an IDC (scripting language) processing error.

Initial Actions

Power Off/On

Procedure

Reseat the ESS ROM and NVM PWBs.

If the problem persists reload software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-388 MCC RAP

BSD-ON:16.1 Figure 1

The control logic detected that the HDD is not installed during an MCC operation (Mail Contents Creator).

Initial Actions

Power Off/On

Procedure

Check the HDD electrical connections.

Perform GP 14.

If the problem continues, replace the HDD (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45). If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-389 RAM Install RAP

BSD-ON:16.1 Figure 1

The control logic detected that the required RAM capacity is not installed or available.

Initial Actions

Power Off/On

Procedure

Reseat the ESS RAM and NVM PWBs.

If the problem persists reload software (GP 7).

If the problem persists, replace the RAM PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-390 ROM NVM Mismatch RAP

BSD-ON:16.1 Figure 1

Incompatible versions of the standard ROM and NVM are detected.

Procedure

If instructions are listed on the UI perform them.

Reload Software (GP 7)

If no instructions are listed on the UI initialize the NVM.

116-391 Country Code RAP

BSD-ON:16.1 Figure 1

An illegal country code is set.

Procedure

Perform GP 17 Country Code Setting.

116-395 USB Software RAP

BSD-ON:16.1 Figure 1

There is an internal shutdown due to a USB (Universal Serial Bus) related error.

Initial Actions

Power Off/On

Procedure

Reseat the ESS ROM and NVM PWBs.

If the problem persists reload software (GP 7).

If the problem persists, replace the ESS PWB (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-399 MUnder Initialization for 10 Minutes RAP

The Initialization state remains for 10 minutes after startup. (Startup after recovery from Power Save is not included).

NOTE: *Initialization state detected 10 minutes after Pflite startup. 10 minutes has passed without receiving Ack/Nack from task. "*

Only detected in startup mode such as "Normal ColdBoot" "Reboot Mode (DiagExit)". Not detected in other modes such as "Recovery from PowerSave" or "Special Boot Mode" because time-out 10 minutes is difficult to secure.

Initial Actions

Reboot machine. If 116-399 occurs again after Reboot, SystemFail screen will be displayed. Perform the Procedure.

Procedure

Check that all Components attached to the ESS PWB (RAM, ROM, HDD etc. are connected correctly. Disconnect and reconnect ESS PWB from Backplane PWB. Ensure all external connections to the ESS PWB are connected properly.

116-701 Memory Duplex RAP

BSD-ON:16.1 **Figure 1**

2 Sided printing requires more memory.

Initial Actions

Power Off/On

Procedure

If the problem persists perform GP 14.

If the problem persists replace the HDD (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-702 Substitute Font RAP

BSD-ON:16.1 Figure 1

The print function is using a substitute font.

Initial Actions

Power Off/On

Procedure

No action necessary.

116-703 PostScript Language RAP

BSD-ON:16.1 Figure 1

There is an error in PostScript grammar interpretation or language interpretation.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

116-704 MediaReader No Insert RAP

MediaReader No Insert (No Job)

Procedure

Check that the Media Card is inserted correctly.

116-705 MediaReader Format Error RAP

MediaReader Format Error (No Job)

Procedure

Check the contents on the Media Card. Check the file format/directory and selected mode (Digital Camera Print/Document Print).

116-706 MediaReader File Attribute Read Error RAP

MediaReader: File Attribute Read Error (No Job)

Procedure

Check the contents on the Media Card. Check whether the printed file attribute information is displayed in the PC.

116-707 MediaReader Image File Read Error RAP

MediaReader: Image File Read Error (No Job)

Procedure

Check the contents on the Media Card. Check whether the print file images are displayed in the PC.

116-708 MediaReader File Attribute Read Error RAP

MediaReader: File Attribute Read Error (In Job)

Procedure

Check the contents on the Media Card. Check whether the printed file attribute information is displayed in the PC.

116-709 MediaReader Image File Read Error RAP

MediaReader: Image File Read Error (Occurs during job)

Procedure

Check the contents on the Media Card. Check whether the print file images are displayed in the PC.

116-710 HP-GL/2 Memory Overflow RAP

BSD-ON:16.1 Figure 1

There is a memory overflow in the HP-GL/2 (Hewlett Packard printer control language)

Initial Actions

Power Off/On

Procedure

Check the electrical connections on the HDD (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

Ask customer to cancel and rerun the job.

116-711 PLW Size/Orientation Mismatch RAP

BSD-ON:16.1 Figure 1

In overlay mode the PLW form is different from the size/orientation of the paper.

Procedure

Ask customer to check setups so that the paper is the same size and orientation as the overlay.

116-712 Form Registration RAP

BSD-ON:16.1 Figure 1

Form/logo data registration is not possible due to insufficient RAM disk or HDD capacity.

Initial Actions

Power Off/On

Procedure

Ask customer to delete unused or unnecessary forms.

If the problem persists perform GP 14.

If the problem persists replace the HDD (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-713 HDD Job Full RAP

BSD-ON:16.1 Figure 1

The job output was split into batches when HDD capacity was reached.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

Perform GP 14.

If the problem persists replace the HDD (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-714 HP-GL/2 Command RAP

BSD-ON:16.1 Figure 1

There is a command error in the HP-GL/2 (Hewlett Packard printer control language)

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

If the problem persists check the electrical connections on the HDD (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

Perform GP 14.

If the problem persists replace the HDD (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-715 Max Form to PLW Registered RAP

BSD-ON:16.1 Figure 1

PLW form data registration was not possible because of the restriction on the number of forms.

Initial Actions

Power Off/On

Procedure

Ask customer to check the registered forms using the UI utility and delete the forms that are unnecessary.

If the problem persists delete forms that are not required by the print command.

116-716 MediaReader File Does Not Exist RAP

MediaReader File Does Not Exist

Procedure

Check the contents on the Media Card. Check the file format/directory and selected mode (Digital Camera Print/Document Print).

116-717 MediaLib Will Not Execute a New Request RAP

MediaLib: Not Execute of New Request

Procedure

Check the contents on the Media Card. It is not necessary to check the file format/directory in the Media (as this error does not occur when the previous job is complete).

116-718 Selected PLW Form Not Registered RAP

BSD-ON:16.1 Figure 1

The specified form is not registered.

Initial Actions

Power Off/On

Procedure

Use a registered form or register the required form.

116-720 PCL Memory RAP

BSD-ON:16.1 Figure 1

The PCL Printer Control Language) Memory capacity is insufficient.

Initial Actions

Power Off/On

Procedure

Do not start up the ports that are unnecessary. Adjust the various Buffer Memory sizes. Add additional memory.

116-725 HDD Memory Space Shortage RAP

Disk Full occurs in Log Image storage area when system data log image creation guarantee level is set to “Low”.

Procedure

Retry the job. If the problem persists with try, delete unnecessary documents in the HDD.

116-737 Registration RAP

BSD-ON:16.1 **Figure 1**

Registration of user defined data (external characters, patterns, etc.) lacks RAM capacity.

Initial Actions

Power Off/On

Procedure

Refer customer to User Guide heading Data Encryption. Deleting registered user defined data will make additional memory available.

116-738 Overlay Size Orientation RAP

BSD-ON:16.1 Figure 1

The drawing size/orientation of the form is different from the size/orientation of the paper.

Procedure

Ask customer to check setups so that the paper is the same size and orientation as the overlay.

116-739 Form/Logo Capacity RAP

BSD-ON:16.1 Figure 1

Form/logo registration was not possible because of insufficient RAM disk or HDD capacity.

Initial Actions

Power Off/On

Procedure

Ask customer to check the registered forms/logos using the Operation Panel utility, delete the forms/logos that are unnecessary.

If the problem persists check the electrical connections on the HDD (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

Perform GP 14.

If the problem persists replace the HDD (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-740 Arithmetic RAP

BSD-ON:16.1 Figure 1

The number calculated in the interpreter exceeded the limit value.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

116-741 Maximum Forms Data Register RAP

BSD-ON:16.1 Figure 1

The large quantity of forms put a limit on form data registration.

Initial Actions

Power Off/On

Procedure

Ask customer to check the registered forms using the UI utility and delete the forms that are unnecessary.

If the problem persists Ask customer to delete forms that are not required by the print command.

116-742 Max Logo Registered RAP

BSD-ON:16.1 Figure 1

The number of logo data registrations is exceeded.

Procedure

Ask customer to check the registered logos using the UI utility and delete any unused logos.

If the problem persists delete logos that are not required by the print job.

116-743 Form/Logo Size Overflow RAP

BSD-ON:16.1 Figure 1

The received data (form/logo) exceeds the registered buffer size.

Initial Actions

Power Off/On

Procedure

Ask customer to increase the size of the Form Registration Area using the UI.

If the problem persists replace the HDD (PL 13.2 WC7228/35/45 PL 13.4 WC 7328/35/45).

116-745 ART Command RAP

BSD-ON:16.1 Figure 1

The decompressor detected grammar or other errors when comparing check values.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

116-746 Selected Form RAP

BSD-ON:16.1 Figure 1

The selected form is not registered.

Procedure

Ask customer to use a registered form or register the required form.

116-747 Invalid Page Margin RAP

BSD-ON:16.1 Figure 1

Subtracting the paper margin from the valid coordinate area results in a negative value.

Procedure

Ask customer to reset the margins setup.

116-748 Page Image Data RAP

BSD-ON:16.1 Figure 1

Drawing data does not exist in the page data.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

116-749 PostScript Font RAP

BSD-ON:16.1 Figure 1

The specified font is not found in the ROM or the HDD.

Initial Actions

Power Off/On

Procedure

The font name specified in JIS is set.

116-771 Invalid JBIG Parameter DL Fixed RAP

BSD-ON:16.1 Figure 1

An incorrect JBIG parameter DL was automatically corrected.

Initial Actions

Power Off/On

Procedure

No action necessary.

116-772 Invalid JBIG Parameter D Fixed RAP

BSD-ON:16.1 Figure 1

An incorrect JBIG parameter D was automatically corrected.

Initial Actions

Power Off/On

Procedure

No action necessary.

116-773 Invalid JBIG Parameter P Fixed RAP

BSD-ON:16.1 Figure 1

An incorrect JBIG parameter P was automatically corrected.

Initial Actions

Power Off/On

Procedure

No action necessary.

116-774 Invalid JBIG Parameter YD Fixed RAP

BSD-ON:16.1 Figure 1

An incorrect JBIG parameter YD was automatically corrected.

Initial Actions

Power Off/On

Procedure

No action necessary.

116-775 Invalid JBIG Parameter L0 Fixed RAP

BSD-ON:16.1 Figure 1

An incorrect JBIG parameter LO was automatically corrected.

Initial Actions

Power Off/On

Procedure

No action necessary.

116-776 Invalid JBIG Parameter MX Fixed RAP

BSD-ON:16.1 Figure 1

An incorrect JBIG parameter MX was automatically corrected.

Initial Actions

Power Off/On

Procedure

No action necessary.

116-777 Invalid JBIG Parameter MY Fixed RAP

BSD-ON:16.1 Figure 1

An incorrect JBIG parameter MY was automatically corrected.

Initial Actions

Power Off/On

Procedure

No action necessary.

116-778 Invalid JBIG Par VLength Fixed RAP

BSD-ON:16.1 Figure 1

An incorrect JBIG parameter VLENGTH was automatically corrected.

Initial Actions

Power Off/On

Procedure

No action necessary.

116-780 Attached Document RAP

BSD-ON:16.1 Figure 1

There was an error in the document attached to the E-mail to XXX.

Initial Actions

Power Off/On

Procedure

No action necessary.

116-790 Stapling Canceled RAP

BSD-ON:12.6 Figure 6

When Staple was specified, there were no staples.

Initial Actions

Power Off/On

Check the Stapler. If staples are present, continue with this procedure.

Procedure

Go to the 12-965 RAP (Office Finisher), or the 012-945 Low Staples RAP (A/P Finishers).

121-310 Foreign Interface/Foreign Device Comm Failure RAP

Foreign Interface/Foreign Device Communication Fail. Communication cannot be established between the Foreign Interface and the Foreign Device (3rd-party device such as vend station or mechanical Auditron).

Procedure

CAUTION

Do not attempt to troubleshoot this circuit by jumpering the Transmit Data or Receive Data lines on the ESS PWB. This will destroy the serial port on the ESS PWB.

Switch the power off, then on. **The problem continues.**

Y N

Check for loose connections or dirty contacts between the ESS PWB and the Foreign Interface, and between the FI and the attached device.

Switch off the power. Disconnect the device from the FI. Connect a jumper from pin 1 to pin 3 on J940 on the Foreign Interface. Switch on the power. **The fault code is still present.**

Y N

Repair or replace the Foreign Device.

Reinstall the ESS software (GP 7).
If the problem continues, replace the Foreign Interface
If the problem continues, replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC7328/35/45).

121-311 IC Card Auditron Config Fail 01 RAP

At power on, the combination of external Authentication setting of this machine and connected device is incorrect. machine is started after automatic recovery to correct setting.

When IC Card Gate is connected:

When all of the following are set, [IC Card Link mode] is changed to [Password input necessary].

-[Authentication /Counting management]> [Authentication /Counting use] set in [External Authentication /Counting]

-[Password input necessary] is set in [Authentication /Counting management]> [Authentication /Counting use]> [External Authentication /Counting> [IC Card Link mode]

-[Specification setting]> [Network setting]> [External Authentication server/Directory service setting]> [Authentication system] is set to Kerberos or SMB.

Procedure

When IC Card Gate is connected:

Machine sets [Authentication/Counting management]> [Authentication/Counting use]> [External authentication/Counting]> [IC Card Link mode] automatically to [Password input necessary]. To change the setting as appropriate when not using password.

121-312 IC Card Auditron Config Fail 02 RAP

Error occurs due to the setting of impermissible combination below at Power On.

IC Card Gate EP accessories other than IC Card Gate are connected (set) or IC Card Gate and other EP accessories are installed together (set).

[Authentication /Counting]> [Authentication /Counting management/use] is set in [External Authentication /Counting].

Procedure

To take action as follows:

1) To start without connecting EP accessory and set [Authentication/Counting management]> [Authentication/Counting use] to other than [External authentication/counting].

2) To mount option IC card external authentication kit and set IC Card Gate of EP accessory to unit connection.

121-313 IC Card Auditron Config Fail 03 RAP

Error occurs due to the setting of impermissible combination below at Power On.

Optional IC Card external Authentication Kit is not installed.

EP accessories IC Card Gate is connected (set) alone.

[Authentication /Accounting management]> [Authentication /Accounting management/use] is set in [External Authentication /Accounting].

Procedure

To take action as follows:

1) To start without connecting EP accessory and set [Authentication/Counting management]> [Authentication/Counting use] to other than [External authentication/counting].

2) To mount option IC card external authentication kit.

121-314 Customize User Prompts Fail RAP

Error occurs due to the setting of impermissible combination below at Power On.

IC Card Gate EP accessories other than IC Card Gate are connected (set) or IC Card Gate and other EP accessories are installed together (set).

[Authentication /Counting]> [Authentication /Counting management/use] is set in [External Authentication /Counting].

Procedure

To change System Data (Chain-Link) to prevent “Detection condition”.

(For example, If Card Auditron Level2/IC Card Auditron Level2 in Network Accounting mode is requested, Customize User Prompts shall be set to “both” or “prompt 1 only”)

121-333 Foreign Interface/ESS Comm Failure RAP

Foreign Interface/ESS Communication Fail. Communication cannot be established between the Foreign Interface and the ESS PWB.

Initial Actions

If an external Auditron-type device is connected to the Foreign Interface, ensure that the machine’s internal Auditron is disabled.

Procedure

CAUTION

Do not attempt to troubleshoot this circuit by jumpering the Transmit Data or Receive Data lines on the ESS PWB. This will destroy the serial port on the ESS PWB.

Switch the power off, then on. **The problem continues.**

Y **N**

Check for loose connections or dirty contacts between the ESS PWB and the Foreign Interface, and between the FI and the attached device.

Switch off the power. Disconnect the device from the FI. Connect a jumper from pin 1 to pin 3 on J940 on the Foreign Interface. Switch on the power. **The fault code is still present.**

Y **N**

Repair or replace the Foreign Device.

Reinstall the ESS software (GP 7).
If the problem continues, replace the Foreign Interface
If the problem continues, replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

121-334 Foreign Interface Logic Failure RAP

Foreign Interface Login Fail. The result of referencing the login information for a wake-up answer was an error.

Procedure

CAUTION

Do not attempt to troubleshoot this circuit by jumpering the Transmit Data or Receive Data lines on the ESS PWB. This will destroy the serial port on the ESS PWB.

Switch the power off, then on. **The problem continues.**

Y **N**

Check for loose connections or dirty contacts between the ESS PWB and the Foreign Interface, and between the FI and the attached device.

Switch off the power. Disconnect the device from the FI. Connect a jumper from pin 1 to pin 3 on J940 on the Foreign Interface. Switch on the power. **The fault code is still present.**

Y **N**

Repair or replace the Foreign Device.

Reinstall the ESS software (GP 7).
If the problem continues, replace the Foreign Interface
If the problem continues, replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

121-335 Foreign Interface Wake Up Answer Failure RAP

Foreign Interface Wake Up Answer Failure. A wake-up answer could not be received.

Procedure

CAUTION

Do not attempt to troubleshoot this circuit by jumpering the Transmit Data or Receive Data lines on the ESS PWB. This will destroy the serial port on the ESS PWB.

Switch the power off, then on. **The problem continues.**

Y **N**

Check for loose connections or dirty contacts between the ESS PWB and the Foreign Interface, and between the FI and the attached device.

Switch off the power. Disconnect the device from the FI. Connect a jumper from pin 1 to pin 3 on J940 on the Foreign Interface. Switch on the power. **The fault code is still present.**

Y **N**

Repair or replace the Foreign Device.

Reinstall the ESS software (GP 7).
If the problem continues, replace the Foreign Interface
If the problem continues, replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

121-336 Unknown Foreign Device RAP

Unknown Foreign Device. The connected Foreign Device type was unknown at WAKE UP ANSWER time.

Procedure

Switch the power off, then on. **The problem continues.**

Y **N**

Check for loose connections or dirty contacts between the ESS PWB and the Foreign Interface, and between the FI and the attached device.

Replace the Foreign Device.

121-337 Foreign Device Self Diag Failure RAP

Foreign Device Self Diag Failure. The result of the self-diagnosis of connected Foreign Device for a wake-up answer was an error.

Procedure

Switch the power off, then on. **The problem continues.**

Y **N**

Check for loose connections or dirty contacts between the ESS PWB and the Foreign Interface, and between the FI and the attached device.

Replace the Foreign Device.

121-338 Foreign Interface Answer Time Out Failure RAP

Foreign Interface Answer Time Out. An answer from Foreign Interface for something other than a wake-up answer could not be received.

Procedure

CAUTION

Do not attempt to troubleshoot this circuit by jumpering the Transmit Data or Receive Data lines on the ESS PWB. This will destroy the serial port on the ESS PWB.

Switch the power off, then on. **The problem continues.**

Y **N**

Check for loose connections or dirty contacts between the ESS PWB and the Foreign Interface, and between the FI and the attached device.

Switch off the power. Disconnect the device from the FI. Connect a jumper from pin 1 to pin 3 on J940 on the Foreign Interface. Switch on the power. **The fault code is still present.**

Y **N**

Repair or replace the Foreign Device.

Reinstall the ESS software (GP 7).
If the problem continues, replace the Foreign Interface
If the problem continues, replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

121-339 Changed Price Table RAP

With the machine turned on, unit price information was changed.

Initial Actions

Power Off/On

Procedure

Ask customer to verify the pricing information.

121-340 EP Accessory Mismatch RAP

The combination of accessories that are installed does not match the specifications.

Initial Actions

Power Off/On

Procedure

Check the electrical connections on the HDD (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45)
If the problem persists reload Software (GP 7).
If the problem persists perform Initialize Hard Disk.
If the problem persists reinstall or replace the EPSV-IF board (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
If the problem persists pull out and insert or replace the DDR DIMM (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

121-350 Foreign Interface Logic Failure RAP

Foreign Interface Logic Failure. A problem occurred during software processing, and processing could no longer continue.

Procedure

CAUTION

Do not attempt to troubleshoot this circuit by jumpering the Transmit Data or Receive Data lines on the ESS PWB. This will destroy the serial port on the ESS PWB.

Switch the power off, then on. **The problem continues.**

Y **N**

Check for loose connections or dirty contacts between the ESS PWB and the Foreign Interface, and between the FI and the attached device.

Switch off the power. Disconnect the device from the FI. Connect a jumper from pin 1 to pin 3 on J940 on the Foreign Interface. Switch on the power. **The fault code is still present.**

Y **N**

Repair or replace the Foreign Device.

Reinstall the ESS software (GP 7).
If the problem continues, replace the Foreign Interface
If the problem continues, replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

121-370 EP-DX RAP

An EP-DX unexpected error was detected.

Initial Actions

Power Off/On

Procedure

1. Check Software Version, ensure it is the latest version. If not, upgrade software GP 7.
2. Ensure FAX USB cable is securely connected.
3. Contact support for further information.

123-207 Communication Manager Target RAP

A mailbox operations value is incorrect.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC7328/35/45).

123-209 Controller UI Communication RAP

An incorrect check value is received during Controller UI Communications.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC7328/35/45).

123-310 Send Queue RAP

The upper limit of the processing capability for sending data from the UI to the Controller was exceeded.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC7328/35/45).

123-311 Receive Queue RAP

The data received from the Controller exceeded the upper limit of the processing capability in the UI.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC7328/35/45).

123-317 Receive Message Queue RAP

The data received from the Controller exceeded the upper limit of the processing capability in the UI.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-318 Receive Finish Queue RAP

The data received from the Controller exceeded the upper limit of the processing capability in the UI.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-320 NVM Initialized for FCW Composition RAP

Automatic recovery with detection of incorrect value in system data area that is not compatible between different UI panels (FCW/HB).

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-322 UI Target RAP

Serial transmission failed.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-323 UI Address RAP

Serial transmission failed.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-325 Object Creation RAP

The specified object could not be created due to UI software failure and a setting or specification error.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-326 Memory Overflow RAP

The UI software failed and memory capacity is exceeded.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-327 Button Overflow RAP

The UI software failed and memory requirements exceeded the upper limit.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-328 UI Internal Range RAP

UI software failure and a coordinate value outside the range of the display screen is detected.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-329 UI Coordinates RAP

UI software failure and a coordinate value that cannot be displayed is detected.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-332 I/F Fail (Invalid Parameter CP) RAP

ESS PWB Internal UI-SW failure.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).

123-333 Interface Communication RAP

The system detected that transmission with the Control Panel could not be established.

The H/W connection in the UI is faulty and the internal connection isn't detected.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-337 Frame Data RAP

The UI software failed and an incorrect data type value is detected.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-341 Event Queue RAP

The UI software failed with a full event queue.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-342 Event Queue RAP

The UI software failed with an empty queue.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-343 Invalid Class RAP

The UI software failed.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-344 Invalid Type RAP

The UI software failed.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-345 Timer Queue Full RAP

The UI software failed an event timer.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-346 Invalid Timer Number RAP

The UI software failed a timer routine.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-350 One Touch Key Fail (MCW) RAP

In Initialization at PowerOn, number of one-touch keys (HW) mismatch inside MCW-Panel (ControlPanel DriverSW) detected (Number of keys mismatch).

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem continues reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-362 Object RAP

The UI software failed with no object definition.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-368 UI Memory RAP

There is insufficient memory or the connection failed.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-369 Interface Value RAP

The UI software failed with an invalid interface value.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-370 Interface Length RAP

There is an error in the parameter sent from the Controller.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-371 Interface Parameter RAP

There is an error in the parameter sent from the Controller.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-372 Interface Sequence RAP

The initialization command from the Controller was not sent within the specified time.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-373 Channel RAP

There is an error in the channel sent from the Controller.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-374 User Job ID RAP

There is an error in the Job ID parameter sent from the Controller.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-375 Internal Resource RAP

The UI software failed.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-376 Internal Memory RAP

The UI software failed.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-377 UI Timer RAP

The UI software failed.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-378 Interface Format RAP

There is an error in the data format sent from the Controller.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-379 Dispatch RAP

The UI software failed.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-380 Copy Interface RAP

The UI software failed.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-381 Fax Interface RAP

The UI software failed.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-382 Scanner Interface RAP

The UI software failed.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-383 Report Interface RAP

The UI software failed.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-384 Server Access RAP

The UI software failed.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-385 Service Object RAP

There is an invalid service object overflow failure.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-386 Service Object RAP

There is an invalid service object attribute failure.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-387 Service Object RAP

There is an invalid service object attribute failure.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-388 Attribute RAP

The UI software failed attribute control.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-389 UI Comparator RAP

The UI software failed comparator management.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-390 Job Parameter RAP

The UI software failed job parameter control.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-391 Job Parameter RAP

The UI software failed job parameter control.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-392 Auditron RAP

The UI software failed auditron control.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-393 UI Compiling RAP

The UI software failed a compiler function.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-394 File Access RAP

The UI software failed a file access routine.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-395 UI NVM RAP

The UI software failed an NVM access routine.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-396 UI Software RAP

The UI software failed.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-397 UI Manager RAP

The UI software failed.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-398 Release Queue RAP

The UI software failed a full queue release.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-399 UI Internal RAP

The UI software failed.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

123-400 Internal Interface RAP

There is insufficient memory capacity or an internal error or invalid interface sequencing or a corrupt parameter was entered.

Initial Actions

Power Off/On

Procedure

- Disconnect and reconnect the electrical connections on the UI PWB and the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists reload software (GP 7).
- If the problem persists replace the UI PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).
- If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC 7328/35/45).

124-310 Product Designation RAP

There is an error in the product designation nomenclature.

Procedure

Go to Machine ID/Billing Data Settings.

124-311 Product Serial Number RAP

There is an error in the product serial number.

Procedure

Go to Machine ID/Billing Data Settings.

124-312 Machine Codes Mismatch RAP

The machine codes do not match.

Procedure

Go to Machine ID/Billing Data Settings.

124-313 Serial Number RAP

The serial numbers did not match.

Procedure

Go to Machine ID/Billing Data Settings.

124-314 IOT Speed RAP

The IOT is not running at the correct speed.

Procedure

Execute NVM Read/Write. Compare the following values.

[700-600]

[700-601]

[700-602]

The 3 values match.

Y N

Go to Machine ID/Billing Data Settings.

Replace the ESS PWB (PL 13.2 WC7228/7235/7245) or (PL 13.4 WC7328/7335/7345).

124-315 IOT Speed Mismatch RAP

There is an IOT speed mismatch.

Procedure

Execute NVM Read/Write. Compare the following values.

[700-600]

[700-601]

[700-602]

The 3 values match.

Y N

Go to Machine ID/Billing Data Settings.

Replace the ESS PWB (PL 13.2 WC7228/7235/7245) or (PL 13.4 WC7328/7335/7345).

124-316 Product Mode RAP

There is an error in product mode of operation.

Procedure

Go to Machine ID/Billing Data Settings.

If the problem persists replace the MCU PWB (PL 13.1).

If the problem persists replace the ESS PWB (PL 13.2 WC7228/7235/7245) or (PL 13.4 WC7328/7335/7345).

124-317 All Product Mode RAP

There is an error in all modes of product operation.

Procedure

Go to Machine ID/Billing Data Settings.

If the problem persists replace the MCU PWB (PL 13.1).

If the problem persists replace the ESS PWB (PL 13.2 WC7228/7235/7245) or (PL 13.4 WC7328/7335/7345).

124-318 Product Type Software Key RAP

There is a mismatch between the software key and the type of product.

Procedure

Power Off then On.

Go to Machine ID/Billing Data Settings.

If the problem persists replace the MCU PWB (PL 13.1).

If the problem persists replace the ESS PWB (PL 13.2 WC7228/7235/7245) or (PL 13.4 WC7328/7335/7345).

124-319 All Product Types Software Key RAP

There is a mismatch between the software key and any type of product.

Procedure

Power Off then On.

Go to Machine ID/Billing Data Settings.

If the problem persists replace the MCU PWB (PL 13.1).

If the problem persists replace the ESS PWB (PL 13.2 WC7228/7235/7245) or (PL 13.4 WC7328/7335/7345).

124-320 EPROM RAP

A write error occurred in the BP PWB SEEPROM.

Procedure

Remove / reinsert SEEPROM on BackPlane (BP PWB) (PL 13.1). If problem still persists replace the ESS PWB (PL 13.2 WC7228/7235/7245) or (PL 13.4 WC7328/7335/7345).

124-321 Backup SRAM RAP

A failure occurred when setting the M/C serial number.

Procedure

Check the connection of each ESS PWB connector and daughter Cards (RAM, ROMs etc.). **The connectors are securely connected.**

Y **N**

Reseat the connectors.

Turn on the power again. **The problem persists.**

Y **N**

Return to Service Call Procedures.

Go to Machine ID/Billing Data Settings.

If the problem persists replace the ESS PWB (PL 13.2 WC7228/7235/7245) or (PL 13.4 WC7328/7335/7345).

124-322 Software Key RAP

There is a software key mismatch.

Procedure

Go to Machine ID/Billing Data Settings.

If the problem persists replace the ESS PWB (PL 13.2 WC7228/7235/7245) or (PL 13.4 WC7328/7335/7345).).

124-323 Software Key Registration RAP

There is a software key registration failure.

Procedure

Go to Machine ID/Billing Data Settings.

If the problem persists replace the ESS PWB (PL 13.2 WC7228/7235/7245) or (PL 13.4 WC7328/7335/7345).).

124-324 All Billings Mismatch RAP

All Billings Mismatch

Procedure

Switch the power off, then on. If the problem still exists, go to Machine ID/Billing Data Settings. If the problem continues, replace the ESS PWB (PL 13.2 WC7228/7235/7245) or (PL 13.4 WC7328/7335/7345).) before replacing the MCU PWB (PL 13.1).

124-325 Billing Restoration RAP

Billing counter auto repair failed.

Procedure

Go to Machine ID/Billing Data Settings. Compare the 3 serial numbers **The 3 serial numbers match.**

Y N

Perform Machine ID/Billing Data Settings.

Replace the MCU PWB (PL 13.1). If the problem persists replace the ESS PWB (PL 13.2 WC7228/7235/7245) or (PL 13.4 WC7328/7335/7345).).

124-326 IOT SPEED NOT REGISTERED

The IOT Speed Change Software Key has not been entered.

Procedure

Enter Software Options GP 5. Add the Software Key supplied for the Speed Change.

124-327 IOT SPEED CHANGE SW FAIL

Fatal error occurs during the speed change software enablement process.

The fault could be caused by any of the following:

- The machine could not enter the Diagnostic Mode
- Software Options application error
- SEEPROM Read / Write error
- Reboot Error

Procedure

Go to Machine ID/Billing Data Settings.

If the problem persists replace the MCU PWB (PL 13.1).

If the problem persists replace the ESS PWB (PL 13.2 WC7228/7235/7245) or (PL 13.4 WC7328/7335/7345).).

124-333 ASIC RAP

A decompression error occurred in an ESS ASIC (Application Specific Integrated Circuit).

Initial Actions

Power Off/On

Procedure

Pull out and insert the System Memory (J330 and J331). Switch on the power. **The problem persists.**

Y N

Return to Service Call Procedures.

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

Y N

Connect the connectors.

Turn on the power again. **The problem persists.**

Y N

Return to Service Call Procedures.

Replace the ESS PWB (PL 13.2 WC7228/7235/7245) or (PL 13.4 WC7328/7335/7345).).
If the problem persists replace the System Memory (PL 13.2 WC7228/7235/7245) or (PL 13.4 WC7328/7335/7345).).

124-334 ESS ROM 1 RAP

An error was detected in ESS ROM 1.

Procedure

Replace the ESS ROM 1 (PL 13.2 WC7228/7235/7245) or (PL 13.4 WC7328/7335/7345).). If the problem continues, replace the ESS PWB (PL 13.2 WC7228/7235/7245) or (PL 13.4 WC7328/7335/7345).).

124-335 ESS ROM RAP

BSD-ON:16.1

The ESS ROM could not be detected.

Initial Actions

Power Off/On

Procedure

Pull out and reinsert the ESS ROMs (PL 13.2 WC7228/7235/7245) or (PL 13.4 WC7328/7335/7345).). Switch on the power. **The problem persists.**

Y **N**

Return to Service Call Procedures.

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

Y **N**

Connect the connectors.

Turn on the power again. **The problem persists.**

Y **N**

Return to Service Call Procedures.

Replace the ESS ROMs (PL 13.2 WC7228/7235/7245) or (PL 13.4 WC7328/7335/7345).).
f the problem persists replace the ESS PWB (PL 13.2 WC7228/7235/7245) or (PL 13.4 WC7328/7335/7345).).

124-337 ESS RAM RAP

An error was detected in the ESS RAM.

Procedure

Reinstall or replace the ESS RAM (PL 13.2 WC7228/7235/7245) or (PL 13.4 WC7328/7335/7345).).

If the problem persists replace the ESS PWB (PL 13.2 WC7228/7235/7245) or (PL 13.4 WC7328/7335/7345).).

124-338 Duplicate ROMs RAP

The system detected that a duplicate ROM is installed.

Initial Actions

Check that the correct ESS ROMs are installed, in their correct locations.

Procedure

Pull out and insert or replace the ESS ROMs (PL 13.2 WC7228/7235/7245) or (PL 13.4 WC7328/7335/7345).).

124-339 ROM Mismatch RAP

The system detected that an incorrect ROM DIMM is installed.

Initial Actions

Check that the correct ESS ROMs are installed, in their correct locations.

Procedure

Pull out and insert or replace the ESS ROMs (PL 13.2 WC7228/7235/7245) or (PL 13.4 WC7328/7335/7345).).

124-372 IOT Controller Software RAP

Due to an error in the software of the IOT Controller, subsequent processes cannot be performed.

Procedure

Reload Firmware (GP 7).

Replace the ESS PWB (PL 13.2 WC7228/7235/7245) or (PL 13.4 WC7328/7335/7345).

124-701 Side Tray to Center Tray RAP

The output destination was changed by the customer from the Side Tray to the Center Tray.

Procedure

No action necessary.

124-702 Finisher Tray to Center Tray RAP

The output destination was changed by the customer from the Finisher Tray to the Center Tray.

Procedure

No action necessary.

124-705 Punching Cancelled RAP

Punching Cancelled. A punch specification was deleted.

Procedure

Repair the Punch using the proper RAP.

124-706 Folding Cancelled RAP

Folding Cancelled. A folding specification was deleted.

Procedure

Repair the Folder Tray using the proper RAP.

124-708 Output Tray Changed Failure RAP

The output tray has been changed to the Sub Tray because a failure was detected in the specified output tray.

Procedure

Repair the specified Output Tray using the proper RAP.

124-709 Side Tray to Center Tray RAP

The sheets entering the stapler exceeded the maximum.

Procedure

Ask customer to check the job setup.

127-310 ESR Task RAP

BSD-ON:16.1 Figure 1

A fatal error occurred in an ESR (External Server Request) Task.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

If the problem persists reload software (GP 7).

If the problem persists pull out and insert or replace the RAM PWBs on the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC7328/35/45).

If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC7328/35/45).

127-311 ExtPRT Failure RAP

ExtPRT

Procedure

This Fault Code may occur when the Controller can detect commands but cannot detect input video, data, or clock.

To recover, check cable connections.

127-337 Job Template HDD Write RAP

BSD-ON:16.1 Figure 1

There was a file access failure during internal polling or an error occurred when writing to the HDD Job Template sector.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

If the problem persists perform Initialize Hard Disk.

If the problem persists reload software (GP 7).

If the problem persists pull out and insert or replace the RAM PWBs on the ESS PWB (PL 13.2 WC 7228/35/45 or PL 13.4 WC 7328/35/45).

If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC7328/35/45).

127-342 Job Template Monitor RAP

BSD-ON:16.1 Figure 1

A system function recall error is detected.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

If the problem persists reload software (GP 7).

If the problem persists pull out and insert or replace the RAM PWBs on the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC7328/35/45).

If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC7328/35/45).

127-353 LPD Software RAP

BSD-ON:16.1 Figure 1

Due to a fatal error that occurred in processing related to the LPD, subsequent processes cannot be performed.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

If the problem persists reload software (GP 7).

If the problem persists pull out and insert or replace the RAM PWBs on the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC7328/35/45).

If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC7328/35/45).

127-354 FTP Server Software RAP

There is a FTP Server software failure.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

If the problem persists reload software (GP 7).

127-396 Mail I/O Software RAP

BSD-ON:16.1 Figure 1

There is an error in Mail I/O processing.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

If the problem persists reload software (GP 7).

If the problem persists pull out and insert or replace the RAM PWBs on the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC7328/35/45).

If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC7328/35/45).

127-398 IPP Software RAP

BSD-ON:16.1 Figure 1

There is an IPP (Internet Printing Protocol) error.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

If the problem persists reload software (GP 7).

If the problem persists pull out and insert or replace the RAM PWBs on the ESS PWB (PL 13.2 WC7228/35/45 or PL 13.4 WC7328/35/45).

If the problem persists replace the ESS PWB (PL 13.2) WC 7228/35/45 PL 13.4 WC7328/35/45.

127-399 JME Software RAP

BSD-ON:16.1 Figure 1

Due to a fatal error that occurred in processing related to the JME, subsequent processes cannot be performed.

Initial Actions

Power Off/On

Procedure

Ask customer to cancel and rerun the job.

If the problem persists reload software (GP 7).

If the problem persists pull out and insert or replace the RAM PWBs on the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC7328/35/45).

If the problem persists replace the ESS PWB (PL 13.2 WC 7228/35/45 PL 13.4 WC7328/35/45).

133-210 Illegal Fax Parameter RAP

BSD-ON: 34.1 Figure 1

The parameter value is incorrect due to reasons such as excessive length.

The required parameter is not sent.

Initial Actions

Power Off/On

Procedure

Check the electrical connections on the FAX PWB (PL 9.4).

If the problem persists replace the FAX PWB (PL 9.4).

133-211 Fax Parameter Value Invalid RAP

BSD-ON: 34.1 Figure 1

A parameter value exceeds the range or the required parameter is not sent.

Procedure

Check the electrical connections on the FAX PWB (PL 9.4).

If the problem persists replace the FAX PWB (PL 9.4).

133-212 Fax Read Error- No Data RAP

BSD-ON: 34.1 Figure 1

The specified data does not exist (incorrect number or channel).

Procedure

Check the electrical connections on the FAX PWB (PL 9.4).

If the problem persists replace the FAX PWB (PL 9.4).

133-213 Fax Read Error- Invalid Data RAP

BSD-ON: 34.1 Figure 1

Corrupted data interrupted a read on the specified data.

Procedure

Check the electrical connections on the FAX PWB (PL 9.4).

If the problem persists replace the FAX PWB (PL 9.4).

133-214 Fax USB Initializing RAP

BSD-ON: 34.1 Figure 1

Fax failed initialization.

Procedure

Check the USB connection. If OK then replace the USB cable (PL 9.4).

If the problem persists replace the FAX PWB (PL 9.4).

133-215 Fax USB Device RAP

BSD-ON: 34.1 Figure 1

There is an error in the Fax USB interface.

Procedure

Check the USB connection. If OK then replace the USB cable (PL 9.4).

If the problem persists replace the FAX PWB (PL 9.4).

133-216 Fax USB Host Fatal RAP

BSD-ON: 34.1 Figure 1

There is a Fax/USB processing error.

Procedure

Check the USB connection. If OK then replace the USB cable (PL 9.4).

If the problem persists replace the FAX PWB (PL 9.4).

133-217 Fax Manager Short of Memory RAP

BSD-ON: 34.1 Figure 1

There is a Fax/USB processing error.

Procedure

Turn the power Off/On.

133-218 Fax Card Message Library Short of Memory RAP

BSD-ON: 34.1 Figure 1

There is a Fax/USB processing error.

Procedure

Turn the power Off/On.

133-219 Fax Work Memory RAP

BSD-ON: 34.1 Figure 1

Memory capacity reached during Fax processing.

Procedure

Turn the power Off/On.

133-220 Fax Control Task RAP

BSD-ON: 34.1 Figure 1

An error during Fax Controller software processing caused a Fax shutdown.

Procedure

Check the electrical connections on the FAX PWB (PL 9.4).

If the problem persists reload software (GP 7).

133-221 Fax Card Boot RAP

BSD-ON: 34.1 Figure 1

The FAX PWB did not respond within the specified time to boot.

Procedure

Check the electrical connections on the FAX PWB (PL 9.4).

If the problem persists reload software (GP 7).

133-222 Fax Card does not respond RAP

BSD-ON: 34.1 Figure 1

The FAX PWB did not respond within the specified time.

Procedure

Check the electrical connections on the FAX PWB (PL 9.4).

If the problem persists reload software (GP 7).

133-223 Fax Card Reset RAP

BSD-ON: 34.1 Figure 1

The controller reset when the FAX PWB did not respond.

Procedure

Check the electrical connections on the FAX PWB (PL 9.4).

If the problem persists reload software (GP 7).

133-224 Controller ROM Fax Card ROM RAP

BSD-ON: 34.1 Figure 1

The Controller detected a version mismatch.

Procedure

Check the electrical connections on the FAX PWB (PL 9.4).

If the problem persists reload software (GP 7).

133-226 Country Code RAP

BSD-ON: 34.1 Figure 1

The Controller detects an invalid country code.

Procedure

Check Country Code setting (GP 17).

133-280 Fax Option Slot 1 Board RAP

BSD-ON: 34.1 Figure 1

Failure was detected on the Fax Option Slot 1 board.

Procedure

Pull out and insert the FAX PWB (PL 9.4). Switch on the power. **The problem persists.**

Y N

Return to Service Call Procedures.

Check the connection of each FAX PWB (PL 9.4) connector. **The connectors are securely connected.**

Y N

Connect the connectors.

Turn on the power again. **The problem persists.**

Y N

Return to Service Call Procedures.

Replace the FAX PWB (PL 9.4).

133-281 Received unknown message RAP

BSD-ON: 34.1 Figure 1

A message not specified in I/F settings was received from the Fax Card.

Procedure

Pull out and insert the FAX PWB (PL 9.4). Switch on the power. **The problem persists.**

Y N

Return to Service Call Procedures.

Check the connection of each FAX PWB (PL 9.4) connector. **The connectors are securely connected.**

Y N

Connect the connectors.

Turn on the power again. **The problem persists.**

Y N

Return to Service Call Procedures.

Replace the FAX PWB (PL 9.4).

133-282 Fax Card Download RAP

BSD-ON: 34.1 Figure 1

An FAX PWB download could not be completed when either a FAX PWB or Fax Controller software failure occurred.

Procedure

Check the electrical connections on the FAX PWB (PL 9.4).

If the problem persists reload software (GP 7).

If the problem continues, replace the FAX PWB (PL 9.4).

133-283 Fax Report Mailbox RAP

BSD-ON: 34.1 Figure 1

The Fax Report mailbox did not open.

Procedure

Check the electrical connections on the FAX PWB (PL 9.4).

If the problem persists reload software (GP 7).

If the problem persists replace the FAX PWB (PL 9.4).

133-700 Staple/Punch Cancelled RAP

The Controller cancelled the Staple/Punch operation due to staple relationship with the print paper, or during data format processing for fax receive document printing in the Controller.

Staple/Punch request is canceled to continue printing.

Procedure

Change Staple/Punch position designation or select paper according to Staple/Punch position.

133-710 Tray Select Fail RAP

Fax receive document is printed with bypass tray when tray inapplicable to Fax is selected.

NOTE: *"Tray mode function in Declaration of Received Paper Size" is provided to select "From which tray fax-received data shall be printed". This error occurs when this function is set to "Enable".*

Even when this function is set to "Disable", this error occurs also in printing of fax report and polling reservation document

To automatically print received FAX/IFAX document, machine automatically selects paper tray and any of the following occurs when tray is selected:

-Selected tray is set as inapplicable tray to fax document printing. machine selects then bypass tray to continue printing.

-Paper size inapplicable to fax is set for selected tray. machine selects then bypass tray to continue printing.

-Paper type unusable for fax is set for selected tray. machine selects then bypass tray to continue printing.

-When error does not correspond to any of the above cases, selected tray may have failure.

This error occurs if any of the above four cases is detected "when customer manually selects paper tray to print document from mailbox".

Procedure

- To set paper size applicable to fax document printing.

A3SEF, A4LEF, B4SEF, B5LEF, A4SEF, A5SEF, B5SEF, LetterSEF, Legal(14inch), Legal(13inch), Ledger, LetterLEF and Half Letter SEF are applicable.

-To set paper type applicable to fax document printing.

Plain paper, Quality paper, Recycle paper, Used paper and user-defined paper are applicable.

-To take any of the following actions when "Tray mode function in Declaration of Received Paper Size" is set to "Enable":

(1) To add tray number that customer wants to designate for printing, to [Function setting]-->[FAX operation control]-->[Tray mode].

(2) To select tray number to be used for printing by customer, among trays set for [Function setting]-->[FAX operation control]-->[Tray mode].

- To contact FX Support Division when none of the above actions is effective.

134-210 Fax Controller Parameter RAP

The parameter value is incorrect or the required parameter is not sent.

Initial Actions

Power Off/On

Procedure

Pull out and insert the Fax PWB (PL 9.4). **The problem persists.**

Y N

Return to Service Call Procedures.

Check the electrical connections on the Fax PWB (PL 9.4). **The connectors are securely connected.**

Y N

Connect the connectors.

Switch on the power. **The problem persists.**

Y N

Return to Service Call Procedures.

Replace the Fax PWB (PL 9.4).

134-211 FAX PWB RAP

A failure is detected on the Fax PWB.

Initial Actions

Power Off/On

Procedure

Check the electrical connections on the Fax PWB (PL 9.4).

If the problem persists replace the Fax PWB (PL 9.4).

202-399 Internal Timer RAP

An internal error was detected in the machine timer.

Initial Actions

Power Off/On

Procedure

Reload Firmware (GP 7).

OF 1-2A IOT +5 VDC LVPS-1

BSD-ON: 1.4 Figure 4

+5 VDC failure.

Procedure

Check that power is switched off. Measure resistance of fuse on +5V LVPS-1. **Resistance is 1 ohm or less.**

Y N

Replace +5V LVPS-1 (PL 9.1).

Switch on the Main Power Switch and measure the AC voltage between the black and white wires at P/J16A on the +5V LVPS-1. **AC Line Voltage is measured.**

Y N

Check the wires between the AC Drive PWB and +5VDC LVPS-1 for an open circuit. If the wires are good, go to the OF 1-4 RAP.

Measure the voltage between P/J511A pins 2 and 7 on the +5V LVPS-1. **+5VDC is measured.**

Y N

Go to the +5 VDC Wirenets (Figure 5). Check for a short circuit to ground. If the wires are OK, replace +5V LVPS-1 (PL 9.1).

The 5V LVPS-1 appears to be working correctly. There may be an open circuit in +5 VDC distribution. Go to the +5 VDC Wirenets (Figure 5).

.

OF 1-2B IOT +5 VDC LVPS-2

BSD-ON: 1.5 Figure 5

+5 VDC failure.

Procedure

Check that p

ower is switched off. Measure resistance of fuse on +5V LVPS-2. **Resistance is 1 ohm or less.**

Y N

Replace +5V LVPS-2 (PL 9.1).

Switch on the Main Power Switch and measure the AC voltage between the black and white wires at P/J16B on the +5V LVPS-2. **AC Line Voltage is measured.**

Y N

Check the wires between the AC Drive PWB and +5VDC LVPS-2 for an open circuit. If the wires are good, go to the OF 1-4 RAP.

Measure the voltage between P/J511B pins 2 and 7 on the +5V LVPS-2. **+5VDC is measured.**

Y N

Switch Off the power. Disconnect P/J511B. Switch on the power.

Measure the voltage between P/J511B pins 2 and 7 on the +5V LVPS-2. **+5VDC is measured.**

Y N

Replace the +5V LVPS-2 (PL 9.1).

There may be a short circuit in +5 VDC distribution. Go to the +5 VDC Wirenets (Figure 1, Figure 2, Figure 3, Figure 4). Disconnect the connectors. Switch the power on. Connect the connectors while monitoring +5 VDC. The +5 VDC supply will shut down when the connector with the shorted circuit is connected.

The +5V LVPS-2 appears to be working correctly. There may be an open circuit in +5 VDC distribution. Go to the +5 VDC Wirenets (Figure 1, Figure 2, Figure 3, Figure 4).

OF 1-2C IOT +5 VDC LVPS-3

BSD-ON: 1.6 (Figure 6)

+5 VDC failure.

Procedure

Check that power is switched off. Measure resistance of fuse on +5V LVPS-OP. **Resistance is 1 ohm or less.**

Y N

Replace +5V LVPS-3 (PL 9.1).

Switch on the Main Power Switch and measure the AC voltage between the black and white wires at P/J16C on the +5V LVPS-3. **AC Line Voltage is measured.**

Y N

Check the wires between the AC Drive PWB and P/J16C on the +5VDC LVPS-3 for an open circuit. If the wires are good, go to the OF 1-4 RAP.

Measure the voltage between P/J511C pins 2 and 7 on the +5V LVPS-3. **+5VDC is measured.**

Y N

Go to the +5 VDC Wirenets (Figure 5). Check for a short circuit to ground. If the wires are OK, replace +5V LVPS-3 (PL 9.1).

The 5V LVPS-3 appears to be working correctly. There may be an open circuit in +5 VDC distribution. Go to the +5 VDC Wirenets (Figure 5).

OF 1-3 IOT +24 VDC

BSD-ON: 1.7 (Figure 7)

BSD-ON: 1.3 (Figure 3)

+24V LVPS is not on.

Procedure

Line voltage is measured between P/J2-4 (BLK) and P/J2-3 (WHT) on the +24V LVPS.

Y N

Check the wires between the AC Drive PWB and +24VDC LVPS for an open circuit. If the wires are good, go to the OF 1-4 RAP.

There is +5 VDC from P/J505-1 on the +24V LVPS to ground.

Y N

Check the +24 V Enable circuit between P/J505 on the +24V LVPS and P/J404 on the MCU PWB. If the wires are OK, replace the MCU PWB (PL 13.1).

Switch off the power. Disconnect P/J502 from the +24V LVPS. Switch on the power. **There is +24 VDC from P/J502 pin1 to pin 8 on the +24V LVPS.**

Y N

Replace the 24V LVPS (PL 9.1).

There may be a short circuit in +24 VDC distribution. Go to the +24 VDC Wirenets. Disconnect the connectors in the distribution network. Switch the power on. Connect the connectors while monitoring +24 VDC. The +24 VDC supply will shut down when the connector with the shorted circuit is connected.

OF 1-4 AC Input Power

BSD-ON: BSD 1.1 (Figure 1)

BSD-ON: BSD 1.2 (Figure 2)

There is an AC input power failure between power cord and AC Drive PWB.

Initial Actions

Check that the required AC Line Voltage is available at the customer power outlet (approx. 110 VAC or 220 VAC depending on region). Inform customer if power is not present, or is incorrect.

Procedure

AC Line Voltage is measured at P/J2 on the +24v LVPS.

Y N

AC Line Voltage is measured between the GFI Breaker P/J72-2 and P/J72-1.

Y N

Check the Power Cord for an open circuit.Check that the GFI has not tripped. If no problems are found, replace the GFI Breaker (PL 9.2).

Measure voltage between P/J39-1 (ACH/BLK) and P/J39-3 (ACN/WHT) on the AC Drive PWB. **AC Line Voltage is measured.**

Y N

Check the connections between the GFI Breaker and the Noise Filter PWB.
If the connections are good, push the small button to reset the GFI Breaker.
If it is not tripped, replace the Noise Filter PWB (PL 9.2).

Measure voltage between FS57 (ACH) on the Main Power Switch and P/J39-3 (ACN/WHT) on the AC Drive PWB. **AC Line Voltage is measured.**

Y N

Repair the open circuit between the Main Power Switch and the AC Drive PWB.

Switch on the Main Power Switch and measure the voltage between FS69 (ACH) on the Main Power Switch and P/J39-3 (ACN/WHT) on the AC Drive PWB. **AC Line Voltage is measured.**

Y N

Replace the Main Power Switch (PL 10.2).

Switch off the main power and check for continuity between FS41 (ACH/BLK) on the AC Drive PWB and the Main Power Switch. If the continuity check fails. Repair the open circuit between the AC Drive PWB (PL 9.2) and the Main Power Switch (PL 10.2).

AC Line Voltage is measured at P/J16A on the +5v LVPS-1

Y N

Check for an open circuit between the LVPS-1 and the AC Drive PWB. **BSD 1.4 (**Figure 4**)**
If an open exists repair the open. If check is OK, Replace the AC Drive PWB. (PL 9.2)

AC Line Voltage is measured at P/J16B on the +5v LVPS-2

Y N

Check for an open circuit between the LVPS-2 and the AC Drive PWB. **BSD 1.5 (**Figure 5**)**
If an open exists repair the open. If check is OK, Replace the AC Drive PWB. (PL 9.2)

AC Line Voltage is measured at P/J16C on the +5v LVPS-3

Y N

Check for an open circuit between the LVPS-3 and the AC Drive PWB. **BSD 1.6 (**Figure 6**)**
If an open exists repair the open. If check is OK, Replace the AC Drive PWB. (PL 9.2)

AC input power to the AC Drive PWB is good. If the problem continues, go to the OF 1-5 RAP.

OF 1-5 Power On RAP

BSD-ON: BSD 1.1 (Figure 1)

BSD-ON: 1.2 (Figure 2)

The machine will not power up after the Main Power Switch has been pressed.

Procedure

Remove the Rear Cover. Tilt out the HVPS Chassis (REP 1.6). Move the Main Power Switch to the **ON** position and check for +5 VDC between the Gray (+) and Violet (-) wires on P/J511A 1 on the +5 VDC LVPS-1. **+5 VDC is measured.**

Y N

Go to the OF 1-2A IOT +5 VDC RAP.

Switch on the Main Power Switch and with black meter lead on machine frame check that there is 0 VDC at P/J590-6 on AC Drive PWB. **Less than +1 VDC is measured.**

Y N

With the Main Power Switch still on, **There is 0 VDC from P/J409 pin 3 on the MCU PWB to frame gnd.**

Y N

Check the wiring from P/J409 pin 2 to P/J409 pin 3, including the Main Power Switch (PL 10.2), for an open circuit. If the wires and Switch are OK, replace the MCU PWB (PL 13.1).

Check the wire between P/J590-6 and P/J412-14 on the MCU PWB for an open circuit. If the wire is good, replace the MCU PWB (PL 13.1).

With the Main Power Switch in the on position and with black meter lead on machine frame check that there is +5VDC at P/J590-7 on AC Drive PWB. **+5 VDC is measured.**

Y N

Check the wires between P/J590 pins 3 and 7 and P/J412 pins 17 and 13 on the MCU PWB. If the wires are OK, replace the MCU PWB (PL 13.1).

Replace the AC Drive PWB (PL 9.2).

OF 2-1 Dark / Blank Display

BSD-ON: BSD 2.7 (Figure 2)

BSD-ON: BSD 2.8 (Figure 3)

UI Display is dark with minimal legibility, or no text or graphics are visible.

Initial Actions

Ensure all external cables and power cords are connected.

Procedure

Switch on the power. Check for any indication of electrical activity at the Control Panel (lit or flashing LEDs, message or partial message on the display, or luminance from the display). **There is some activity in the Control Panel.**

Y N

Switch off the power. Listen for indications of activity as you switch on the power (fans are running paper trays move, etc.). **Activity is detected.**

Y N

Go to the OF 1-3 RAP.

Disconnect the ESS/UI Cable at P/J352. Check the cable for damage or contamination. reseat the cable. Make sure the screws are tightened. If the problem continues, replace parts in the following sequence, until the problem is resolved:

- Control Panel Assembly (PL 18.2).
- ESS/UI Cable (PL 18.1)
- UI PWB (73xx=PL 13.4, 72xx= PL 13.2).
- ESS PWB (73xx=PL 13.4, 72xx= PL 13.2).

The Display is Black

Y N

Reload Software. f the problem is not resolved, replace parts in the following sequence, until the problem is resolved:

- Replace Control Panel Assembly (PL 18.2)
- Replace ESS/UI Cable (PL 18.1)
- Replace the UI PWB (73xx=PL 13.4, 72xx= PL 13.2)
- Replace the ESS PWB (73xx=PL 13.4, 72xx= PL 13.2)

Reload Software. If the problem is not resolved, replace parts in the following sequence, until the problem is resolved:

- ESS PWB (73xx=PL 13.4, 72xx= PL 13.2).
- UI PWB (73xx=PL 13.4, 72xx= PL 13.2).
- Control Panel Assembly (PL 18.2).
- ESS/UI Cable

OF 7-1 Paper Trays

A paper tray problem occurs without a status or fault code.

Procedure

Ensure the protective shield is removed from the rear of the paper trays in the 3 Tray Module or Tandem Tray Module.

NOTE: *The shield protects the paper size actuators during shipping.*

OF 10-1 No IOT Top Tray Offset

Sets are not offset in IOT Top Tray.

Procedure

Enter Component Control [010-001] or [010-002] and select Start. **The Offset Motor energizes.**

Y N

Check the circuit of the Offset Motor (BSD 10.6 - Figure 8).

Repair the offset components as required (PL 2.11).

OF 12-1 Finisher Problem

There is a problem with the Finisher that does not produce a fault code.

Procedure

The machine is equipped with a Advanced / Professional (A/P) Finisher.

Y N

Refer to the Parts List to repair the Office Finisher problem.

- ADJ 12.1 Office Finisher Alignment
- Major Finisher Components (PL 17.1)
- Gate Assembly (PL 17.2)
- H Transport (PL 17.3 PL 17.4)
- Covers (PL 17.5)
- Top Cover and Eject Rolls (PL 17.6)
- Paper Transportation (PL 17.7, PL 17.8)
- Stapler within Finisher (PL 17.9)
- Convenience Stapler (PL 9.4)
- Compiler (PL 17.10)
- Elevator (PL 17.11)
- Exit Assembly (PL 17.12)
- Electrical Components (PL 17.12)
- Rack Assembly (base) (PL 17.14)

Refer to the appropriate procedure to adjust the A/P Finisher.

- ADJ 12.2 A/P Finisher Leveling
- ADJ 12.4 Booklet Fold Skew
- ADJ 12.5 Booklet Fold Position
- ADJ 12.6 Booklet Staple Position (Staple on Fold)
- ADJ 12.7 Booklet Staple Alignment
- ADJ 12.8 Booklet Wrinkle
- ADJ 12.9 Booklet Fold Position (Fine Adjustment)
- ADJ 12.10 Booklet Staple Position (Staple on Fold Fine Adjustment)

OF 13-1 Secure Access RAP

Overview

Xerox Secure Access uses an external device, such as a card reader or biometric device, to authorize access to the machine. This reader then passes the information to the controller, which handles the authentication process including, which GUI screens are displayed, accepting GUI responses, that defines their content and order. The controller can pass user identities and passwords directly to the machine after gathering the data from an external server. All communication is via a secure network link, Figure 1 Network Diagram.

Xerox Secure Access shall be controlled via the CentreWare Internet Services GUI. The active status is displayed in tools within Access Control. If communication cannot be established with the Xerox Secure Access Server the service may be temporarily disabled by touching the now enabled Off button within the Xerox Secure Access tools window. Once communication is reestablished the stored Xerox Secure Access setting shall be restored.

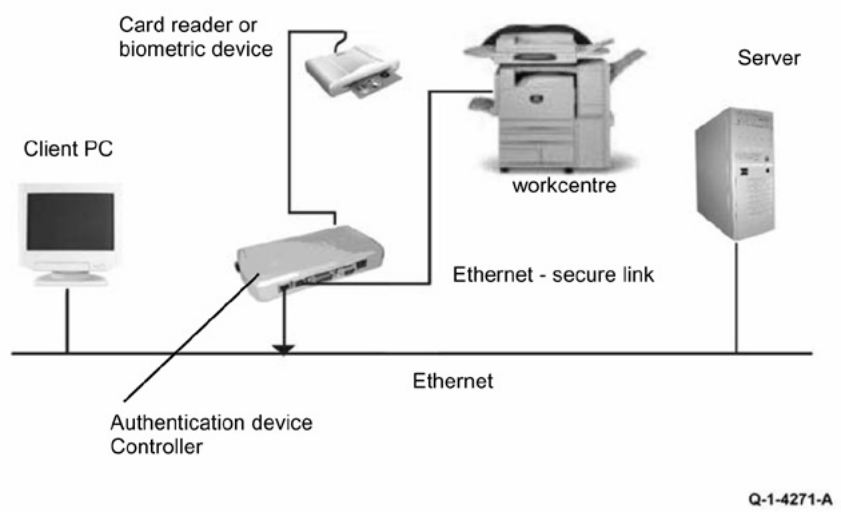


Figure 1 Network Diagram

Initial Action

Before working on the Xerox Secure Access, check out the machine in the service mode to insure no faults are displayed and that the machine is functioning properly. If it is not, repair any problems before proceeding with diagnosing the Secure Access Accessory. Diagnostics can be entered to test copier functionality when Secure Access is installed.

Perform the following steps

- Check the connection between the Card Reader and the Secure Access Authentication Device.
- Check for the LED's are on or blinking on the Secure Access Authentication Device. If the LEDs on the Secure Access Authentication Device are not operating, go to Secure Access Authentication Device Failure.

- Check for the LED's are on or blinking on the Card Reader. If the LEDs on the Card Reader are not operating, go to Card Reader Failure.
- If customers have problems of install / setting up, or any other problems related to their Secure Access Administrator, they should refer to the Secure Access System Administrator's Guide or contact Xerox Technical Support.

Secure Access Authentication Device Failure

The primary failure modes are power problems or failed hardware components. The symptom of these failures can be detected by observing the LEDs on the Secure Access Authentication Device, Figure 2.

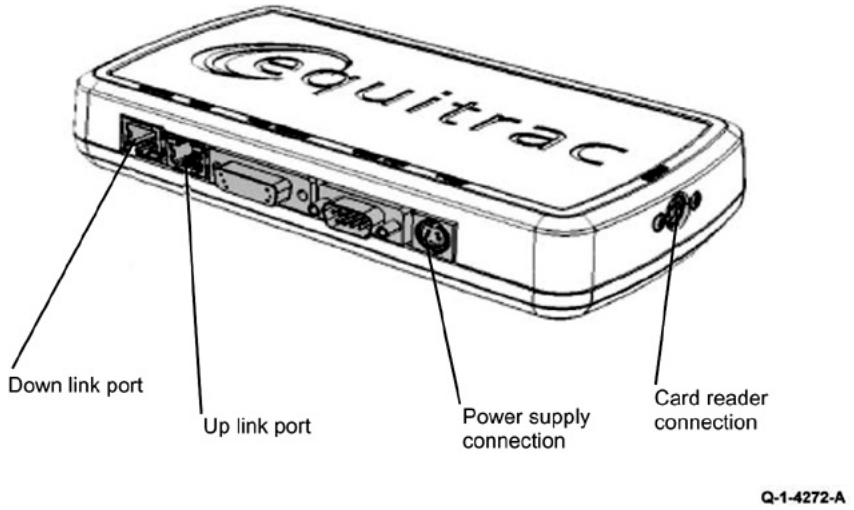


Figure 2 Authentication Device

Check the power to the Secure Access Authentication Device.

- Check the power supply at the wall socket. If there is no power at the wall socket, have the customer restore power and continue when confirmed.
- Disconnect the power cord from the wall socket and the power supply. Check the power cord for continuity and damage. If necessary install a new power cord. Disconnect the power cord from the power supply and plug the power cord into the wall outlet. Using a multimeter, check for line voltage at the end of the power cord disconnected from the power supply. If there is power at the wall but not at the end of the power cord. Install a new power cord.
- Disconnect the small power cord from the Secure Access Authentication Device. Check there is +5V at the connector that plugs into the Secure Access Authentication Device. If there is no +5V, install a new power supply.
- There is a 'Keyed' switch on the end of the Secure Access Authentication Device. Obtain the key from the customer. Insert the key into the 'keyed' switch and cycle the switch 1 quarter turn clockwise and then back to its start position. Observe the LEDs and listen for an audible tone.
- If the LEDs on the Secure Access Authentication Device "Uplink" and "Downlink" Ethernet ports do not cycle on and off as the controller goes through its boot-up process, or if the audible tone is not heard. Install a new Secure Access Authentication Device.

  NOTE: *A new device will require the Secure Access Administrator to reconfigure the server with the new MAC address for the new part. Be sure to inform the Secure Access Administrator of the MAC address of the device being removed and the MAC address of the new device.*

Card Reader Failure

The primary failure modes are power problems or failed hardware components. The symptom of these failures can be detected by observing the LED on the Card Reader. Refer to Table 1.

- The Green LED on the Card Reader is On
- The Green LED on the Card Reader Flashes Rapidly
- The Red LED on the Card Reader is On
- The Red LED on Card Reader Flashes Slowly
- The Red LED on Card Reader Flashes Rapidly
- The Card Reader LED's are not On or Blinking

Table 1 LED Symptom Descriptions

When the LED on the card Reader is	Description
Red	The authentication device is in idle mode; there is no active session.
Green	The authentication device is in ready mode; a session is active.
Slow Flashing Red	The authentication device has no connection to the server.
Slow Flashing Green	The authentication device is communicating to the server.
Fast flashing red	Invalid card / password; access denied.

The Green LED on the Card Reader is On

- This indicates an active Secure Access Session and the Card Read correctly corresponds to a valid Secure Access Account.
- If the UI on the machine is locked, check with the customer for a second PIN number for additional security. This PIN number will need to be entered via the soft keys on the UI.
- Ensure that the card corresponds to a valid Secure Access Account.

The Green LED on the Card Reader Flashes Rapidly

- This indicates a valid card swipe and in the process of authentication on the server.
- If the UI on the machine is locked, check with the customer for a second PIN number for additional security. This PIN number will need to be entered via the soft keys on the UI.

- If the UI on the machine is locked and no secondary PIN is required. Check that the Xerox Secure Access is installed correctly, and ask customer to check the configuration at the server.

The Red LED on the Card Reader is On

- This indicates the Card Reader is in an idle state. If the red LED remains on, and the UI remains locked after a card is swiped, re-orient the card and re-swipe.
- Try a known good card in the reader. If the other card is working on the problem Card Reader. Ask customer to make sure the card corresponds to a valid Secure Access Account.
- Try the card in a known good reader. If the card is working on a known good Card Reader, it may be a problem with the Secure Access Authentication Device. Check to see is the LEDs on the Secure Access Authentication Device are on.

The Red LED on Card Reader Flashes Slowly

- This indicates the reader is connected to the controller but the controller is not connected to the server. Check the Ethernet green LED on the Authentication Device.
- If the Ethernet green LED on the Authentication Device is off, make sure the connectors of the LAN connections are working properly. If the connections are working, this indicates the network may not work properly. Ask customer to check with Network Administrator.
- If the Ethernet green LED on the Authentication Device is either on or flashing, contact the Secure Access Administrator

The Red LED on Card Reader Flashes Rapidly

- This indicates a valid card but does not correspond to a valid Secure Access Account at the server, test with a known valid user's card.
- If all cards react the same way, this indicates the Server Configuration may not be correct. Ask customer to check the Server Configuration.
- If all the card react this way, this indicates the cards are not valid. Ask customer to check the Server Configuration

The Card Reader LED's are not On or Blinking

- Check to see is the Secure Access is correctly installed.
- If there is still no LED on the Card Reader, install a new the Card Reader.

NOTE: *If there is another working card reader available, the readers can be switched to confirm failure. If the Card Reader is not functioning, the web page of the machine has a setting that will enable UI keypad access. If the users know their card access number, they can use the machine by manually entering their number. The process is as follows:*

1. Go to the machine web page under properties and then security and check the box that says "Allow local user interface initiation".
2. Enable the keypad and test with valid credentials. This will validate the rest of the secure access function.
3. Leave it in this mode until the new card reader can be installed.

OF 99-1 Reflective Sensor RAP

Sensors consist of a light-emitting diode and a photo transistor. When energized, the light from the LED causes the photo transistor to conduct, drawing current through a pull-up resistor. The voltage drop across the resistor causes the input signal to the control logic to change from a high to a low.

Reflective sensors operate by light from the LED being reflected off the paper to the photo transistor, causing the output of the sensor to go to the low (L) state.

Initial Actions

Ensure that the sensor is not actuated.

Procedure

Enter the component control code indicated in the Procedure and/or Circuit Diagram of the RAP that sent you here. Actuate the sensor using a sheet of paper. **The display changes with each actuation.**

Y N

Clean the sensor and then block and unblock it. **The display changes with each actuation.**

Y N

Access to some sensors in this machine is difficult. Follow the **Y** leg if you can access the sensor connector. Follow the **N** leg if access is not possible. **The sensor connector is accessible.**

Y N

Check the voltage at the output of the PWB or power supply (refer to the Circuit Diagram). In the example for this generic procedure, voltage is provided from J533 on the I/F (MDD) PWB. Check for pull-up voltage for the output signal. This voltage will be either +5 VDC or +3.3 VDC depending on the circuit (refer to the Circuit Diagram for the correct voltage). **The voltage corresponds with the voltage shown in the Circuit Diagram.**

Y N

Check for short circuit(s) that may be loading down the line. Check the power input to the PWB(s). If this does not resolve the problem, replace the PWB.

Refer to the Circuit Diagram. Check the wires from the PWB to the sensor for opens, shorts, or loose contacts. If the wires are OK, replace the sensor. If this does not resolve the problem, replace the PWB

The display indicates a constant L.

Y N

Check for +5VDC to the sensor (typically pins 1 and 3 on a 3 pin connector). +5 VDC is present.

Y N

Use the circuit diagram and/or the wirenets in Section 7 to trace the problem.

Disconnect the sensor. Use a jumper wire to connect the output wire from the sensor (typically pin 2 on a 3 pin connector) to DC COM or GND. **The display changes from H to L.**

A B C

A B C

Y N

There is either an open circuit or a failed PWB. Use the Circuit Diagram to trace the output wire to the PWB. If the wire is OK, replace the PWB.

Replace the sensor.

Disconnect the sensor. **The display indicates H.**

Y N

When sensors are unplugged, the input at the PWB should always be high if there is no harness short or PWB failure. Check the output wire from the sensor (typically pin 2 on a 3 pin connector) to the PWB for a short circuit. If the wire is good, replace the PWB. Figure 1 represents a typical sensor for this machine.

The sensor is shorted. Replace the sensor.

Look for unusual sources of contamination.

The sensor and the circuit appear to operate normally. Check the adjustment of the sensor. Clean the sensor. Check for intermittent connections, shorted, or open wires. If the problem continues, replace the sensor.

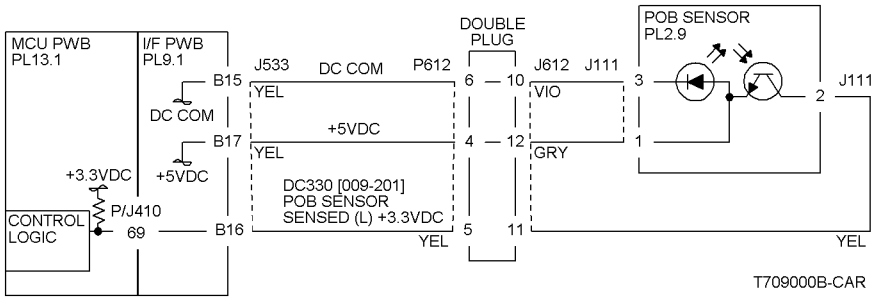


Figure 1 Typical Reflective Sensor Circuit Diagram

OF 99-2 Transmissive Sensor

Sensors consist of a light-emitting diode and a photo transistor. When energized, the light from the LED causes the photo transistor to conduct, drawing current through a pull-up resistor. The voltage drop across the resistor causes the input signal to the control logic to change from a high to a low.

Transmissive sensors have a flag or actuator that is pushed into the space between the LED and transistor, blocking the light beam and causing the output of the sensor to go to the high (H) state. This actuation may be caused by a sheet of paper striking a pivoting flag, or a rotating actuator on a shaft or roll.

Some sensors have built-in inverters and the outputs will go to the low (L) state when the sensors are blocked. In other situations, the processing of the signal in control logic may cause the logic level displayed on the UI or the PWS to be the opposite of the actual voltage output by the sensor. The specific RAP and/or Circuit Diagram will indicate if this is the case. Figure 1 is an example of a typical sensor circuit for this machine

Procedure

Enter the component control code indicated in the specific RAP and/or Circuit Diagram. Block and unblock the sensor. **The display changes with each actuation.**

Y N

Clean the sensor and then block and unblock it. **The display changes with each actuation.**

Y N

Access to some sensors in this machine is difficult. Follow the **Y** leg if you can access the sensor connector. Follow the **N** leg if access is not possible. **The sensor connector is accessible.**

Y N

Check for +5VDC at the output of the PWB or power supply. Refer to the Circuit Diagram. In the example for this generic procedure, voltage is provided from J533 on the I/F (MDD) PWB. Check for pull-up voltage for the output signal. This voltage will be either +5 VDC or +3.3 VDC, depending on the circuit. Refer to the circuit diagram for the correct voltage.

Y N

Check for short circuit(s) that may be loading down the line. Check the power input to the PWB(s). If this does not resolve the problem, replace the PWB.

Refer to the Circuit Diagram. Check the wires from the PWB to the sensor for opens, shorts, or loose contacts. If the wires are OK, replace the sensor. If this does not resolve the problem, replace the PWB

The display indicates a constant L

Y N

Check for +5VDC to the sensor (typically pins 1 and 3 on a 3 pin connector). +5 VDC is present.

Y N

Use the circuit diagram and /or the wirenets in Section 7 to trace the problem.

A B C D

A B C D

Disconnect the sensor. Use a jumper wire to connect the output wire from the sensor (typically pin 2 on a 3 pin connector) to DC COM or GND. **The display changes from H to L.**

Y N

There is either an open circuit or a failed PWB. Use the Circuit Diagram to trace the output wire to the PWB. If the wire is OK, replace the PWB.

Replace the sensor.

Disconnect the sensor. **The display indicates H.**

Y N

When sensors are unplugged, the input at the PWB should always be high if there is no harness short or PWB failure. Check the output wire from the sensor (typically pin 2 on a 3 pin connector) to the PWB for a short circuit. If the wire is good, replace the PWB. Figure 1 represents a typical sensor for this machine

The sensor is shorted. Replace the sensor.

Look for unusual sources of contamination.

The sensor and the circuit appear to operate normally. Check the adjustment of the sensor. Clean the sensor. Check the sensor actuator/flag for proper operation. Check for intermittent connections, shorted, or open wires. If the problem continues, replace the sensor.

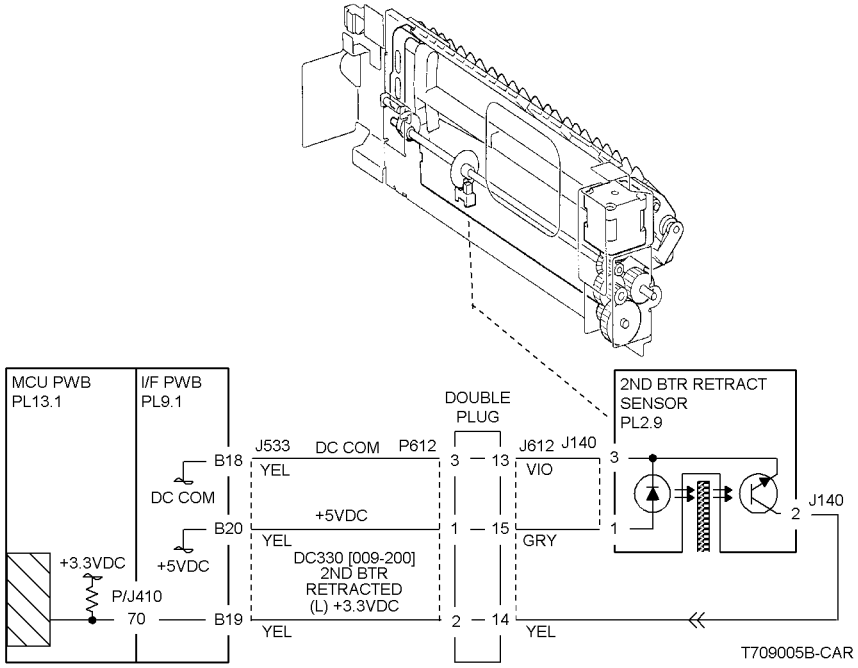


Figure 1 Typical Transmissive Sensor Circuit Diagram

OF 99-3 Switch

Procedure

Enter Component Control [XXX-XXX]. Actuate the switch. **The display changed.**

Y N

There is +3.5 / 5VDC measured between Pin 2(+) of the Switch and GND(-).

Y N

Check the wire between the switch Pin 2 and the PWB Pin 3 for an open circuit and poor contact. If the check is OK, replace the PWB.

There is +3.5 / 5VDC measured between Pin 1(+) of the Switch and GND(-).

Y N

Replace the switch.

Check the wire between the PWB Pin 4 and the switch Pin 1 for an open circuit and poor contact. If the check is OK, replace the PWB.

De-actuate the switch. **The display changed.**

Y N

Disconnect the connector on the switch. **The display changed.**

Y N

Check for a short between the switch Pin 2 and the PWB Pin 3. If the check is OK, replace the PWB.

Replace the switch.

Replace the switch.

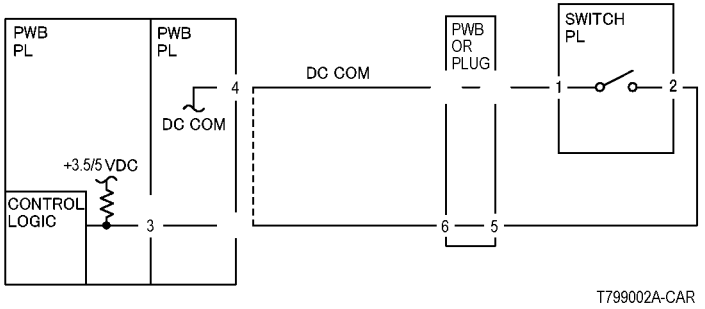


Figure 1 2003

OF 99-4 Generic Solenoid/Clutch RAP

Solenoids and electric clutches are essentially electromagnets. Typically, a positive voltage is applied to one end of a coil, and a current driver is connected to the other end. Control Logic switches this driver to GND potential, actuating the magnet. Bi-directional solenoids have a bipolar driver connected to each end. One leg is switched to 24 VDC and the other to GND.

Figure 1 is a circuit diagram of a typical solenoid.

Initial Actions

Ensure that there is no damage or binding in the solenoid or in any mechanical linkage. If there is an Adjustment for the clutch or solenoid, make sure that the procedure was performed correctly

Procedure

The clutch/solenoid is always energized.

Y N

Enter the component control code (Component Control) given in the RAP or the Circuit Diagram. Press the **Start** button **The Clutch or solenoid energizes.**

Y N

Press the **Stop** button **There is +24 VDC between the switched leg (J407 pin A6 in the example, Figure 1) of the control PWB and GND.**

Y N

There is +24 VDC between the powered leg (J407 pin A7 in the example, Figure 1) of the control PWB and GND.

Y N

Disconnect the connector (J407 in the example, Figure 1). **There is +24 VDC between the powered leg of the control PWB and GND.**

Y N

Refer to the 24 VDC wirenets. check the input power to the control PWB. **+24 VDC is present.**

Y N

Use the 24 VDC wirenets to troubleshoot the problem.

Replace the control PWB.

Check the wire in the powered leg of the circuit, (J407 pin A7 in the example, Figure 1) for a short circuit to GND. If the wire is OK, replace the clutch or solenoid.

Disconnect the connector (J407 in the example, Figure 1). Check continuity through the two wires and the clutch or solenoid. **There is less than 100 ohms between the two legs of the circuit.**

Y N

Disconnect the clutch or solenoid.Check continuity through the two wires and the clutch or solenoid. **There is less than 100 ohms across the clutch or solenoid.**

Y N

Replace the clutch or solenoid.

A B C D E

One of the two wires between the control PWB and the clutch or solenoid is open. Repair or replace the wiring as required.

Replace the control PWB.

Press the **Start** button. **There is less than 1 VDC between the switched leg of the control PWB and GND.**

Y N

Replace the PWB.

Replace the clutch or solenoid.

The clutch or solenoid appears to be functioning correctly. Refer to the Circuit Diagram for the RAP that sent you here. Check the wires for loose connections or damage that may cause intermittent operation. Perform any required adjustments.

There is a short circuit on the switched leg (J407 pin A6 in the example) from the solenoid or clutch. Check the wire for a short circuit to GND. If the wire is OK, replace the solenoid. If the problem persists, replace the controlling PWB.

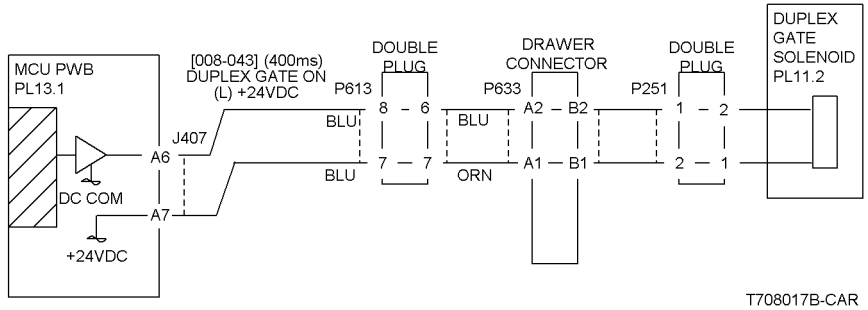


Figure 1 Typical Solenoid/Clutch Circuit Diagram

A B C D E

OF 99-6 2 Wire Motor Open

Procedure

NOTE: *Before performing this RAP, ensure that the motor is free to rotate.*

Enter the Component Control [XXX-XXX].
There is +24VDC measured between Pin 3(+) of the PWB and GND(-).

Y N

There is +24VDC measured between the Motor Pin 2(+) of the Motor and GND(-).

Y N

There is +24VDC measured between the Motor Pin 1(+) of the Motor and GND(-).

Y N

There is +24VDC measured between the PWB Pin 4(+) of the PWB and GND(-).

Y N

Replace the PWB.

Check the wire between the PWB Pin 4 and the Motor Pin 1 for an open circuit or poor contact.

Replace the motor.

Check the wire between the PWB Pin 3 and the Motor Pin 2 for an open circuit or poor contact.

Replace the PWB.

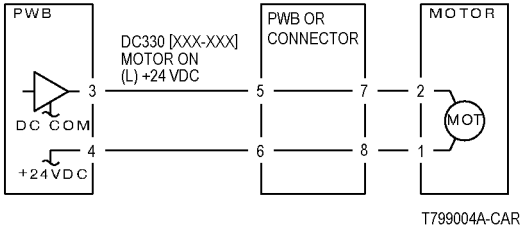


Figure 1 Motor CD

OF 99-7 2 Wire Motor On

Procedure

Turn off the power. Remove the PWB connector. **There is 10 Ohm's or less measured between the connector Pin 3 and the frame.**

Y N

Replace the PWB.

Check the wire between the connector Pin 3 and the motor Pin 2 for a short circuit.
If the check is OK, replace the motor.

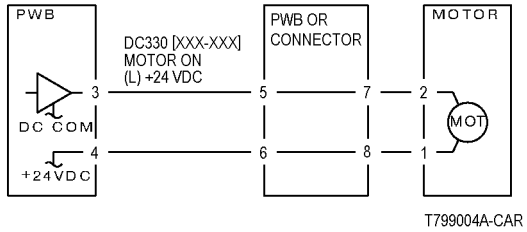


Figure 1 Motor CD

OF 99-8 Set Gate Solenoid Open

Procedure

There is +24VDC measured between the Nip/Release Solenoid Pin 1 (+) and GND (-).

Y N

There is +24VDC measured between the PWB Pin 5 (+) and GND(-).

Y N

Check +24VDC inputs on the PWB. If the check is OK, replace the PWB.

Check the wire between the PWB Pin 5 and the Nip/Release Solenoid Pin 1 for an open circuit or poor contact.

Enter Component Control [XXX-XXX]. **There is +24VDC measured between the PWB Pin 4 (+) and GND(-).**

Y N

There is +24VDC measured between the Nip/Release Solenoid Pin 3 (+) and GND (-).

Y N

Replace the Nip/Release Solenoid.

Check the wire between the PWB Pin 4 and the Nip/Release Solenoid Pin 3 for an open circuit and poor contact.

Follow the following when the release caused a problem.

Go to the Component Control [XXX-XXX]. **There is +24VDC measured between the PWB Pin 6 (+) and GND(-).**

Y N

There is +24VDC measured between the Nip/Release Solenoid Pin 2 (+) and GND (-)

Y N

Replace the Nip/Release Solenoid.

Check the wire between the PWB Pin 6 and the Nip/Release Solenoid Pin 2 for an open circuit or poor contact.

Replace the PWB.

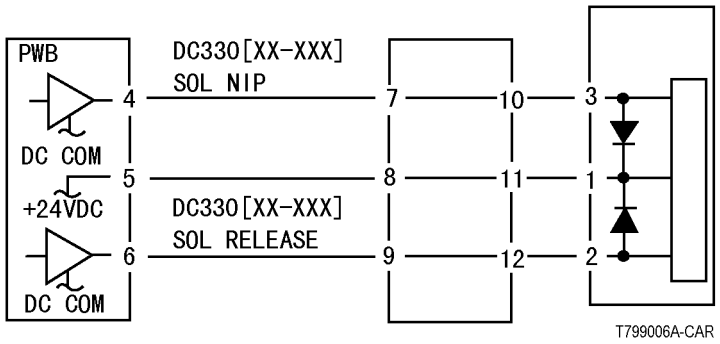


Figure 1 Nip Solenoid CD

OF 99-9 Multiple Wire Motor

For use on DC motors that:

- have 1 or 2 DC power inputs
- are controlled by 2 or more drivers
- have no DC COM connections for return power
- have no specific feedback circuits

Procedure

Connect black meter lead to ground. Measure voltage at each pin of J2 (example only, refer to the actual Circuit Diagram for the correct voltage and connector designation). **+24 VDC is measured at each pin.**

Y N

Disconnect J2. Measure voltage at P2-1 and P2-6. **+24 VDC is measured.**

Y N

Switch machine off then on. Measure voltage at P2-1 and P2-6. **+24 VDC is measured.**

Y N

If an interlock circuit is present, check the interlock circuit. Repair as required. If the interlock circuit is good, replace the PWB.

Check the motor wires for a short circuit. If the wires are good, replace the Motor.

Check the motor wires for obvious damage. If the wires are good, replace the Motor.

Replace the PWB.

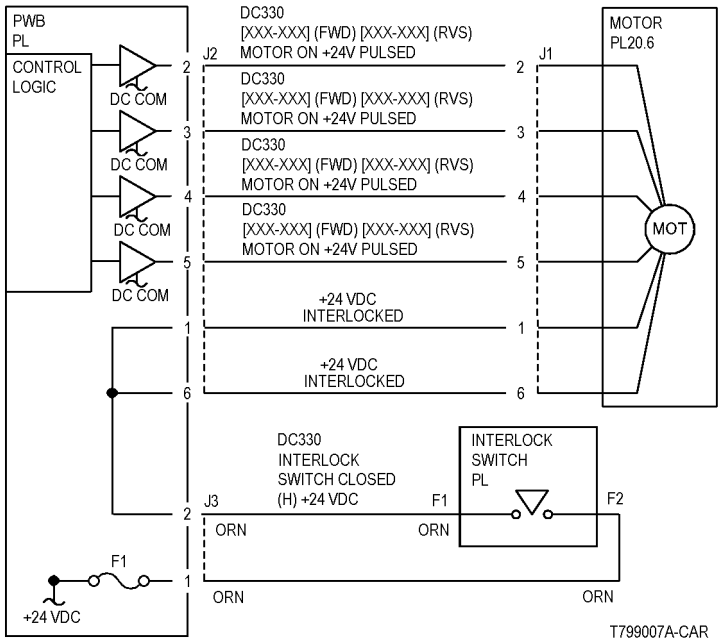


Figure 1 Motor CD

3 Image Quality

Image Quality RAPs

Defect Samples

IQ1 IOT Image Quality Entry RAP

The purpose of this RAP is to serve as the entrance vehicle into the Image Quality RAPs section. All Image Quality RAPs must be accessed through this RAP.

The RAP will have you evaluate the copies made during the Call Flow procedure for image quality defects. It will refer you to the Image Quality Analysis RAPs, the Image Quality Defect section in order to diagnose and repair any image quality problems.

Initial Actions

Check for the presence of the defect in Copy mode and in Print mode. If the problem occurs in Copy mode only, go to the IQ2 RAP.

NOTE: *Calibration Adjustment (refer to* ***Machine Administration User Guide****) is a color calibration for the copier and printer. A Calibration Adjustment compensates for differences between the actual and the expected (target) toner densities for each color. A Calibration Adjustment should be performed whenever there is a noticeable change in the appearance (quality) of the output, particularly changes in color tones or densities. Performing a Calibration Adjustment on a regular basis will help to maintain consistent color quality over time.Since a Calibration Adjustment can affect all jobs for all users, it is recommended that this procedure be performed only by the Machine Administrator.*

Ask the customer SA to perform the Calibration Adjustment if any of the following problems are reported:

- Incorrect colors
- Poor gray balance
- Colors have shifted over time
- Color densities too high or low

Continue with the procedure if the problem remains.

Procedure

Go to Table 1. Examine the prints for any of the listed defects. Perform the corrective action that is listed.

Table 1 Image Quality Defects

Defect - green indicates hotlink to image samples	Description	Corrective Action
Background	Undesirable toner deposits on the copy or print. The toner deposits can be localized or may cover the entire copy or print. Depending on the density of the background, it is referred to as low, medium, high, or very high background. It may occur in all colors, single colors, or any combination of single colors.	Go to the IQ6 RAP
Color Misregistration	Multi-colored images that should be superimposed are offset. This offset may be in the process direction or perpendicular to process direction.	Go to the IQ8 RAP
Deletions • Debris-Centered Deletions • Streak Deletion in Process Direction	The undesirable absence of toner from the copy or print. May show as white, light, or untrue colored areas. The most common causes are “tenting” of paper from mishandling or moisture, or defects in the Transfer Belt. • Debris-Centered: Deletions in the areas surrounding toner agglomerates. • Process Direction Streak: A deletion in the form of a single streak that runs from the lead edge to the trail edge of the copy.	Go to the IQ7 RAP (for process direction streak deletion, go to the IQ12 RAP
Fuser Offset	Areas of poorly-fused toner are lifted from one area of a print and deposited on a different area, or onto a subsequent print.	Go to the IQ16 RAP
High Frequency Bands	Repeating interval bands that are most noticeable in low density (20-30%) halftone areas of the copy. These bands run perpendicular to process direction.	Go to the IQ14 RAP
Irregular Process Direction Streak	Streaks: Usually medium-width streaks of (or shifts in) color most noticeable in low density 20-30%) halftone areas of the copy. A deletion in the form of a single streak that runs from the lead edge to the trail edge of the copy.	Go to the IQ12 RAP
Lead Edge Toner Smear (fused)	Smears of fused toner on the lead edge of prints	Go to the IQ12 RAP
Lead Edge Toner Smear (unfused)	Smears of unfused toner on the lead edge of prints	Go to the IQ13 RAP
Low Image Density	A condition that results when too little toner of a single color or combination of colors is developed on the copy or print. This results in lighter copies or prints for the single-color toner or the color that results from the combination of color toners.	Go to the IQ3 RAP

Table 1 Image Quality Defects

Defect - green indicates hotlink to image samples	Description	Corrective Action
Misregistration/Skew	The position and/or alignment of the image relative to the top edge and side edge of the paper is not within specification.	Go to the IQ9 RAP
Missing Colors	One or more of the primary colors are missing from the image.	Go to the IQ17 RAP
Mottle	Areas of solid, or high density coverage that are reproduced with a blotchy, non-uniform appearance.	Go to the IQ15 RAP
Regular (Repeating) Bands, Streaks, Spots, or Smears	A defect that repeats at an interval from14 to 264 mm, is most noticeable in low density (20-40%) halftone areas of the copy, and runs perpendicular to process direction. Lines and bands are generally uniform in shape from one end to the other. Streaks are generally shorter than lines and are of nonuniform width along their length. They may have a more ragged or fuzzy appearance than lines.	Go to the IQ14 RAP
Residual Image	A toner image that remains on the photoreceptor or Transfer Belt after cleaning. The next image is placed on top of the residual image and both images are transferred to the next copy.	Go to the IQ5 RAP
Spots	Generally circular in shape, these defects can be caused by an absence of toner in a desired area, or a deposit of toner in an undesired area	Go to the IQ16 RAP
Unfused prints	Image can be rubbed off with little or no pressure	Go to the IQ13 RAP
Wrinkled Image	Areas of 11x17 in./A3 prints have distinctive “worm track” patterns, and/or wrinkles in the paper itself	Go to the IQ4 RAP

IQ2 IIT Image Quality Entry RAP

This RAP is for troubleshooting IIT (Scanner/ADF) problems only. Before proceeding, verify that the defect is present in Copy mode only. If the defect is present in Print mode, go to the IQ1 RAP.

Initial Actions

Clean the Lens, the top and bottom surface of the Platen Glass, and all Mirrors with Lens and Mirror Cleaner and a soft, lint-free cloth.

Procedure

Compare the defective copies with the descriptions listed in Table 1. Perform the corrective action listed for that defect.

Table 1 IIT Image Quality Problems

Defect	Corrective Action
Background	Clean the Platen Belt. Calibrate the IIT (ADJ 9.7).
Blurred or Streaked Copy	Ensure that the Platen Glass is installed correctly. Check/adjust the carriage alignment (ADJ 11.6.1).
R/E error	Check/adjust IIT magnification (ADJ 9.12).
Deletions	Clean the Lens, the top and bottom surface of the Platen Glass, and all Mirrors with Lens and Mirror Cleaner and a soft, lint-free cloth. If the problem persists, replace the Lens Kit (PL 18.4).
Misregistration/Skew	Go to the IQ9 RAP.
Moire Patterns in the image areas of the print that have the appearance of a screen or grid overlaying the image. The pattern may be uniform or nonuniform in area or shape.	• Switch between photo modes and, if necessary, original types, to determine which mode minimizes the defect. • Decrease the **Sharpness** level. • Reduce or enlarge the copy slightly. • Rotate the original on the platen by 90 degrees.
Newton Rings Repetitive, irregular-shaped marks that occur when making copies of glossy photographs. These marks are most noticeable in large low-density or highlight areas.	Clean the Document Glass Place a transparency between the document and the glass

IQ3 Low Image Density RAP

This RAP troubleshoots the causes of output images showing image density lower than specification

Initial Actions

- Clean the ROS windows
- Replace the paper in use with fresh, dry paper of the correct specification
- Determine if the Drum Cartridge or any of the Toner Cartridges are approaching end-of-life. Replace if necessary.
- Perform Max Setup (ADJ 9.1). If this does not resolve the problem, continue with this RAP.

Procedure

Go to Print Test Patterns. Print Test pattern 102. **The defect involves a single color.**

Y N

Go to Print Test Patterns. Print Test pattern 102. Open the Front Door in the middle of the print job (approximately 7 seconds after selecting **Start**). Extend the IBT. **There is a good toner image on the Transfer Belt.**

Y N

Go to the IQ21 RAP to check the Developer Bias. If this does not resolve the problem, go to the IQ20 RAP to check the 1st BTR bias.

If the problem continues, check the ROS for contamination of the windows or misalignment.

Check the 2nd BTR for damage or incorrect installation. Go to the IQ22 RAP to check the Backup Roll bias. If the problem continues, replace 2nd BTR Assembly (PL 7.1). If this does not resolve the problem, replace the Transfer Belt (PL 5.3).

Swap the affected Drum Cartridge with an adjacent unit. Print Test Pattern 102 **The defect moved to the new color.**

Y N

Go to the IQ21 RAP to check the Developer Bias. If this does not resolve the problem, go to the IQ20 RAP to check the 1st BTR bias. If the problem continues, replace the Developer for the affected color (PL 6.2). If this does not resolve the problem, replace the ATC Sensor for the affected color (PL 6.2).

Replace the Drum Cartridge (see CRUs and Consumables in Section 6).

IQ4 Wrinkled Image RAP

Areas of 11x17 in./A3 prints have distinctive “worm track” patterns in the image, and/or wrinkles in the paper itself.

Initial Actions

NOTE: *The following factors will increase the likelihood of this problem:*

- *Lighter weight papers.*
- *Larger papers.*
- *Short-grain 11x17 in / A3 papers.*
- *Old (not freshly opened) paper.*
- *2 sided printing*
- *Fuser with 1100 or more hours of operating life.*

Make the following modifications to the copy/print jobs if possible:

- Ensure that the paper is dry and fresh.
- Use heavier weight paper
- Use long-grain paper.

Procedure

If the problem persists after performing the Initial Actions, replace the Fuser (PL 7.1).

IQ5 Residual Image (Ghosting) RAP

Initial Actions

- Check the end-of-life counter for the Drum Cartridge. If the unit is at or near end-of-life, replace the Drum Cartridge (see CRUs and Consumables in Section 6).

NOTE: *Some ghosting on transparencies is unavoidable.*

- If the problem occurs only with certain types of media, ensure that the media in use is within specification, and that the customer is aware of correct operation of print driver.
- If the distance between the intended image and the residual image has a fixed rate of repetition, go to the IQ14 RAP. Return to this procedure if the problem persists.

Procedure

The problem is with a single primary color

Y N

Remove the Fuser. Examine the Heat Roll and Pressure Roll for evidence of toner offsetting. **There is Toner adhering to the Heat Roll.**

Y N

Check for a residual image on the Transfer Belt. Repair or replace the IBT Cleaner (PL 5.3) as required.
Check the 2nd BTR for contamination. Clean/replace as required

Clean the Heat Roll. If the problem persists, replace the Fuser (PL 7.1).

Check the Erase Lamp for the affected color:

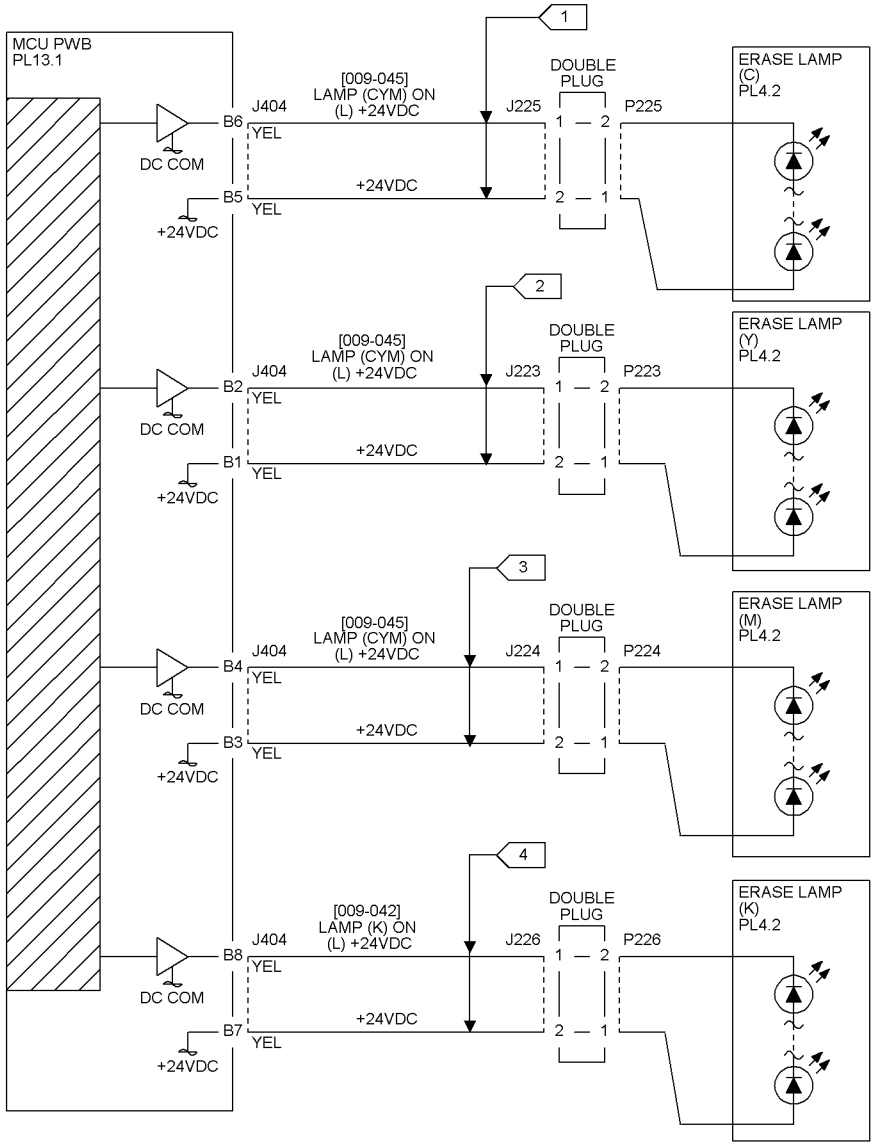
- Enter CC [009-045] (C, Y, or M), or [009-042] (K), as appropriate.
- Remove the Drum cartridge for the affected color.
- check for light along the mounting rail left side

The Erase lamp is lit.

Y N

Go to Flag 1 (C), Flag 2 (Y), Flag 3 (M), or Flag 4 (K). Check for an open circuit. If the wires are OK, replace the Erase Lamp (PL 4.2) for the affected color. If the problem persists, Replace the MCU PWB (PL 13.1).

Go to the IQ21 RAP. Check for a short circuit in the Developer bias circuit of the affected color.



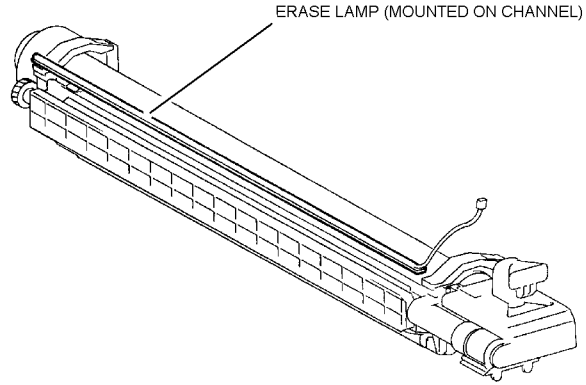


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Figure 1 IQ5 RAP Circuit Diagram

IQ6 IOT Background RAP

Initial Actions

NOTE: *Some background is unavoidable on certain media, such as heavyweight paper and transparencies. Ensure that the customer selects the correct settings on the UI and print driver.*

Perform Max Setup (ADJ 9.1). If this does not resolve the problem, continue with this RAP.

Procedure

The problem is Single Color Background.

Y N

Examine the face of the ADC Sensor. **The ADC Sensor is clean.**

Y N

Go to the 009-684 RAP to troubleshoot the ADC Sensor Solenoid.

Examine the Transfer Belt for excessive dirt, damage, or uncleaned toner. **The Belt is clean.**

Y N

Check the Belt Cleaner for damage or wear. Clean or replace as required.

WARNING

HIGH VOLTAGE!

Exercise care when making the voltage check in the following steps.

Go to the IQ21 RAP to check the Developer bias circuit. If Developer Bias is good, replace the Transfer Belt (PL 5.3). If this does not resolve the problem, replace the 2nd BTR (PL 2.8).

The background is very high and even density, and covers the entire sheet (no edge erase.

Y N

Check the following:

- Check the end-of-life counter for the Toner Cartridge and Drum Cartridge for the affected color. Replace if at or near end-of-life (see CRUs and Consumables in Section 6).
- If the problem continues, examine the Developer Housing for the affected color. Check for toner bridging, uneven brush, or loose High Voltage terminals. Clean, repair, or replace as required (PL 6.2).

Go to the IQ23 RAP.

IQ7 Deletions RAP

Initial Actions

Reload with fresh, dry paper of the correct specifications. If the problem occurs with heavyweight paper, ensure that the correct selections are being made on the print driver and/or UI. If the problem is not resolved, continue with this RAP.

NOTE: *Small white deletions with a sharp edge are usually caused by Fuser offsetting. Go to the IQ16 Spots RAP.*

Procedure

The problem is Debris-Centered Deletions.

Y N

Enter Print Test Patterns. Print Test Pattern 2 at 70% coverage for each color. **The defect is present for all colors.**

Y N

Make several prints of the Test Pattern in the affected color. **The defect is present in approximately the same location on all letter-size prints.**

Y N

Remove the Drum cartridge for the affected color.Check for light from the Erase Lamp along the mounting rail left side **The Erase lamp is lit.**

Y N

Examine the surface of the Drum Cartridge. Check for dents, scratches, or contamination such as fingerprints, etc. **The drum is free from damage.**

Y N

Clean or replace the Drum Cartridge (CRUs and Consumables).

Switch the affected Drum Cartridge with an adjacent unit. **The problem moves with the cartridge.**

Y N

Go to the IQ20 RAP and check Flags 1 through 3 for a loose, corroded, or damaged connection.
Replace the Developer (PL 6.2) for the affected color.

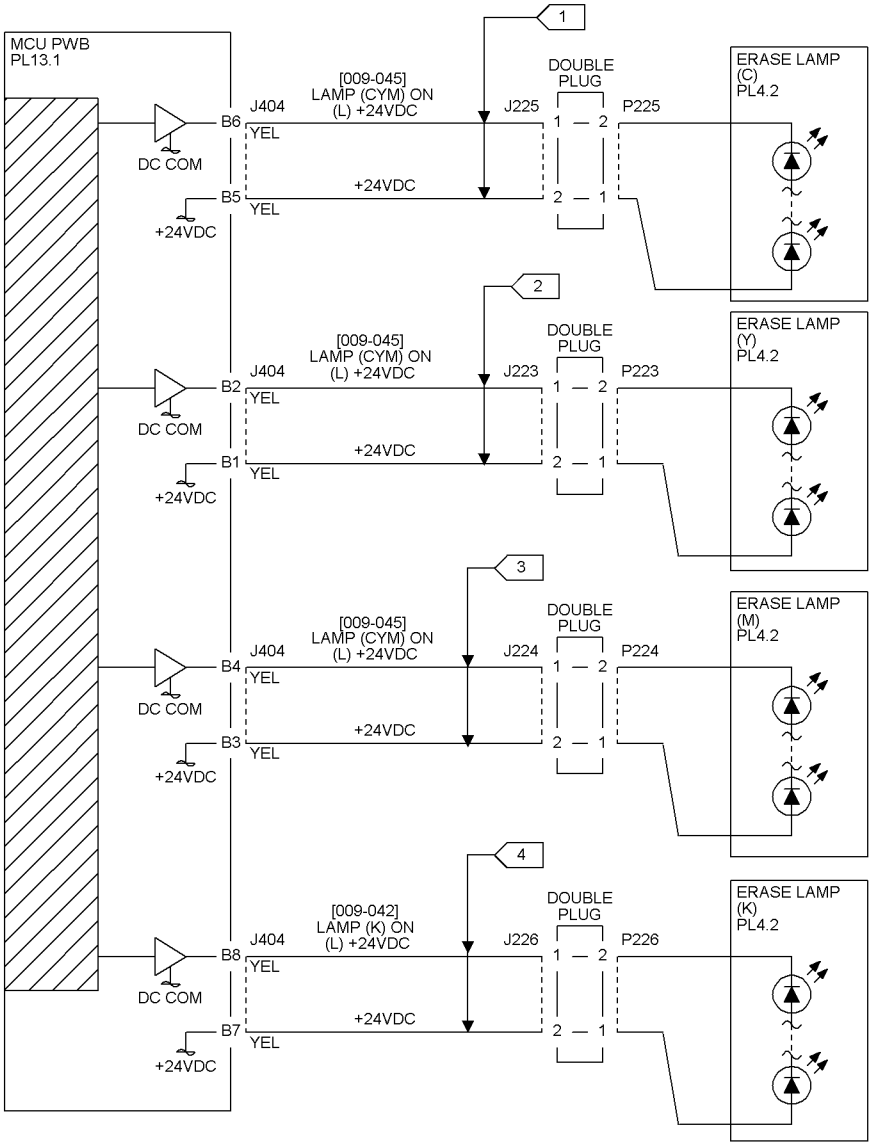
Replace the Drum Cartridge (see CRUs and Consumables in Section 6).

Go to Flag 1 (C), Flag 2 (Y), Flag 3 (M), or Flag 4 (K). Check for a short circuit. If the wires are OK, replace the Erase Lamp for the affected color. If the problem persists, Replace the MCU PWB (PL 13.1).

Remove the ROS. Examine the ROS windows for dirt or damage. Clean or replace as required PL 3.1).

Check the Transfer Belt (PL 5.3) for dirt, damage, or contamination. Clean/replace as required.
Check the 2nd BTR (PL 2.8) for damage or wear. Clean or replace if required.

Examine the spot in the center of the DCD. Replace the Developer (PL 6.2) and Toner Cartridge for the affected color. If the problem persists, replace the Developer Housing for the affected color (PL 6.2).



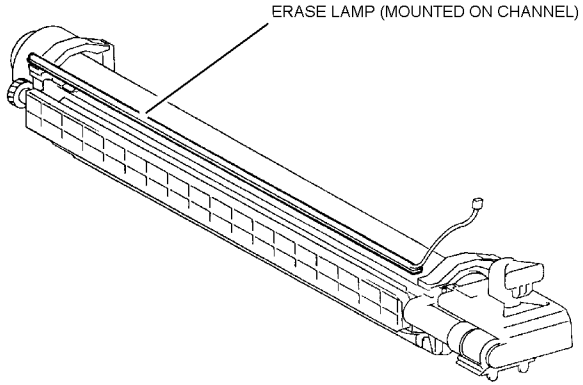


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Figure 1 IQ7 RAP Circuit Diagram

IQ8 Color-to-Color Misregistration RAP

Initial Actions

Adjust the color registration (ADJ 9.6). If the problem remains, continue with this procedure

Procedure

The problem involves a single color.

Y N

Check that the ROS is securely mounted and that the ROS window is not dirty or damaged. If the problem persists, replace the ROS (PL 3.1).

Check the mounting of the Developer Housing for the affected color. Ensure that it is installed correctly and that it is free from damage. Repair or replace as required (PL 6.2).

IQ9 Skew/Misregistration RAP

This RAP is used when Skew, System Registration, or Magnification are out of specification. For Color-to-Color-Misregistration, go to the IQ8 RAP.

Initial Actions

Load some new, dry 24 lb. 11X17/A3 Xerox COLOR Xpressions (NASG), or 90 GSM Colortech + (ESG) into each paper tray (use 8.5X11/A4 in Tray 1). Make 3 full color copies from each paper tray. Mark the appropriate paper tray on these copies.

Procedure

The problem is still present when using the proper paper.

Y N

Explain to the customer that new, dry, 24 lb. Xerox COLOR Xpressions (NASG), or 90 GSM Colortech + (ESG) paper is the specified paper for use in the DocuColor 1632/2240.

The problem occurs only in the printer mode.

Y N

The defect occurs when the document is manually registered on the platen glass.

Y N

Ensure that the Document Transport Belt is clean. Check the Document Handler Adjustments. If the problem continues, check the DADF drive rolls and pinch rolls for wear or glossing.

The problem is Skew

Y N

The problem is Misregistration

Y N

Adjust the IIT Vertical/Horizontal Magnification (ADJ 9.12) and the IOT Lead Edge/Side Edge Registration (ADJ 9.9).

Enter Print Test Patterns. Select Pattern 3. **Misregistration is present on the copy**

Y N

Adjust the IOT Lead Edge/Side Edge Registration (ADJ 9.9), then the IIT Lead Edge and Side Edge Registration (ADJ 9.10 and ADJ 9.11).

The defect occurred on copies from all five paper trays.

Y N

Check the IOT Lead Edge/Side Edge Registration (ADJ 9.9) for that tray.

Check the feeder for the affected tray for wear, slipping, damage, or contamination.

- Tray 1 Feeder (PL 2.4)
- Tray 2 Feeder (PL 16.7)
- Tray 3 Feeder (PL 16.9)
- Tray 4 Feeder (PL 16.11)
- Tray 5 Feed Assembly (PL 2.14)

Registration varies from copy to copy.

A B

A B

Y N

Go to ADJ 9.9, Lead/Side Edge Adjustment.

Check the components in the Registration Transport Assembly (PL 2.6) for wear, slipping, damage, or contamination. Clean/replace as required

The defect occurred on copies from all five paper trays.

Y N

Check the components in the Registration Transport Assembly (PL 2.6) for wear, slipping, damage, or contamination. Clean/replace as required

Check the IOT Lead Edge/Side Edge Registration (ADJ 9.9) for that tray.

Check the feeder for the affected tray for wear, slipping, damage, or contamination.

- Tray 1 Feeder (PL 2.4)
- Tray 2 Feeder (PL 16.7)
- Tray 3 Feeder (PL 16.9)
- Tray 4 Feeder (PL 16.11)
- Tray 5 Feed Assembly (PL 2.14)

The problem occurs on all jobs.

Y N

Have the customer re-evaluate affected jobs and resend.

Refer to the DFE Service Guide.

IQ12 Process Direction Bands, Streaks, and Smears RAP

Initial Actions

- Clean the IBT Cleaner. Check for wear or damage
- Clean the Fuser. Check the metal stripper baffle in the Fuser for contamination.
- Check the 2nd BTR and the Detack Sawtooth for Toner contamination.

Procedure

NOTE: *The repetition rate for Transfer Belt defects varies considerably, depending on paper size and mode of operation. The defect may appear as frequently as every 3rd sheet, or may only occur every 14 sheets.*

The defect occurs in approximately the same position on multiple prints.

Y N

If the defect occurs intermittently, examine the Developer Housings for evidence of toner clumping. If clumping is found, replace the Developer (PL 6.2). if this does not resolve the problem

The defect is a full-width (LE - TE) Streak Deletion in Process Direction.

Y N

Remove the Fuser Assembly. Examine the Heat Roll for damage or contamination. Clean or replace as required (PL 7.1).

Check the IBT Cleaner (PL 5.3). Ensure that the blade and the Mylar backing are free from damage. Check that the auger turns freely. Clean repair or replace as required

Check the Developer Housing (PL 6.2). Repair or replace as required.

If the problem is related to a single color, replace the Drum Cartridge (see CRUs and Consumables in Section 6).

Enter Print Test Patterns. Select Test Pattern 20% coverage pattern for all colors. **The defect is present for all colors.**

Y N

- Check the ROS window for damage or contamination. Clean or replace as required.
- Check Drum Cartridge for affected color. Check for damage or contamination to the BCR.
- Go to the IQ20 RAP to check the 1st BTR bias circuit for the affected color
- Replace the Developer (PL 6.2) for the affected color. Check the housing for damage or toner clumping.

Remove the IBT Cleaner (PL 5.3). Inspect the cleaning blade and Mylar seal for damage. Clean or replace as required.

If the IBT Cleaner is OK, check the Transfer Belt (PL 5.3) for damage or contamination. Ensure that there is no debris or loose wiring, etc. in contact with the belt. Clean or replace as required.

IQ13 Unfused Copy/Toner Offset RAP

Initial Actions

- Replace the paper in use with fresh, dry paper of the correct specification.
- Check the post-Fuser transport areas for dirt.
- Ensure that the media being used matches the settings on the UI screen or print driver. Using the next heavier setting may resolve the problem.
- If the Key Operator/Administrator has configured certain trays for a specific type of media, ensure that the specified media is actually loaded in those trays.

Procedure

Check the following:

- Check the Sensor Assembly (PL 7.2) for contamination or incorrect mounting. Clean, repair, or replace as required.
- Check the Fuser (PL 7.1) for damage, toner offsetting, paper wrap, or incorrect installation. Clean or replace as required.

After resolving the problem, make 10 blank copies (letter size, Black mode) to cleaner residual toner from the Fuser Heat Roll and Fuser Belt. If the problem persists, or if Lead Edge contamination is present, remove the Fuser Exit Chute (PL 7.2) and clean any toner or paper residue from the Exit Chute and the metal stripper baffle.

IQ14 Repeating Bands, Streaks, Spots, and Smears RAP

Procedure

Measure the distance between the repeating defects. Locate the distance on the table below. Perform the indicated repair actions

Table 1 Repeating Defects

Repetition spacing	Component(s)	Repair Actions
<4 mm.	High Frequency Banding	Replace the ROS
28.3 mm.	Developer Mag Roll	Check Developer roll bias for floating or shorting out. Replace Developer Housing (PL 6.2) if required.
44 mm.	Drum Cartridge	Replace the Drum Cartridge (see CRUs and Consumables in Section 6).
84 mm.	Fuser Heat Roll	Remove the Fuser Assembly. Check the Heat Roll for damage (nicks, wear, or cuts) or contamination. Clean or replace as required (PL 7.1).
88 mm.	BTR 2 Backup Roll BTR 2 Roll	Check the 2nd BTR Assembly for damage or contamination. Clean, repair or replace as required (PL 2.8). Replace the Transfer Belt (PL 5.3).
94 mm.	Drum Cartridge Fuser Belt	Single Color - Replace the Drum Cartridge (see CRUs and Consumables in Section 6). All Colors - Remove the Fuser Assembly. Check the Heat Roll for damage (nicks, wear, or cuts) or contamination. Clean or replace as required (PL 7.1).

IQ15 Mottle RAP

This RAP troubleshoots the causes of output images showing image density that varies from inboard to outboard edges, or randomly throughout the print.

Initial Actions

- Replace the paper in use with fresh, dry paper of the correct specification. Ensure that the loaded media matches the UI or print driver settings.
- Determine if the Drum Cartridge or any of the Toner Cartridges are approaching end-of-life. Replace if necessary.
- Perform Max Setup (ADJ 9.1). If this does not resolve the problem, continue with this RAP.
- If the mottle occurs mostly on heavyweight or extra-heavyweight stock, go to Table 1. Verify with the customer what type of paper they use (HW1 and/or 2, Coated or Uncoated) and choose the applicable adjustment from the table. If the problem persists, continue wit this RAP.

Procedure

Enter Print Test Patterns. Make a print of Test Pattern 124. **The defect involves a single color.**

Y N

Make a print of the Test Page. Open the Front Door when the lead edge of the print begins to protrude from the Fuser Exit nip. Open the Fuser and examine the partially-fused sheet. **The defect is present in both the fused and unfused portion of the sheet.**

Y N

Clean or replace the Fuser (PL 7.1).

Enter Print Test Patterns. Make a print of Test Pattern 124. As the print is being processed, open the Front Door. Examine the image on the Transfer Belt. **The image on the belt has acceptable density.**

Y N

Replace the Transfer Belt (PL 5.3).

Go to the IQ22 RAP to check 2nd BTR Backup Roll bias/contacts.
Clean/replace the 2nd BTR Assembly (PL 7.1).
If the problem continues, replace the Transfer Belt (PL 5.3).

CAUTION

Performing the adjustments in the following step may not eliminate mottle completely, and/or may introduce other IQ problems; the intent is to reach the best compromise.

It may be possible to fine-tune the 2nd BTR transfer bias for a specific problem paper by varying the secondary transfer remote for that paper.
The secondary transfer bias is a target value (based on temperature, humidity, 2nd BTR resistance, and other Xerographic inputs) that represents what control logic has computed to be the optimum transfer bias. Each paper type has an NVM location for remote manual control of this target. The default for these “remote” locations is 100 (representing 100% of computed transfer bias target). The bias can be shifted from 0% to 200% of target.
Switch Drum Cartridges.

***NOTE:** If a paper type has a **User IQ Default** listed for it in Table 1, ensure that the customer has not changed the IQ setting before attempting this process; reset to the default if necessary. Refer to **Paper Tray Attributes** in the **Interactive User Guide**.*

Refer to Table 1. Change the value of the remote for the affected paper type to 150. Adjust the remote up or down to achieve the best IQ compromise. If the results are not satisfactory, set the remote value to 75 and adjust the remote up or down to achieve the best IQ compromise. **The problem moves with the cartridge.**

Y N

Check the following:

- Clean the HV contact for the developer in question.
- Replace the Toner Cartridge if not done previously.
- Replace the Developer (PL 6.2). Examine the housing for damage, wear, or contamination. If the problem persists, replace the ATC Sensor (PL 6.2).

Replace the Drum Cartridge (see CRUs and Consumables in Section 6).

Table 1 2nd BTR Transfer Remote locations

Default Paper Name	User IQ Default	NVM (Side 1)	NVM (Side 2)
Plain Paper A (Bond)	1	746-428	746-435
Plain Paper B	2	746-429	746-436
Plain Paper C	4	746-430	746-437
Plain Paper D/E (Plain)	8, 16	746-431	746-438
Plain Paper F/G (Recycled)	32, 64	746-432	746-439
Plain Paper S (Bond S)	128	746-433	746-440
Label Stock		746-065	--n/a--
Lightweight Paper		746-434	--n/a--
Transparency		746-072	--n/a--
Heavyweight 1A	19 (side 1) 23 (side 2)	746-067	746-082
Heavyweight 1B	20 (side 1) 24 (side 2)	747-441	746-083
Heavyweight 1S	22 (side 1) 26 (side 2)	747-442	747-445
Heavyweight 1C	21 (side 1) 25 (side 2)	747-449	747-446
Heavyweight 2A	27 (side 1) 200 (side 2)	746-068	747-452
Heavyweight 2S	31 (side 1) 36 (side 2)	747-444	747-448
Coated 1		746-074	746-087
Coated 2		746-075	746-088
Plain Paper A~G Normal speed B/W (Side 1)	1, 2, 4, 8, 16,32, 64	746-971	746-973
Plain Paper A~G High speed B/W (Side 1)	1, 2, 4, 8, 16,32, 64	746-972	746-974

Table 1 2nd BTR Transfer Remote locations

Default Paper Name	User IQ Default	NVM (Side 1)	NVM (Side 2)
Plain Paper S Normal speed B/W (Bond S) (Side 2)	128	746-975	746-977
Plain Paper S High speed B/W (Bond S) (Side 2)	128	746-976	746-978

IQ16 Spots RAP

Initial Actions

Ensure that the paper in use is fresh, dry, and within specification for weight and quality.

Check print driver and copier control panel settings to ensure the media is being un in the proper mode.

Compare the spots against the samples in the Image Quality Defects supplement. If the defect matches the Debris Centered Deletions sample, go to the IQ9 RAP.

Procedure

The defect occurs in Copy mode only.

Y

N

The spots occur at a fixed interval on each print.

Y

N

The spots occur in the same location on every letter size print.

Y

N

NOTE: *The repetition rate for Transfer Belt defects varies considerably, depending on paper size and mode of operation. The defect may appear as frequently as every 3rd sheet, or may only occur every 14 sheets.*

The defect occurs in approximately the same position on multiple prints.

Y

N

The problem is Fuser offset and/or lead edge smears or spots.

Y

N

CAUTION

Do not use a vacuum cleaner or any solvents in the following step. Damage to the Belt Cleaner will result.

Remove the Belt Cleaner (REP 9.16). Carefully clean the cleaning blade and the Mylar shield with a soft brush or a lint free cloth. Brush away any accumulation of toner on the foam seal and the outside surfaces. Wipe the surface of the Transfer Belt with a lint free cloth. If the problem continues, replace the Belt Cleaner (PL 7.1).

Go to the IQ13 RAP.

Check the Transfer Belt (PL 5.3) for dirt or damage. Clean or replace as required.

Check the Drum Cartridge for dirt or damage. Clean or replace as required (see CRUs and Consumables in Section 6).

Go to the IQ14 RAP.

Ensure that the original is free from the defect.
Clean the Platen Glass and Lens.

IQ17 Missing Colors RAP

One or more of the primary (YMCK) colors is missing from the image.

Procedure

Go to the IQ21 Developer Bias RAP to check the developer bias circuit.

If the circuits are OK, ROS for damage or contamination. Clean, repair or replace as required (PL 3.1).

IQ20 1st BTR Checkout RAP

Procedure

Make a copy of the Color Test Pattern. If the high density gradation patches (100%, 85%, and 70%) for one or more of C, Y, M, or K appear to be light, perform the following:

Refer to Figure 1. Check the wiring between the BTR1 HVPS (PL 9.1) and the HV contact on the Drum Cartridges.

Check the 1st BTR Monitor values as follows:

CAUTION

Do not allow the IBT to run longer than 10 seconds. Damage to the Transfer Belt may occur because the automatic belt-walk adjustments are not performed while in dC140.

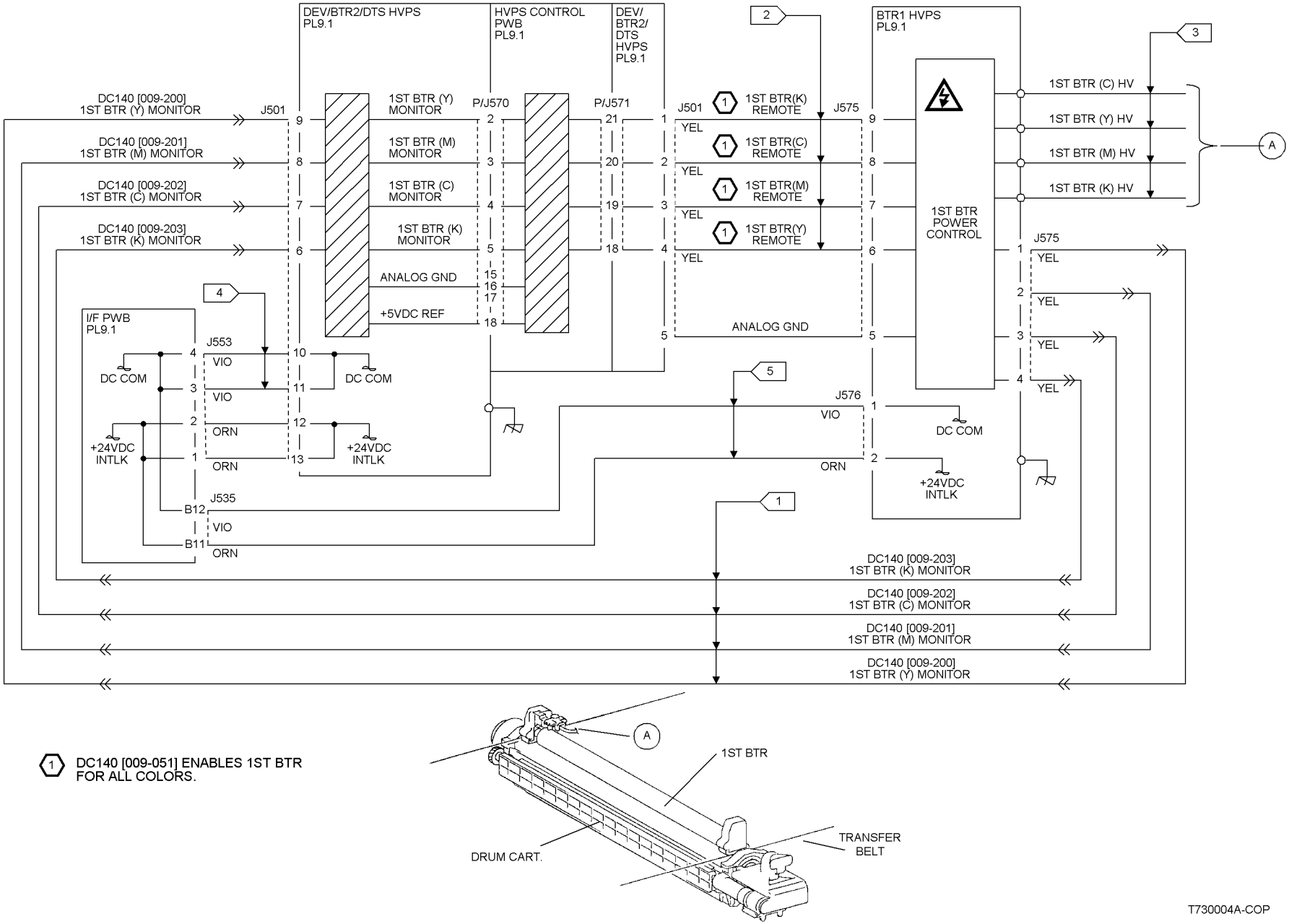
1. Enter Analog Monitor [009-200]. Press **Start**. The monitor value should be low (typically 0 - 3)
2. Enter [009-051]. Press **Start**. After a few seconds, the value should jump significantly.
3. Press **Stop All**.

NOTE: *Do not enable more than one color at a time. Attempting to run more than one monitor without clearing the previous code may cause the PWS to lock up.*

4. Repeat steps 1 through 3, using 009-201, 009-202, and 009-203 as the input code.

If the value fails to increase significantly for one or more monitor codes, replace the BTR1 HVPS (PL 9.1).

Refer to Figure 1. Check the connectors and wires shown for damage, contamination, or loose connections.



1 DC140 [009-051] ENABLES 1ST BTR FOR ALL COLORS.

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Figure 1 IQ20 RAP Circuit Diagram

IQ21 Developer Bias RAP

Procedure

WARNING

HIGH VOLTAGE!

Exercise caution when performing the voltage checks in this procedure.

Make a color copy and check the voltage at Flag 1 for the affected color(s). There should be approximately 370 VAC and -540 VDC (+/- 10%) present. **The voltages are within range.**

Y N

There is +24 VDC from P/J501 pin 13 to P/J501 pin 10 on the DEV/BTR2/DTS HVPS.

Y N

There is +24 VDC from P/J553 pin 2 to P/J553 pin 4 on the I/F (MDD) PWB

Y N

Go the +24 VDC Wirenets to troubleshoot this problem.

Go to Flag 2. Check for an open circuit

Check that the HVPS Control PWB is seated correctly. If the problem continues, replace the DEV/BTR2/DTS HVPS PWB (PL 9.1).

Go to Flag 1. Check for an open circuit or a short circuit to ground. Check P/J580 and the HV terminals on the Developer Housing(s). for damage or loose connections. If the checks are good, return the RAP from which you came.

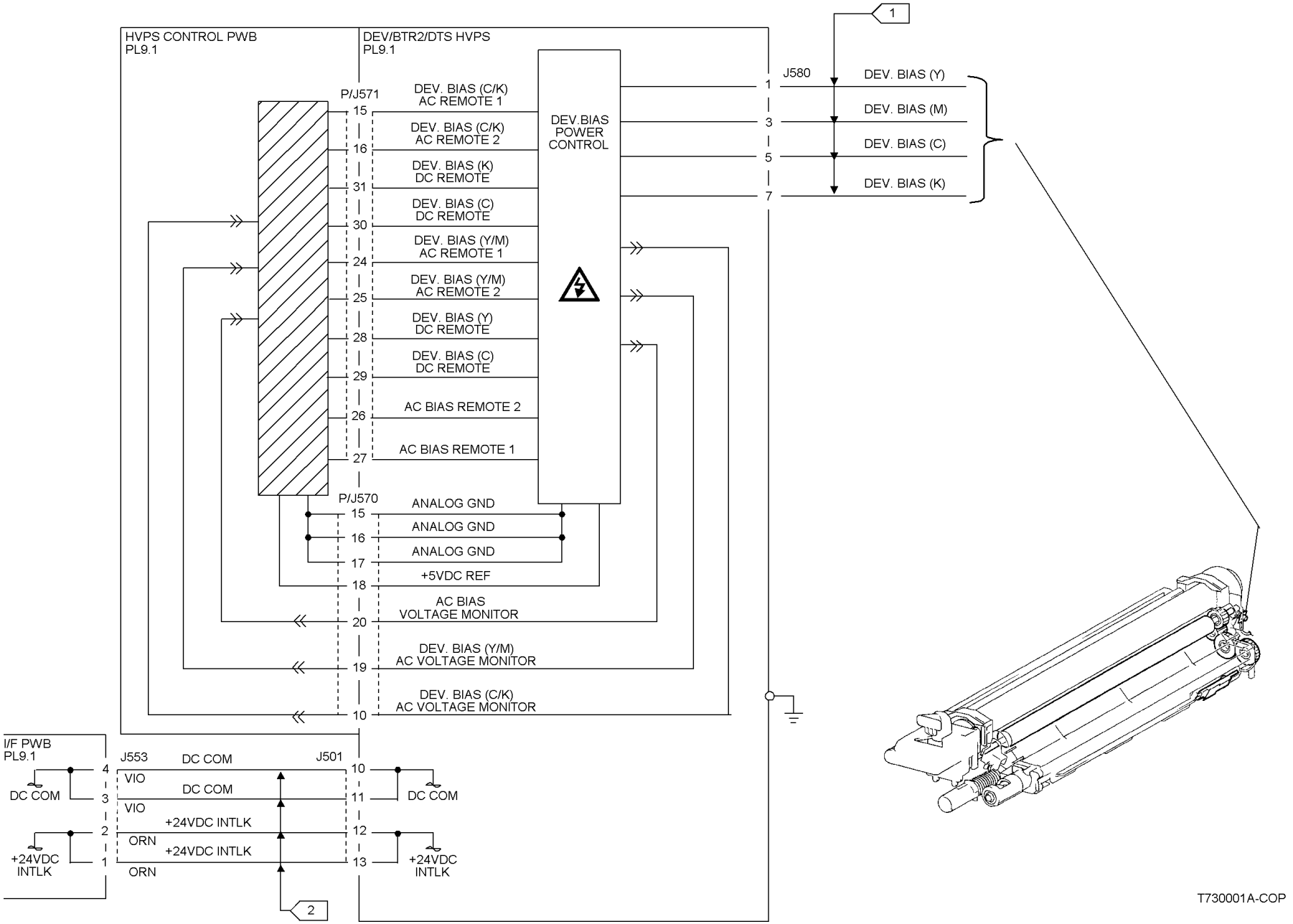

Figure 1 IQ21 RAP Circuit Diagram

IQ22 2nd BTR Checkout RAP

Isolates mechanical failure and out of range voltages or currents.

WARNING

HIGH VOLTAGE!

Exercise caution when performing the voltage checks in this procedure.

Initial Actions

- Perform Component Control (009-051) 2nd BTR Retract Motor contact. The status value should read high until the 2nd BTR contacts (approx 800ms).
- Perform Component Control (009-052) 2nd BTR Retract Motor retract. The status value should read low until the 2nd BTR retracts (approx 60ms). If the 2nd BTR does not respond, check the Retract Motor and the 2nd BTR Retract Sensor (PL 2.9). Replace the 2nd BTR if needed.
- Replace the 2nd BTR if the roll surface is severely damaged (excessive wear).

Procedure

Disconnect T502 on the DEV/BTR2/DTS HVPS (Figure 1). Set the meter to read microampere. Connect the meter with one lead connected to the connector on the board and the other lead to the red wire. **Approximately 20-30 microampere are measured at Flag 3.**

Y N

Approximately 10-15 microampere are measured at Flag 3.

Y N

Approximately 0 microampere are measured at Flag 3.

Y N

Current is out of operating range. Check wire harness for damage. Check for bad connection or open circuit on the DEV/BTR2/DTS HVPS (PL 9.1). Repair or replace as required.

Reconnect T502. Set the meter to read VDC. Check for +24VDC on P/J501-12 and 13 while the machine is in standby mode. **+24VDC is measured at Flag 1.**

Y N

Check wire harness for damage. Check for bad connection or open circuit on the I/F (MDD) PWB (PL 9.1). Repair or replace as required.

Check wire harness for damage. Check for bad connection or open circuit on the DEV/BTR2/DTS HVPS (PL 9.1). Repair or replace as required.

Reconnect T502 on the DEV/BTR2/DTS HVPS. Set the meter to read VDC. Check for +5VDC at P/J574-3 while making a full color copy of the standard test pattern. **+5VDC is measured at Flag 2.**

Y N

Check wire harness for damage. Check for bad connection or open circuit on the MCU PWB (PL 13.1). Repair or replace as required.

Check wire harness for damage. Check for bad connection or open circuit on the DEV/BTR2/DTS HVPS (PL 9.1). Repair or replace as required.

- Check the 2nd BTR for any damage, repair or replace as required.
- Ensure that the 2nd BTR is correctly installed in both the IB and OB holders.

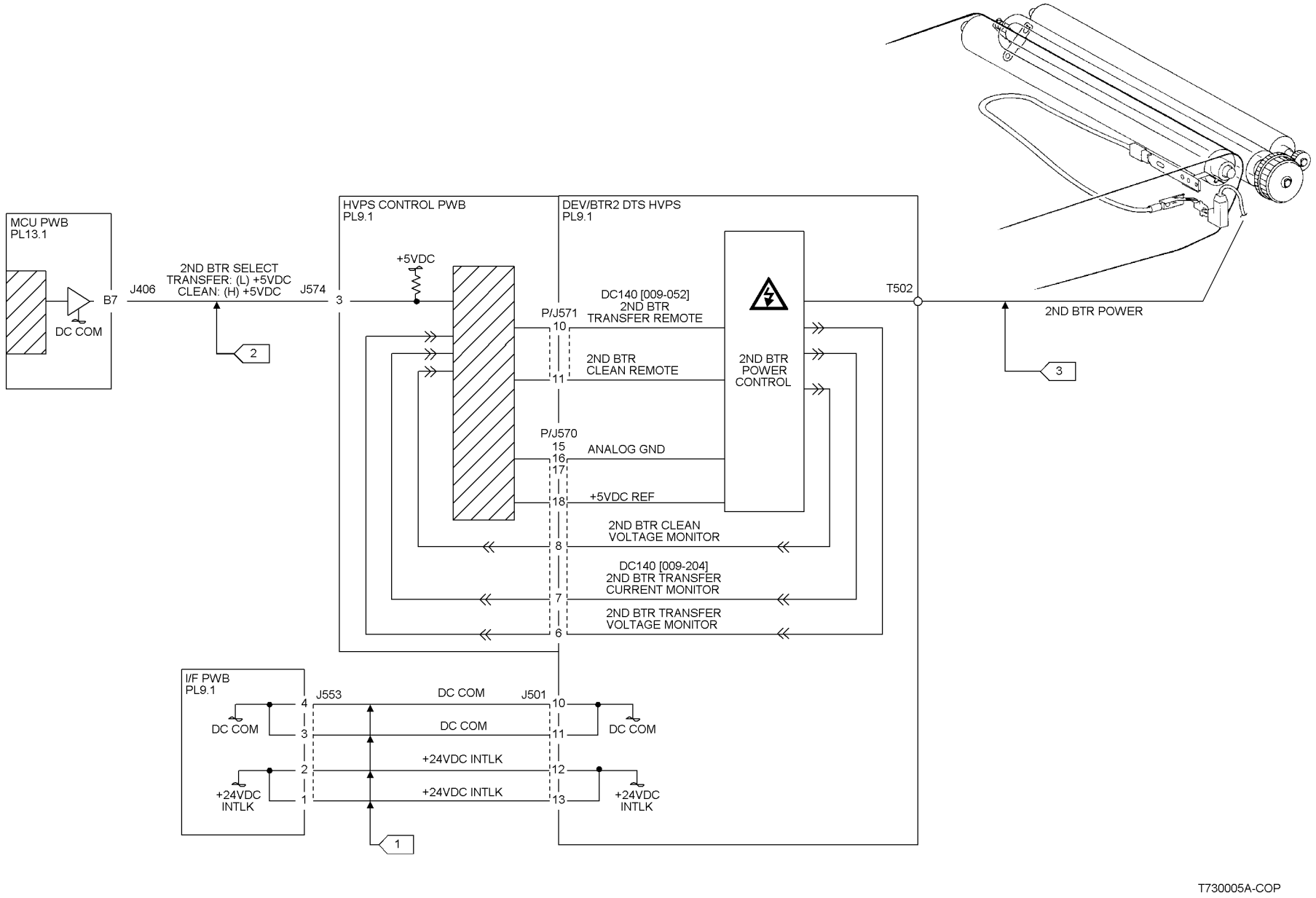

Figure 1 IQ22 RAP Circuit Diagram

IQ23 BCR Checkout RAP

Procedure

The problem is very high single-color background

Y N

Check the Wire Harness (PL 9.3) between the BCR HVPS PWB and the Drum Cartridge for an open circuit. Repair or replace as required. If no problems are found, replace the BCR HVPS PWB (PL 9.1).

Swap the Drum Cartridge that creates the high single-color background with any of the other Drum Cartridges and make a test print. **The background color remains the same.**

Y N

Replace the Drum Cartridge causing the single-color background (see CRUs and Consumables in Section 6) (PL 4.1).

Go to Flag 3. Check the wires associated with the problem color for an open circuit. **The wires check out OK.**

Y N

Repair or replace as required.

Inspect the contact at the Drum Cartridge associated with the problem. **The contact checks out OK.**

Y N

Repair or replace as required (PL 9.3).

Check for a loose connection at BCR HVPS PWB, Flag 3 (Figure 1). **The connection is good.**

Y N

Reconnect, repair or replace as required.

At Flag 3, check the pin associated with the problem color for -400 VDC and -900 VDC. **The voltages checks out OK.**

Y N

Replace the BCR HVPS PWB (PL 9.1).

- Check the Wire Harness (PL 9.3) between the BCR HVPS PWB and the Drum Cartridge for an open circuit. Repair or replace as required.
- Replace the affected Drum Cartridge (see CRUs and Consumables in Section 6) (PL 4.1).
- Replace the BCR HVPS PWB (PL 9.1).

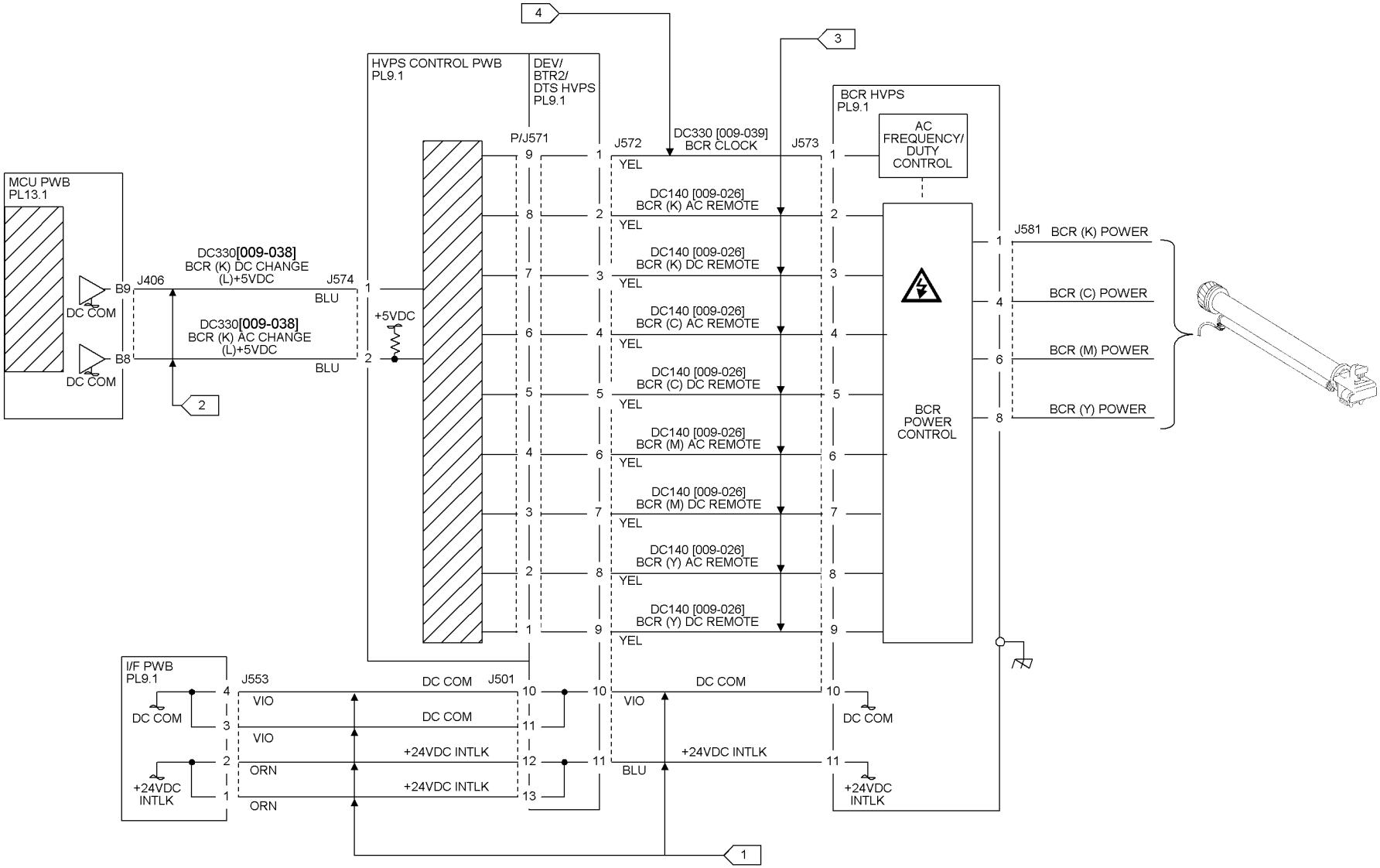

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Figure 1 IQ23 RAP Circuit Diagram

Image Quality Specifications

The following steps are used to set up the machine for the purpose of making test pattern copies to judge output image color density, balance, and registration.

1. Set the following Customer Mode Settings to the positions listed:
   a. Output Color - Full Color
   b. Original Type - Photo & Text / Halftone
   c. Lighter/Darker - Auto Contrast
   d. Variable Color Balance - Normal
   e. Color Saturation - Normal
   f. Sharpness - Normal
2. Place the Color Test Pattern on the platen. Load 11” X 17 or A3 paper into Tray 1. Make a copy of the test pattern.
3. Compare the copy to the test pattern. Refer to Figure 2 and Table 1 for this evaluation.

Table 1 Color Specifications Check Locations

AREA (Fig. 1)	Check for the Following Results
A	Text Reproduction. Each of the seven sentences in this area are fully reproduced with no missing letters or portions of letters. The sentences are reproduced in Black, Cyan, Magenta, Yellow, Red, Green and Blue.
B	Color Registration. The patterns in location B should be properly registered to provide Black, Red, Green and Blue lines.
C	Front to Rear Density. The density of both the low density and high density bands should be uniform from front to rear. This can be tested by folding the copy in the center and comparing the front side of the copy to the rear side of the copy at location C. Both the high density and low density locations should exhibit even front to rear density.
D	Color Gradation. This area should exhibit a decreasing density of each of the colors from 100% density to 5% density. In a properly adjusted machine, the 10% patches should be visible and the 5% patches should be barely visible or not visible on the test pattern copy (except for the bottom row).
E	Routine Color. Location E represents three general tests for the machine to reproduce colors common to customer originals. Location A is a general skin tone test. Location B represents the color of grass or other common foliage. Location C represents the color of the sky.
F	Photo Gradation. Location F is not used for any copy quality evaluation on this product.
G	IIT Calibration Patches. These patches are scanned for IIT Calibration during the DC945 IIT Calibration portion of Max Setup.
H	100 Lines/Inch Image. A Moire defect will show on this image. Moire on a 100 Line/Inch image is within specification.
I	175 Lines/Inch Image. This image is used to test for Moire. Depending on the degree of the defect, moire seen on this image should be considered out of specification.

Registration and border deletions are checked using the Step Scales on the Geometric Test Pattern, an example of which is shown in Figure 1. All of the scales are 20mm in height, and are made up of four 5mm steps. Step 1 will be described as at the top of the Step Scale, and Step 4 will be described as at the bottom.

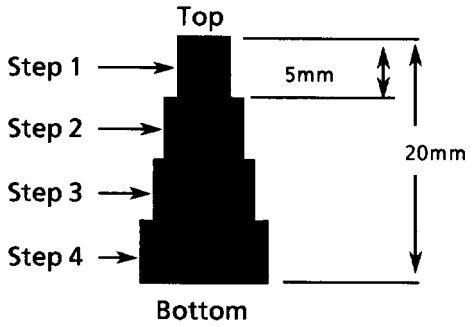

Figure 1 Step Scales

Each Step Scale is positioned for a particular paper size and orientation. Table 2 indicates the appropriate Step Scales to use for the various paper sizes, orientations and measurement locations.

Table 2 Geometric Checkout - Step Scale Data.

Paper Size	Orientation	To check:	Step Scales to use (refer to Figure 2)
11x17	SEF	Lead Edge Side Edge Trail Edge	LE1 through LE3 SE1 through SE4 (top); SE5 and SE8 (bottom) TE3
A3	SEF	Lead Edge Side Edge Trail Edge	LE 1 through LE3 SE1 through SE4 (top); SE6 and SE7 (bottom) TE4
8.5x11	SEF	Lead Edge Side Edge Trail Edge	LE 1 and LE2 SE1 through SE3 (top); SE9 (bottom) TE5
A4	LSEF	Lead Edge Side Edge Trail Edge	LE 1 and LE2 SE1 through SE3 (top); SE10 (bottom) TE6
8.5x11	LEF	Lead Edge Side Edge Trail Edge	LE1 through SE3 SE1 and 2 (bottom) SE6 and SE7 (top) TE 2
A4	LEF	Lead Edge Side Edge Trail Edge	LE1 through SE3 SE5 (top); SE1 and SE2 (bottom) TE1

1. Set the following Customer Mode Settings to the positions listed:
   - Output Color - Full Color

- Original Type - Photo & Text / Halftone
- Lighter/Darker - Auto Contrast
- Color Saturation - Normal
- Variable Color Balance - Normal
- Sharpness - Normal

2. Place Test Pattern 82E8220 on the platen and 24# Xerox Color Xpressions 11 X 17 (USCO), or 90 GSM Colortech A3 (XL) paper in Tray 1. Make a copy of the test pattern.
3. Follow the directions in Table 3 to determine if the machine registration is within specification.

Table 3 Test Pattern Image Data Locations for Geometric Specifications

GEOMETRIC AREA	CHECK PERFORMED
Magnification	Locate the 300mm line running from near LE1 to the trail edge of the 1.8 lp ladder. Locate the 200mm line running from near LE1 to near LE3. Make a copy. The measurements should be:. • Left to Right.: 300mm ±1.8mm • Front to Rear: 200mm ±1.2mm
Resolution	Observing the targets on the test pattern copy at locations R1 through R8, the line pairs specified below are clearly visible for the magnification value indicated: • 70%: 3.0 lp/mm • 100% through 400%: 4.3 lp/mm
Lead Edge Registration	Measure from the lead edge of the paper to the top of Step 3 on the LE2 Step Scale. The measurement should be: • Trays 1 through 4: 10mm ±1.5mm (±1.9mm for 2nd side of duplex job) • Tray 5: 10mm ±2.2mm
Side Edge Registration	Measure from the side edge of the paper to the top of Step 3 on the SE2 and SE3 Step Scales. The distance should be within the following tolerance: • Trays 1 through 4: 10mm ±2.0mm (±2.4mm for 2nd side of duplex job) • Tray 5: 10mm ±2.4mm
Lead Edge Skew	For skew from front to rear, the distance from the lead edge of the paper to the targets at LE1 and LE3 are measured. The measurements must match each other to within the tolerance below. • Trays 1 through 4: within ±1.5mm (±2.0mm for 2nd side of duplex job) • Tray 5: within ±2.0mm
Side Edge Skew	For skew from left to right, the distance from the side edge of the paper to the targets at SE1 and SE4 are measured. They must match each other to within the tolerance below: • Trays 1 through 4: within ±3.0mm (±4.0mm for 2nd side of duplex job) • Tray 5: within ±4.0mm
Line Density	This parameter is measured on the two 0.7G Text Blocks on the test pattern copy. The machine should reproduce all of the characters shown in the block on the output copy.
Solid Reproduction	This specifies the desired standard for reproduction of solid gray images at 1.0 K. The 1.0 K blocks on the output copy should reproduce with minimal mottle or graininess.

Table 3 Test Pattern Image Data Locations for Geometric Specifications

GEOMETRIC AREA	CHECK PERFORMED
Low Contrast Reproduction	This specifies the desired standard for reproduction of low density images. The machine should reproduce all of the text in the 0.2 G Text Blocks on the output copy.
ROS Borders (Image Loss)	Measure from the lead edge of the paper at LE2, the side edge of the paper at SE2 and SE7, and the trail edge at TE4, to the top edge of the step scales in those locations. The measurements should conform to the following specifications: • Lead Edge 4mm ± 1 mm • Side Edges 2 mm ± 1 mm • Trail Edge 2 mm ± 1 mm

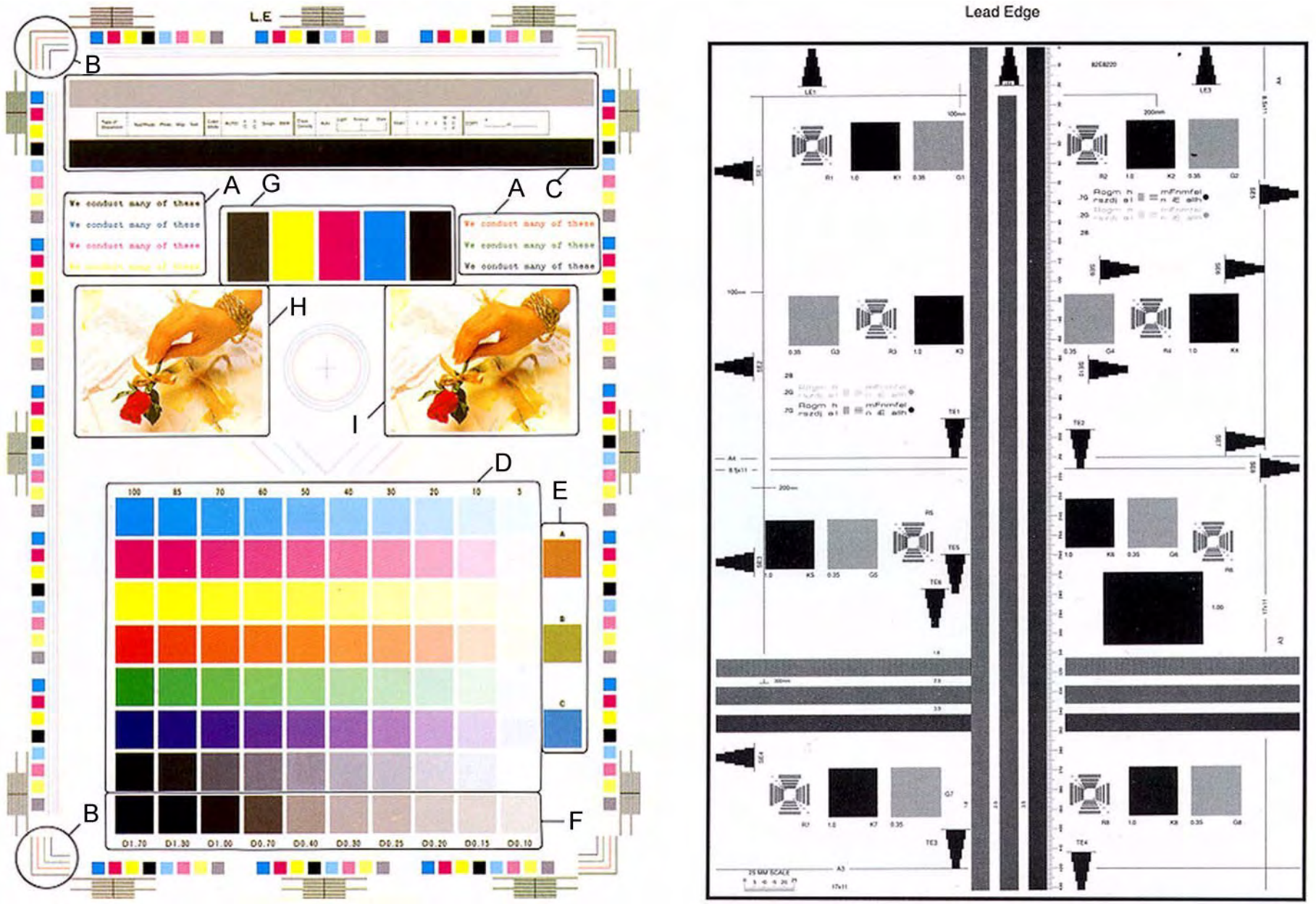

Figure 2 Color and Geometric Test Patterns

Image Defect Samples

The following figures contain examples of defects and their possible causes.

- Background
- Color Misregistration
- Debris-Centered Deletions
- Deletions
- High Frequency Bands
- Irregular Process Direction Streak
- Low Image Density
- Moire
- Mottle
- Newton Rings
- Regular (Repeating) Bands, Streaks, or Smears
- Residual Image
- Streak Deletion in Process Direction
- Wrinkled Image

Background

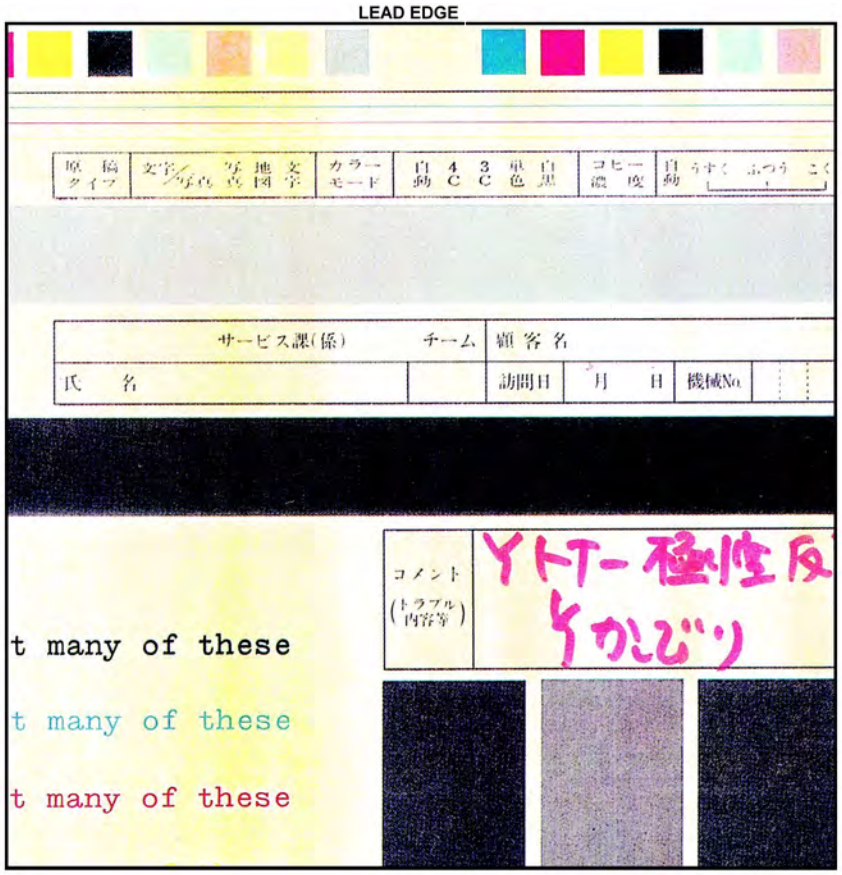

Figure 1 Background Defect Sample

Cause

Incorrect Electrostatics, high TC, faulty ADC Sensor

Corrective Action

Go to the IQ6 RAP.

Color Misregistration

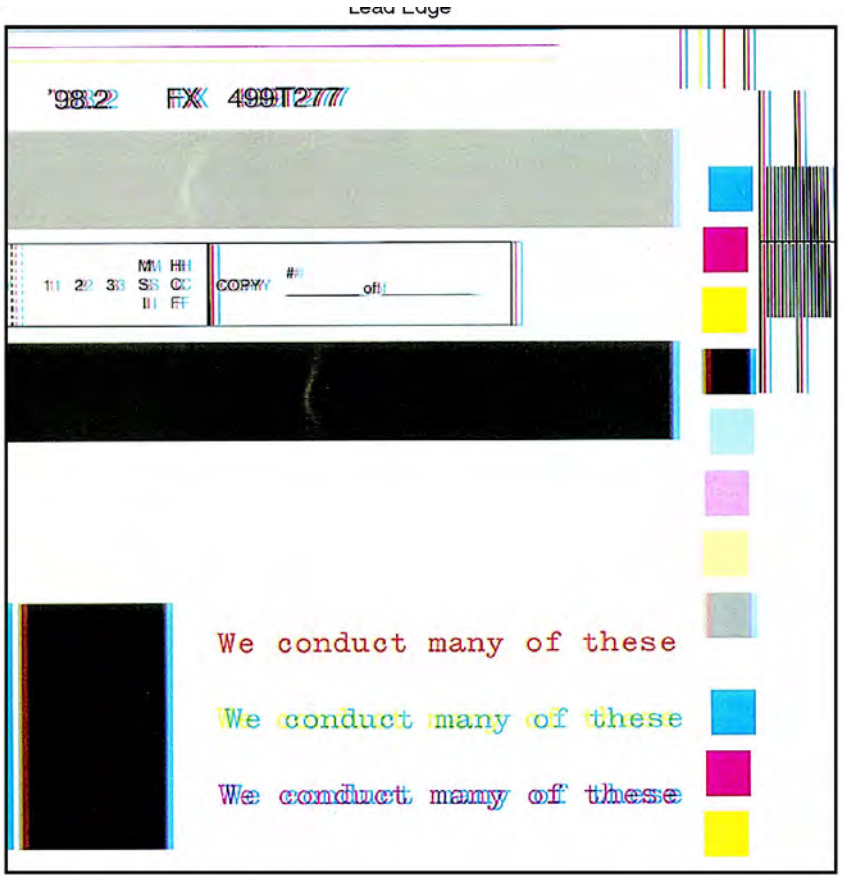

Figure 1 Color Misregistration Defect Sample

Cause

Failure of the ROS or IBT “walking” from rear to front or front to rear.

Mechanical problem in the IBT Assembly.

Corrective Action

Adjust Color Registration (ADJ 9.6).

Go to theIQ8 RAP.

Debris-Centered Deletions

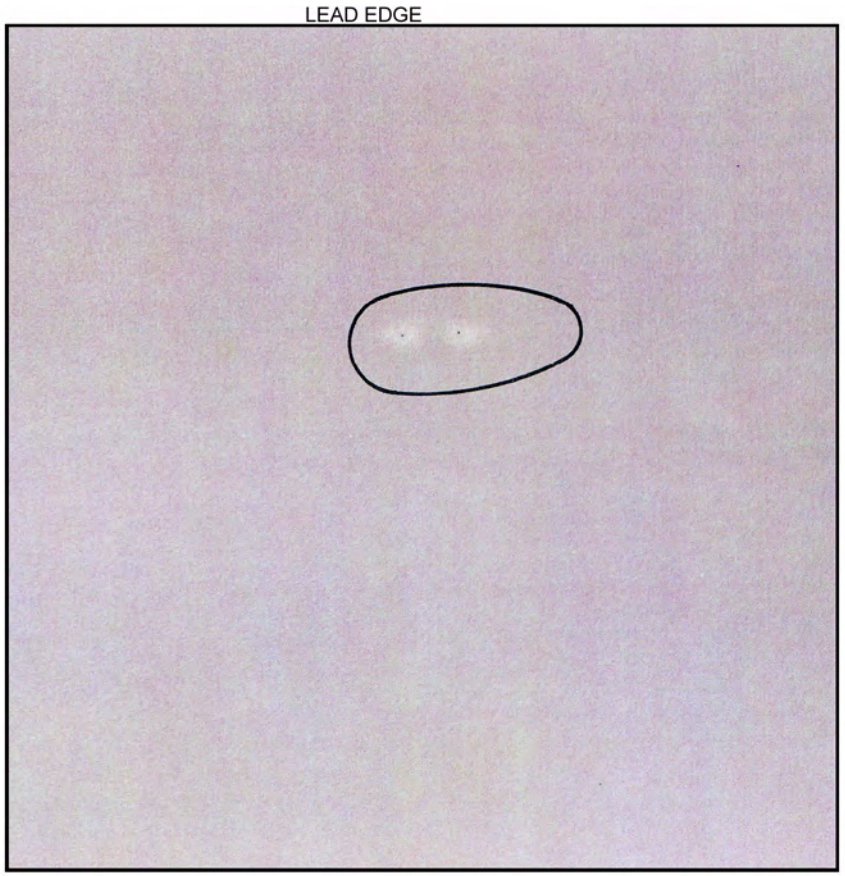

Figure 1 DCD Defect Sample

Cause

Toner agglomerates cause deletions in the areas surrounding them during transfer.

Corrective Action

Go to the IQ7 RAP.

Deletions

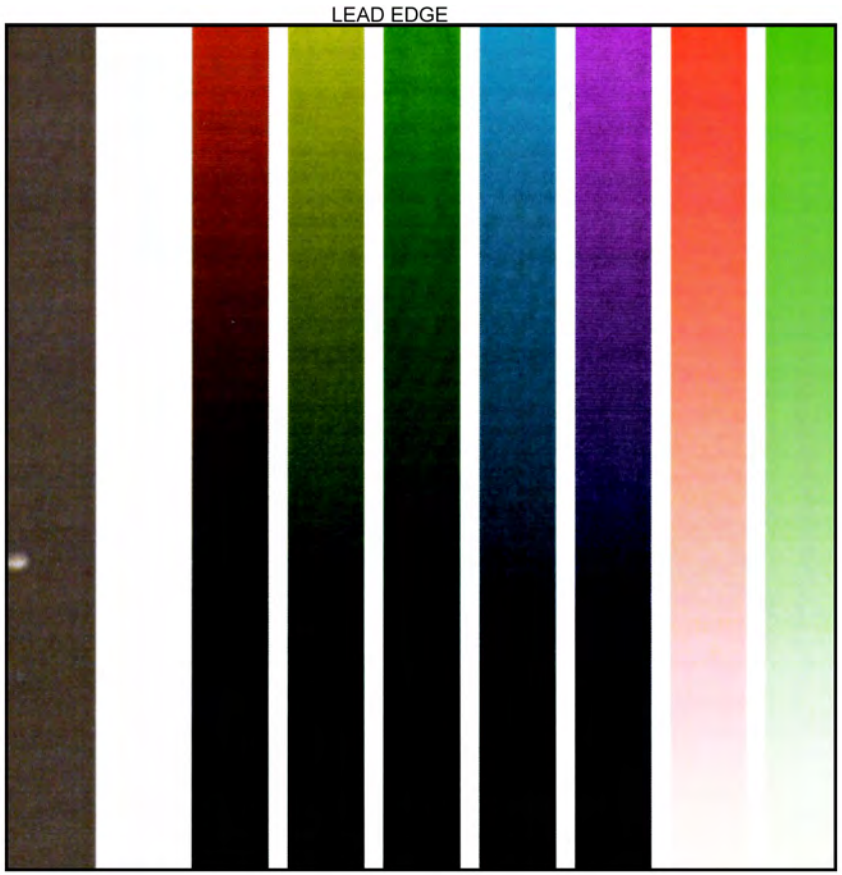

Figure 1 Deletions Defect Sample

Cause

Defective Transfer Belt, damp paper, uneven charge.

Corrective Action

Go to the IQ7 RAP.

High Frequency Bands

Figure 1 High Freq. Bands Defect Sample

Cause

Faulty ROS Assembly or Photoreceptor/Developer Housing gear or bearing problem.

Corrective Action

Go to the IQ14 RAP.

Irregular Process Direction Streak

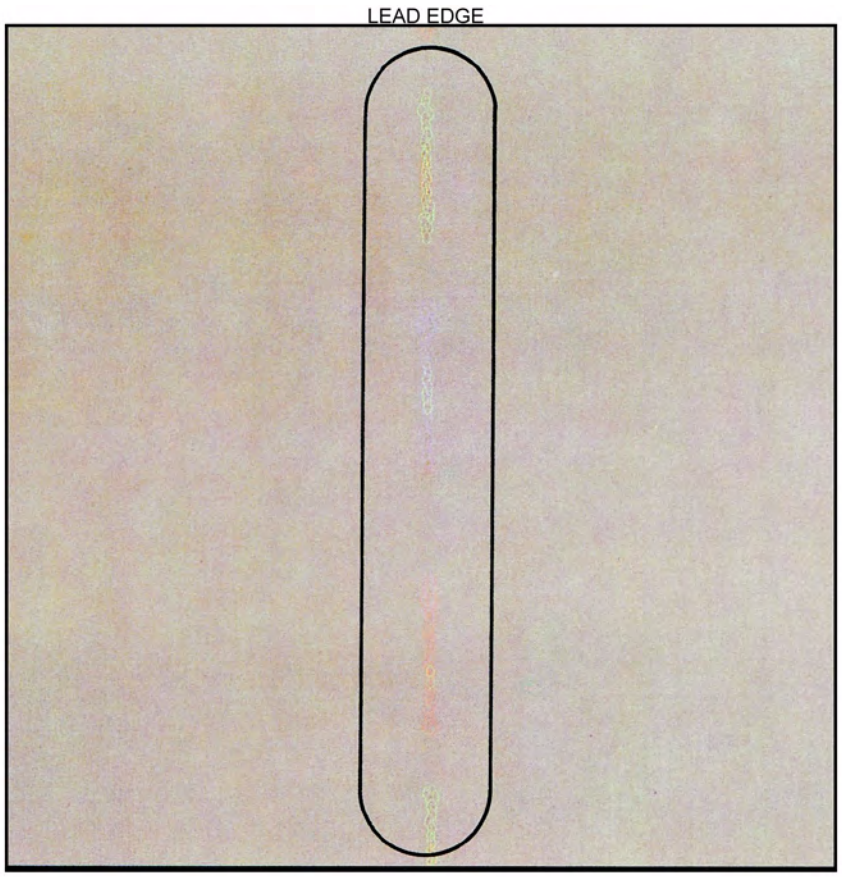

Figure 1 Streak Defect Sample

Cause

Clog in Developer Housing Trim Bar, malfunction of Belt Cleaner, contaminated ROS window.

Corrective Action

Go to the IQ12 RAP.

Low Image Density

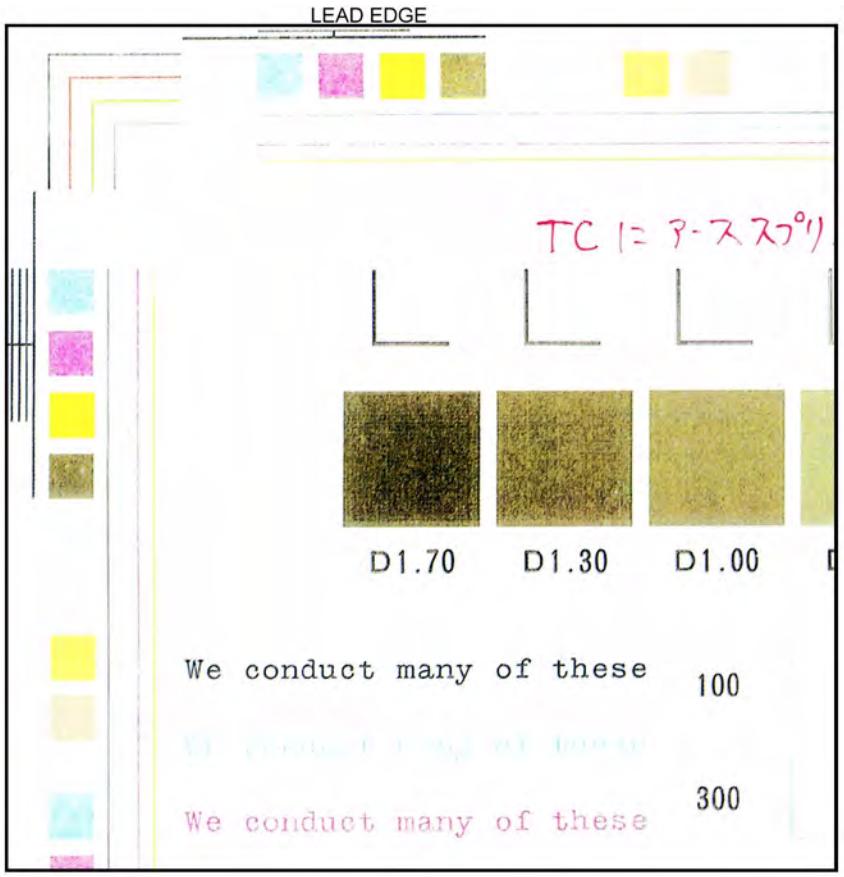

Figure 1 Low Density Defect Sample

Cause

Incorrect electrostatics, defective ADC Sensor, low toner concentration or out-of-specification paper (especially low quality or heavy weight paper).

Corrective Action

Go to the IQ3 RAP.

Moire

Figure 1 Moire Defect Sample

Cause

The halftone screen used on the original interferes with the halftone screen used by the copier.

Corrective Action

Go to the IQ2 RAP.

Mottle

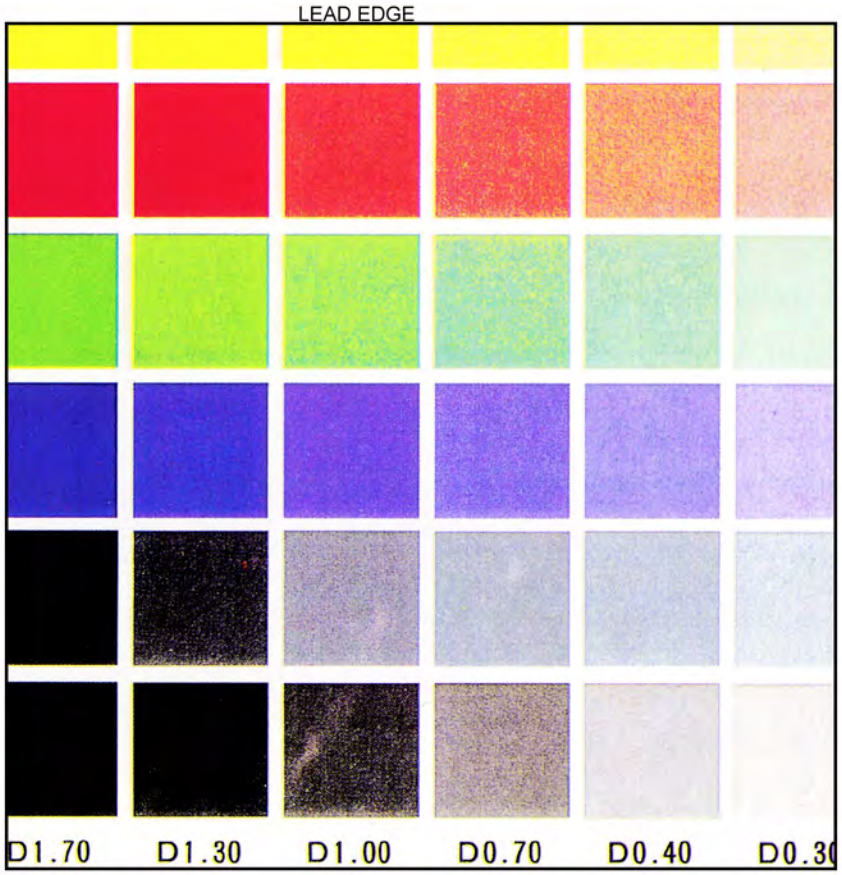

Figure 1 Mottle Defect Sample

Cause

Damp or low quality paper, aged developer, low toner concentration

Corrective Action

Go to the IQ15 RAP.

Newton Rings

Figure 1 Newton Rings Defect Sample

Cause

Highly reflective surfaces on a glossy photograph.

Corrective Action

Perform the following:

- Clean the Document Glass
- Place a transparency between the document and the glass

Regular (Repeating) Bands, Streaks, Spots, or Smears

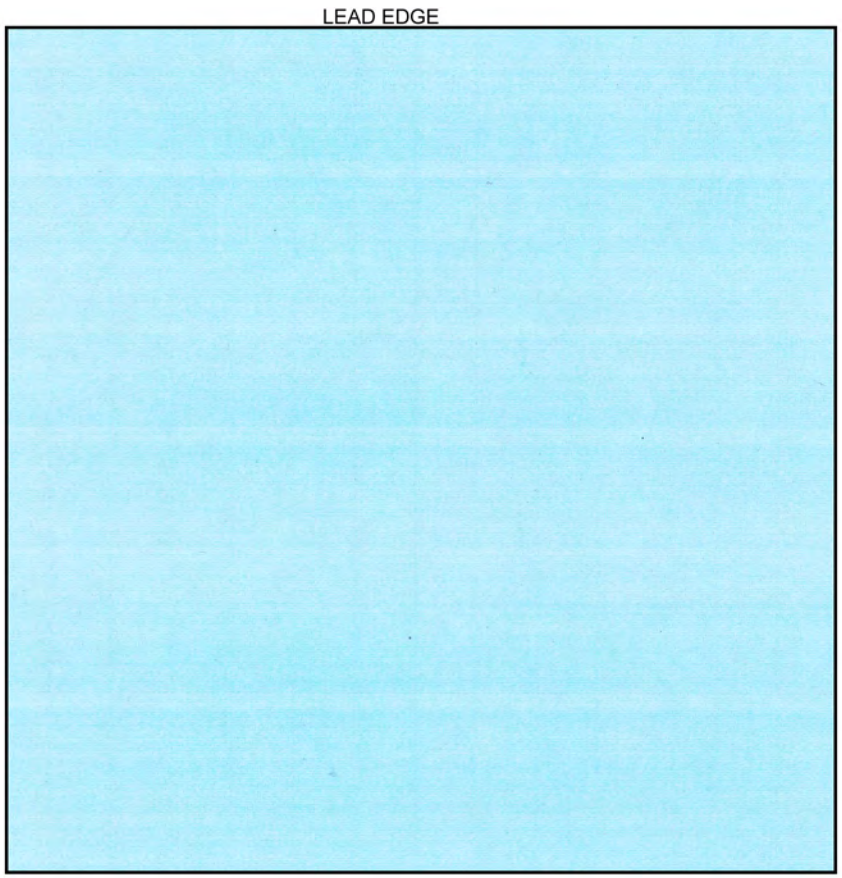

Figure 1 Repeating Defects Sample Image

Cause

Damage, density variation, or deletions caused by rotating component. Spacing equal to effective circumference of part.

Corrective Action

Go to the IQ14 RAP.

Residual Image

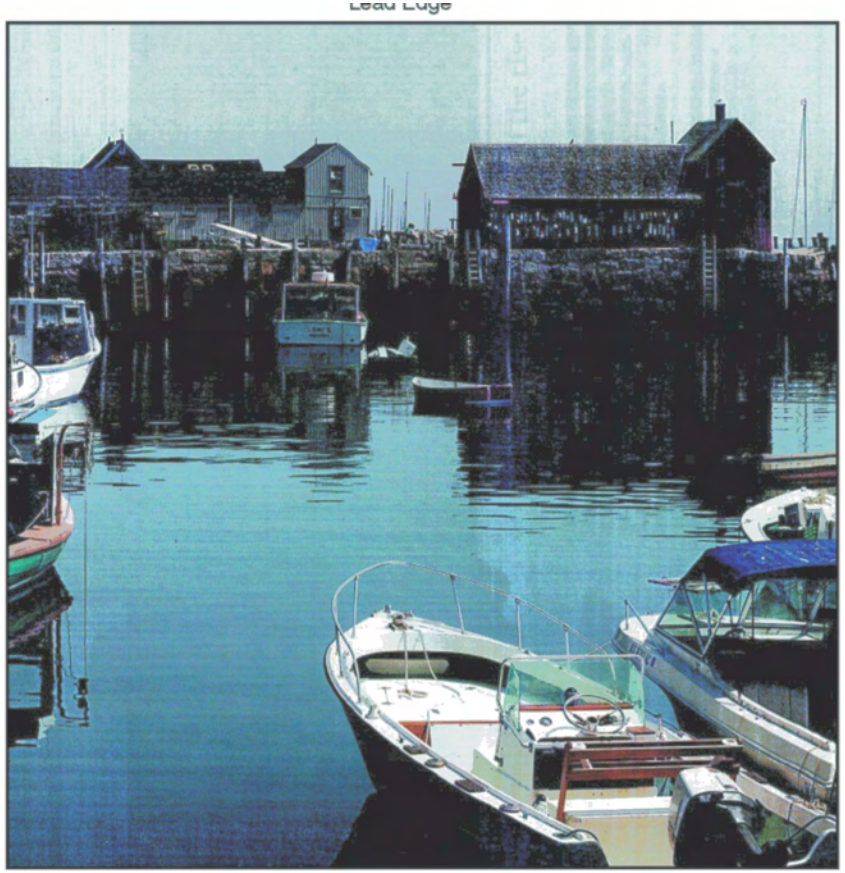

Figure 1 Residual Image Defect Sample

Cause

Improper IBT cleaning and/or defective Transfer Belt.

Corrective Action

Go to the IQ5 RAP.

Streak Deletion in Process Direction

Figure 1 Streak Deletion Defect Sample

Cause

Contamination of ROS window, damage to or contact with Transfer Belt or Drum Cartridge

Corrective Action

Go to the IQ12 RAP.

Wrinkled Image

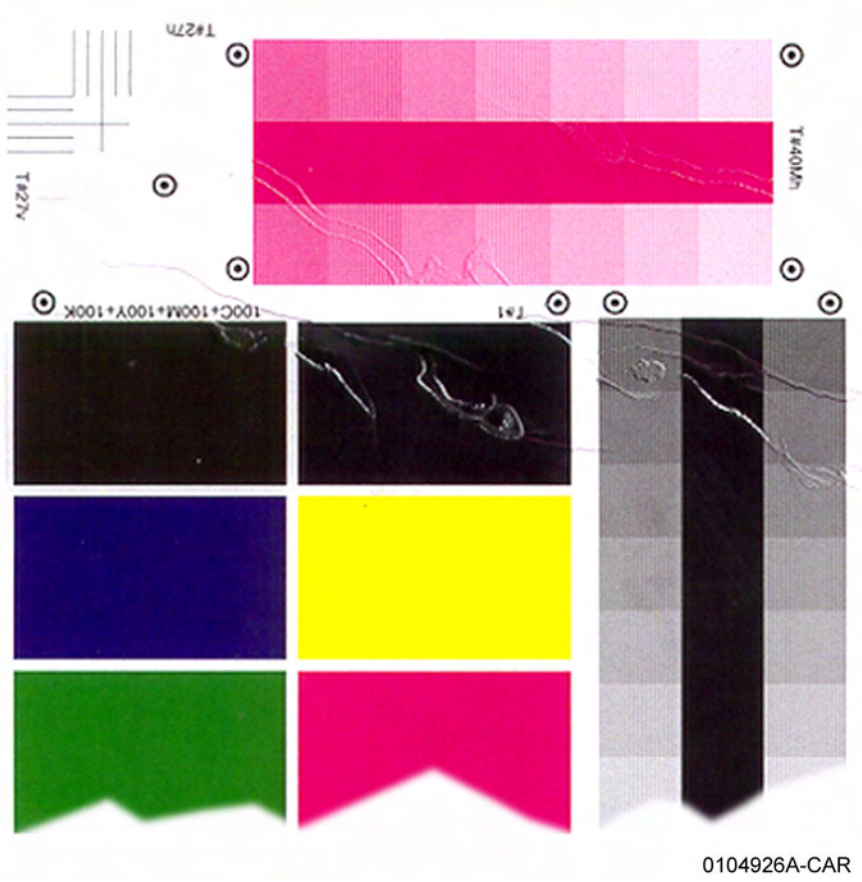

Figure 1 Wrinkled Image Defect Sample

Cause

Fuser “tenting” of paper

Corrective Action

Go to the IQ4 RAP.

4 Repairs and Adjustments

12. Finishers

14. Covers

15. DADF

9. Xerographic/Registration

11. IIT

12. Finisher

15. DADF

REP 1.1 LVPS Assembly

Parts List on PL 9.1

Removal

WARNING

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

CAUTION

PWBs can be damaged by an electrostatic discharge. Observe all ESD procedures to avoid component damage.

1. Remove the Rear Cover (REP 14.2).
2. Remove the Developer Fan and the Bracket (PL 9.1).
3. Remove the High Voltage Power Supply Chassis (REP 1.6).
4. Remove the I/F (MDD) PWB (REP 1.8).
5. Release the wiring harnesses from the 6 harness clips.
6. Remove the LVPS Assembly (Figure 1).
   1. Disconnect harness connectors (4).
   2. Loosen the lower screws (2).
   3. Remove the upper screws (2) and lift and remove the LVPS Assembly.

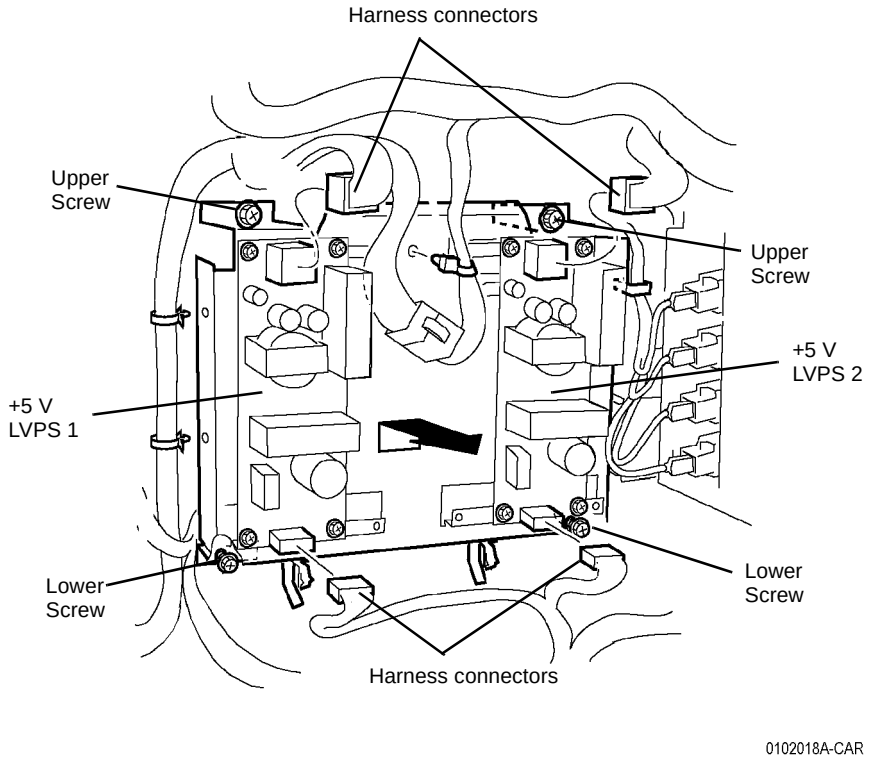

Figure 1 Removing the LVPS Assembly

Replacement

1. To install, carry out the removal steps in reverse order.

REP 1.2 MCU PWB

Parts List on PL 13.1

Removal

WARNING

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

CAUTION

PWBs can be damaged by an electrostatic discharge. Observe all ESD procedures to avoid component damage.

1. Remove the Rear Cover (REP 14.2).
2. Remove the Top Cover Assembly (REP 14.1).
3. Remove the ESS PWB Assembly (REP 1.12).
4. Remove the Main Power Switch (Figure 1).
   1. Disconnect the Switch Assembly Link Hook.
   2. Press the locking tabs inward and lift the Switch Assembly off the frame.

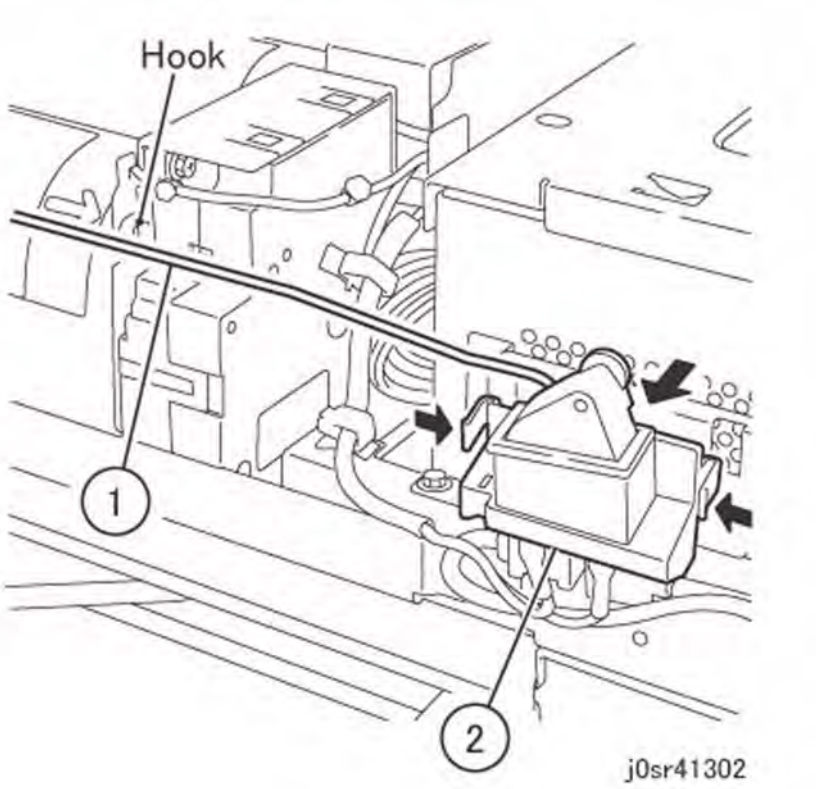

Figure 1 Removing the Switch Assembly

5. Remove the ESS Cover Assembly (Figure 2).
   1. Disconnect the ESS Fan harness connector.
   2. Remove the screws (4).
   3. Remove the ESS Cover Assembly as indicated by the arrow.

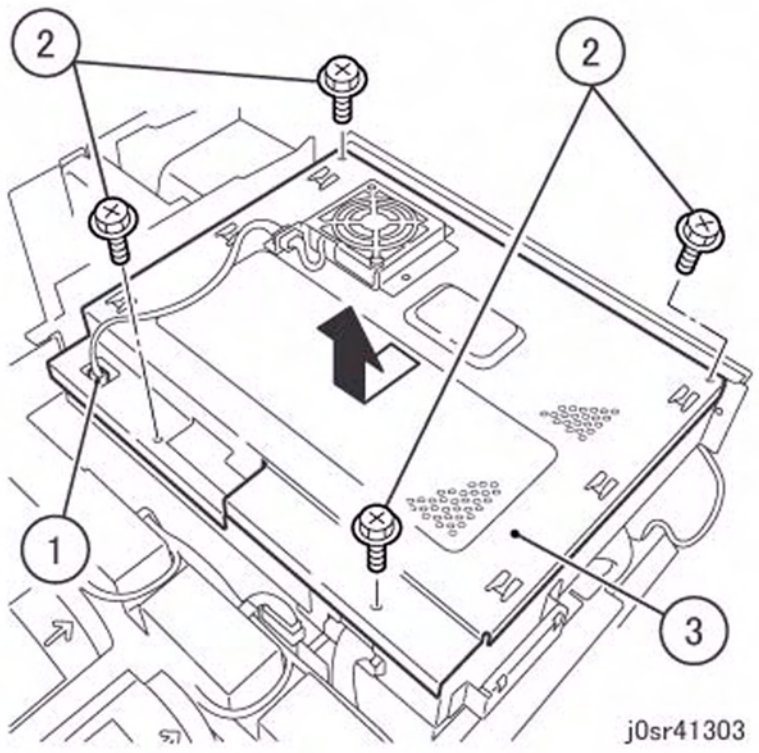

Figure 2 Removing the ESS Cover Assembly

6. Remove the ESS PWB Chassis (Figure 3).

CAUTION

The Backplane PWB, which is mounted to the ESS PWB Chassis, connects to the MCU PWB at P/J 460. Remove the ESS PWB Chassis carefully to prevent damage to the connector, the MCU PWB, or the Backplane PWB.

   1. Loosen the screw and remove the Earth Wire.
   2. Turn the connector 90 degrees CCW and push through the ESS PWB Chassis.
   3. Remove the screws (4).
   4. Remove the ESS PWB Chassis (and disconnect P/J 460) by lifting up.

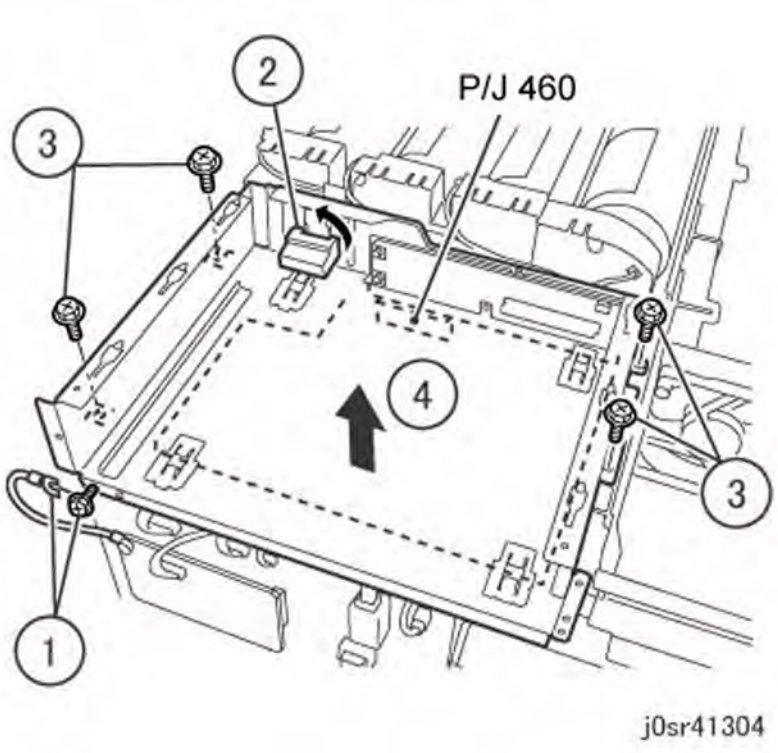

Figure 3 Removing the ESS PWB Chassis

7. Remove the MCU PWB Assembly (Figure 4).

CAUTION

The MCU PWB connects to the I/F (MDD) PWB at P/J 410, which is hidden when viewed from above the MCU PWB. Remove the MCU PWB Assembly carefully to prevent damage to the connector, the MCU PWB, or the I/F (MDD) PWB.

1. Open the harness clamps and remove the wire harness.
2. Disconnect the electrical harness connectors (12).
3. Remove the screws (4).
4. Remove the MCU PWB Assembly by lifting straight up.

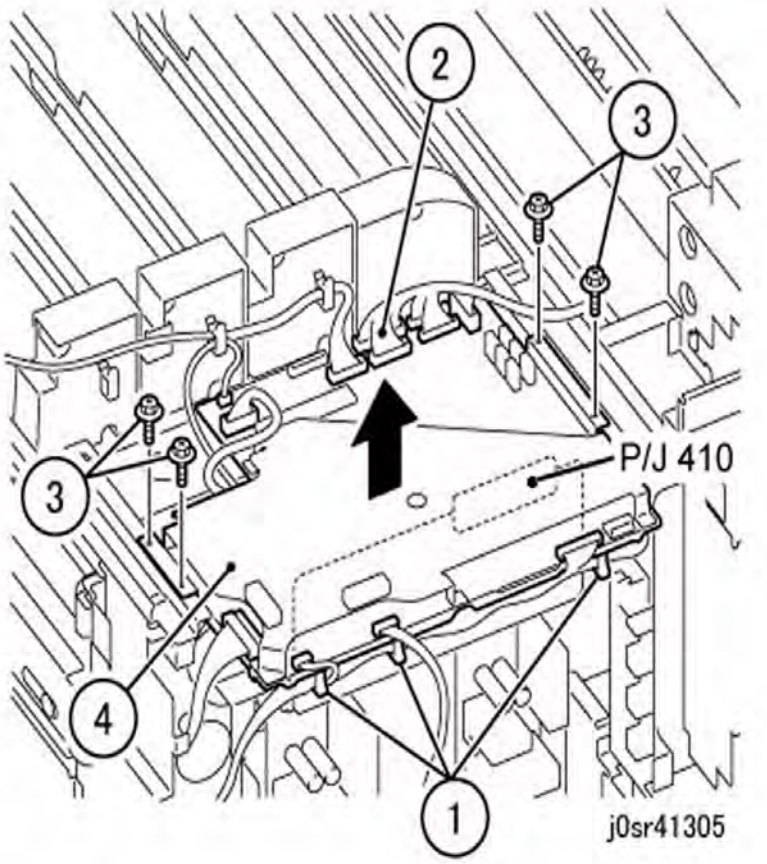

Figure 4 Removing the MCU PWB Assembly

8. Remove and retain the MCU NVM PWB (Figure 5).

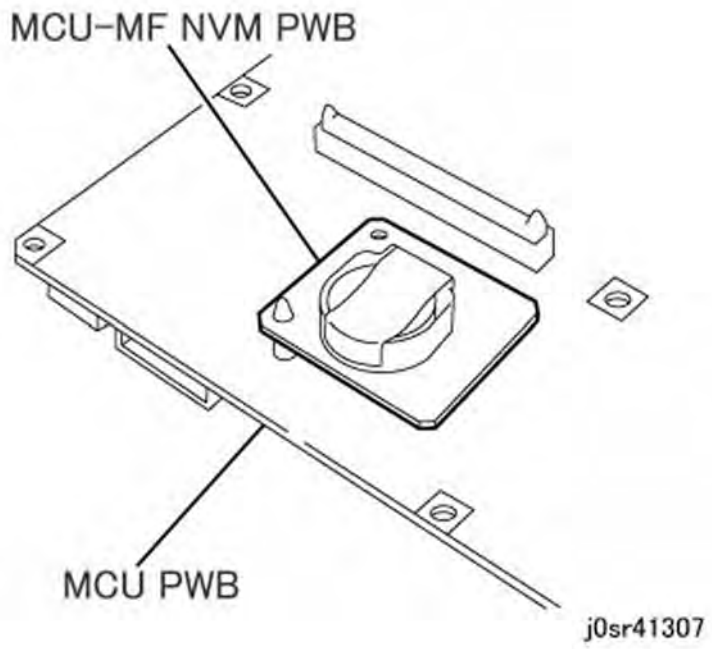

Figure 5 Removing the MCU NVM PWB

9. Remove the MCU PWB. (Figure 6)
   1. Remove the screws (5) securing the MCU PWB Cover.
   2. Remove the MCU PWB Cover.
   3. Remove the screws (5) securing the MCU PWB to the chassis.
   4. Remove the MCU PWB.

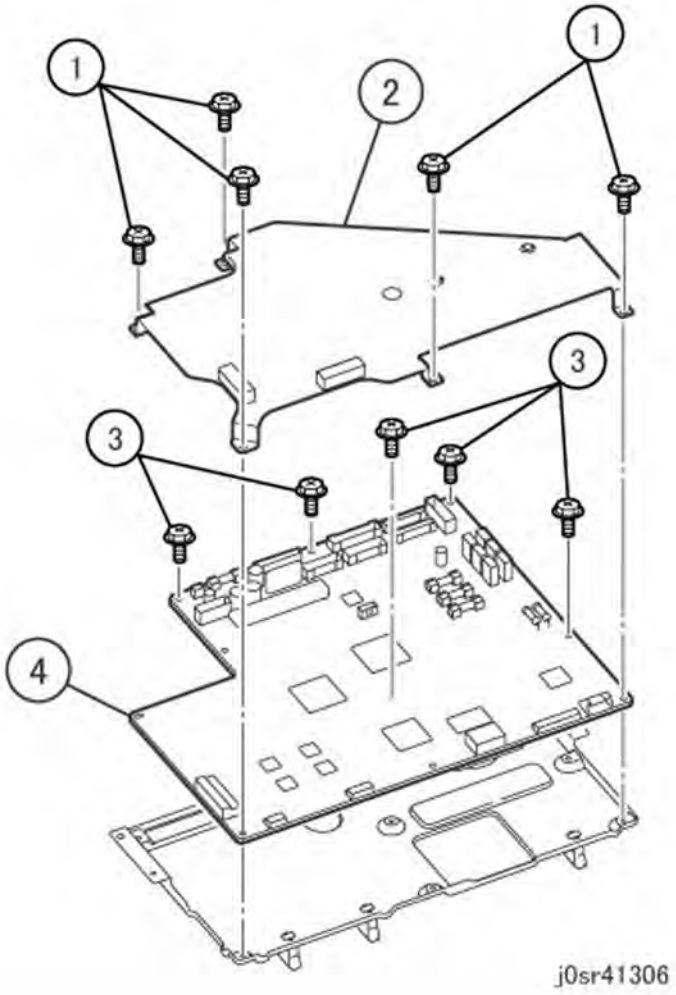

Figure 6 Removing the MCU Cover and MCU PWB

Replacement

1. Install the existing MCU NVM PWB on the new MCU PWB.
2. Align the connector P/J 410, install the new MCU PWB, and reassemble the machine.
3. Switch on the power and enter Diagnostics Mode.
4. Check the IOT software version to ensure that it matches the system software configuration. Refer to the SW Configuration Table in the System Software Upgrade Instructions contained on the S/W Update CD.

   If the software version does not match, reload the software in accordance with the instructions on the CD.

REP 1.2.1 MCU NVM PWB

Parts List on PL 13.1

Removal

WARNING

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

1. Gather all available settings information. This includes the machine NVM log, the Machine Settings floppy disk (if available), copies of the Configuration Report, etc. If possible, save the current Machine Settings to a floppy disk.

CAUTION

PWBs can be damaged by electrostatic discharge. Observe all ESD procedures.

CAUTION

The MCU NVM PWB has a lithium battery. Dispose of the used battery following the manufacturers' instructions after replacing. Do not throw it away at customer's site.

2. Remove the Rear Cover (REP 14.2).
3. Pivot down the High Voltage Power Supply (refer to REP 1.1).
4. Remove the MCU NVM PWB (Figure 1) from the rear lower surface of the MCU PWB.
   1. Disconnect the MCU NVM PWB from the MCU PWB (P/J 479).
   2. Remove the MCU NVM PWB from the PWB support.

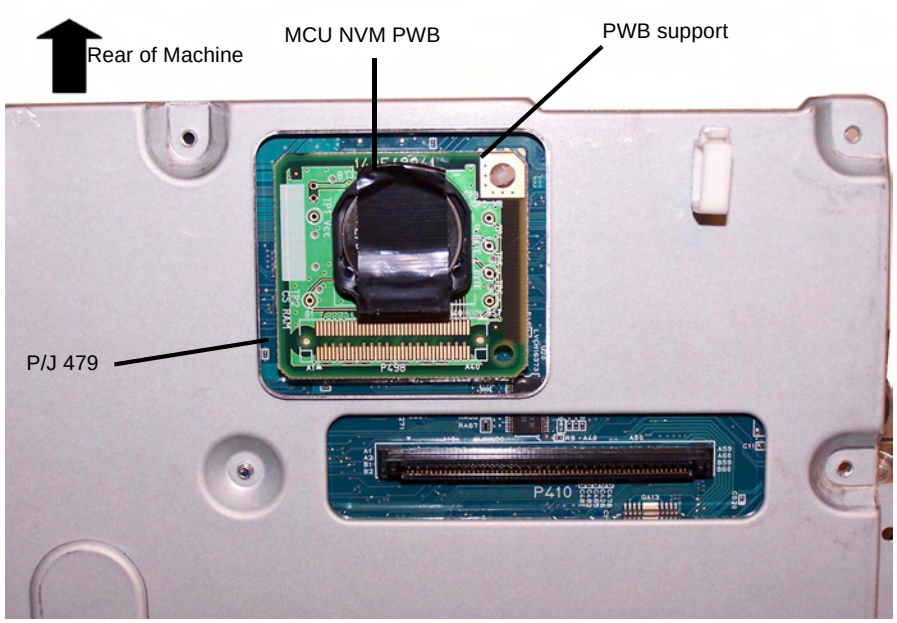

Figure 1 MCU NVM PWB viewed from below

Replacement

1. Install the new MCU NVM PWB and reassemble the machine.
2. Connect the PWS and switch on the power.

CAUTION

GP10 is used to maintain the integrity of the serial number and billing data, when one or more serialized PWBs must be replaced.

*To maintain the integrity of the serial number and billing data, never replace all three listed PWBs at the same time. If any of the following billing data PWBs needs replacing, only replace them **one at a time**.*

- *ESS NVM PWB (PL 13.2).*
- *MCU NVM PWB (PL 13.1).*
- *SEEP ROM on the Backplane PWB (PL 13.1).*

Failure to comply with the board replacement procedure in GP 10 could result in catastrophic NVM corruption.

3. Follow the procedure in GP 10. If two or more serial numbers DO NOT match the machine label serial number, escalate the service call to Field Engineering or the NTC.
4. If a good Machine Settings floppy is available, exit, then reenter the PWS Tool. Select **Read from Floppy** when starting the tool. If no floppy is available, or if the data on the existing floppy is questionable, go to step 5.
5. Go to dC351 and select **Restore Machine Settings**. When restoration is complete, go to step 7.
6. If a good Machine Settings floppy is not available, or if the data on the existing floppy is questionable, go to dC351. In the Special Batch Write area, select the appropriate market region, then press the **Batch Write NVM** button.
7. Using the resources gathered in step 1 of the removal procedure, reenter NVM data to restore the machine configuration.
8. Ensure that the network information (IP address, etc.) is correct. Contact the customer's system administrator to configure, if necessary.

REP 1.4 +5V LVPS 1 or +5 V LVPS 2

Parts List on PL 9.1

Removal

WARNING

To avoid personal injury or shock, do not perform repair or adjustment activities with the power switch on or electrical power applied to the ma1chine.

CAUTION

PWBs can be damaged by an electrostatic discharge. Observe all ESD procedures to avoid component damage.

1. Remove the Rear Cover (REP 14.2).
2. Pivot down the High Voltage Power Supply Chassis (REP 1.6).
3. Remove the appropriate LVPS (Figure 1).
   1. Disconnect the appropriate harness connectors (2).
   2. Remove the appropriate screws (4) and remove LVPS.

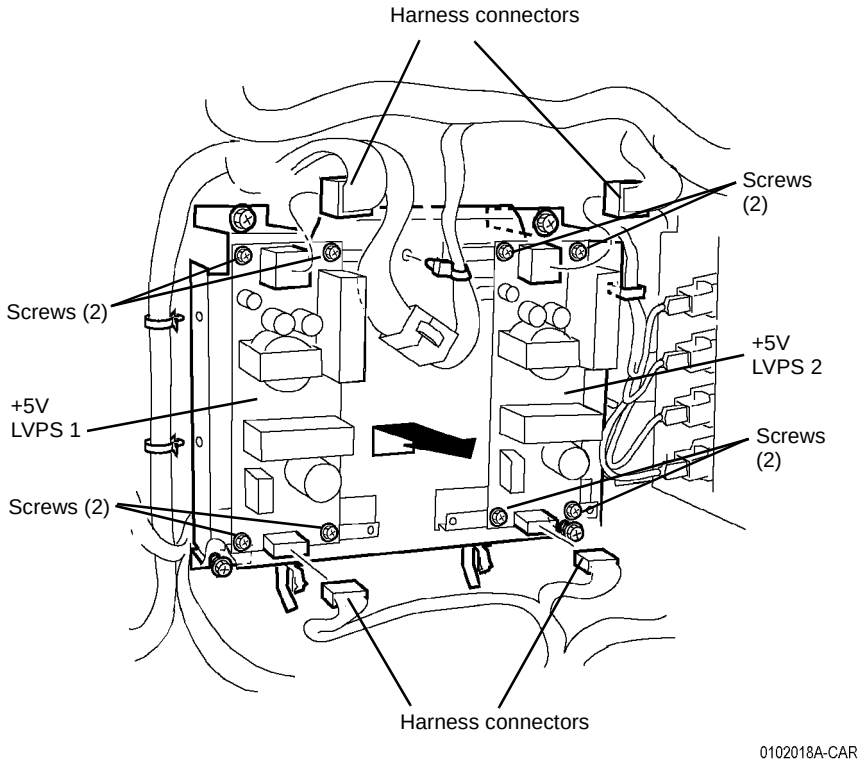

Figure 1 Removing LVPS

Replacement

1. To install, carry out the removal steps in reverse order.

REP 1.5 +24 V LVPS

Parts List on PL 9.1

Removal

WARNING

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

1. Remove the Rear Cover (REP 14.2).
2. Remove the Developer Fan and the Bracket (PL 9.1).

CAUTION

PWBs can be damaged by an electrostatic discharge. Observe all ESD procedures to avoid component damage.

CAUTION

5 screws with red marks secure LVPS to heat sink. Do not remove them.

3. Remove the 24 V LVPS (Figure 1).
   1. Disconnect harness connectors (3).
   2. Loosen the screws (2).
   3. Remove the screw (1) and remove the LVPS.

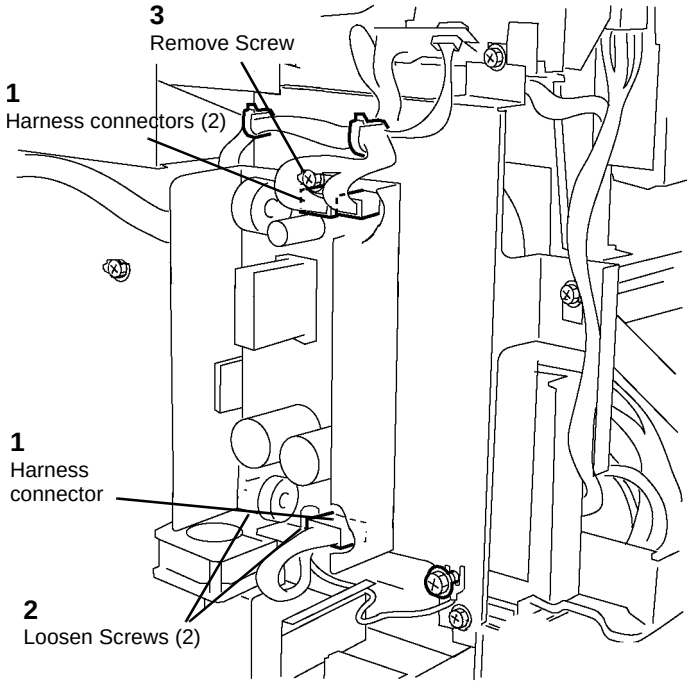

Figure 1 Removing 24 VDC Power Supply

Replacement

1. To install, carry out the removal steps in reverse order.

REP 1.6 High Voltage Power Supply Chassis

Parts List on PL 9.1

Removal

WARNING

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

CAUTION

HVPS can be damaged by an electrostatic discharge. Observe all ESD procedures to avoid component damage.

1. Remove the Rear Cover (REP 14.2).
2. Remove the Developer Fan and the Bracket (PL 9.1).
3. Remove the High Voltage Power Supply Chassis (Figure 1).
    1. Loosen screw and disconnect earth wire.

    CAUTION

    Do not attempt to disconnect soldered connection.

    2. Disconnect the harness connectors (2).
    3. Disconnect the High Voltage connectors (3).
    4. Remove the screws (3).
    5. Pivot the HVPS Chassis down and engage the stop strap with the frame tab (not shown).
    6. Disconnect the High Voltage connector (1) from the inner PWB (not shown).
    7. Release the wires from the harness retainer at the bottom of the HVPS Chassis (not shown).
    8. Disengage the stop strap and remove the HVPS Chassis by sliding it to the right.

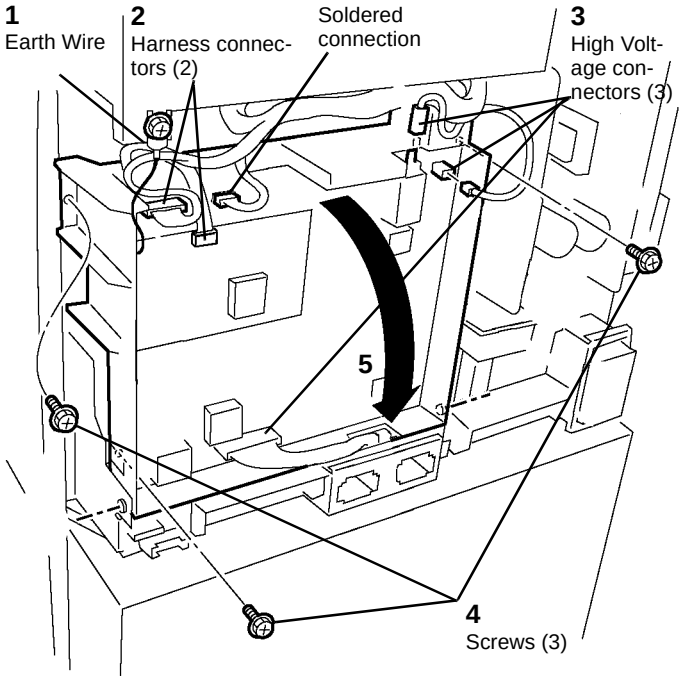

Figure 1 Removing High Voltage Power Supply Chassis

Replacement

1. To install, carry out the removal steps in reverse order.

REP 1.7 DEV/BTR2/DTS HVPS, BCR HVPS

Parts List on PL 9.1

Removal

WARNING

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

1. Remove the Rear Cover (REP 14.2).

CAUTION

PWBs can be damaged by an electrostatic discharge. Observe all ESD procedures to avoid component damage.

2. Remove the High Voltage Power Supply Chassis (REP 1.6).
3. Remove the High Voltage Power Supplies from Chassis:
   - DEV/BTR2/DTS HVPS is the PWB toward machine rear.
   - BCR HVPS is the PWB toward machine front.

Replacement

1. To install, carry out the removal steps in reverse order.

REP 1.8 I/F (MDD) PWB

Parts List on PL 9.1

Removal

WARNING

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

1. Remove the Rear Cover (REP 14.2).
2. Remove the Top Cover Assembly (REP 14.1).
3. Remove the Developer Fan Assembly (Figure 1).
   1. Disconnect the Developer Fan harness connector.
   2. Remove the screws (2).
   3. Remove the Developer Fan Assembly.

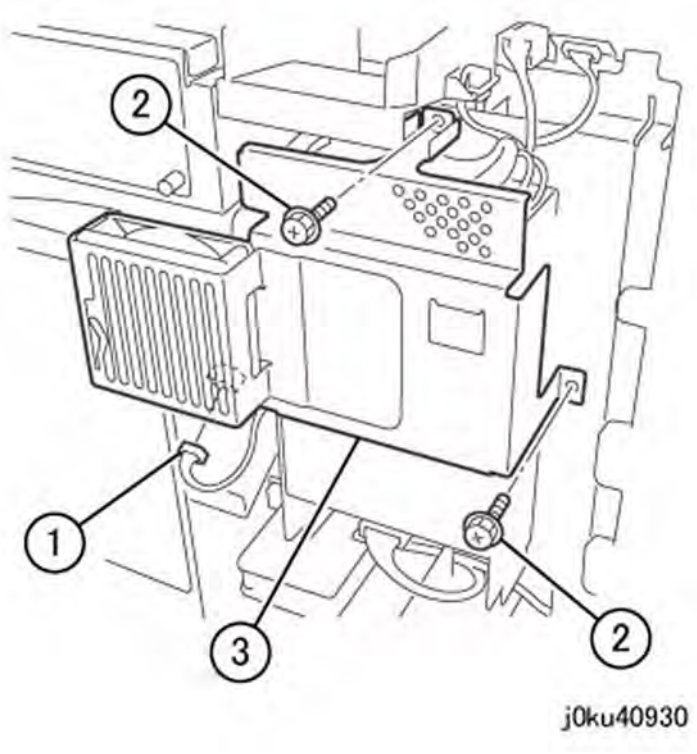

Figure 1 Removing the Developer Fan Assembly

4. Pivot down HVPS Chassis (refer to REP 1.6).

5. Prepare to remove the I/F (MDD) PWB Assembly (Figure 2).
    1. Disconnect the harness connectors (15).
    2. Remove the wire harness from the Wire Harness Clamps (3).

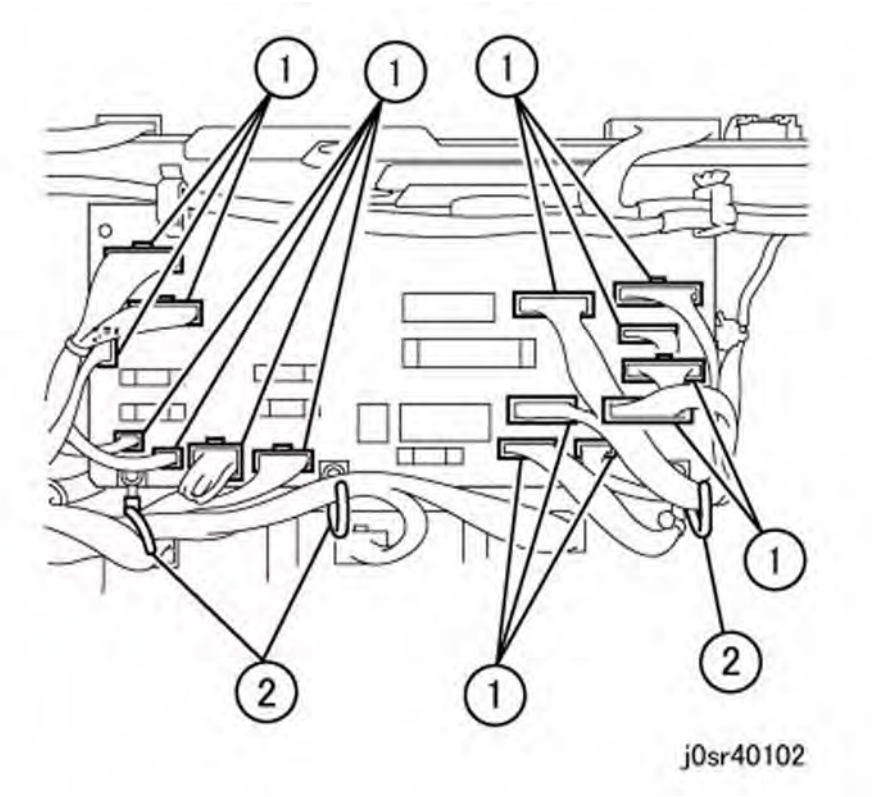

Figure 2 Removing the I/F (MDD) PWB harness connectors and clamps

6. Remove the I/F (MDD) PWB Assembly (Figure 3).
    1. Remove the harness clip from the chassis.
    2. Loosen the screws (2).
    3. Slide the I/F (MDD) PWB Assembly down to center the screws in the mounting holes.
    4. Remove the I/F (MDD) PWB Assembly.

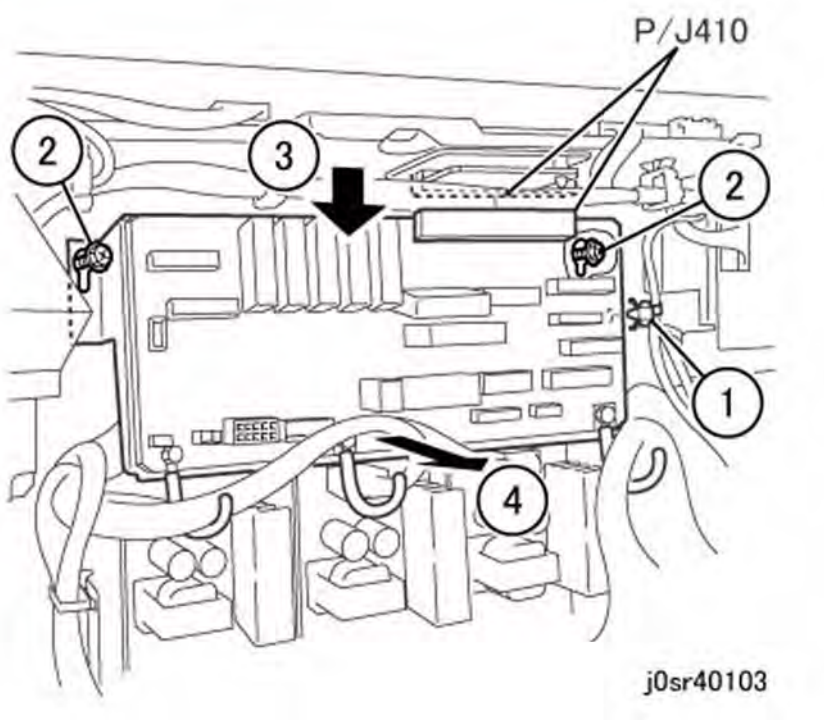

Figure 3 Removing the I/F (MDD) PWB Assembly

7. Remove the I/F (MDD) PWB from the Bracket Assembly (Figure 4).
    1. Remove the screws and the Wire Clamps (3 each).
    2. Remove the I/F (MDD) PWB by separating it from the PWB Supports.
    3. Remove the I/F (MDD) PWB.

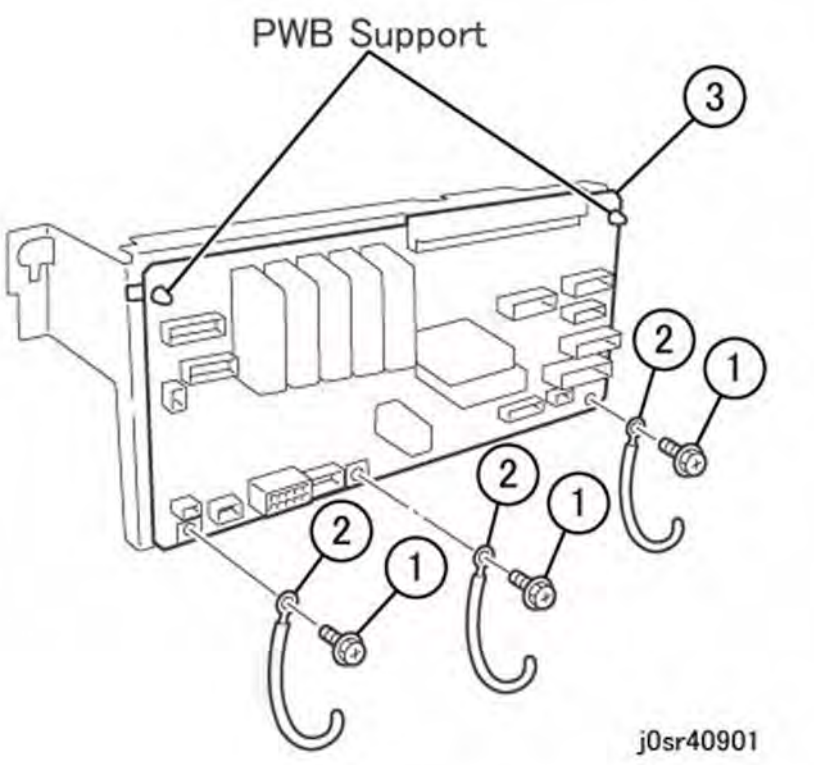

Figure 4 Removing the I/F (MDD) PWB from the Bracket Assembly

Replacement

1. Install the I/F (MDD) PWB and the Wire Clamps on the Bracket Assembly.
2. Align the mounting holes in the Bracket Assembly with the mounting screws (2) which were loosened during removal.
3. Carefully align P/J 410, and then slide the I/F (MDD) PWB up into position.
4. While holding the assembly in position, tighten the screws (2) that secure the Bracket Assembly to the frame.

REP 1.9 +24 V LVPS Bracket Assembly

Parts List on PL 9.1

Removal

WARNING

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

1. Remove the Rear Cover (REP 14.2).
2. Remove the Rear Left Middle Cover (REP 14.4).
3. Remove the 24 V LVPS (REP 1.5).
4. Remove the 24 V LVPS Bracket Assembly (Figure 1).
    1. Remove the screws (2).
    2. Remove upper harnesses from Harness Clips (2).
    3. Disconnect Fan connector and remove harness from Harness Clip.
    4. Loosen the screws (3).
    5. Remove the 24 VDC LVPS Bracket Assembly.

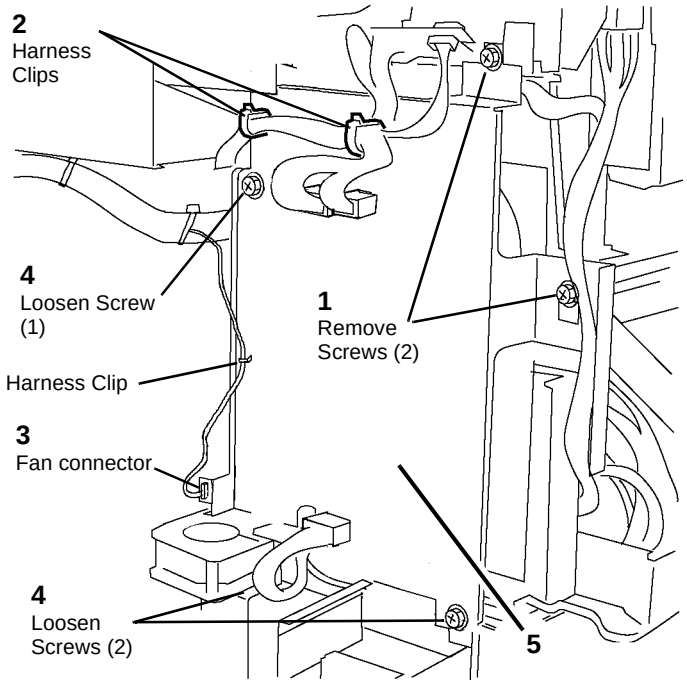

Figure 1 Removing the +24 V LVPS Bracket Assembly

Replacement

1. To install, carry out the removal steps in reverse order.

REP 1.10 BTR1 HVPS

Parts List on PL 9.1

Removal

WARNING

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

1. Remove the Rear Cover (REP 14.2).
2. Pivot down the HVPS Chassis (REP 1.6).
3. Remove the 24 VDC LVPS Bracket Assembly (REP 1.9).
4. Remove the BTR1 HVPS (Figure 1).
   1. Disconnect the 1st BTR connectors (4).
   2. Disconnect harness connectors (2).
   3. Remove the screws (2) and remove High Voltage Power Supply with chassis.
   4. Remove the High Voltage Power Supply from chassis.

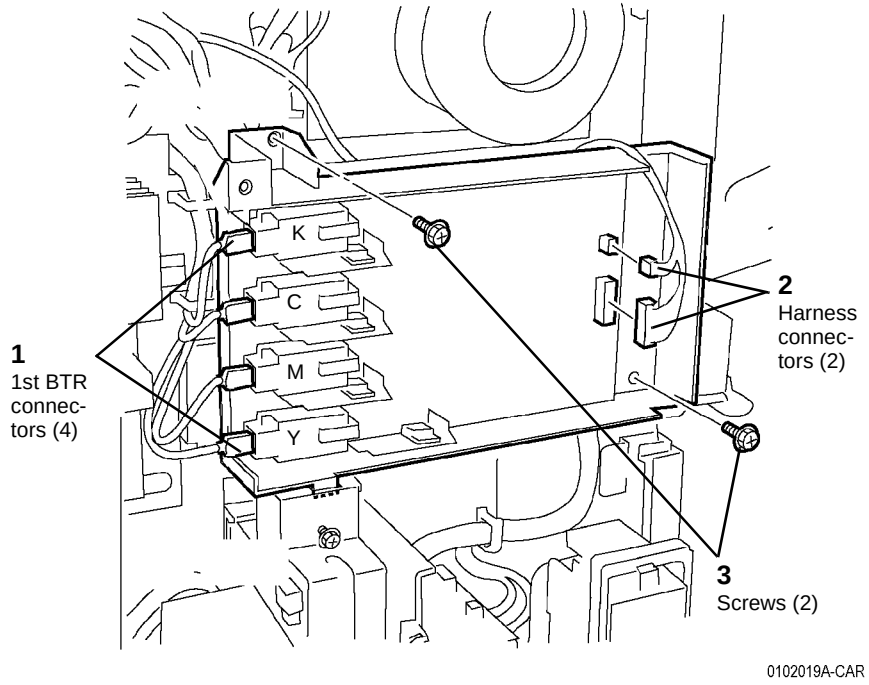

Figure 1 Removing the BTR1 HVPS

Replacement

1. To install, carry out the removal steps in reverse order.

REP 1.11 AC Drive PWB

Parts List on PL 9.2

Removal

WARNING

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

1. Remove the Rear Cover (REP 14.2).
2. Pivot down the HVPS Chassis (REP 1.6).
3. Remove the 24 VDC LVPS Chassis (REP 1.9).
4. Remove BTR1 HVPS (REP 1.10).
5. Remove the Bracket (Figure 1).
   1. Remove the screw (1).
   2. Remove the Bracket.

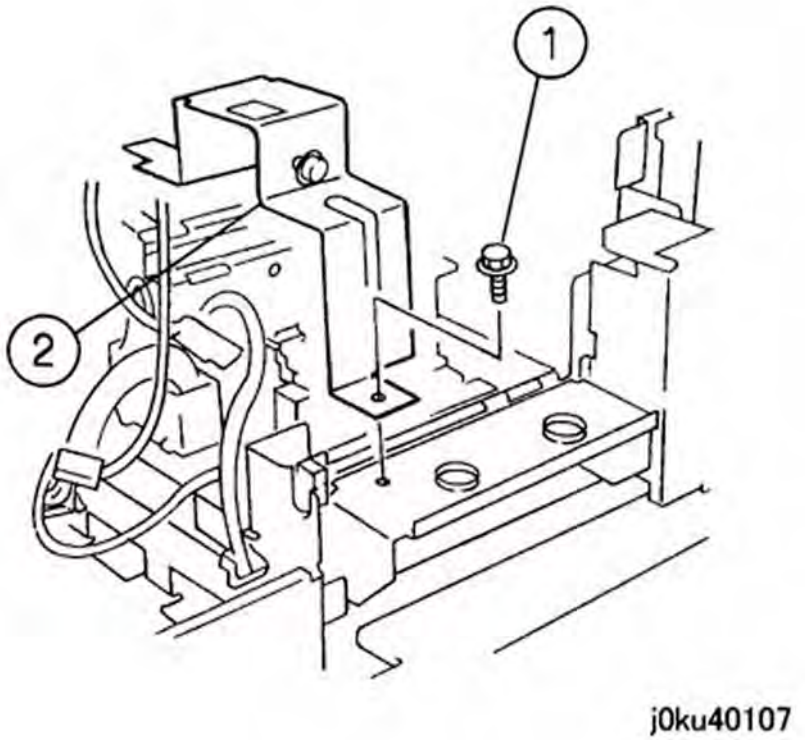

Figure 1 Removing the Bracket

6. Remove the AC Drive PWB (Figure 2).

NOTE: Carefully observe position of wiring harnesses and AC wires for later reinstallation.

1. Release the harnesses from the Harness Clips (2).
2. Disconnect the AC connectors (4) and the DC connectors (2).
3. Disconnect the AC wires (5).
4. Remove the connector.
5. Remove the mounting screws (3), disengage the PWB from the clip (not shown), and remove the AC Drive PWB.

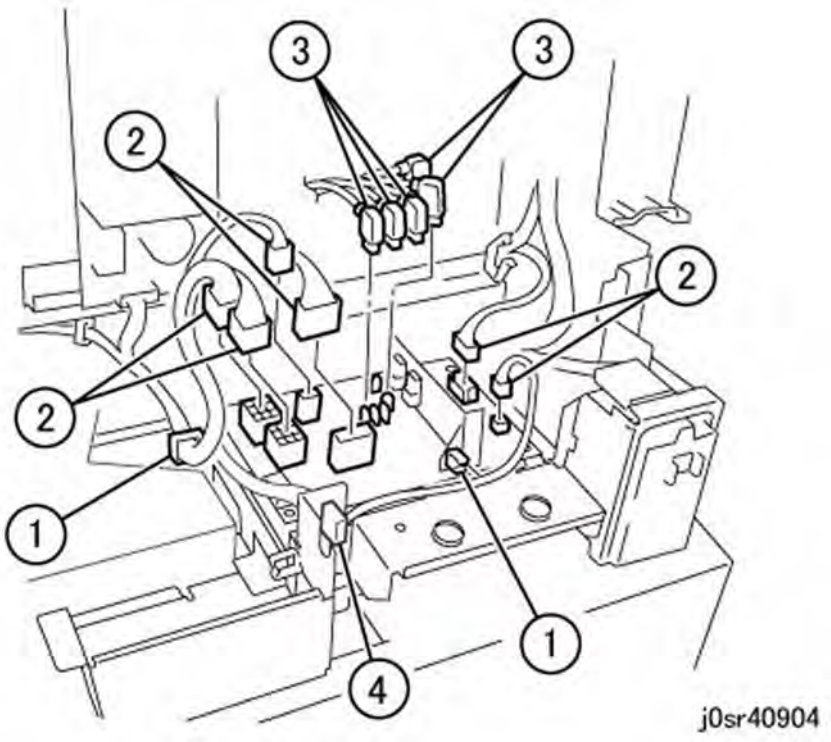

Figure 2 Removing AC Drive PWB

Replacement

CAUTION

Ensure that White connector is P43 and the Blue connector is P42. Other AC (and DC) connectors are different sizes to ensure correct connection.

CAUTION

Ensure that the AC Drive PWB harness connectors are installed correctly (Figure 3).

1. To install, carry out the removal steps in reverse order.

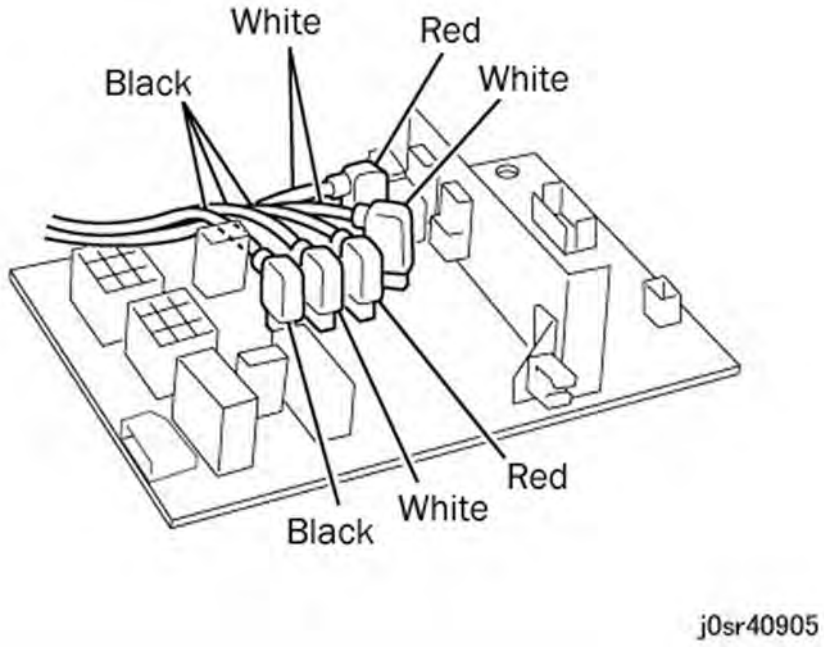

Figure 3 AC Drive PWB Harness Connectors Locations

REP 1.12 ESS Chassis Assembly

Parts List on PL 13.2 (72XX)

Parts List on PL 13.4 (73XX)

Removal

WARNING

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

CAUTION

PWBs can be damaged by an electrostatic discharge. Observe all ESD procedures to avoid component damage.

1. Disconnect all wires and cables from the Panel of the ESS Chassis Assembly.
2. Remove the ESS Chassis Assembly (Figure 1).
   1. Remove the screws (2).
   2. Pull the Chassis out of the machine using the Knurled Screws as handles.

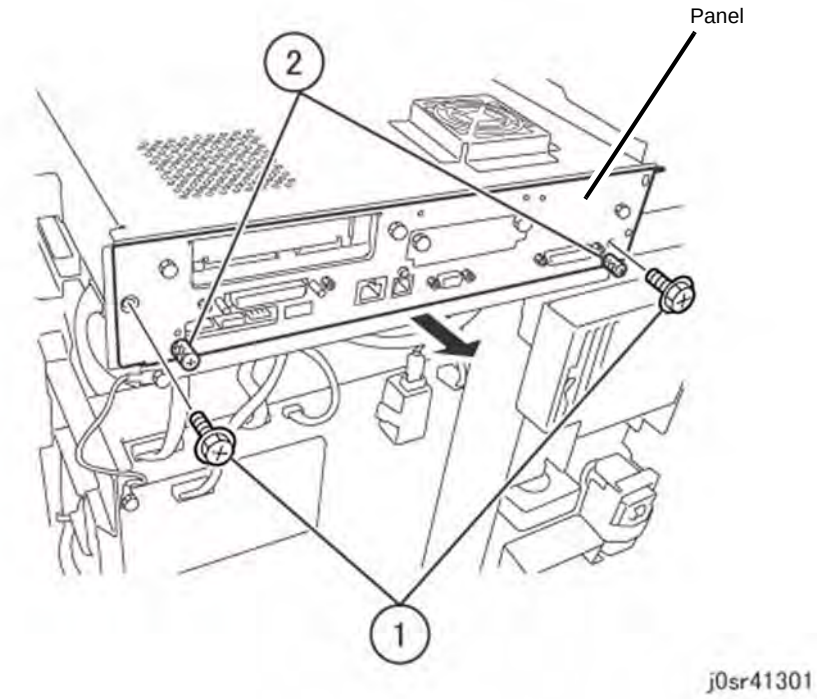

Figure 1 Removing ESS PWB Assembly

Replacement

1. To install, carry out the removal steps in reverse order Insert the ESS Assembly ensuring that the right side of the assembly (as viewed from the rear) is under the rail.

REP 1.12.1 ESS PWB

Parts List on PL 13.2 (72XX)

Parts List on PL 13.4 (73XX)

Removal

1. Gather all available settings information. This includes the machine NVM log, the Machine Settings floppy disk (if available), copies of the Configuration Report, etc. If possible, save the current Machine Settings to a floppy disk.

WARNING

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

CAUTION

PWBs can be damaged by an electrostatic discharge. Observe all ESD procedures to avoid component damage.

2. Remove the ESS Chassis Assembly (REP 1.12).
3. Remove the Hard Drive Assembly (Figure 1).
   1. Disconnect P/J 361.
   2. Disconnect P/J 310.
   3. Remove the screws (3).
   4. Remove the Hard Drive Assembly.

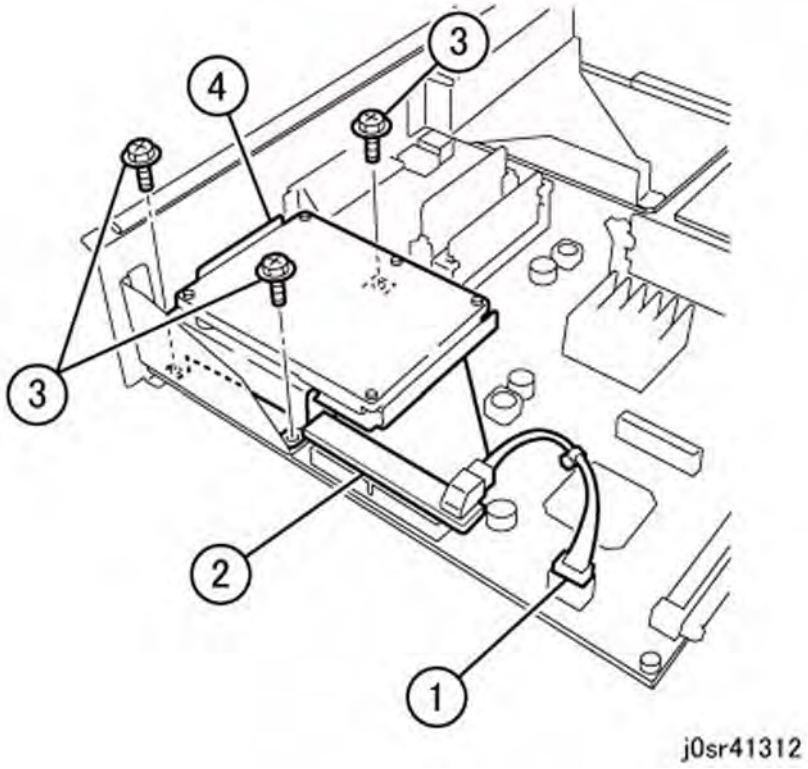

Figure 1 Removing the Hard Drive

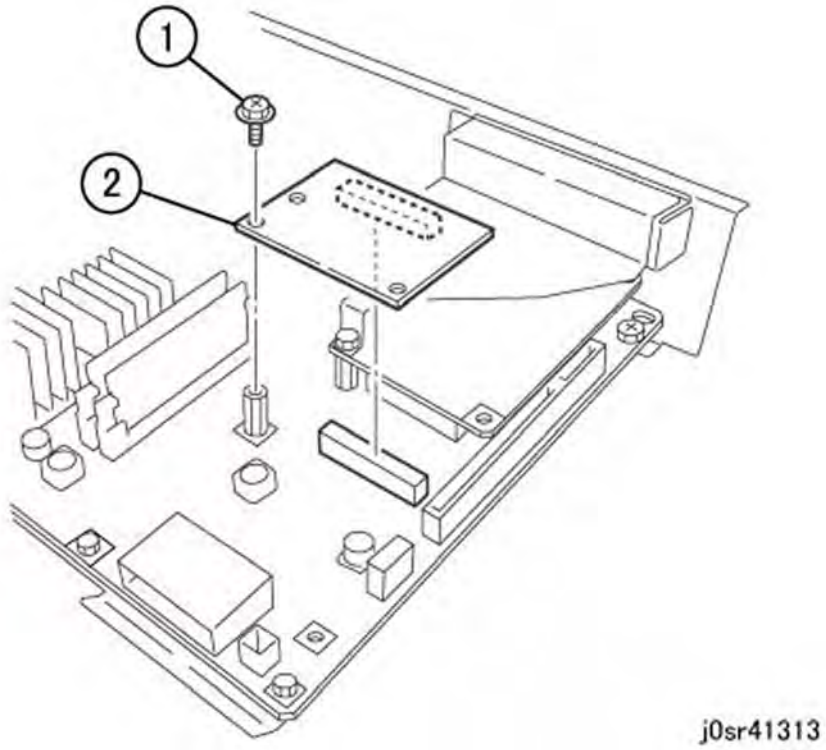

Figure 2 Removing the JPEG PWB

CAUTION

PWBs can be damaged by electrostatic discharge. Observe all ESD procedures to avoid component damage.

CAUTION

The JPEG PWB connects to the ESS PWB at the hidden P/J 370. Remove the JPEG PWB carefully to protect it, the connector, and the ESS PWB from damage.

4. Remove the JPEG PWB (Figure 2).
    1. Remove the screw.
    2. Carefully lift and remove the JPEG PWB.

CAUTION

PWBs can be damaged by electrostatic discharge. Observe all ESD procedures to avoid component damage.

5. Remove the following from the ESS PWB (Figure 3).
    1. System Memory
    2. ESS ROM
    3. ESS NVM PWB

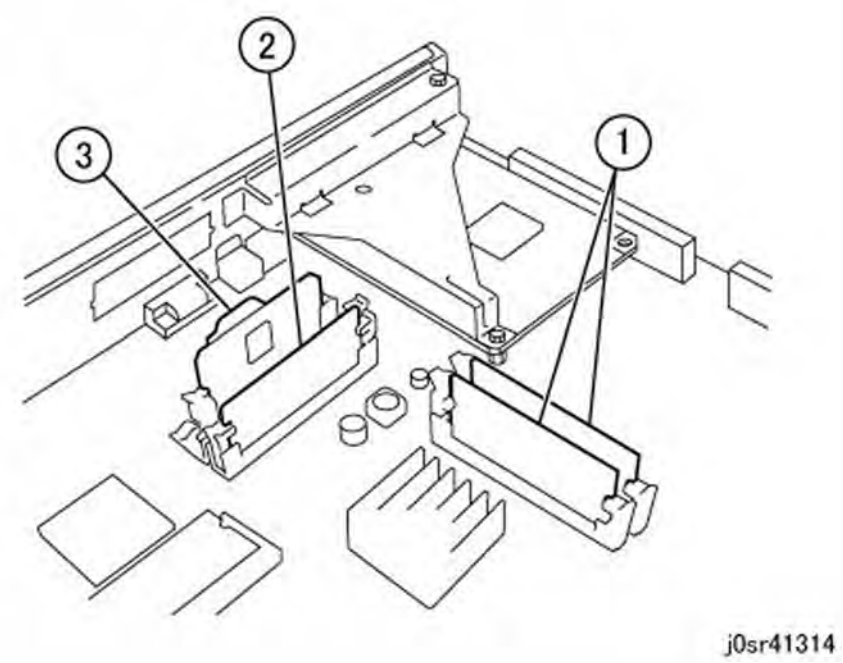

Figure 3 Removing the System Memory, ESS ROM, and ESS NVM PWB

6. Remove the Bracket (Figure 4).
   1. Remove the screws (3).
   2. Remove the Bracket.

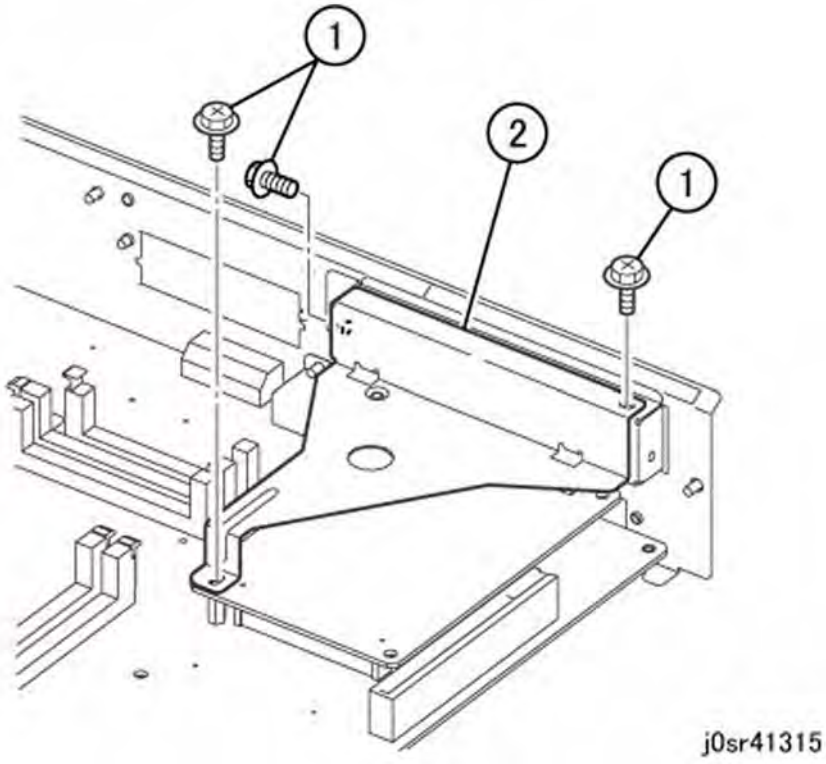

Figure 4 Removing the Bracket

7. Remove the ESS Box Panel (Figure 5).
    1. Remove the screws (2).
    2. Remove the plastic Cap.
    3. Remove the screws (2).
    4. Remove the Option Cover.
    5. Remove the lockscrews (2).
    6. Remove the lockscrews (2).
    7. Remove the screw (1).
    8. Remove the Knurled Screws (2).
    9. Remove the screw (1).
    10. Remove the Panel.

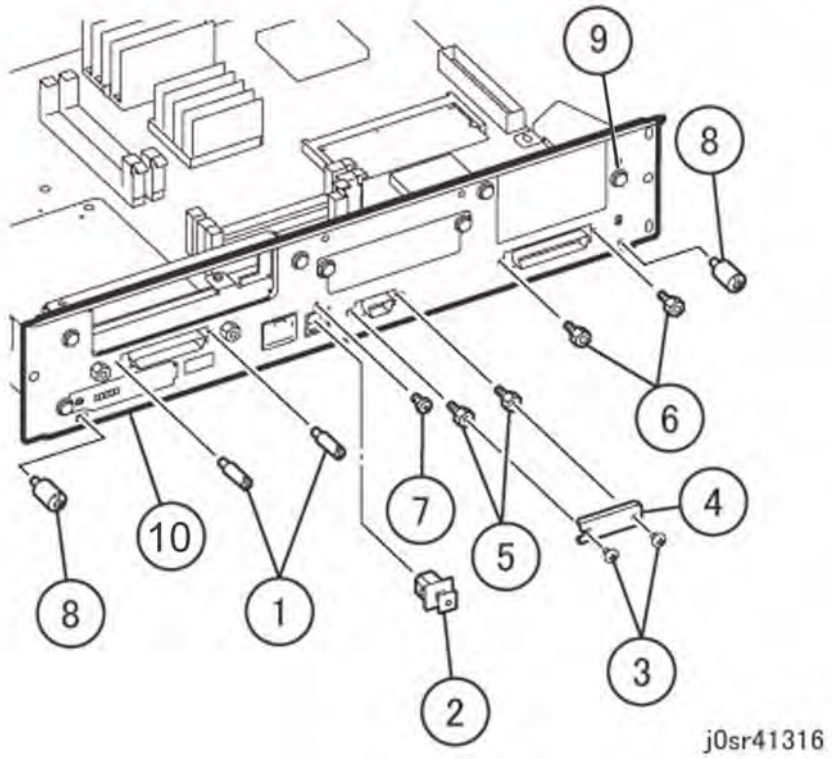

Figure 5 Removing the ESS Box Panel

CAUTION

PWBs can be damaged by electrostatic discharge. Observe all ESD procedures to avoid component damage.

8. Remove the UI PWB and the Page Memory (Figure 6).
    1. Carefully lift and remove the UI PWB.
    2. Remove the Page Memory (J338).

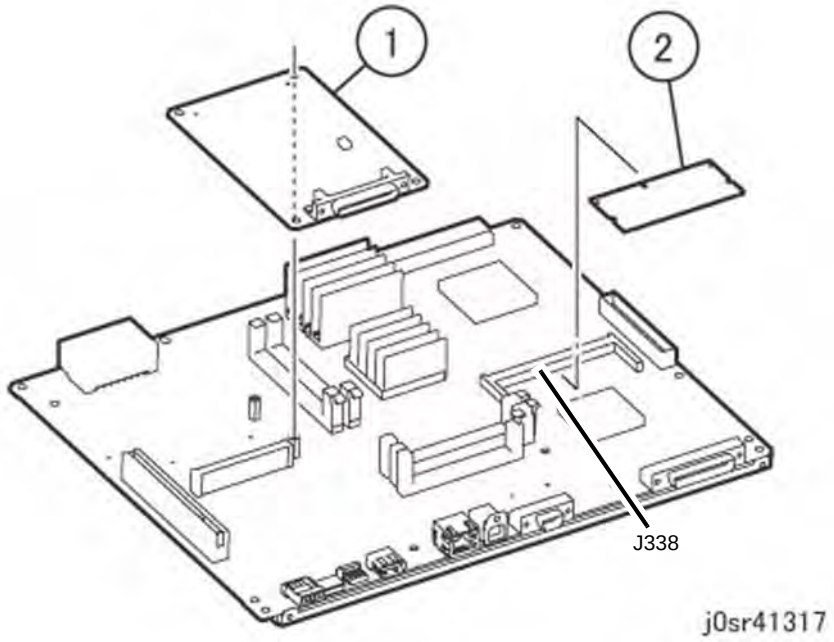

Figure 6 Removing the UI PWB

9. Remove the ESS PWB from the Chassis (Figure 7).
    1. Remove the screws (8).
    2. Remove the spacers (2).
    3. Remove the ESS PWB.

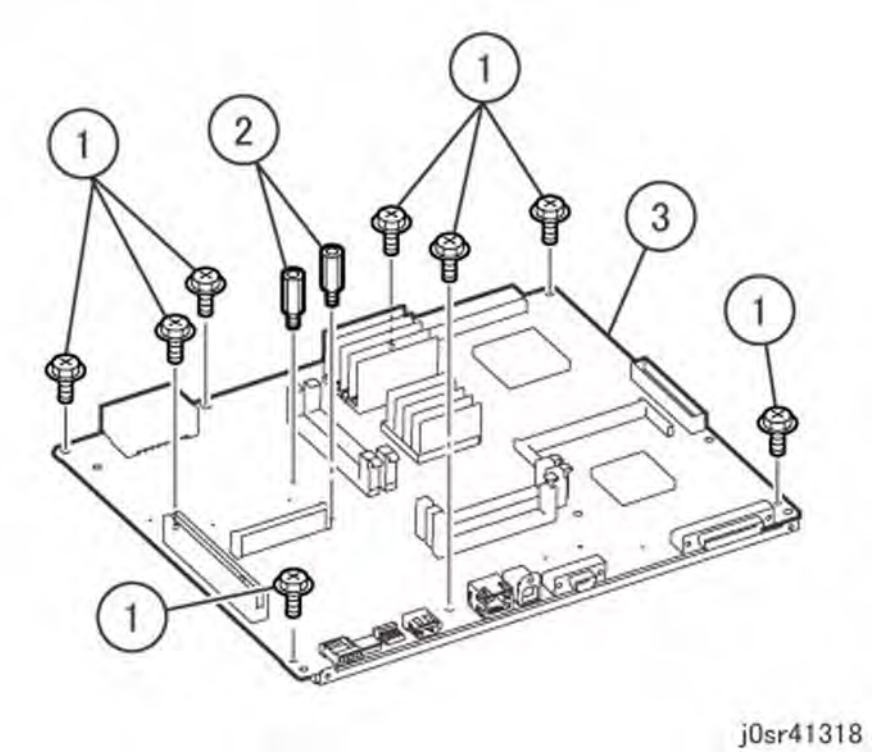

Figure 7 Removing the ESS PWB from the Chassis

Replacement

1. Reinstall the ESS NVM PWB, the DIMMs, the Hard Drive, all of the remaining PWBs, the Bracket, and the Panel that were removed from the original PWB.

CAUTION

*GP10 is used to maintain the integrity of the serial number and billing data when one or more serialized PWBs must be replaced. Never replace all three listed PWBs at the same time. If any of the PWBs needs replacing, only replace them **one at a time**.*

- *ESS NVM PWB (PL 13.2).*
- *MCU NVM PWB (PL 13.1).*
- *SEEP ROM on the Backplane PWB (PL 13.1).*

Failure to comply with GP 10 could result in catastrophic NVM corruption.

2. Follow the procedure in GP 10, to verify that the serial numbers and billing information are correct.
3. If a good Machine Settings floppy is available, exit, then reenter the PWS Tool. Select **Read from Floppy** when starting the tool. If no floppy is available, or if the data on the existing floppy is questionable, go to step 5.
4. Go to dC351 and select **Restore Machine Settings**. When restoration is complete, go to step 7.
5. If a good Machine Settings floppy is not available, or if the data on the existing floppy is questionable, go to dC351. In the Special Batch Write area, select the appropriate market region, then press the **Batch Write NVM** button.
6. Using the resources gathered in step 1 of the removal procedure, reenter NVM data to restore the machine configuration.
7. Ensure that the network information (IP address, etc.) is correct. Contact the customer's system administrator to configure, if necessary.
8. Go to dC351 and select **Save Machine Settings**. Save the settings to floppy disk per the procedure.

REP 1.12.2 ESS NVM PWB

Parts List on PL 13.2 (72XX)

Parts List on PL 13.4 (73XX)

Removal

1. Gather all available settings information. This includes the machine NVM log, the Machine Settings floppy disk (if available), copies of the Configuration Report, etc. If possible, save the current Machine Settings to a floppy disk.

WARNING

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

2. Remove the ESS Chassis Assembly (REP 1.12).

CAUTION

The ESS NVM PWB has a lithium battery. Dispose of the used battery following the manufacturers' instructions after replacing. Do not throw it away at customer's site.

CAUTION

PWBs can be damaged by electrostatic discharge. Observe all ESD procedures.

3. Remove the ESS NVM PWB (Figure 1).

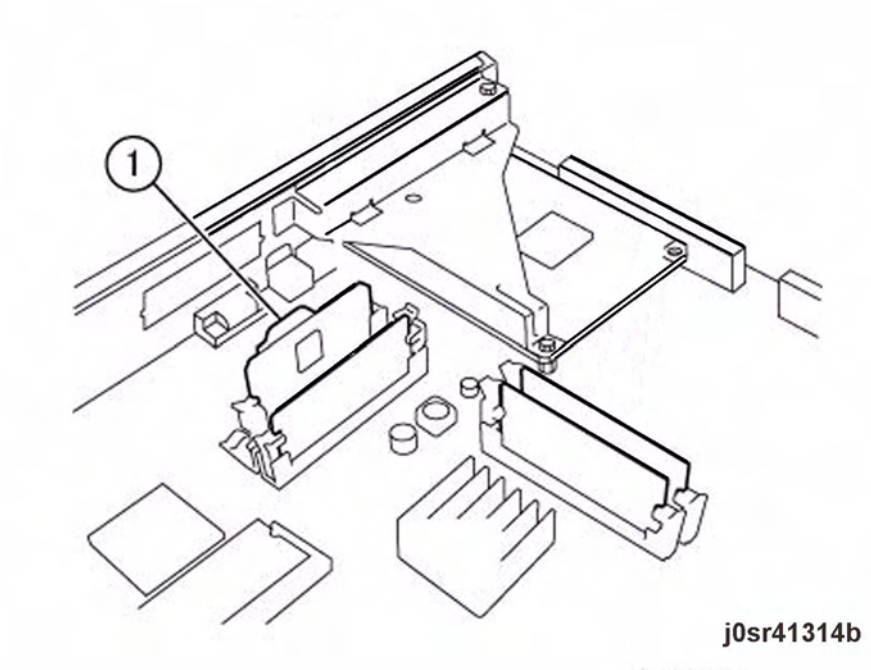

Figure 1 Removing the ESS NVM PWB

Replacement

1. Install the new ESS NVM PWB and reassemble the machine. Connect the PWS and switch on the power.

CAUTION

GP10 is used to maintain the integrity of the serial number and billing data, when one or more serialized PWBs must be replaced.

*To maintain the integrity of the serial number and billing data, never replace all three listed PWBs at the same time. If any of the following billing data PWBs needs replacing, only replace them **one at a time**.*

- *ESS NVM PWB (PL 13.2).*
- *MCU NVM PWB (PL 13.1).*
- *SEEP ROM on the Backplane PWB (PL 13.1).*

Failure to comply with the board replacement procedure in GP 10 could result in catastrophic NVM corruption.

2. Follow the procedure in GP 10. If two or more serial numbers DO NOT match the machine label serial number, escalate the service call to Field Engineering or the NTC.
3. Initialize SYS-System, then initialize SYS-User.
4. If a good Machine Settings floppy is available, exit, then reenter the PWS Tool. Select **Read from Floppy** when starting the tool. If no floppy is available, or if the data on the existing floppy is questionable, go to step 6.
5. Go to dC351 and select **Restore Machine Settings**. When restoration is complete, go to step 8.
6. If a good Machine Settings floppy is not available, or if the data on the existing floppy is questionable, go to dC351. In the Special Batch Write area, select the appropriate market region, then press the **Batch Write NVM** button.
7. Using the resources gathered in step 1 of the removal procedure, reenter NVM data to restore the machine configuration.
8. Ensure that the network information (IP address, etc.) is correct. Contact the customer's system administrator to configure, if necessary.
9. Go to dC351 and select **Save Machine Settings**. Save the settings to floppy disk per the procedure.

REP 1.12.3 ESS ROMs

Parts List on PL 13.2 (72XX)

Parts List on PL 13.4 (73XX)

Removal

1. Gather all available settings information. This includes the machine NVM log, the Machine Settings floppy disk (if available), copies of the Configuration Report, etc. If possible, save the current Machine Settings to a floppy disk.

WARNING

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

CAUTION

PWBs can be damaged by electrostatic discharge. Observe all ESD procedures.

2. Remove the ESS Chassis Assembly (REP 1.12).
3. Remove the ESS ROMs (Figure 1).

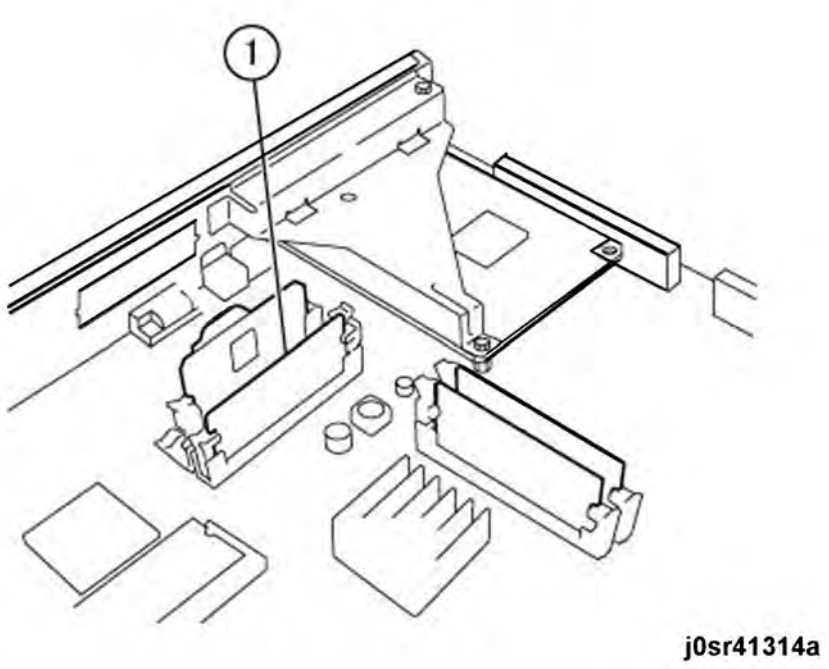

Figure 1 Removing the ESS ROM

Replacement

CAUTION

The ESS ROM 1 must be installed in the R1 slot (slot toward front of machine) (Figure 1).

1. Install the new ESS ROMs and reassemble the machine
2. Switch on the power and connect the PWS.
3. If the machine declares a software-related (Chains 102, 103 or 116) fault, there may be an incompatible version of ESS software in the new ESS ROMs. Reload the correct ESS software in accordance with the instructions on the s/w upgrade CD.
4. If the machine successfully boots without a fault code, print the Configuration Page. Check the ESS software version (Standard+PostScript ROM) to ensure that it matches the system software configuration. Refer to the SW Configuration Table in the system software upgrade instructions contained on the s/w upgrade CD.

   If the software version does not match, reload the software in accordance with the instructions on the CD.

REP 1.12.4 Hard Drive Assembly

Parts List on PL 13.2 (72XX)

Parts List on PL 13.4 (73XX)

Removal

WARNING

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

CAUTION

PWBs can be damaged by electrostatic discharge. Observe all ESD procedures.

1. Remove the ESS Chassis Assembly (REP 1.12).
2. Remove the Hard Drive Assembly (Figure 1).
    1. Disconnect P/J 361.
    2. Disconnect P/J 310.
    3. Remove the screws (3).
    4. Remove the Hard Drive.

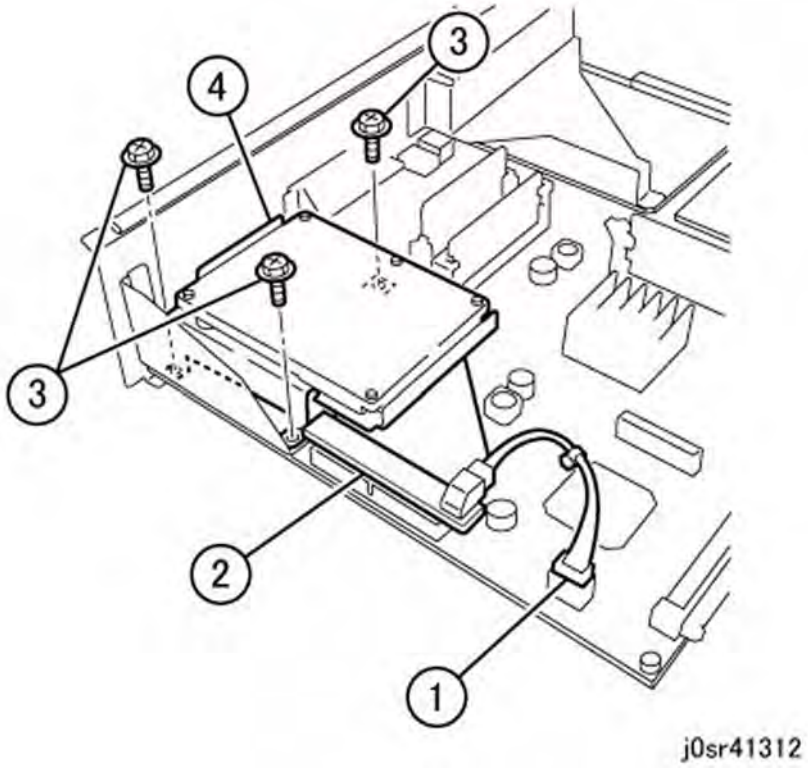

Figure 1 Removing the Hard Drive

Replacement

1. To install, carry out the removal steps in reverse order.

REP 1.12.5 UI PWB

Parts List on PL 13.2 (72XX)

Parts List on PL 13.4 (73XX)

Removal

WARNING

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

CAUTION

PWBs can be damaged by electrostatic discharge. Observe all ESD procedures.

1. Remove the ESS Chassis Assembly (REP 1.12).

CAUTION

Ensure that the Spacer that is located between the ESS PWB and the UI PWB remains seated against the ESS PWB and does not turn as you remove the screw.

2. Remove the Bracket (Figure 1).
   1. Remove the screws (3).
   2. Remove the Bracket.

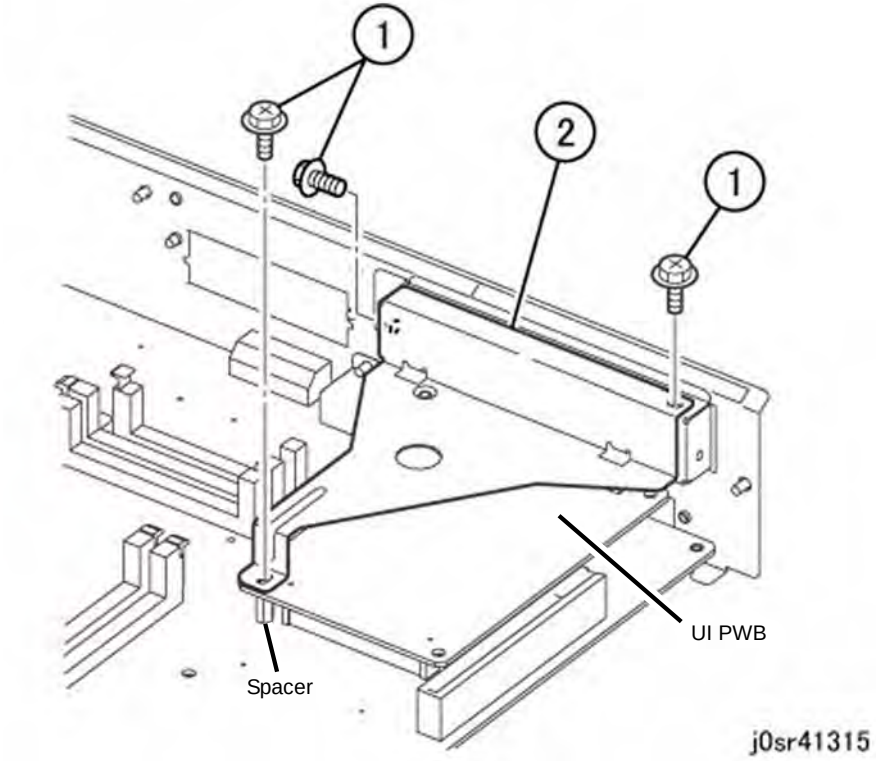

Figure 1 Removing the Bracket

3. Remove the ESS Box Panel (Figure 2).
   1. Remove the screws (2).
   2. Remove the plastic Cap.
   3. Remove the screws (2).
   4. Remove the Option Cover.
   5. Remove the lockscrews (2).
   6. Remove the lockscrews (2).
   7. Remove the screw (1).
   8. Remove the Knurled Screws (2).
   9. Remove the screw (1).
   10. Remove the Panel.

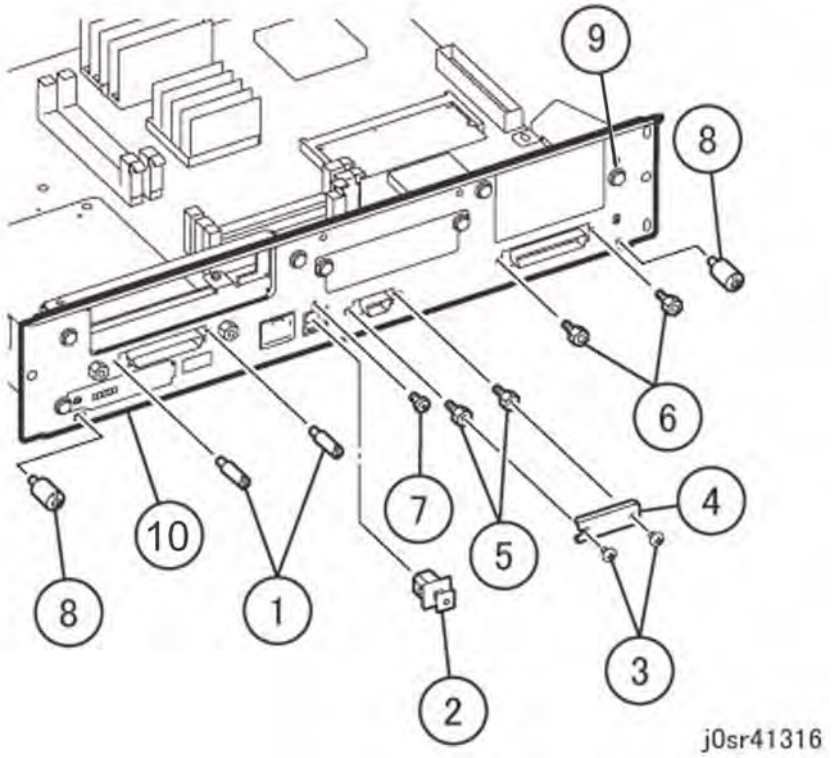

Figure 2 Removing the ESS Box Panel

CAUTION

Ensure that the spacer that is located between the ESS PWB and the UI PWB remains seated against the ESS PWB and does not turn as you remove the screw.

4. Remove the UI PWB (Figure 3).
   1. Carefully lift and remove the UI PWB.

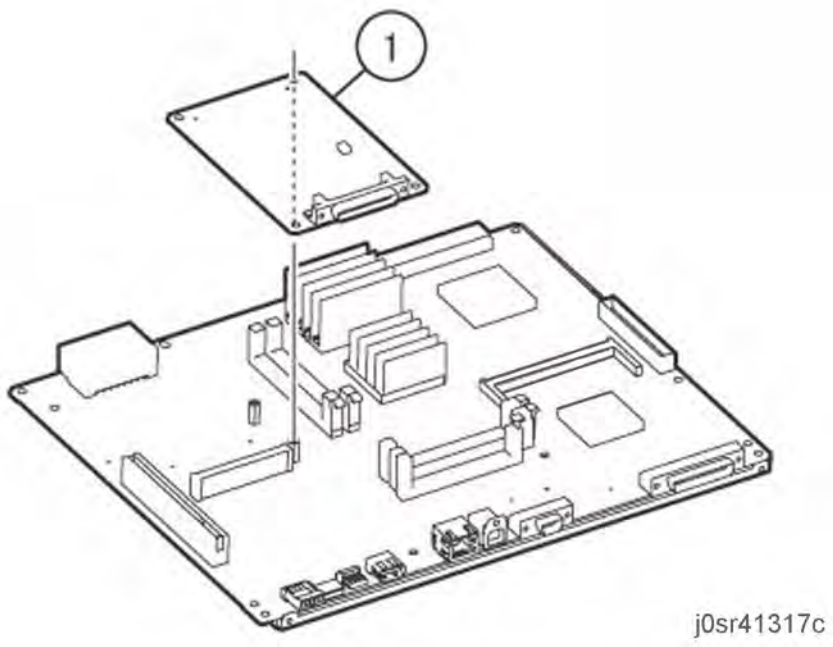

Figure 3 Removing the UI PWB

Replacement

1. To install, carry out the removal steps in reverse order.
2. Perform UI Display Calibration, ADJ 9.13

REP 1.12.6 JPEG PWB

Parts List on PL 13.2 (72XX)

Parts List on PL 13.4 (73XX)

Removal

WARNING

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

CAUTION

PWBs can be damaged by electrostatic discharge. Observe all ESD procedures.

1. Remove the ESS Chassis Assembly (REP 1.12).

CAUTION

The JPEG PWB connects to the ESS PWB at the hidden P/J 370. Remove the JPEG PWB carefully to protect it, the connector, and the ESS PWB from damage.

CAUTION

Ensure that the Spacer that is located between the ESS PWB and the JPEG PWB remains seated against the ESS PWB and does not turn as you remove the screw.

2. Remove the JPEG PWB (Figure 1).
   1. Remove the screw.
   2. Carefully lift and remove the JPEG PWB.

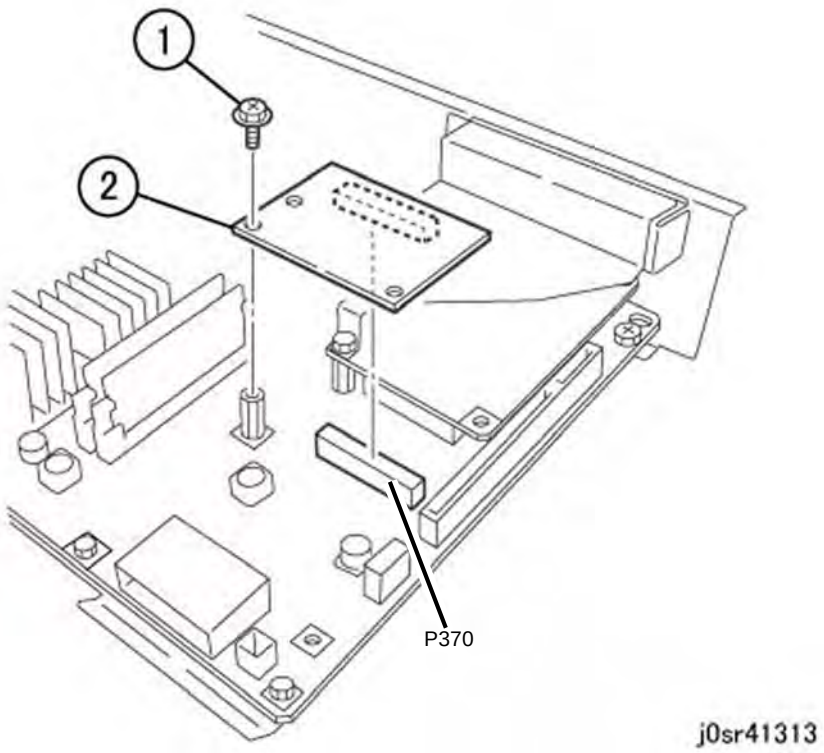

Figure 1 Removing the JPEG PWB

Replacement

1. To install, carry out the removal steps in reverse order.

REP 1.12.7 System and Page Memory

Parts List on PL 13.2 (72XX)

Parts List on PL 13.4 (73XX)

Removal

WARNING

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

CAUTION

PWBs can be damaged by electrostatic discharge. Observe all ESD procedures.

1. Remove the ESS Chassis Assembly (REP 1.12).
2. Remove the System Memory (Figure 1) located at M1 and M2.
   1. Disengage the clasps.
   2. Remove the System Memory.

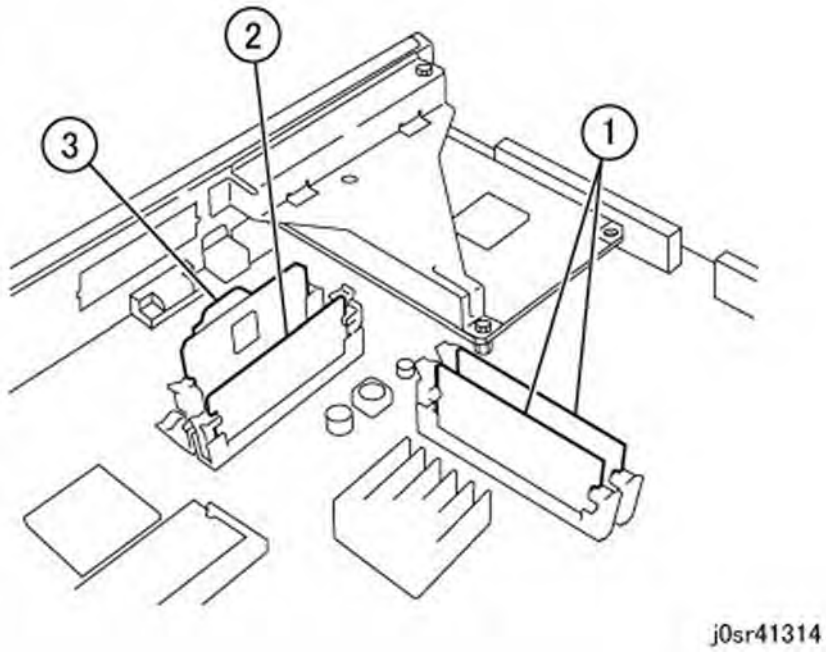

Figure 1 Removing the System Memory

3. Remove the Page Memory which is located beneath the Hard Drive (Figure 2).
   1. Remove the Hard Drive Assembly (REP 1.12.4).
   2. Disengage the clasp that secures the Page Memory.
   3. Remove the Page Memory.

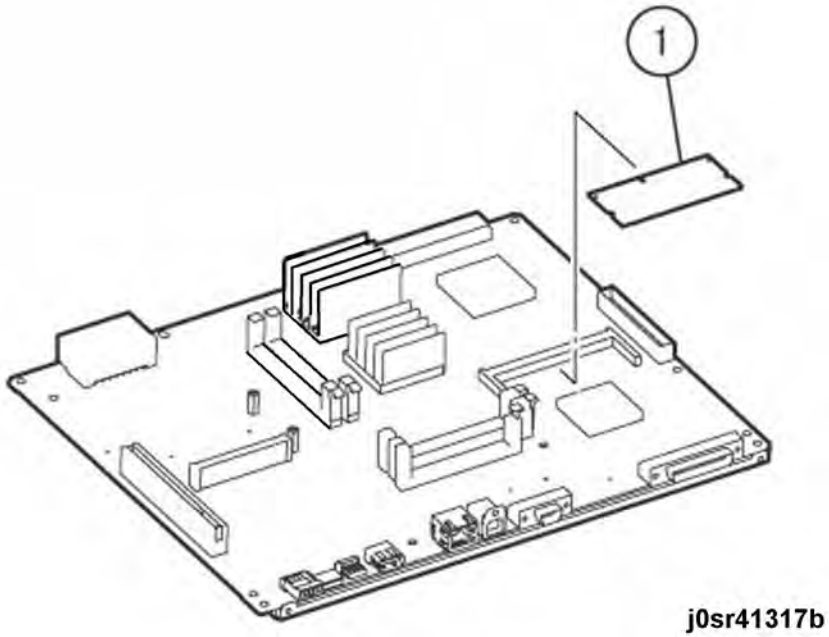

Figure 2 Removing the Page Memory

Replacement

1. To install, carry out the removal steps in reverse order.

REP 1.13 Backplane PWB

Parts List on PL 13.1

Removal

WARNING

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

1. Remove the Rear Cover (REP 14.2).

CAUTION

PWBs can be damaged by an electrostatic discharge. Observe all ESD procedures to avoid component damage.

2. Remove the Top Cover Assembly (REP 14.1).
3. Remove the ESS Chassis Assembly (REP 1.12).
4. Remove the Main Power Switch (Figure 1).
   1. Disconnect the Switch Assembly Link Hook.
   2. Press the locking tabs inward and lift the Switch Assembly off the frame.

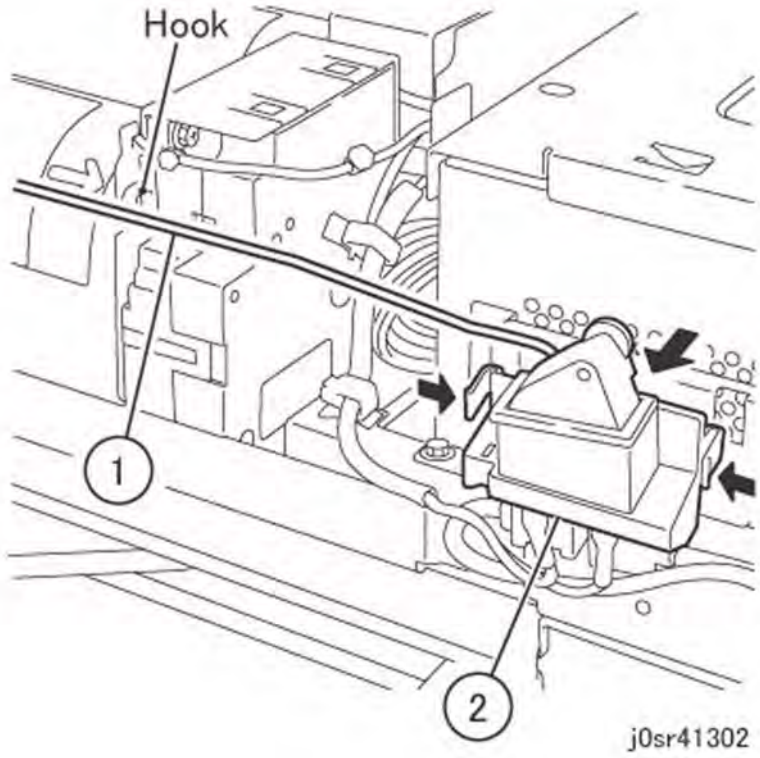

Figure 1 Removing the Main Power Switch Assembly

5. Remove the ESS Cover Assembly (Figure 2).
   1. Disconnect the ESS Fan harness connector.
   2. Remove the screws (4).
   3. Remove the ESS Cover Assembly as indicated by the arrow.

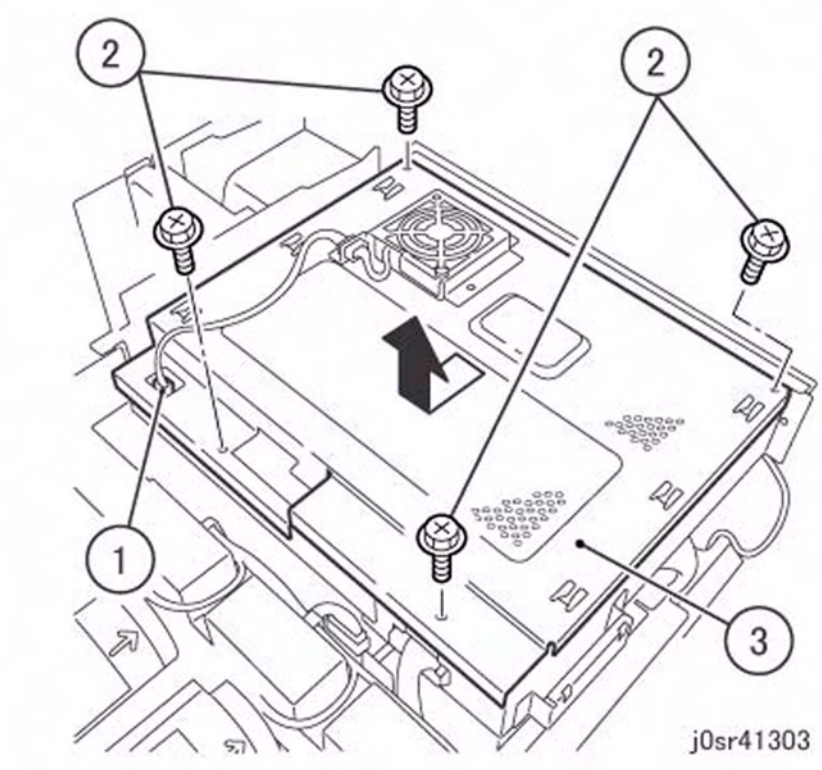

Figure 2 Removing the ESS Cover Assembly

6. Remove the ESS PWB Chassis (Figure 3).

CAUTION

The Backplane PWB, which is mounted to the ESS PWB Chassis, connects to the MCU PWB at P/J 460. Remove the ESS PWB Chassis carefully to prevent damage to the connector, the MCU PWB, or the Backplane PWB.

   a. Loosen the screw and remove the Ground Wire.
   b. Turn the connector 90 degrees counterclockwise and push it through the rear of the ESS PWB Chassis.
   c. Remove the screws (4).
   d. Remove the ESS PWB Chassis (and simultaneously disconnect P/J 460) by carefully lifting the Chassis straight up.

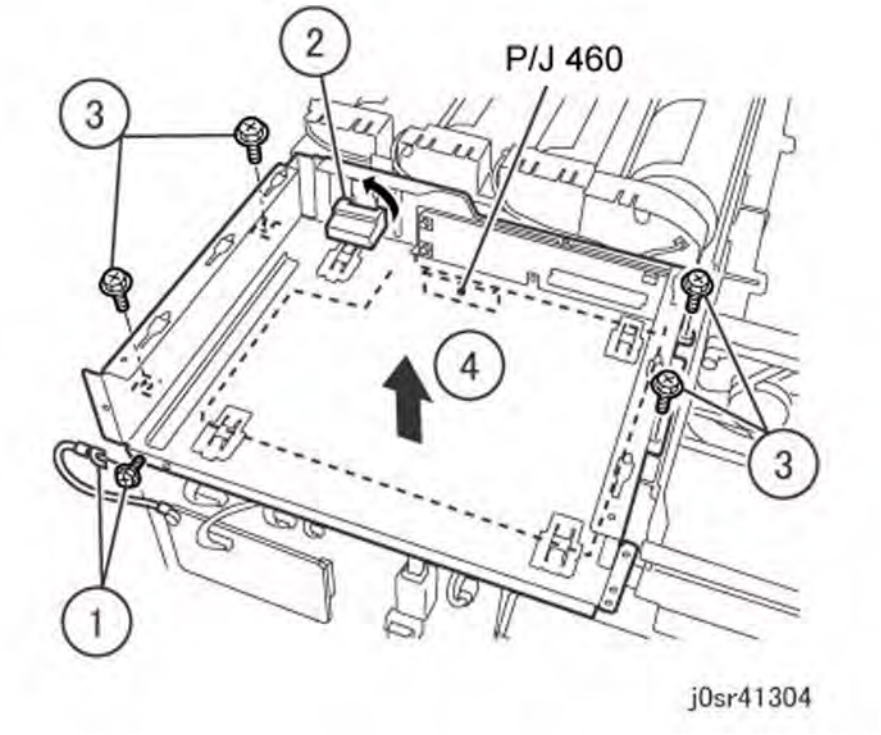

Figure 3 Removing the ESS PWB Chassis.

7. Remove the Backplane PWB Assembly (Figure 4).
   1. Remove the screws (3).
   2. Remove the Backplane PWB Assembly.

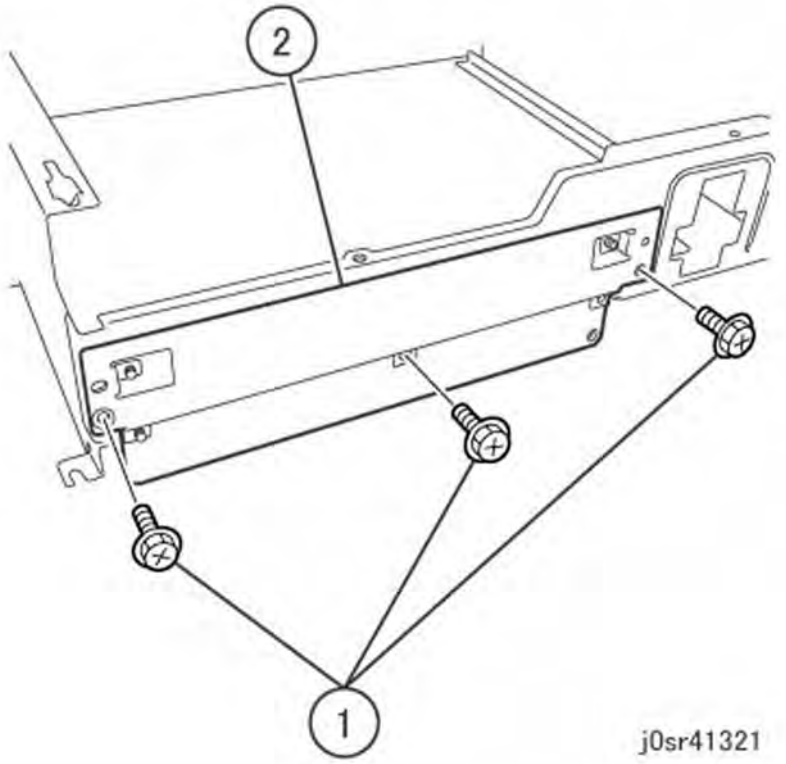

Figure 4 Removing the Backplane PWB Assembly

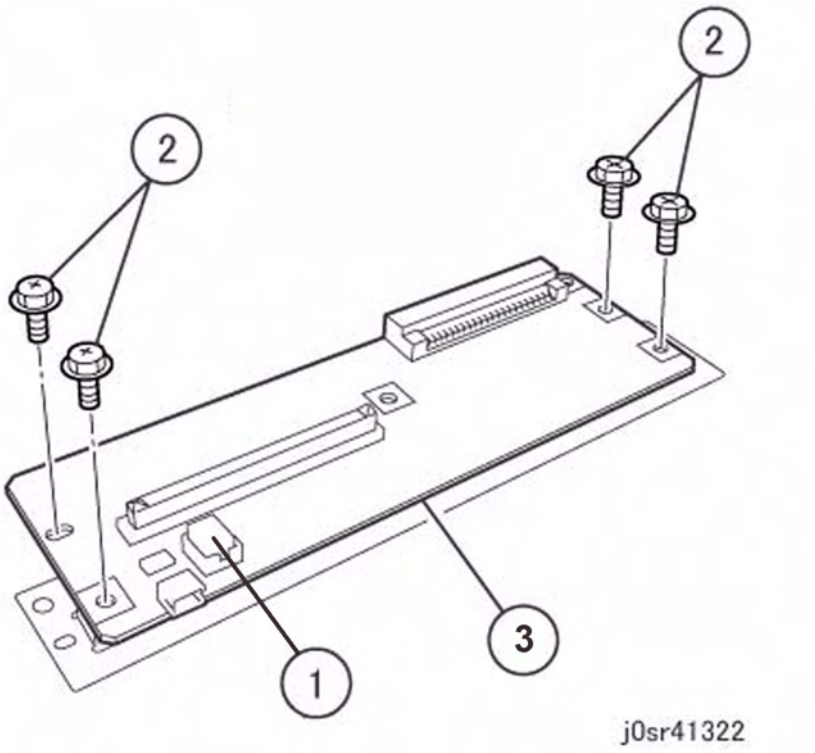

Figure 5 Removing the Backplane PWB

8. Remove the Backplane PWB (Figure 5),
   1. Remove the SEEP ROM and save it for installation on the new Backplane PWB.
   2. Remove the screws (4).
   3. Remove the Backplane PWB.

Replacement

1. Install on the new Backplane PWB the SEEP ROM that was removed from the original PWB.

CAUTION

GP10 is used to maintain the integrity of the serial number and billing data when one or more serialized PWBs must be replaced. Never replace all three listed PWBs at the same time. If any of the PWBs needs replacing, only replace them ***one at a time****.*

- *ESS NVM PWB (PL 13.2).*
- *MCU NVM PWB (PL 13.1).*
- *(Figure 1) SEEP ROM on the Backplane PWB (PL 13.1).*

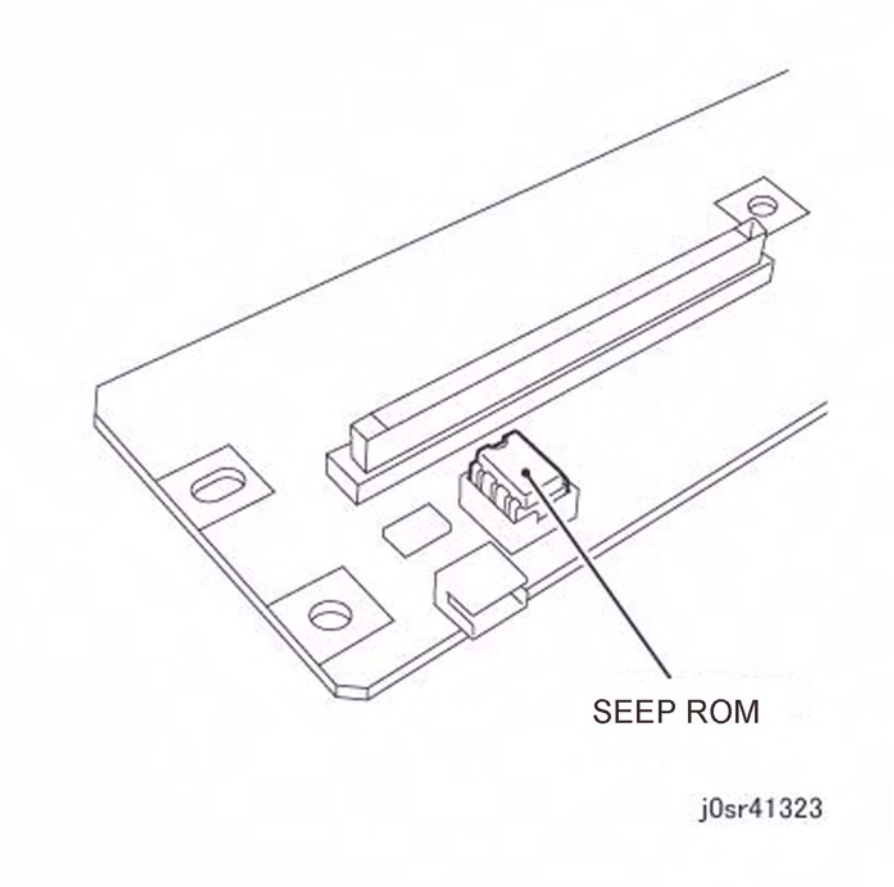

Figure 6 SEEP ROM location on Backplane PWB

Failure to comply with GP 10 could result in catastrophic NVM corruption.

2. Follow the procedure in GP 10, to verify that the serial numbers and billing information are correct.
3. If a good Machine Settings floppy is available, exit, then reenter the PWS Tool. Select **Read from Floppy** when starting the tool. If no floppy is available, or if the data on the existing floppy is questionable, go to step 5.
4. Go to dC351 and select **Restore Machine Settings**. When restoration is complete, go to step 7.
5. If a good Machine Settings floppy is not available, or if the data on the existing floppy is questionable, go to dC351. In the Special Batch Write area, select the appropriate market region, then press the **Batch Write NVM** button.
6. Using the resources gathered in step 1 of the removal procedure, reenter NVM data to restore the machine configuration.
7. Ensure that the network information (IP address, etc.) is correct. Contact the customer's system administrator to configure, if necessary.
8. Go to dC351 and select **Save Machine Settings**. Save the settings to floppy disk per the procedure.

REP 4.1 Main Motor Assembly

Parts List on PL 1.1

Removal

WARNING

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

1. Remove Fuser Assembly (REP 10.1).
2. Remove MSI (Tray 5) (REP 7.1).
3. Remove Rear Cover (REP 14.2).
4. Remove +24 V LVPS (REP 1.5) and the +24 V LVPS Bracket Assembly (REP 1.9).
5. Remove the BTR1 HVPS (REP 1.10).
6. Remove AC Drive PWB (REP 1.11).
7. Remove Main Motor Assembly (Figure 1).
   a. Carefully observe position of wiring harnesses for reinstallation.
   b. Disconnect harness connectors (5).
   c. Disconnect harness connectors (3).
   d. Remove harness from Harness Clips (2).
   e. Disconnect HV Wire.

NOTE: *In next step, do not remove small round head screws that appear to secure Main Motor Assembly to machine.*

   f. Remove Screws (5) and remove Main Motor Assembly.

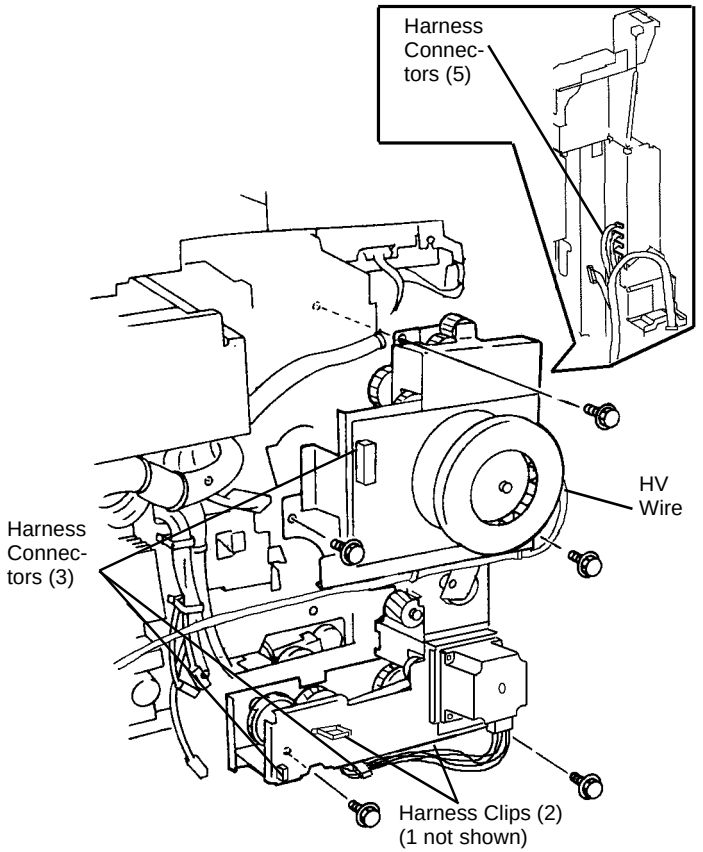

Figure 1 Removing Main Drive Motor

REP 4.2 IBT Motor Assembly

Parts List on PL 1.1

Removal

WARNING

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

1. Remove Rear Cover (REP 14.2).
2. Pivot down High Voltage Power Supply Chassis (REP 1.6).
3. Remove IBT Drive Motor (Figure 1).
   a. Disconnect Cooling Fan connector.
   b. Remove screw and remove Cooling Fan.
   c. Disconnect IBT Motor connector.
   d. Remove IBT Motor Assembly screws (3) and remove IBT Motor Assembly.

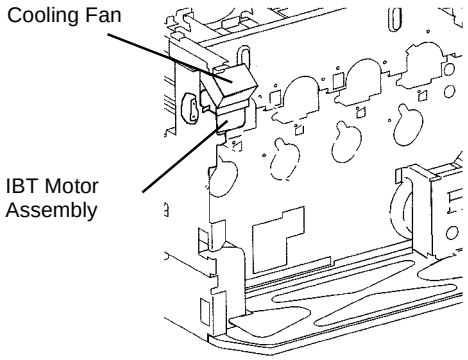

Figure 1 Removing IBT Motor Assembly

REP 4.3 Developer Drive Motor

Parts List on PL 1.1

Removal

WARNING

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

1. Remove Rear Cover (REP 14.2).
2. Remove High Voltage Power Supply Chassis (REP 1.6).
3. Remove the LVPS Assembly (REP 1.1).
4. Remove Developer Drive Motor (Figure 1).
   a. Disconnect P/J.
   b. Remove harness from Harness Clip.
   c. Remove Screws (2) and remove Developer Drive Motor.

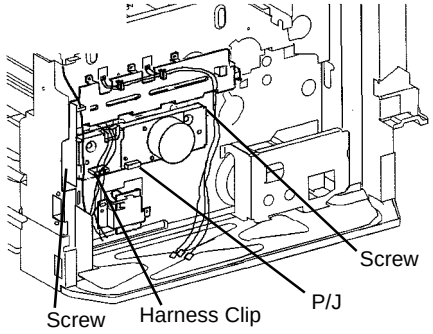

Figure 1 Removing Developer Drive Motor

REP 4.4 Drum Motor Assembly

Parts List on PL 1.1

Removal

WARNING

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

1. Remove the Rear Cover (REP 14.2).
2. Remove the Right Cover (REP 14.3).
3. Remove the Rear Left Middle Cover (REP 14.4).

CAUTION

Machine problems will result from careless harness routing during reassembly. Carefully observe position of wiring harnesses for later reinstallation.

4. Remove +24V LVPS Bracket Assembly (REP 1.9).
5. Remove High Voltage Power Supply Chassis (REP 1.6).
6. Remove the I/F (MDD) PWB Bracket (REP 1.8).

NOTE: *In next step, do not disconnect connectors.*

7. Remove the IBT Motor Assembly (REP 4.2).
8. Remove the BTR1 HVPS (REP 1.10).
9. Remove the LVPS Assembly (REP 1.1).
10. Release the wire harnesses and disconnect the connectors (Figure 1).
    1. Release the wiring harnesses from the clamps (6).
    2. Remove the wiring harness clips from the frame (2).
    3. Disconnect the connectors (3).

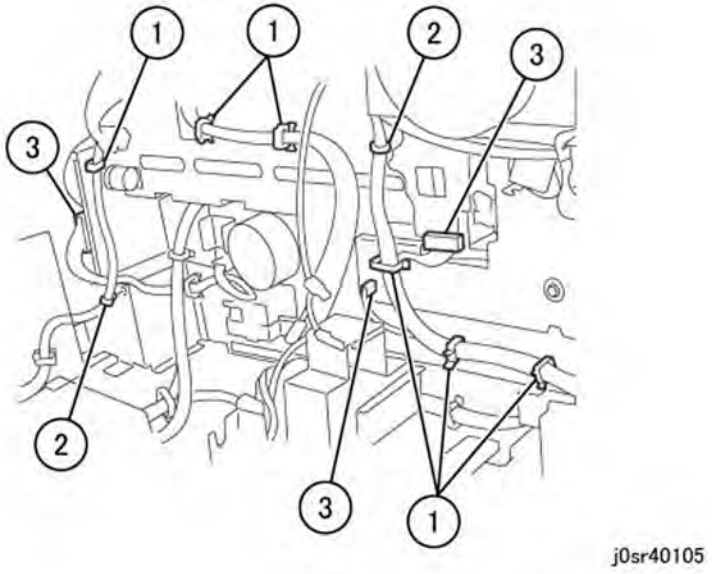

Figure 1 Releasing the wiring harnesses and connectors

11. Pull out all of the Drum Cartridges (Y, M, C, K) about 10cm from their seated positions to release stress on the gears (refer to REP 9.1).

12. Remove the connector located at the right rear lower corner from the frame to provide clearance for the removal of the Drum Motor Assembly (Figure 2).
    1. Remove the screws (2).
    2. Slide the connector out of the frame.

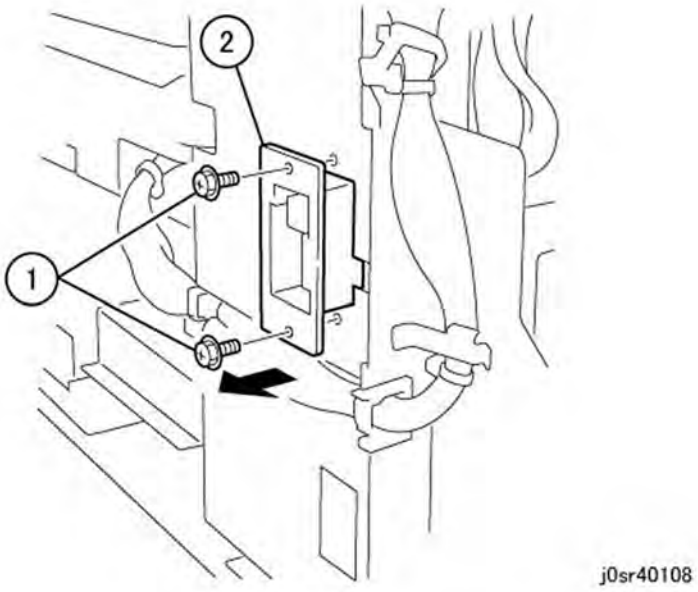

Figure 2 Removing the connector

13. Remove the Drum Motor Assembly (Figure 3).
    1. Remove the screws (8).
    2. Remove the Drum Motor Assembly.

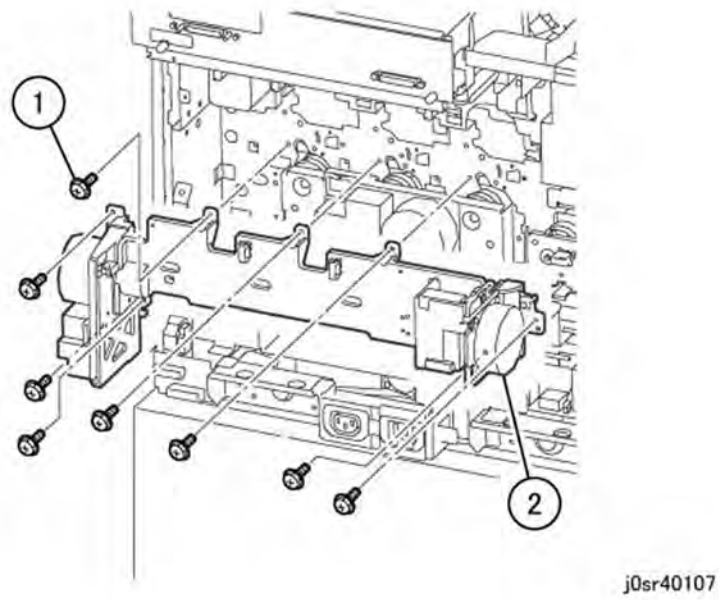

Figure 3 Removing the Drum Motor Assembly

Replacement

1. To install, carry out the removal steps in reverse order.

REP 6.1 ROS

Parts List on PL 3.1

Removal

WARNING

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

1. Remove Right Cover (REP 14.3).
2. Remove Rear Cover (REP 14.2).

CAUTION

Image quality defects result if covers on ROS cleaning openings are removed.

3. Remove ROS (Figure 1).
   a. Carefully observe position of wiring harness for later reinstallation.
   b. Remove Harness from Harness Clips.
   c. Disconnect connectors (2).
   d. Remove Screws (2).
   e. Pull out ROS to remove it.

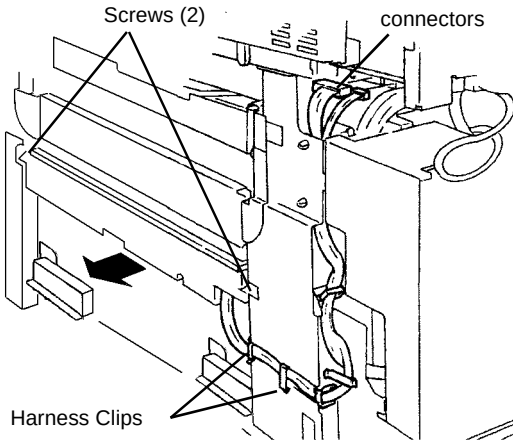

Figure 1 Removing ROS

Replacement

1. If a ferrite is present on the ROS harness remove it from the failed ROS and install the ferrite on the new ROS harness.
2. After machine reassembly, adjust the Color Registration (ADJ 9.6).

REP 6.2 Platen Glass

Parts List on PL 18.3

Removal

WARNING

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

1. Open DADF.
2. Remove Platen Glass (Figure 1).

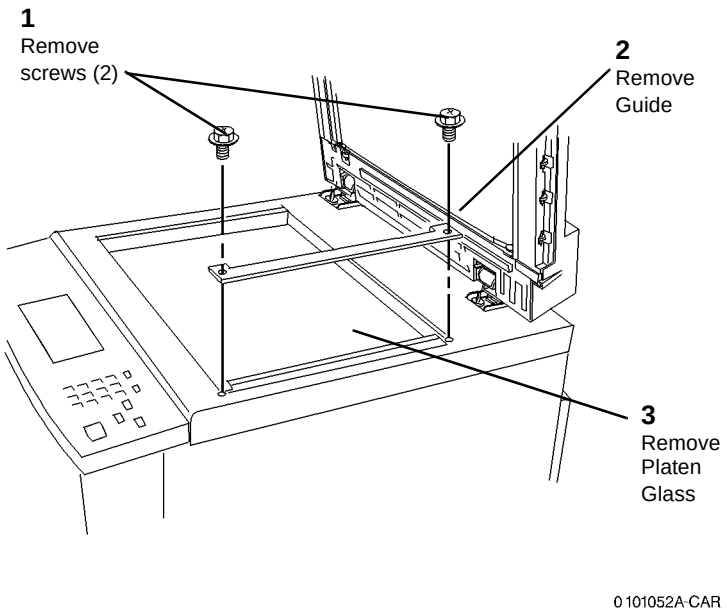

Figure 1 Removing Platen Glass

Replacement

NOTE: *Press Platen Glass in direction of arrow A; Press Right Side Plate in direction of arrow B (Figure 2).*

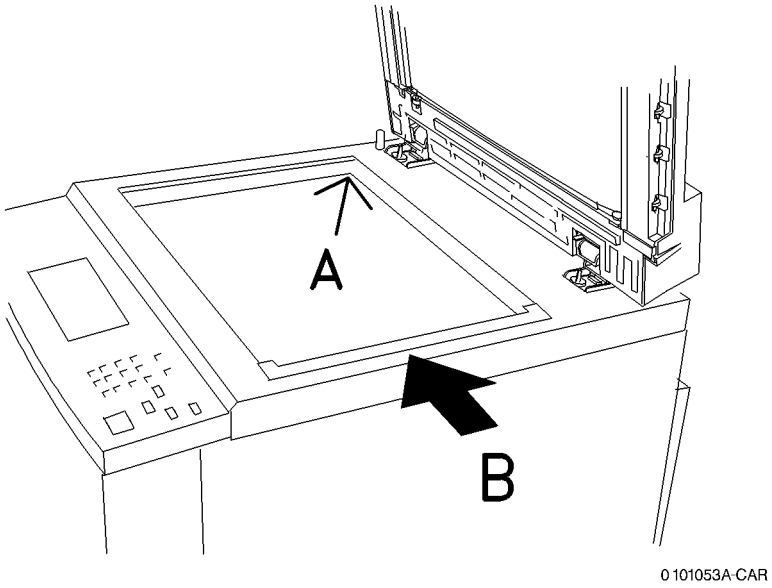

Figure 2 Positioning Platen Glass

REP 7.1 Tray 5 Assembly

Parts List on PL 2.12

Removal

WARNING

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

1. Remove the Rear Left Middle Cover (REP 14.4).
2. Remove Tray 5 (Figure 1).
   a. Observe position of harness for later reinstallation.
   b. Disconnect the Tray 5 connector.
   c. Disconnect the harness Clip from the frame.
   d. Remove the Screws (2).
   e. Pull out Tray 5.

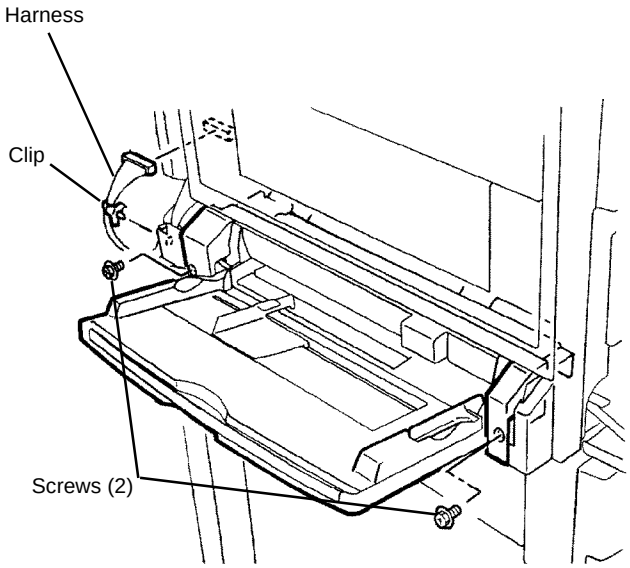

Figure 1 Removing Tray 5

Replacement

CAUTION

The Duplex Chute must be in the up position before installing Tray 5.

1. Open the Left Door Transport, hold the Duplex Chute (PL 2.8) up against the Left Cover, and then close the Left Cover.
2. If the Tray 5 is replaced, reset the HFSI Counter, Chain-Link 954-807.

REP 7.2 Feed Roll (Tray 5)

Parts List on PL 2.13

Removal

WARNING

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

1. Remove Tray 5 (REP 7.1).
2. Remove the Chute (Figure 1).
   a. Remove Screws (3).
   b. Lift to remove Chute.

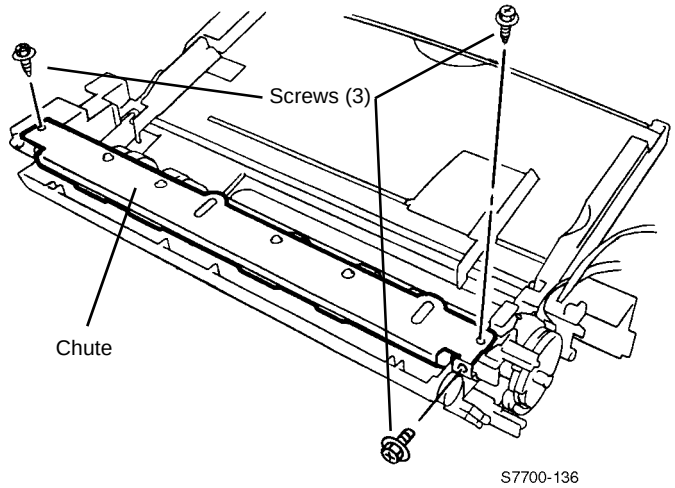

Figure 1 Removing Chute

3. Remove Feed Roll (Figure 2).
   a. Release Locking Tab from groove on shaft and slide Lock Roll away from Feed Roll.
   b. Slide Feed Roll to disengage drive pin and remove Feed Roll.

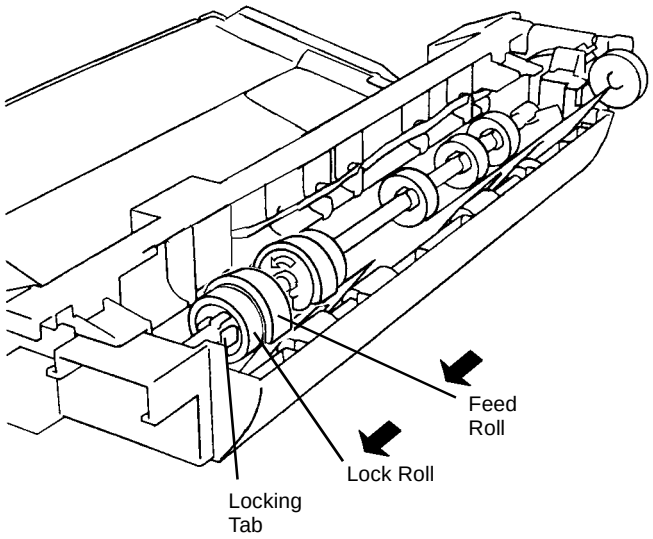

Figure 2 Removing Feed Roll

Replacement

1. Ensure Arrow is positioned as shown (Figure 3).

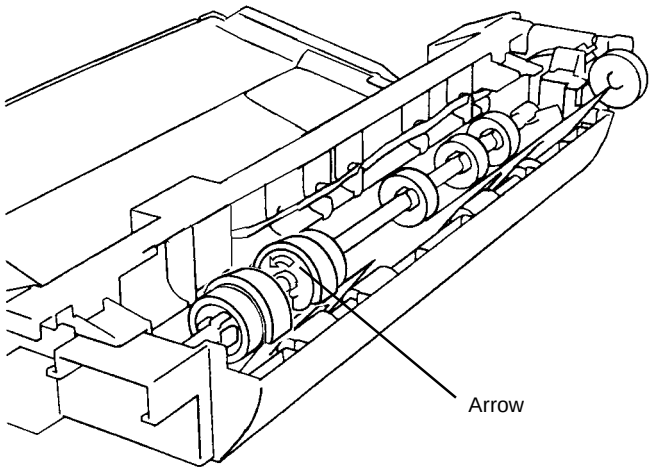

Figure 3 Installing Feed Roll

NOTE: *If a new Feed Roll is installed, also replace the Retard Pad (PL 2.14) and reset the HFSI counter for both using Chain-Link 954-807.*

REP 7.3 Tray 1 Feeder

Parts List on PL 2.3

Removal

WARNING

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

1. Pull out Tray 1 to paper loading position.
2. Open Tray 1 Left Door.
3. Remove Tray 1 Feeder (Figure 1).

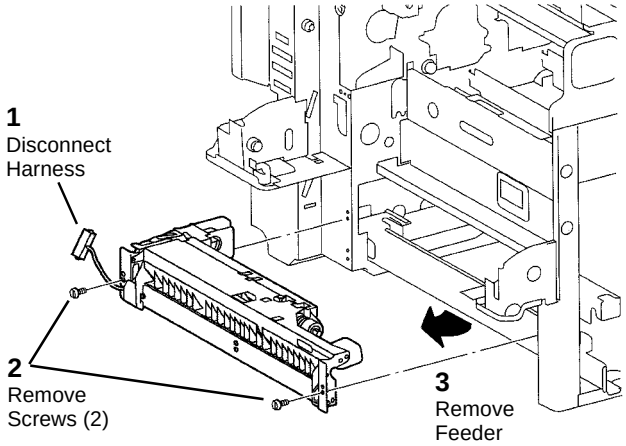

Figure 1 Removing Tray 1 Feeder

Replacement

NOTE: *If replacing the Tray 1 Feeder or installing the Feed/Nudger/Retard Roll Kit, go to and reset the HFSI counter, Chain-Link: 954-806.*

1. To install, carry out the removal steps in reverse order.

REP 7.4 Tray 1 Feed/Lift Motor

Parts List on PL 2.4

Removal

WARNING

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

1. Pull out Tray 1 to paper loading position.
2. Open Tray 1 Left Door.
3. Remove Tray 1 Feeder (REP 7.3).
4. Remove Tray 1 Feed Motor (Figure 1).

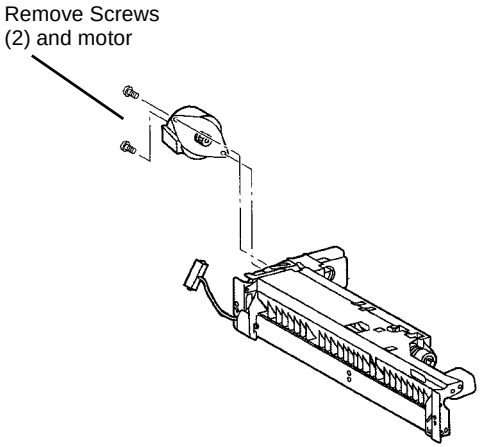

Figure 1 Removing Tray 1 Feed Motor

Replacement

1. To install, carry out the removal steps in reverse order.

REP 7.5 Tray 1 Paper Size Sensor

Parts List on PL 2.1

Removal

WARNING

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

1. Remove Rear Cover (REP 14.2).
2. Remove High Voltage Power Supply Chassis (REP 1.6).

NOTE: *Step 3 can be omitted if Low Voltage Power Supply connectors are disconnected before performing step 4.*

3. Remove 3.3 VDC and 5 VDC Low Voltage Power Supply (REP 1.4).
4. Remove Chassis for 3.3 VDC and 5 VDC Low Voltage Power Supply.
   a. Release harnesses from harness clips (3).
   b. Remove screws (4) and remove Chassis.
5. Remove Developer Drive Module (REP 4.3).
6. Remove Tray 1 Paper Size Switch (Figure 1).
   a. Disconnect connector.
   b. Remove Screws (2) and remove Tray 1 Paper Size Switch.

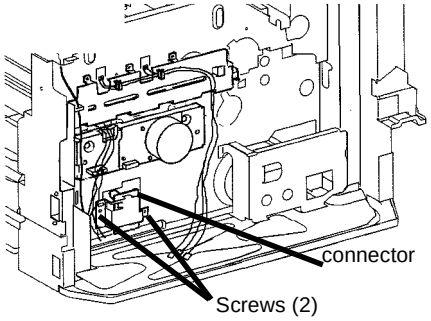

Figure 1 Removing Tray Paper Size Switch

Replacement

1. To install, carry out the removal steps in reverse order.

REP 7.6 Tray 3 (TTM)

Parts List on PL 16.1

Removal

WARNING

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

1. Open the Left Cover Assembly.
2. Remove Tray 3 (Figure 1).
   a. Pull out Tray 3.
   b. Remove Screw.
   c. Pivot bottom of Tray Lock away from Tray 3 and pull out Tray 3 to remove it.

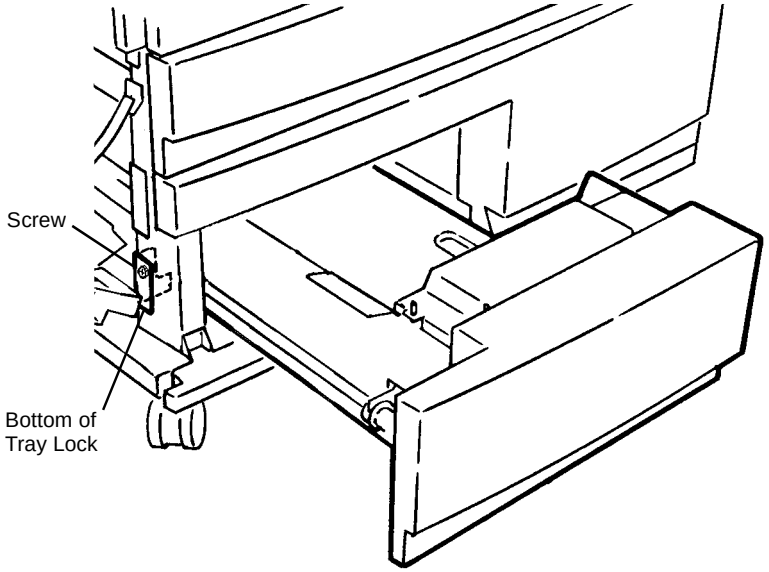

Figure 1 Removing Tray 3

Replacement

1. To install, carry out the removal steps in reverse order.

REP 7.7 Tray 4 (TTM)

Parts List on PL 16.1

Removal

WARNING

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

1. Pull out Tray 4.
2. Remove Tray 4 (Figure 1).
   a. Pull out Tray 4.
   b. Remove Transport Screws (2).
   c. Remove Tray Lock Screws (2).
   d. Remove Tray Lock.
   e. Pull out Tray 4 to remove it.

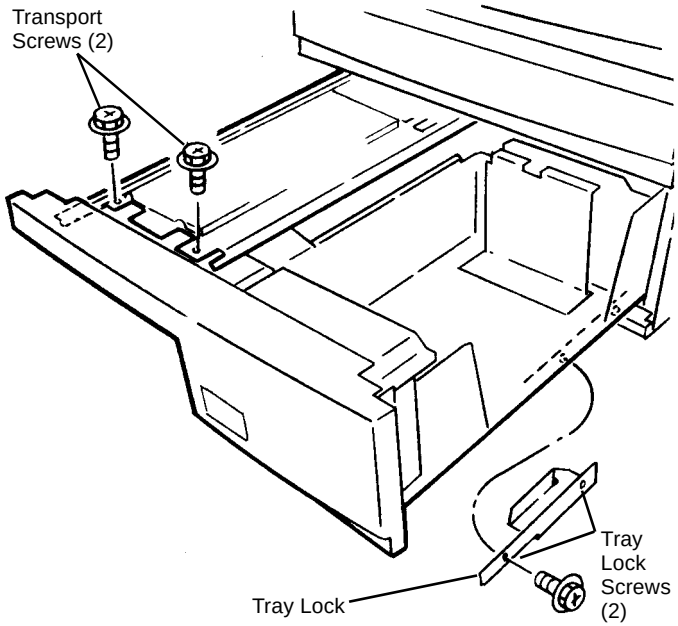

Figure 1 Removing Tray 4

Replacement

1. To install, carry out the removal steps in reverse order.

REP 7.8 Tray 1

Parts List on PL 2.1

Removal

WARNING

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

1. Pull out Tray 1.
2. Lift end of tray to disengage lock on rail (not visible) and remove tray.

REP 7.9 Tray 2 (TTM)

Parts List on PL 16.1

Removal

WARNING

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

1. Pull out Tray 2.
2. Lift end of tray to disengage lock on rail (not visible) and remove tray.

REP 7.10 Tray 2 Feeder (TTM)

Parts List on PL 16.6

Removal

WARNING

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

1. Pull out Tray 2.
2. Remove the Left Lower Cover (PL 16.16)
3. Remove the Tray 2 Feeder (Figure 1).

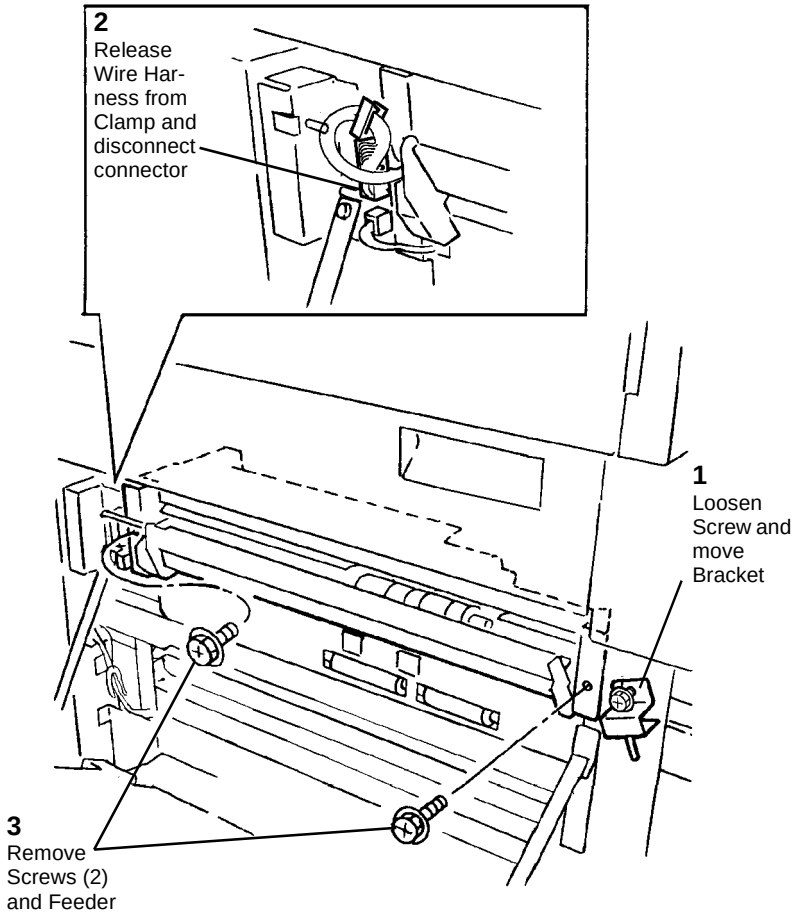

Figure 1 Removing the Tray 2 Feeder

Replacement

NOTE: *If replacing the Tray 2 Feeder or installing the Feed/Nudger/Retard Roll Kit, go to and reset the HFSI counter, Chain-Link: 954-808.*

1. To install, carry out the removal steps in reverse order.

REP 7.11 Tray 3 Feeder

Parts List on PL 15.5

Removal

WARNING

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

1. Remove Tray 2.
2. Pull out Tray 3 and Tray 4.
3. Open the Left Cover.
4. Remove the Tray 3 Feeder Assembly (Figure 1).

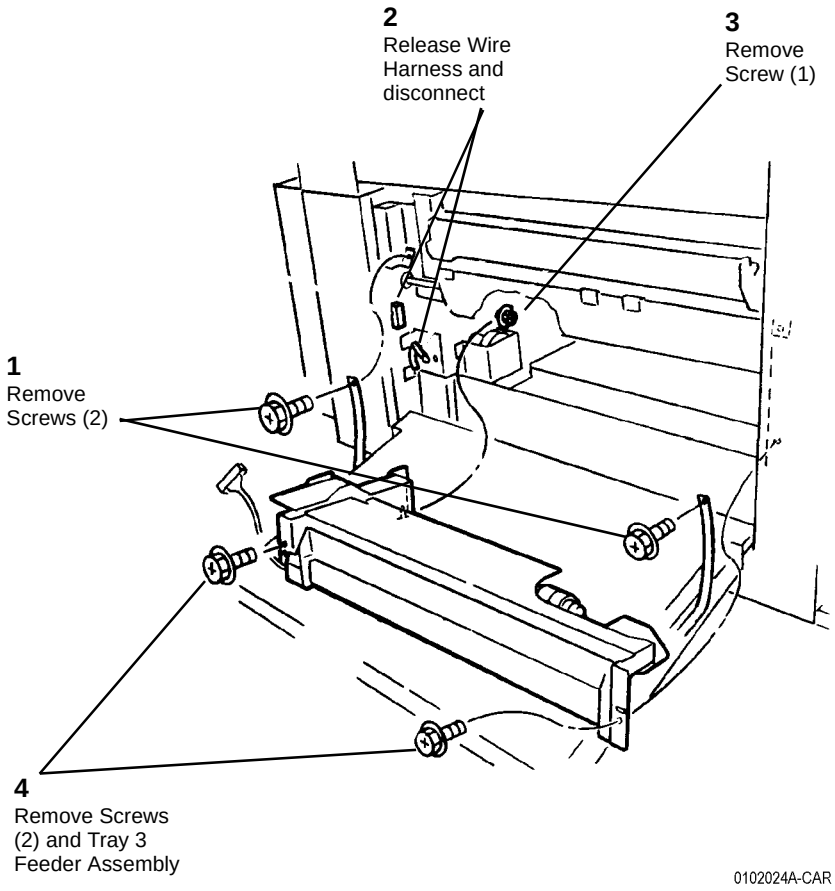

Figure 1 Removing the Tray 3 Feeder Assembly

5. Remove the Tray 3 Feeder from mounting bracket (Figure 2).

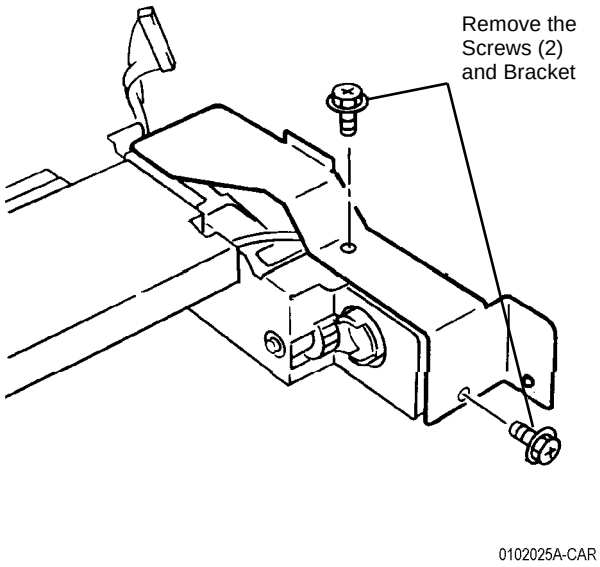

Figure 2 Removing Tray 3 Feeder from Bracket

Replacement

NOTE: *If replacing the Tray 3 Feeder or installing the Feed/Nudger/Retard Roll Kit, go to and reset the HFSI counter, Chain-Link: 954-809.*

1. To install, carry out the removal steps in reverse order.

REP 7.12 Tray 4 Feeder

Parts List on PL 15.7

Removal

WARNING

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

1. Remove the Tray 2.
2. Pull out the Tray 3/4.
3. Remove the Stud Bracket (Figure 1).

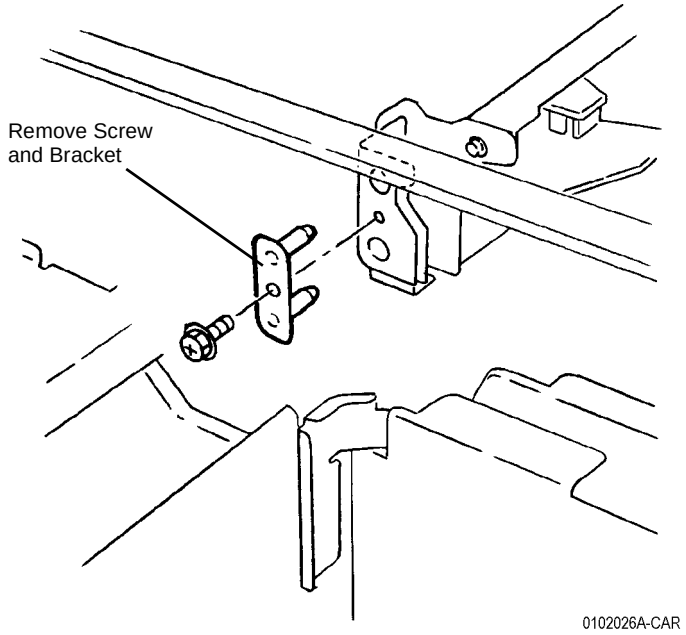

Figure 1 Removing Stud Bracket

4. Remove the Tray 4 Feeder Assembly (Figure 2).

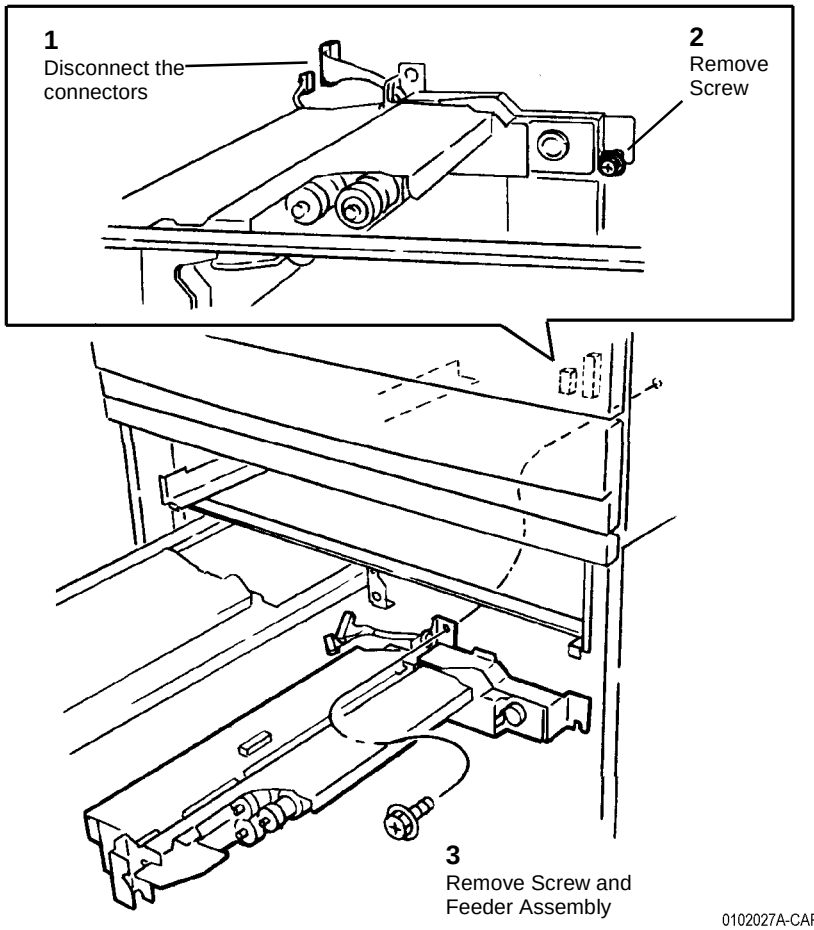

Figure 2 Removing the Tray 4 Feeder Assembly

5. Remove the Tray 4 Feeder Guides (Figure 3).

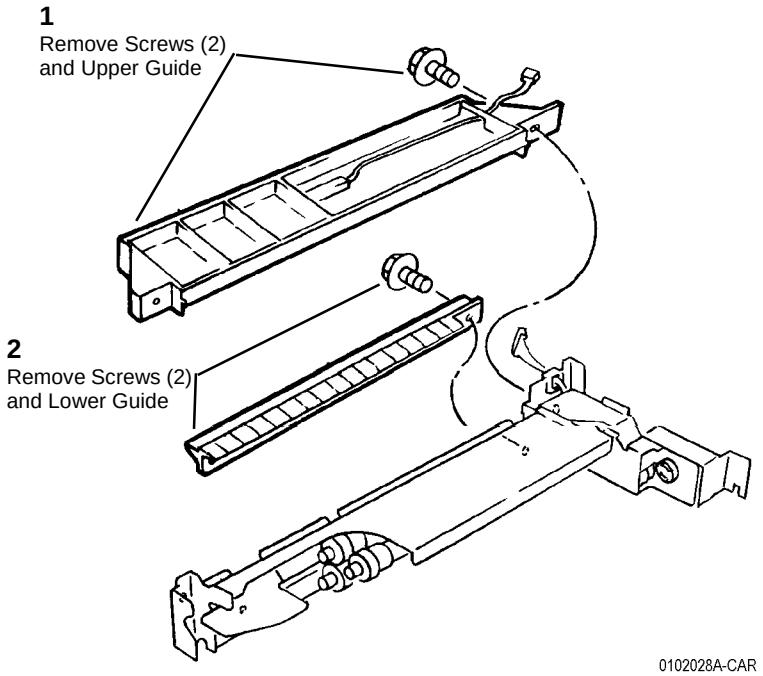

Figure 3 Removing the Guides

6. Remove Brackets from Tray 4 Feeder Assembly (Figure 4).

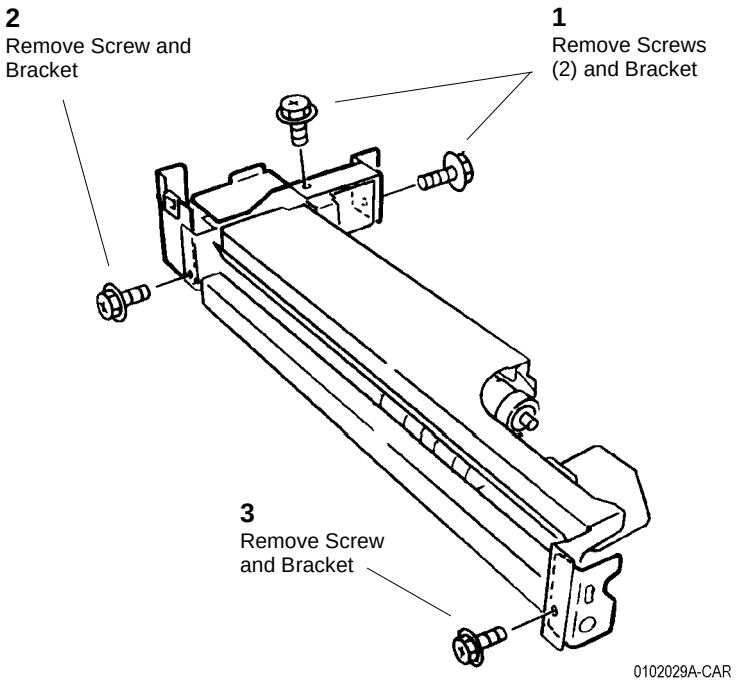

Figure 4 Removing the Brackets

Replacement

NOTE: *If replacing the Tray 3 Feeder or installing the Feed/Nudger/Retard Roll Kit, go to and reset the HFSI counter, Chain-Link: 954-810.*

1. To install, carry out the removal steps in reverse order.

REP 7.13 Tray 2 (3TM)

Parts List on PL 15.2

Removal

WARNING

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

1. Pull out Tray 2.
2. Lift end of tray to disengage lock on rail (not visible) and remove tray.

REP 7.14 Tray 3 (3TM)

Parts List on PL 15.2

Removal

WARNING

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

1. Pull out Tray 3.
2. Lift end of tray to disengage lock on rail (not visible) and remove tray.

REP 7.15 Tray 4 (3TM)

Parts List on PL 15.2

Removal

WARNING

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

1. Pull out Tray 4.
2. Lift end of tray to disengage lock on rail (not visible) and remove tray.

REP 7.16 Tray 2 Feeder (3TM)

Parts List on PL 15.3

Removal

WARNING

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

1. Pull out Tray 2.
2. Open the Left Cover (PL 15.10) and remove the Left Lower Cover (REP 14.12).
3. Remove the Tray 2 Feeder (Figure 1).

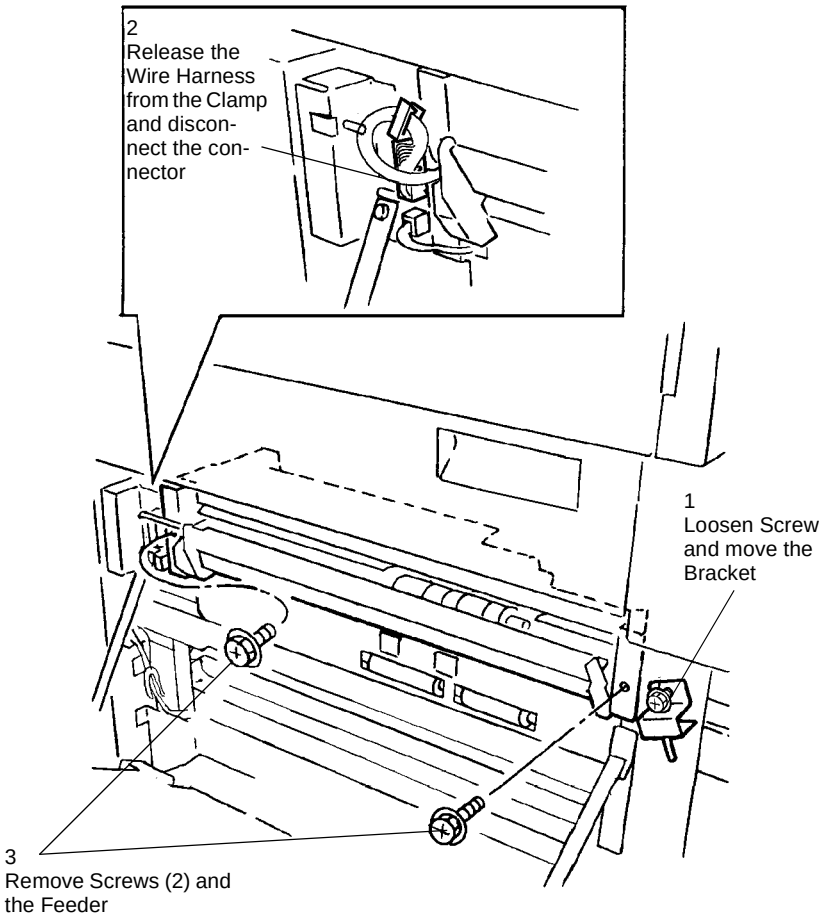

Figure 1 Removing the Tray 2 Feeder

Replacement

NOTE: *If replacing the Tray 2 Feeder or installing the Feed/Nudger/Retard Roll Kit, go to and reset the HFSI counter, Chain-Link: 954-808.*

1. To install, carry out the removal steps in reverse order.

REP 7.17 Tray 3 Feeder (3TM)

Parts List on PL 15.5

Removal

WARNING

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

1. Pull out Tray 3.
2. Open the Left Cover (PL 15.10).
3. Remove the Tray 3 Feeder (Figure 1).

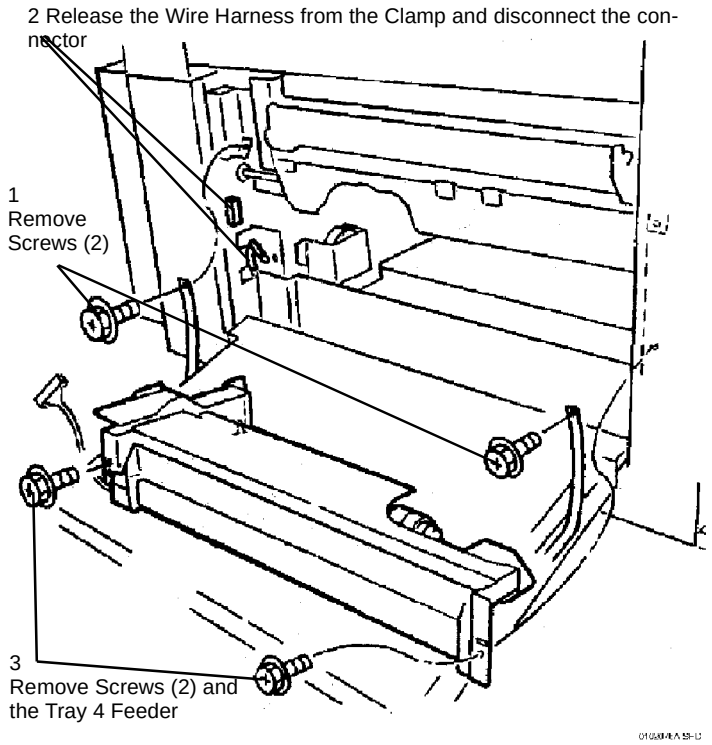

Figure 1 Removing the Tray 3 Feeder

Replacement

NOTE: *If replacing the Tray 1 Feeder or installing the Feed/Nudger/Retard Roll Kit, go to and reset the HFSI counter, Chain-Link: 954-809.*

1. To install, carry out the removal steps in reverse order.

REP 7.18 Tray 4 Feeder (3TM)

Parts List on PL 15.7

Removal

WARNING

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

1. Pull out Tray 4.
2. Open the Left Cover (PL 15.10) and remove the Left Lower Cover (REP 14.12).
3. Remove the Tray 4 Feeder (Figure 1).

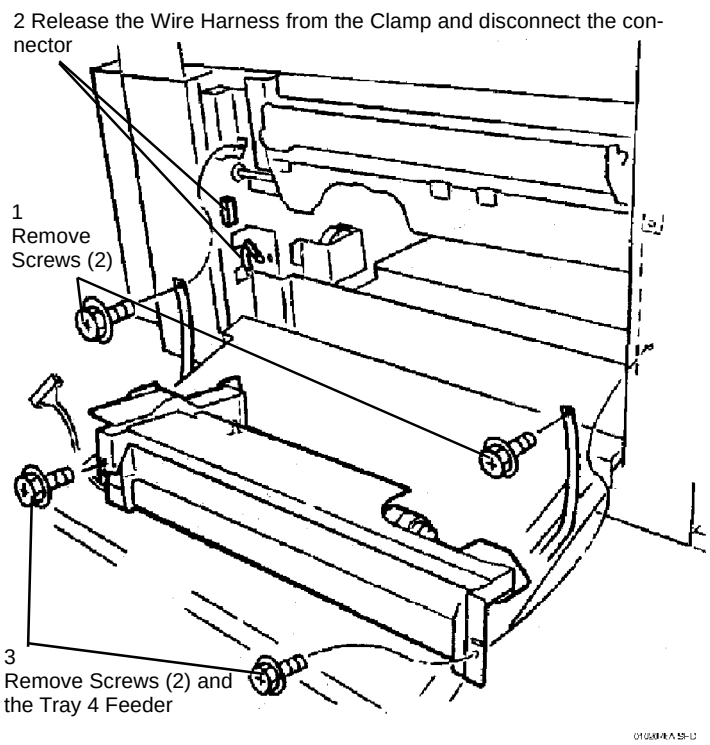

Figure 1 Removing the Tray 4 Feeder

Replacement

NOTE: *If replacing the Tray 1 Feeder or installing the Feed/Nudger/Retard Roll Kit, go to and reset the HFSI counter, Chain-Link: 954-810.*

1. To install, carry out the removal steps in reverse order.

REP 8.1 Left Cover Assembly (IOT)

Parts List on PL 2.7

Removal

WARNING

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

1. Remove the Rear Cover (REP 14.2).
2. Remove the Rear Left Upper Cover (REP 14.5).
3. Remove the Rear Left Middle Cover (REP 14.4).
4. Remove Tray 5 (REP 7.1).
5. Disconnect the Electrical Connectors (3) (Figure 1).

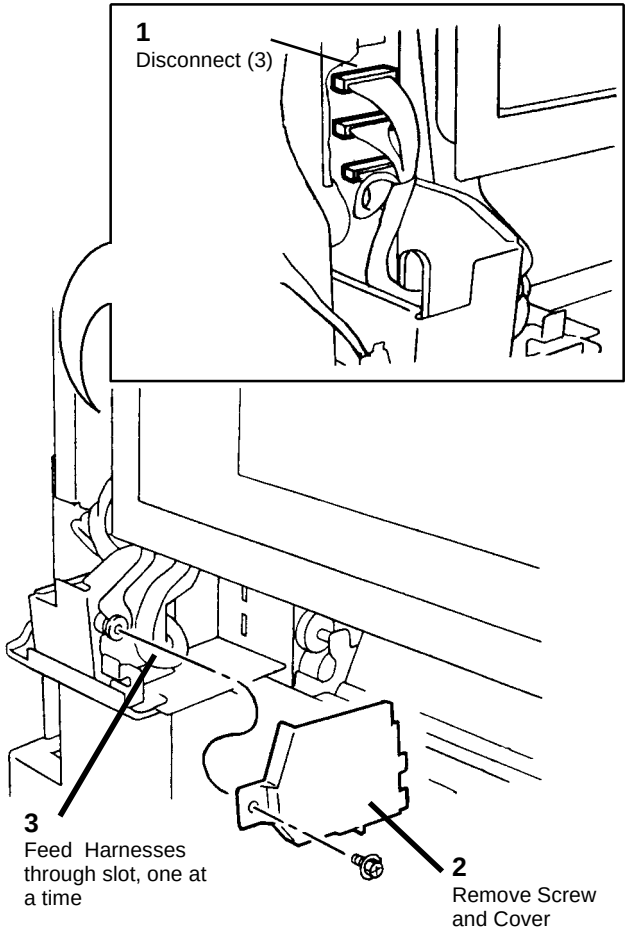

Figure 1 Disconnecting Electrical Connectors (3)

6. Remove the Left Cover Assembly (Figure 2).

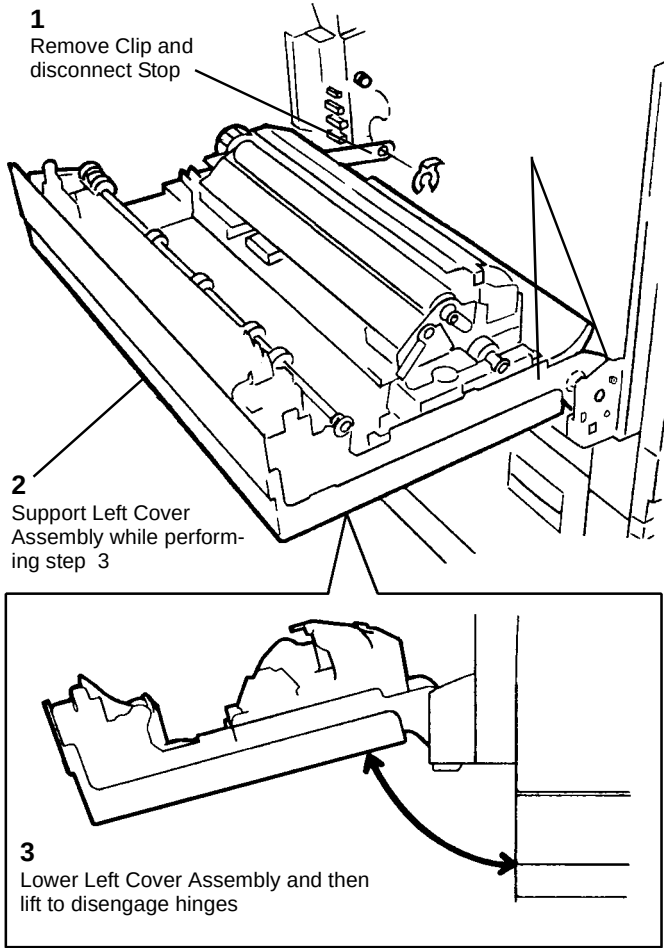

Figure 2 Removing Left Cover Assembly

Replacement

1. Manually align marks on Motion Damper (Figure 3).
2. Install Left Cover Assembly on hinge pins,
3. Tip up transport to engage Motion Damper gears.

CAUTION

Before closing Left Cover Assembly to connect harness, hold up black plastic Duplex Baffle while closing transport.

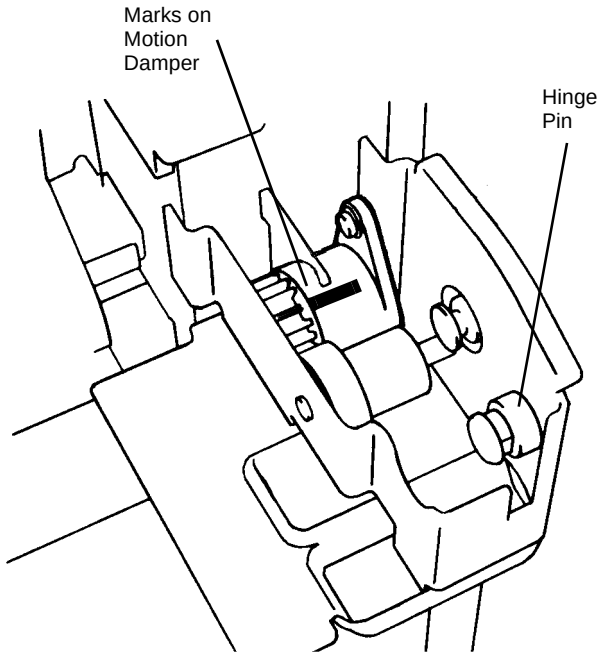

Figure 3 Aligning Marks on Motion Damper

REP 8.2 Duplex Chute

Parts List on PL 2.8

Removal

WARNING

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

1. Remove Rear Cover (REP 14.2).
2. Remove Rear Left Middle Cover (REP 14.4).
3. Close Left Cover Assembly.
4. Remove Tray 5 (REP 7.1).
5. Open and close the Left Cover Assembly to allow the Duplex Chute to swing down.
6. Swing the Duplex Chute back and forth while carefully pushing it toward the rear. The key in the front hinge pin will enter the hinge pin slot and the front hinge pin will disengage from the hinge pin hole. Move the Duplex Chute toward front to disengage the rear hinge pin.

REP 8.3 Duplex Transport Assembly

Parts List on PL 12.1

Removal

WARNING

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

1. Remove Duplex Transport Assembly (Figure 1).
   a. Depress the Clip and remove the Left Upper Cover.
   b. Remove the Screws and remove the Duplex Transport Assembly.

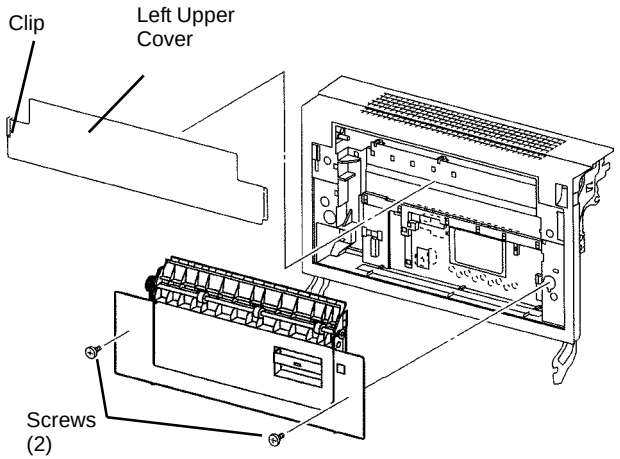

Figure 1 Removing Duplex Transport Assembly

REP 8.5 Inverter Transport Assembly

Parts List on PL 11.1

Removal

WARNING

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

1. Open Left Cover Assembly.
2. Remove the Inverter Transport Assembly (Figure 1).
   a. Remove E-rings (2), Bearings (2), and Transport Shaft.
   b. Remove Screws (2).
   c. Remove Inverter Transport.

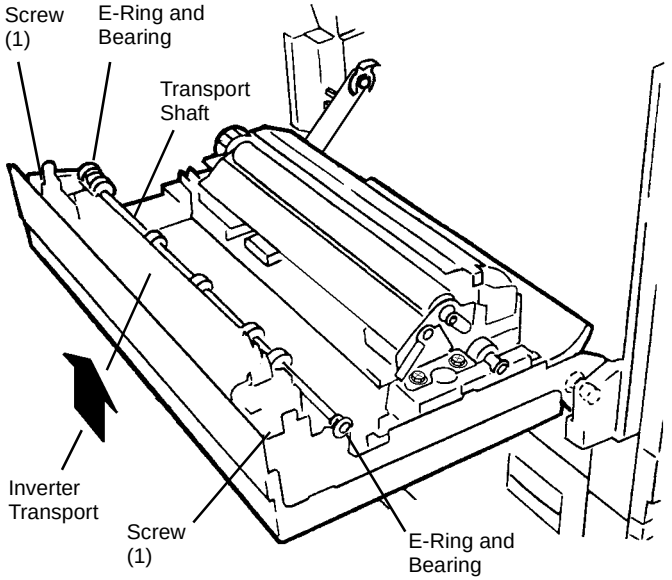

Figure 1 Removing Inverter Transport

REP 8.6 Registration Transport Assembly

Parts List on PL 2.6

Removal

WARNING

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

1. Remove Rear Cover (REP 14.2).
2. Remove Tray 5 (REP 7.1).
3. Remove Left Cover Assembly (REP 8.1).
4. Remove Registration Transport Assembly (Figure 1).
   a. Observe position of harness for later reinstallation.
   b. Remove Screws (2).
   c. Pivot top of Registration Transport out and disconnect Harness.
   d. Lift to remove Registration Transport.

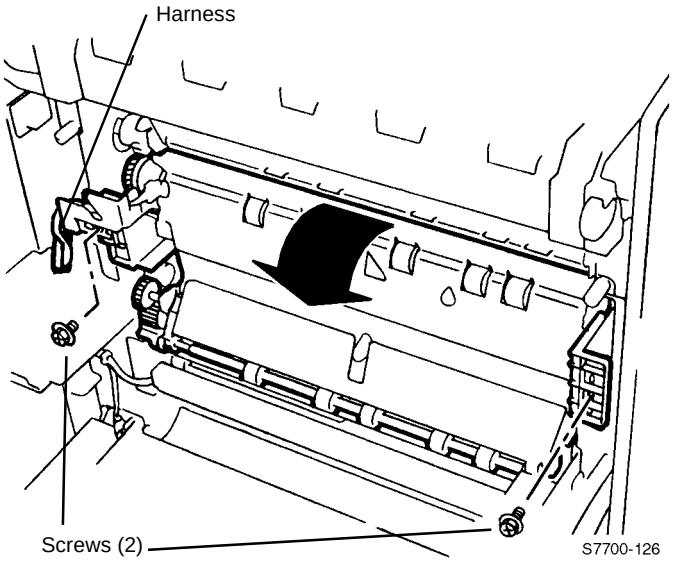

Figure 1 Removing Registration Transport Assembly

Replacement

NOTE: *bearing is equipped with two Anti-rotation Tabs. If one breaks during removal, install bearing so other tab is employed.*

NOTE: *Check that Ground Plate is pressing against bronze bushing after installing it.*

REP 8.7 Exit Transport Assembly

Parts List on PL 2.10

Removal

WARNING

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

1. Open Front Cover.
2. Remove Fuser Cover (REP 14.8).
3. Remove Rear Cover (REP 14.2).
4. Remove Rear Left Upper Cover (REP 14.5).
5. Remove Exit Transport (Figure 1).
   a. Disconnect connectors (2).
   b. Remove Screws (3).
   c. Rotate Exit Transport slightly to disengage Tab and then lift to remove Exit Transport.

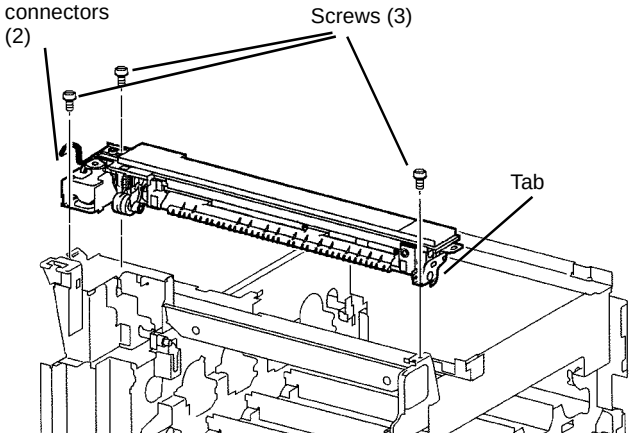

Figure 1 Removing Exit Transport

REP 9.1 Drum Cartridge

Parts List on PL 4.1

Removal

WARNING

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

1. Remove Drum Cartridge.
   a. Open Left Cover Assembly.
   b. Open Front Cover.
   c. Actuate orange release and pull out Drum Cartridge.

CAUTION

Drum Cartridge photoreceptor damage is likely if Drum Cartridge is handled carelessly. This results in image quality defects. Use caution when Drum Cartridge is removed from machine.

   d. Place Drum Cartridge in a black bag.

Replacement

CAUTION

Image Quality defects occur if a Drum Cartridge is not pushed all the way in before the IBT Cam Lever is moved to operating position. The IBT assembly is prevented from moving fully into operating position.

REP 9.2 ROS Shutter Motor

Parts List on PL 8.1

Removal

WARNING

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

1. Remove Registration Transport Assembly (REP 8.6).
2. Lower the Xerographic Lever.
3. Remove ROS Shutter Motor (Figure 1).

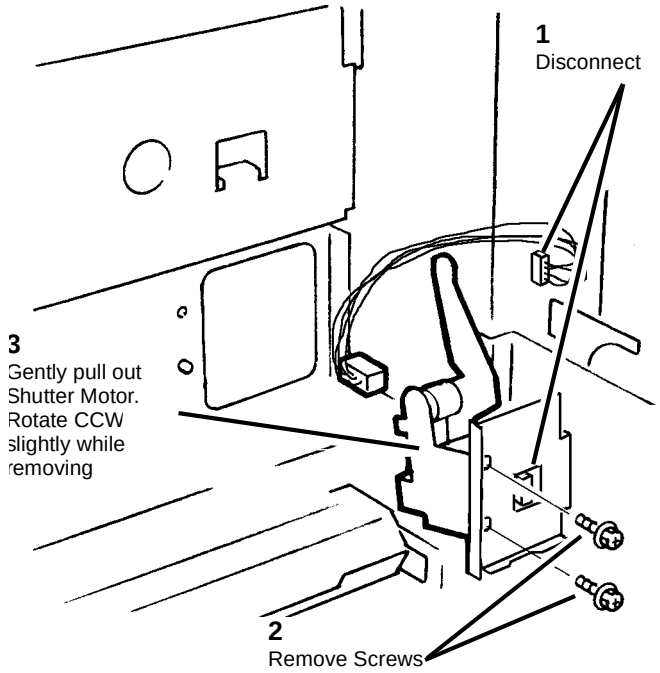

Figure 1 Removing Shutter Motor

Replacement

Ensure that the actuator arm is in the home position; nearly vertical, metal catch is snapped in place.

REP 9.3 Waste Toner Cartridge Cover

Parts List on PL 4.1

Removal

WARNING

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

1. Open Front Cover.
2. Remove Waste Toner Cartridge Cover (Figure 1).
   a. Open Waste Toner Cartridge Cover.
   b. Remove Screw.
   c. Remove the Waste Toner Cartridge Cover.

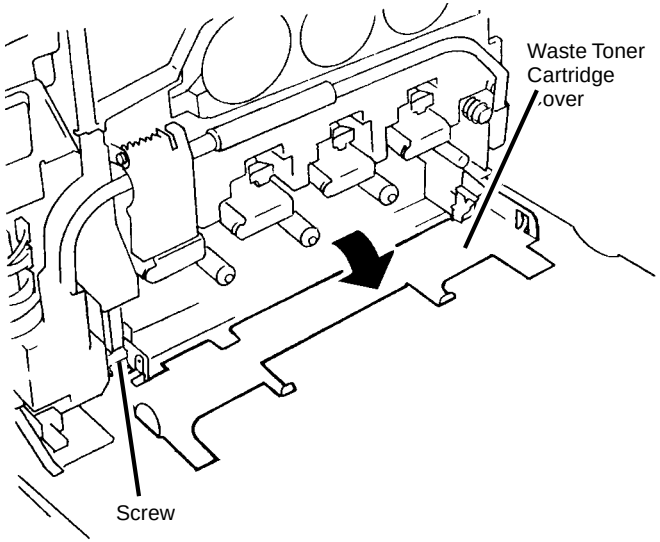

Figure 1 Removing Waste Toner Cartridge Cover

Replacement

1. To install, carry out the removal steps in reverse order.

REP 9.4 Waste Toner Cartridge

Parts List on PL 4.1

Removal

WARNING

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

1. Open Front Cover.
2. Remove the Waste Toner Cartridge (Figure 1).
   a. Open the Waste Toner Cartridge Cover.
   b. Release the Lever and move it half way down.
   c. Pull out to remove the Waste Toner Cartridge.

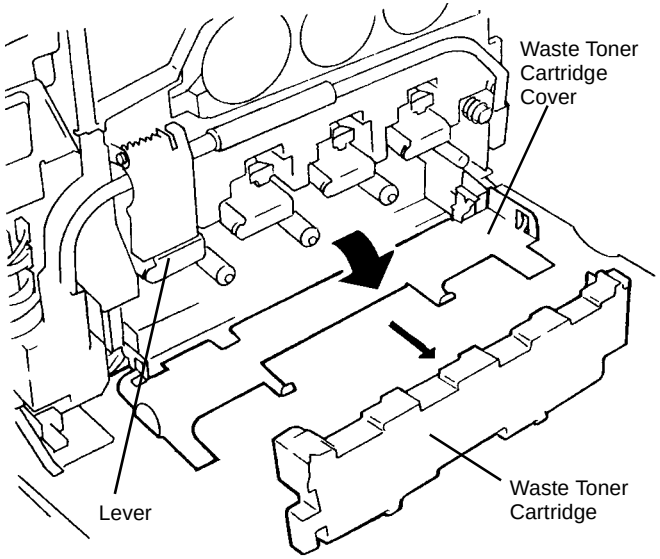

Figure 1 Removing Waste Toner Cartridge

Replacement

1. To install, carry out the removal steps in reverse order.

REP 9.5 Full Toner Sensor

Parts List on PL 4.1

Removal

WARNING

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

1. Remove Front Cover Assembly (REP 14.7).
2. Remove Waste Toner Cartridge (REP 9.4).
3. Remove Waste Toner Cartridge Cover (REP 9.3).
4. Access Full Toner Sensor (Figure 1).
   a. Lift Left End slightly and pull left to disengage right-side Mounting Tabs.
   b. Rotate Sensor Holder and remove. Left End harness connection limits movement.

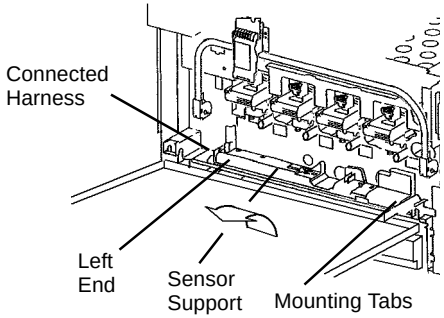

Figure 1 Accessing Waste Cartridge Full Sensor

5. Remove Full Toner Sensor (Figure 2).
   a. Push against Sensor Head while releasing Locking Tabs.
   b. Disconnect sensor from harness.

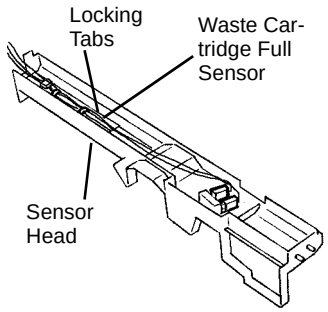

Figure 2 Removing Waste Cartridge Full Sensor

Replacement

1. To install, carry out the removal steps in reverse order.

REP 9.6 Inner Cover

Parts List on PL 10.2

Removal

WARNING

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

1. Open Front Cover.
2. Open Left Cover Assembly.
3. Remove Y, M, C, K, Drum (REP 9.1).
4. Remove Fuser Cover (REP 14.8).
5. Release and move Xerographic Release Lever half way down.
6. Remove Inner Cover (Figure 1).
   a. Remove Screws (4).
   b. Remove Dispenser Assembly Cover.

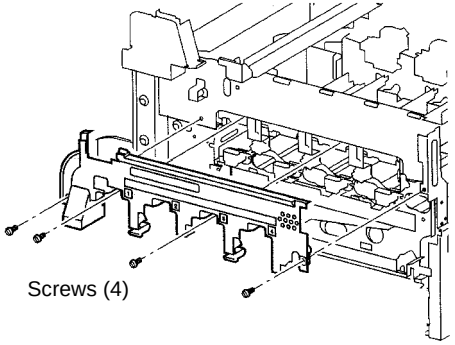

Figure 1 Removing Dispenser Cover

Replacement

1. To install, carry out the removal steps in reverse order.

REP 9.7 Dispenser Assembly

Parts List on PL 6.1

Removal

WARNING

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

1. Open Front Cover.
2. Remove Fuser Cover (REP 14.8).
3. Release and move Xerographic Release Lever half way down.
4. Remove Inner Cover (REP 9.6).
5. Remove Drum Cartridges as required (REP 9.1).

CAUTION

Y must be removed first, followed in order by M, C, then K. They must be reinstalled in reverse order of removal, which is install K, C, M, and then Y.

6. Prepare to remove Toner Transport (Figure 1).
   a. Carefully pull out Toner Outlet Door while holding Housing back to shut off toner outlet.

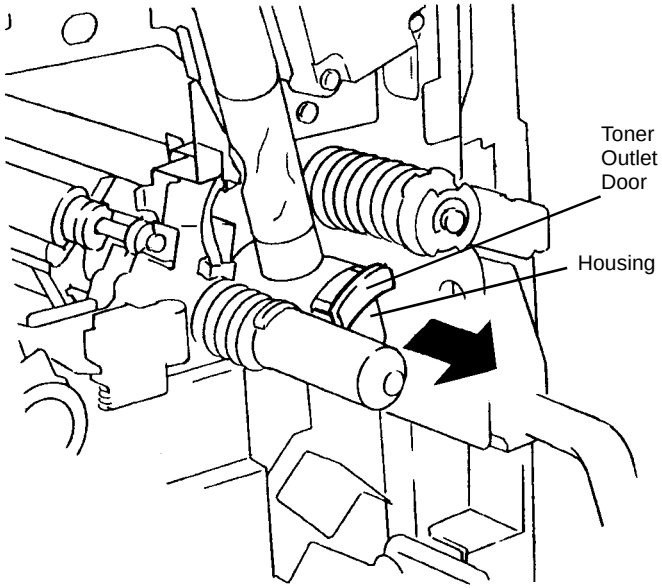

Figure 1 Closing Toner Outlet

7. Remove Toner Transport (Figure 2).
   a. Remove Screw,

CAUTION

Connection Tube may separate from upper or lower housing.

Agitator may disconnect if flex coupling is compressed enough so agitator hits inside bottom of lower housing

   b. Pull out Upper and Lower Housings together while ensuring flexible Connection Tube remains connected.

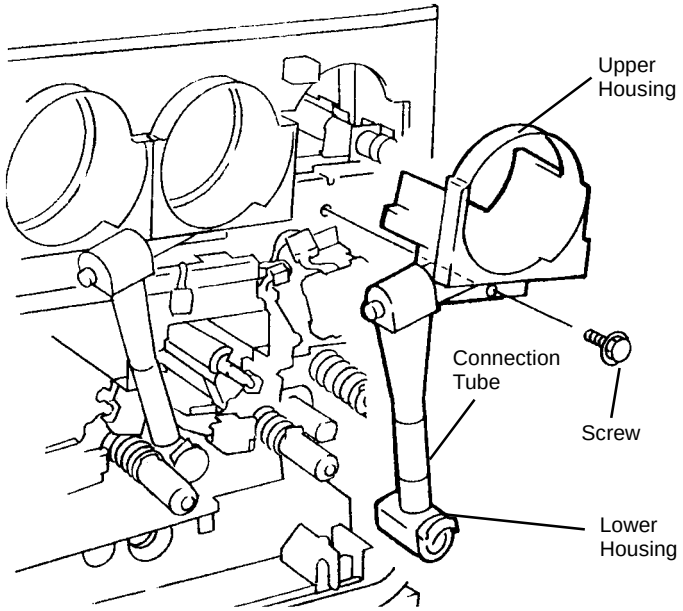

Figure 2 Removing Toner Transport

Replacement

1. To install, carry out the removal steps in reverse order.

REP 9.8 Plate Assembly

Parts List on PL 4.2

Removal

WARNING

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

1. Remove Front Cover Assembly (REP 14.7).
2. Remove Drum Cartridges (REP 9.1).
3. Remove Waste Toner Cartridge (REP 9.4).
4. Remove Waste Toner Cartridge Cover (REP 9.3).
5. Remove Fuser Cover (REP 14.8).
6. Release and move Xerographic Release Lever half way down.
7. Remove Inner Cover (REP 9.6).
8. Remove all Dispenser Assemblies (REP 9.7).

CAUTION

Note position of harnesses. Correct harness routing is required for assembly.

NOTE: *In next step, do not remove sensor.*

9. Remove housing for Full Toner Sensor (REP 9.5).
10. Disconnect Developer Housing Plugs, 4 large and 4 small (small not shown).

    Position wires straight out from machine. Wires remain stationary while removing Plate Assembly (Figure 1).

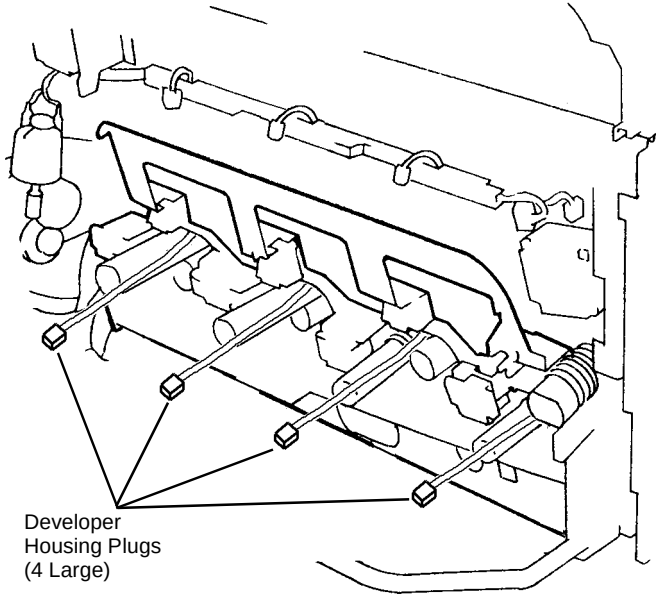

Figure 1 Disconnecting Developer Housing Plugs

11. Disconnect Developer Housing Harnesses (Figure 2).
    a. Open Harness Clip and remove harness from Clip.
    b. Disconnect Harness P/J's (3).
    c. Remove Screw from Inner Left Harness Cover and remove cover.
    d. Remove Developer Housing Harnesses from additional harness clips (not shown, under Harness Cover).

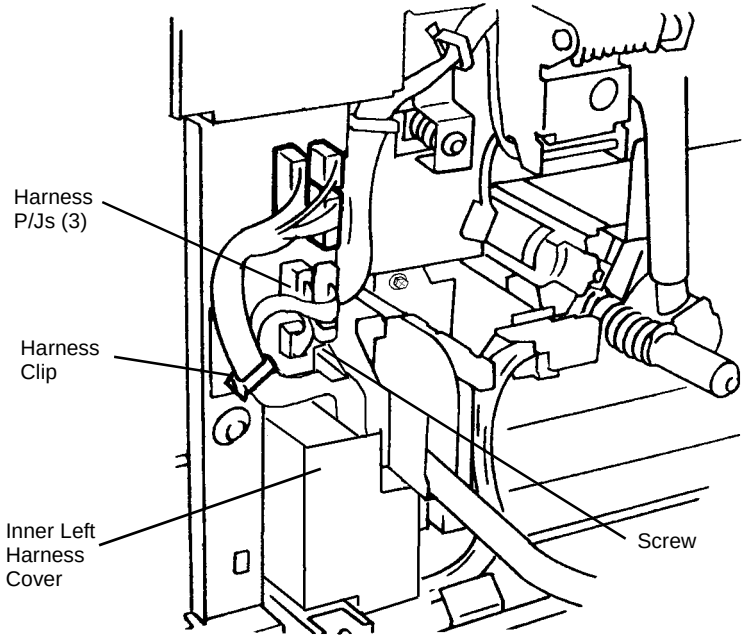

Figure 2 Disconnecting Developer Harnesses

12. Remove Plate Assembly (Figure 3).
    a. Remove Screws (6).
    b. Pull Plate Assembly toward front to remove it. Ensure harnesses are cared for.

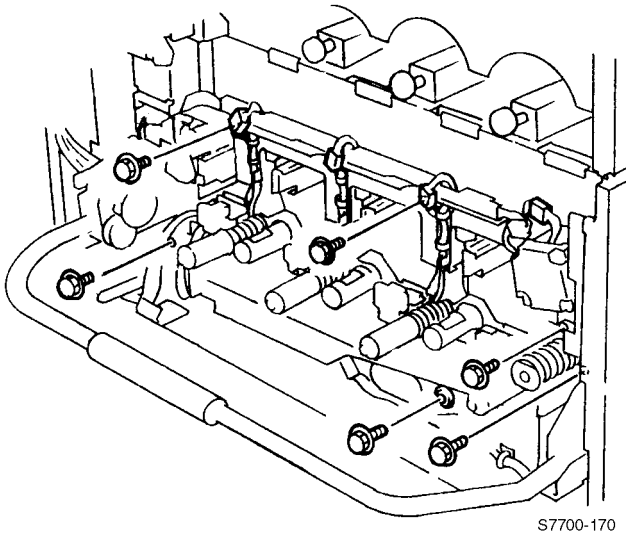

Figure 3 Removing Plate Assembly

Replacement

1. To install, carry out the removal steps in reverse order.

REP 9.9 Developer Housing

Parts List on PL 6.2

Removal

WARNING

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

1. Remove Front Cover Assembly (REP 14.7).
2. Remove Drum Cartridges (REP 9.1).
3. Remove Waste Toner Cartridge (REP 9.4).
4. Remove Waste Toner Cartridge Cover (REP 9.3).
5. Remove Fuser Cover (REP 14.8).
6. Move Xerographic Release Lever up to a mid position.
7. Remove Inner Cover (REP 9.6).
8. Remove all Dispenser Assemblies (REP 9.7).

NOTE: *In next step, do not remove sensor.*

9. Remove housing for Full Toner Sensor (REP 9.5).

NOTE: *In next step, it may not be necessary to disconnect harnesses for Plate Assembly (PL 4.2) to remove a developer housing.*

10. Remove Plate Assembly (REP 9.8).

CAUTION

Transfer Belt damage results when Developer Housing is removed carelessly.

11. Remove Developer Housing (Figure 1).

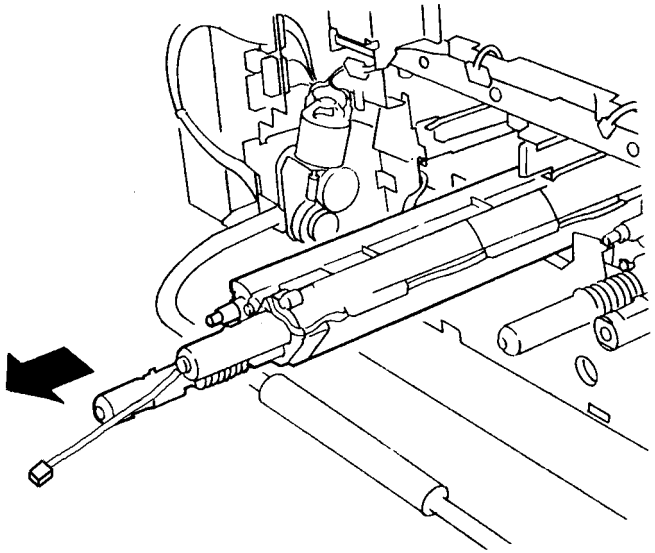

Figure 1 Removing Developer Housing

Replacement

NOTE: *If installing a new Developer Housing, go to step 1. If reinstalling existing developer housing, go to 5.*

1. Install new Developer (REP 9.10) as required.
2. Remove ATC Sensor Setup Data Tag from new Developer Housing. On tag, highlight K, C, M, or Y as required for color of developer housing. Tag will be installed during machine reassembly.

CAUTION

Image quality defects occur when ATC Sensor Data is mishandled in dC921.

3. During machine assembly, install ATC Sensor Setup Data Tag as shown (Figure 2).

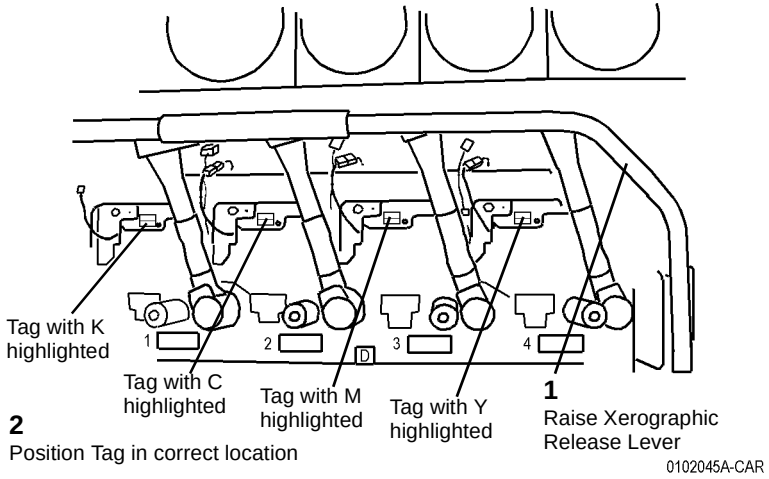

Figure 2 Installing ATC Sensor Setup Data Tag

4. Perform dC921 ATC Sensor Setup (ADJ 9.2).
5. While reinstalling Developer Housing ensure pin at rear of Developer Housing engages hole in rear frame of machine.

REP 9.10 Developer

Parts List on PL 6.2

Removal

WARNING

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

1. Remove Front Cover Assembly (REP 14.7).
2. Remove Drum Cartridges (REP 9.1).
3. Remove Waste Toner Cartridge (REP 9.4).
4. Remove Waste Toner Cartridge Cover (REP 9.3).
5. Remove Fuser Cover (REP 14.8).
6. Release and move Xerographic Release Lever half way down.
7. Remove Inner Cover (REP 9.6).
8. Remove all Dispenser Assemblies (REP 9.7).

NOTE: *In next step, do not remove sensor.*

9. Remove housing for Full Toner Sensor (REP 9.5).

NOTE: *In next step, it may not be necessary to disconnect harnesses for Plate Assembly (PL 4.2) to remove a developer housing.*

10. Remove Plate Assembly (REP 9.8).
11. Remove Developer Housing (REP 9.9).
12. Remove Developer. (Figure 1).
    a. Carefully observe position of wiring harness for later reinstallation.

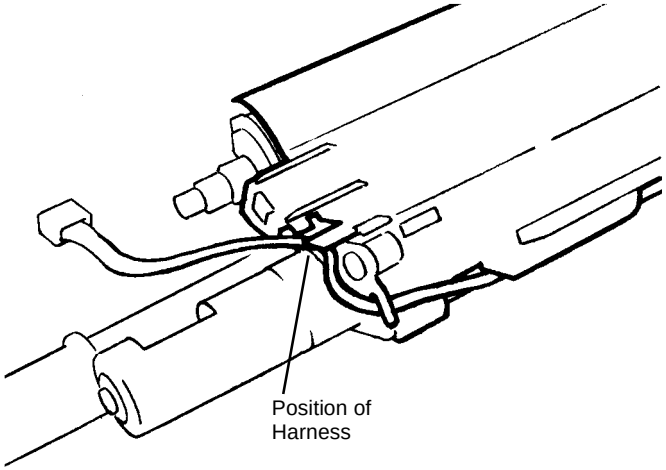

Figure 1 Observing position of Harness

b. Remove Housing Cover (Figure 2).

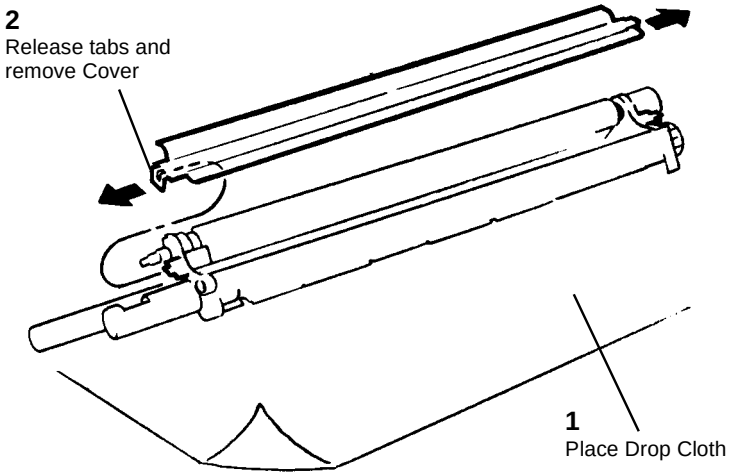

Figure 2 Removing Housing Cover

c. Rotate Drive Gear to remove Developer (Figure 3).

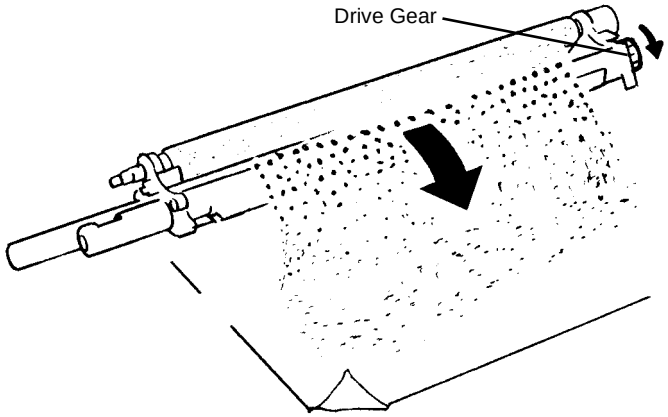

Figure 3 Removing Developer

Replacement

1. Rotate Drive Gear while installing new Developer (Figure 4).

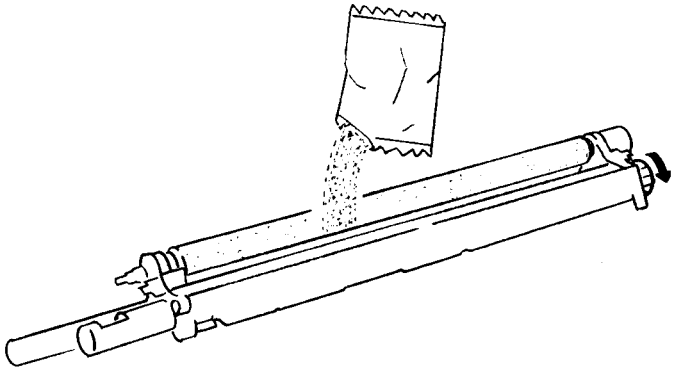

Figure 4 Installing Developer

2. Install Developer Housing.
   a. Ensure pin at rear of Developer Housing engages hole in rear frame of machine.
   b. Reassemble machine.
3. Enter Diagnostics, select **NVM Read / Write**, and reset the Developer Count for each Developer changed using the NVM locations and values listed in Table 1.

Table 1 Developer Count reset

Color / NVM location	Set to value
Yellow (Y) / 752-804	0
Magenta (M) / 752-805	0
Cyan (C) / 752-806	0
Black (K) / 752-807	0

4. When replacing a Developer Housing, clear the corresponding HFSI Counter using the Chain:Link settings in Table 2.

Table 2 HFSI reset

Color	Chain-Link
Yellow (Y)	954-814
Magenta (M)	954-813
Cyan (C)	954-812
Black (K)	954-811

5. Perform ATC Sensor Setup (ADJ 9.2).

REP 9.11 Toner Dispenser Base Assembly

Parts List on PL 6.1

Removal

WARNING

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

1. Open Front Cover.
2. Remove Drum Cartridges (REP 9.1).
3. Remove Fuser Cover (REP 14.8).
4. Release and move Xerographic Release Lever half way down.
5. Remove Inner Cover (REP 9.6).
6. Remove all Dispenser Assemblies (REP 9.7).
7. Remove Top Cover Assembly (REP 14.1).
8. Remove Right Cover (REP 14.3).
9. Remove Toner Dispense Module (Figure 1).
   a. Remove Screws (2).
   b. Carefully observe position of wiring harness for later reinstallation
   c. Disconnect motor connectors (4).
   d. Lift to remove Toner Dispense Module.

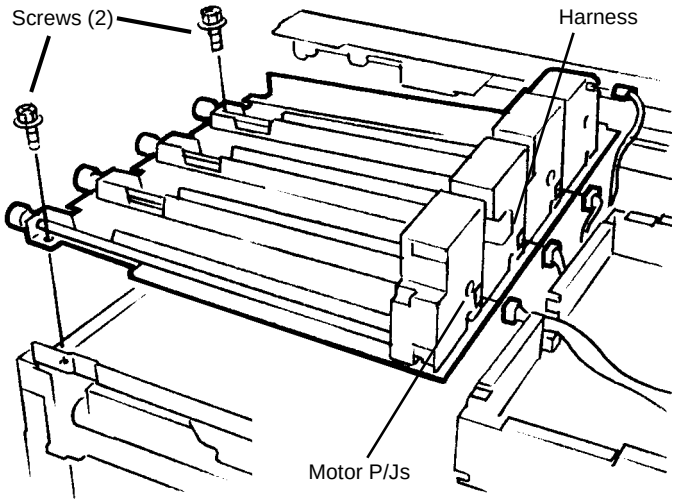

Figure 1 Removing Toner Dispense Module

Replacement

1. To install, carry out the removal steps in reverse order.

REP 9.12 IBT Steering Motor

Parts List on PL 1.3

Removal

WARNING

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

1. Open Front Cover.
2. Remove Fuser Cover (REP 14.8).
3. Release and move Xerographic Release Lever half way down.
4. Remove Inner Cover (REP 9.6).
5. Remove IBT Steering Motor (Figure 1).
   a. Disconnect Motor P/J.
   b. Remove Screws (3).
   c. Pull out to remove using care to avoid damage to steering gear.

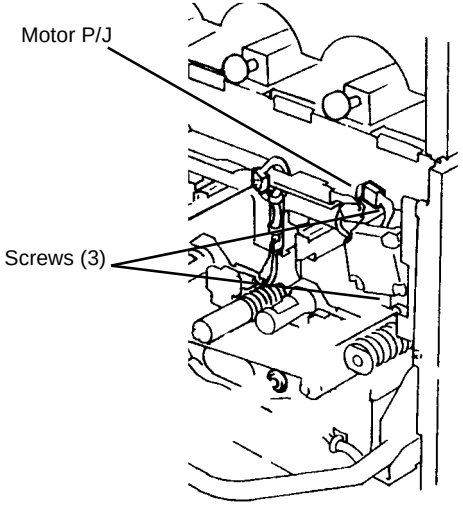

Figure 1 Removing Steering Drive Motor

Replacement

1. To install, carry out the removal steps in reverse order.

REP 9.13 Agitator Motor Assembly

Parts List on PL 4.1

Removal

WARNING

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

1. Open Front Cover.
2. Remove Waste Toner Cartridge (REP 9.4).
3. Remove Fuser Cover (REP 14.8).
4. Release and move Xerographic Release Lever half way down.
5. Remove Inner Cover (REP 9.6).
6. Remove Waste Toner Agitator (Figure 1).
   a. Disconnect P/J.
   b. Remove Screws (2) and remove Waste Toner Agitator.

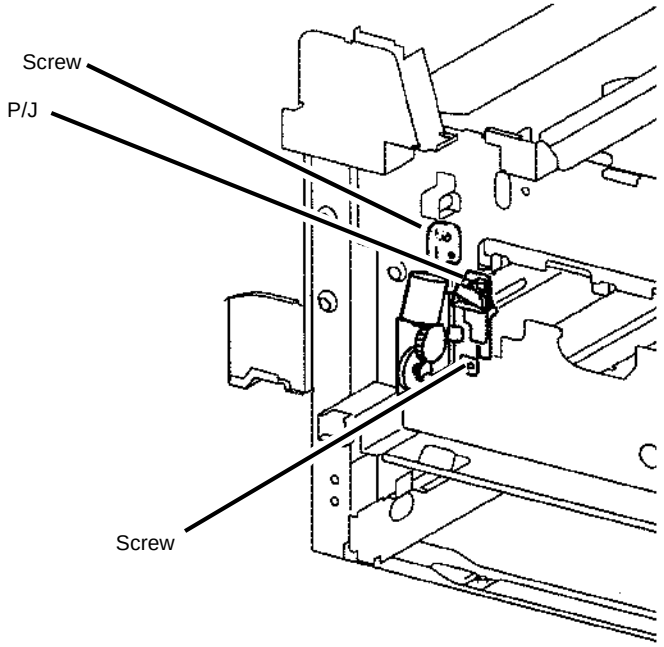

Figure 1 Removing Waste Toner Agitator

Replacement

1. To install, carry out the removal steps in reverse order.

REP 9.14 MOB Sensor Assembly

Parts List on PL 1.3

Removal

WARNING

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

1. Open Front Cover.
2. Remove Waste Toner Cartridge (REP 9.4).
3. Remove Fuser Cover (REP 14.8).
4. Release and move Xerographic Release Lever half way down.
5. Remove Inner Cover (REP 9.6).
6. Remove Waste Toner Agitator (REP 9.13).
7. Remove MOB Sensor Assembly (Figure 1).
   a. Open Harness Clip and remove harness from Clip.
   b. Remove Screw and remove Inner Left Harness Cover.
   c. Disconnect Harness P/J's (3)
   d. Remove MOB Sensor Assembly Harnesses (violet) from additional harness clips (not shown).
   e. Remove MOB Sensor Assembly Screw and pull out to remove MOB Sensor Assembly. Xerographic Release Lever must be down as shown.

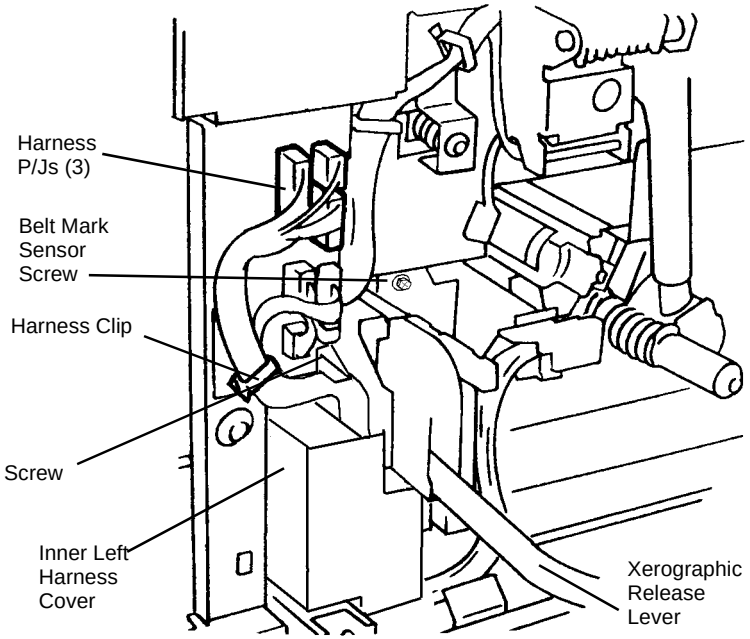

Figure 1 Removing MOB Sensor Assembly

Replacement

1. To install, carry out the removal steps in reverse order.

REP 9.15 IBT Belt Assembly

Parts List on PL 5.3

Removal

WARNING

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

1. Open Front Cover.
2. Release and move Xerographic Release Lever down.
3. Open Right Side Door.
4. Remove IBT Belt Assembly (Figure 1).
   a. Lift to release Slide Lock.
   b. Pull out IBT Unit to remove it. Use Handle to transport IBT Unit.
   c. Protect IBT Belt Assembly from direct light.

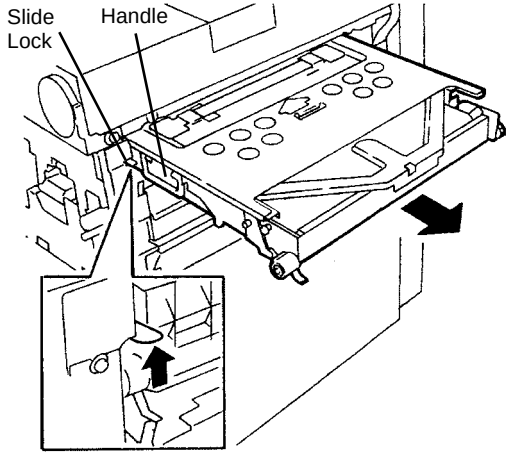

Figure 1 Removing IBT Belt Assembly

Replacement

1. To install, carry out the removal steps in reverse order.

REP 9.16 IBT Cleaner Assembly

Parts List on PL 5.3

Removal

WARNING

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

1. Open Front Cover.
2. Release and move Xerographic Release Lever down.
3. Open the Right Cover Door (refer to REP 14.3).
4. Remove IBT Belt Assembly just enough to access Belt Cleaner (refer to REP 9.15).

CAUTION

In next step, toner may spill out of Belt Cleaner if cleaner is handled carelessly.

5. Remove Screws and remove Belt Cleaner (Figure 1).

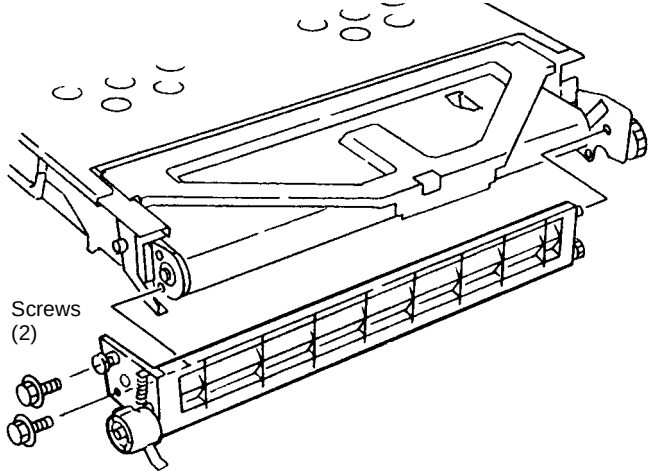

Figure 1 Removing IBT Cleaner Assembly

Replacement

1. Ensure both rear locating pins engage holes in IBT Belt Assembly frame during installation of IBT Cleaner Assembly.
2. When installing a new IBT Cleaner Assembly, enter Diag. mode and clear the [HFSI] counter.

   Chain Link: 954-803

REP 9.17 Auger Assembly

Parts List on PL 5.2

Removal

WARNING

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

1. Open Front Cover.
2. Remove Waste Toner Cartridge (REP 9.4).
3. Release and move Xerographic Release Lever down.
4. Remove Right Cover (REP 14.3).
5. Remove IBT Belt Assembly (REP 9.15).
6. Move Xerographic Release Lever to up position.
7. Remove Waste Toner Agitator (Figure 1).
   a. Remove Screws (2).
   b. Move Waste Auger toward Bearing to disengage Cutout from Bearing.
   c. Remove Waste Auger.

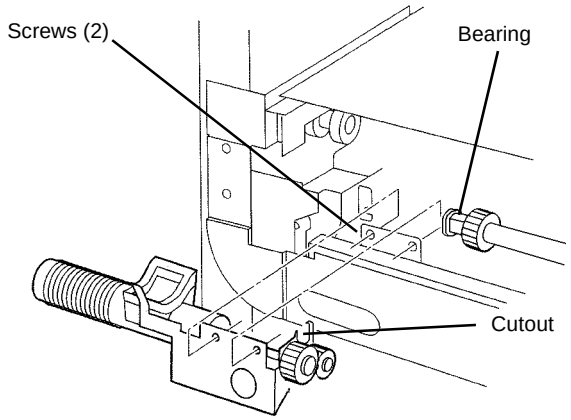

Figure 1 Removing Waste Toner Auger

Replacement

Move Xerographic Release Lever to down position before reinstalling Belt Module.

Ensure alignment marks on release lever gear teeth align with marks on left and right hinges

REP 9.18 IBT Cam Lever

Parts List on PL 5.1

Removal

WARNING

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

1. Open Front Cover.
2. Remove Fuser Cover (REP 14.8).
3. Remove Waste Toner Cartridge (REP 9.4).
4. Remove Waste Toner Cartridge Cover (REP 9.3).
5. Remove Inner Cover (REP 14.10).
6. Remove Drum Cartridges (REP 9.1).
7. Remove Right Cover (REP 14.3).
8. Remove IBT Belt Assembly (REP 9.15).
9. Remove Lever Assembly (Figure 1).

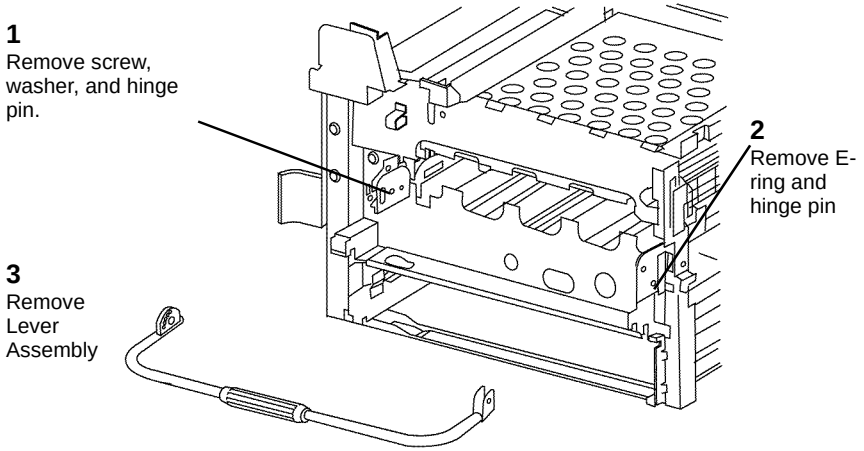

Figure 1 Removing Lever Assembly

Replacement

1. Make sure that the Right and Left Lift Assemblies are fully extended, and that the index marks on both ends of the Lever are aligned with the index marks on the Lift Assemblies (Figure 2).

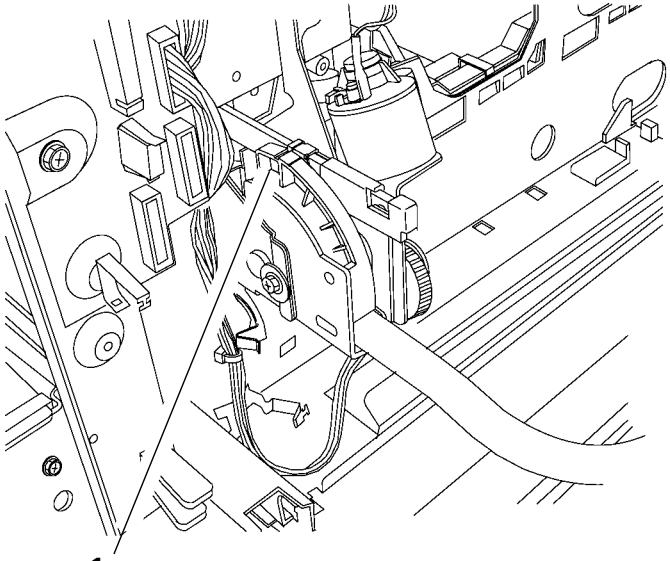

Figure 2 Index Marks

2. Move Lever to down position before reinstalling IBT Belt Assembly.

REP 9.19 Left Hinge/Right Hinge

Parts List on PL 5.1

Removal

WARNING

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

1. Open Front Cover.
2. Remove Fuser Cover (REP 14.8).
3. Remove Waste Toner Cartridge (REP 9.4).
4. Remove Waste Toner Cartridge Cover (REP 9.3).
5. Remove Inner Left Harness Cover (REP 14.10).
6. Release and move Xerographic Release Lever down.
7. Remove Drum Cartridges (REP 9.1).
8. Remove Right Cover (REP 14.3).
9. Remove IBT Belt Assembly (REP 9.15).
10. Remove Xerographic Release Lever (REP 9.18).
11. Remove Xerographic Release Lever Brackets (Figure 1).
    a. Remove Screws (2) and remove Bracket.
    b. Remove Screw (1) and remove Bracket.

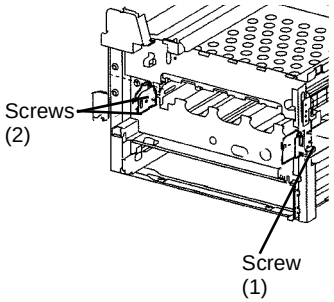

Figure 1 Removing Xerographic Release Lever

Replacement

Move Xerographic Release Lever to down position before reinstalling Belt Module.

Ensure alignment marks on release lever gear teeth align with marks on left and right hinges

REP 9.20 Right Lift Assembly

Parts List on PL 5.1

Removal

WARNING

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

1. Open Front Cover.
2. Remove Fuser Cover (REP 14.8).
3. Remove Waste Toner Cartridge (REP 9.4).
4. Remove Waste Toner Cartridge Cover (REP 9.3).
5. Remove Inner Left Harness Cover (REP 14.10).
6. Release and move Xerographic Release Lever down.
7. Remove Drum Cartridges (REP 9.1).
8. Remove Right Cover (REP 14.3).
9. Remove IBT Belt Assembly (REP 9.15).
10. Remove Xerographic Release Lever (REP 9.18).
11. Remove Lift Bracket (Figure 1).
    a. Remove E-Rings (2) and Washers (2).
    b. Remove Screws (4) and remove Lift Bracket.
    c. Remove Bearings (2) and Washers (2).

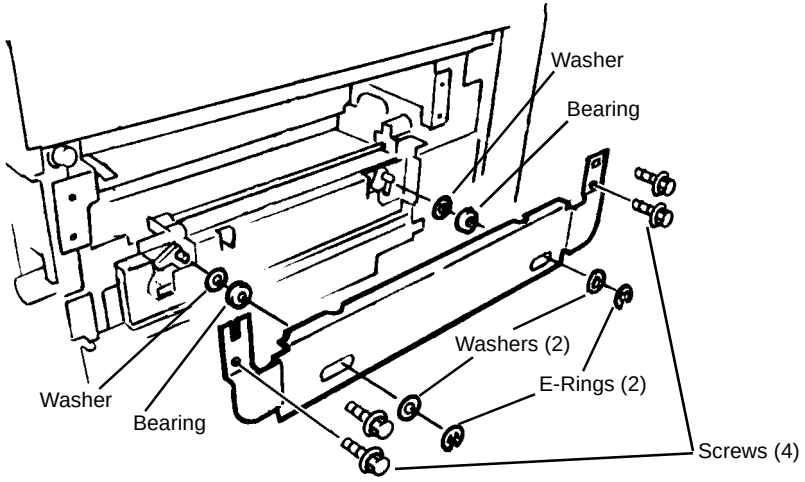

Figure 1 Removing Lift Bracket

12. Remove Right Xerographic Lift (Figure 2).
    a. Remove Auger Mounting Screws (2).
    b. Remove Lift Position Screw.
    c. Remove Secondary Position Screw.
    d. Remove Lower Screws (2).
    e. Remove Right Xerographic Lift.

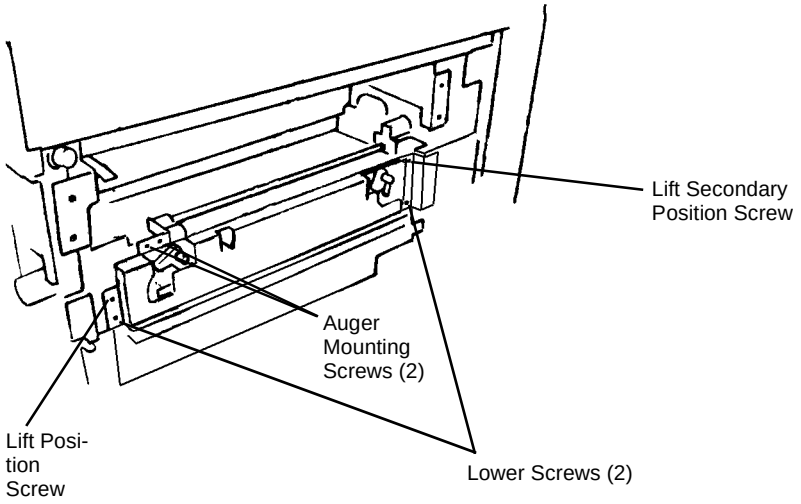

Figure 2 Removing Right Xerographic Lift

Replacement

Move Xerographic Release Lever to down position before reinstalling Belt Module.

Ensure alignment marks on release lever gear teeth align with marks on left and right hinges

REP 9.21 Left Lift Assembly

Parts List on PL 5.1

Removal

WARNING

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

1. Open Front Cover.
2. Remove Fuser Cover (REP 14.8).
3. Remove Waste Toner Cartridge (REP 9.4).
4. Remove Waste Toner Cartridge Cover (REP 9.3).
5. Remove Inner Left Harness Cover (REP 14.10).
6. Release and move Xerographic Release Lever down.
7. Remove Drum Cartridges (REP 9.1).
8. Remove Right Cover (REP 14.3).
9. Remove IBT Belt Assembly (REP 9.15).
10. Remove Xerographic Release Lever (REP 9.18).
11. Remove Rear Cover (REP 14.2).
12. Remove Left Lower Cover Assembly (REP 14.6).
13. Remove Rear Left Middle Cover (REP 14.4).
14. Close Left Cover Assembly.
15. Remove Tray 5 (MSI) (REP 7.1).
16. Remove Left Cover Assembly (REP 8.1).
17. Optional for improved visibility: Remove Fuser Module (REP 10.1).
18. Remove Registration Transport Assembly (REP 8.6).
19. Remove Inner Cover (REP 9.6).
20. Remove Waste Toner Agitator (REP 9.13).
21. Remove MOB Sensor Assembly (REP 9.14).
22. Remove Left Xerographic Release Lever Bracket (REP 9.19).
23. Remove Front Cover Assembly (REP 14.7).
24. Remove K and C Toner Cartridges.
25. Remove K and C Dispenser Assemblies (REP 9.7).

NOTE: *In next step, do not remove sensor from housing*

26. Remove housing for Full Toner Sensor (REP 9.5).

NOTE: *In next step, it may not be necessary to disconnect harnesses for Plate Assembly (PL 4.2) to remove a developer housing.*

27. Remove Plate Assembly (REP 9.8).
28. Remove K and C Developer Housings (REP 9.9).
29. Remove Left Xerographic Lift (Figure 1).

NOTE: *In next step, use a magnet to capture E-Ring and Washer while removing them.*

a. From inside Developer Housing cavity, remove E-Ring and Washer from each end of Left Xerographic Lift.

b. Remove Screws (4).

c. Remove Left Xerographic Lift and maintain orientation to ensure Bearings (2) and Washers (2) do not fall off posts.

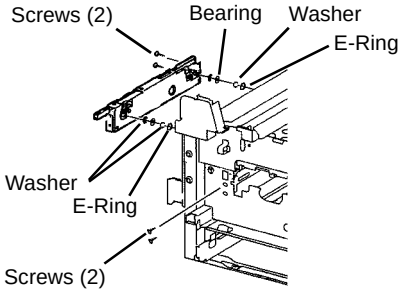

Figure 1 Removing Left Xerographic Lift

Replacement

1. Install Lift.
   a. Position Lift in frame.
   b. Raise or lower xerographic frame as required and push in or pull out Lift actuator as required to engage lift bearings with slots in xerographic frame.
   c. Install front top screw, then front bottom screw, then rear screws (2).
   d. Install washers (2) and e-rings (2).
2. Assemble remaining machine components.

REP 9.22 Transfer Belt

Parts List on PL 5.3

Removal

WARNING

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

CAUTION

Cover Transfer Belt in a black bag.

NOTE: *Keep your hand off Transfer Belt.*

1. Remove IBT Belt Assembly (REP 9.15).
2. Remove IBT Cleaner Assembly (REP 9.16).
3. Remove Stand Plate (Figure 1).
   a. Remove Screw (2).
   b. Remove Stand Plate in direction of arrow. Stand Plate will be installed in new location in step 7.

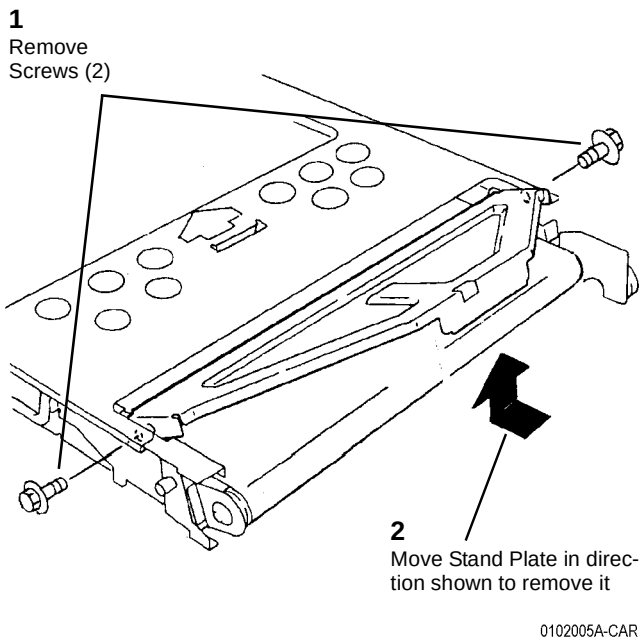

Figure 1 Removing Stand Plate

4. Remove Handle (Figure 2).

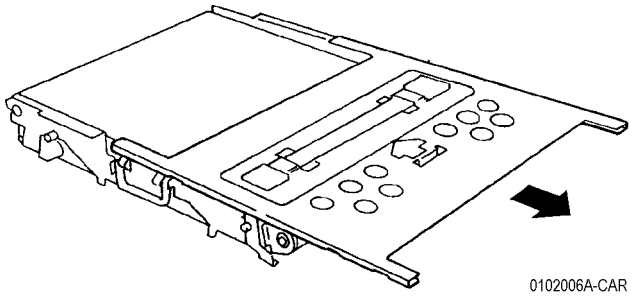

Figure 2 Removing Handle

5. Remove screws on both sides (Figure 3).

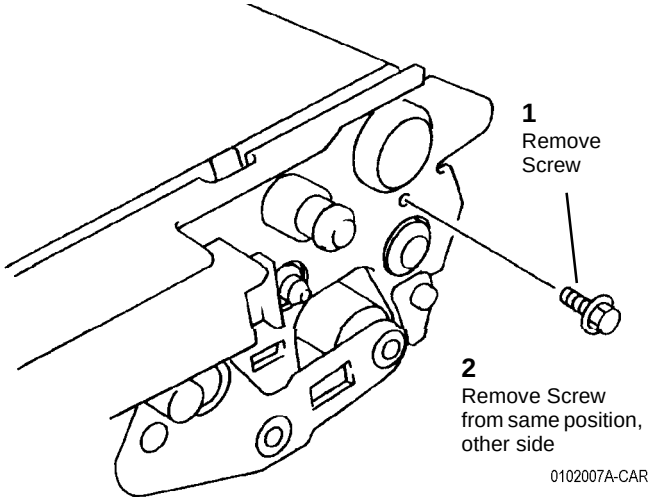

Figure 3 Removing Screws (both sides)

6. Position Support (Figure 4)

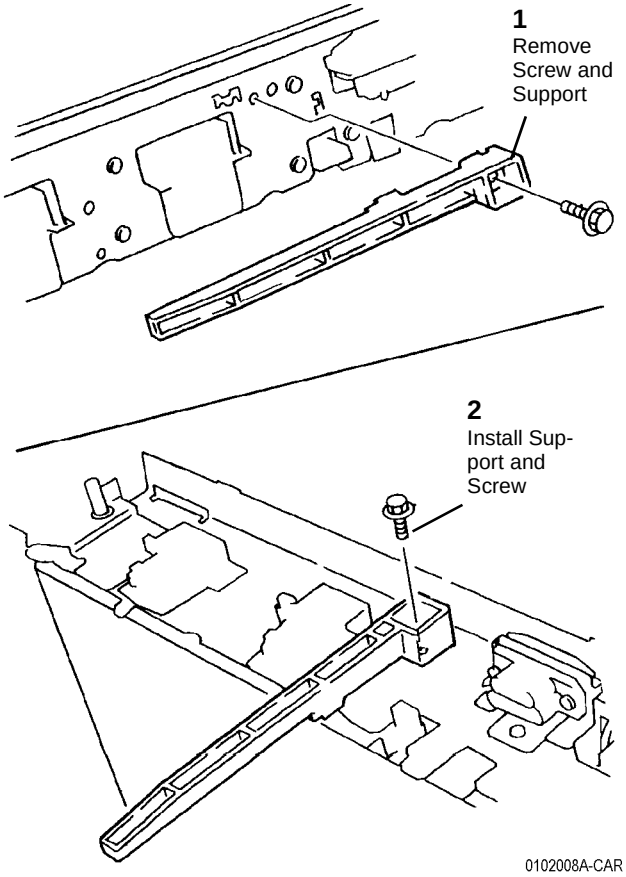

Figure 4 Positioning Latch

7. Install Stand Plate (Figure 5).

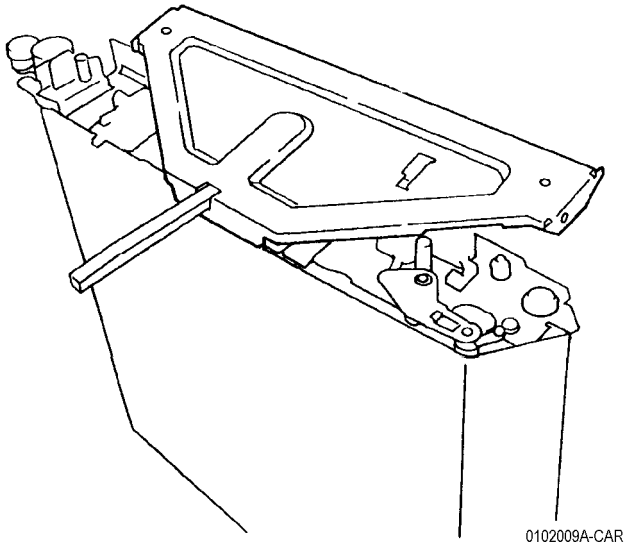

Figure 5 Installing Stand Plate

8. Place Stand Plate below and stand IBT Belt Assembly.
9. Relax tension of Belt on both sides (Figure 6).

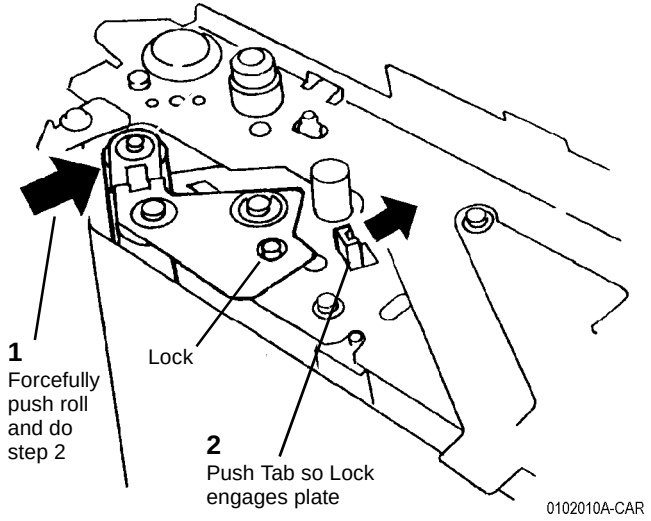

Figure 6 Relaxing Belt Tension

10. Remove Brackets (Figure 7).

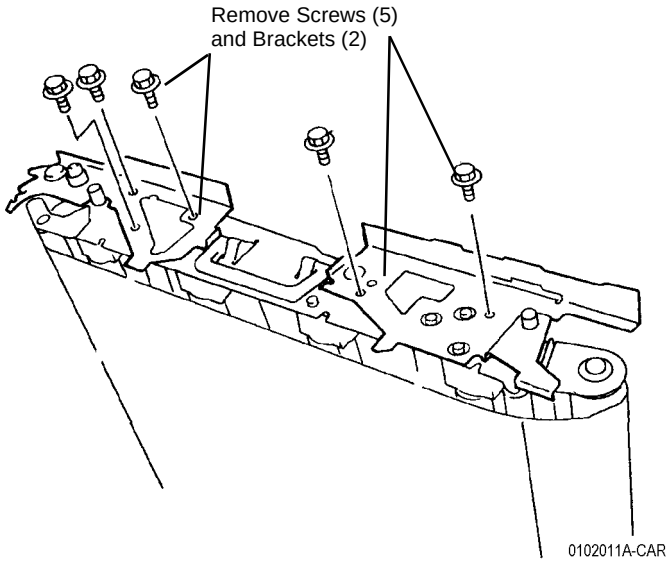

Figure 7 Removing Bracket

11. Pull out BUR Roll Housing from Hole below and move it in arrow direction (Figure 8).

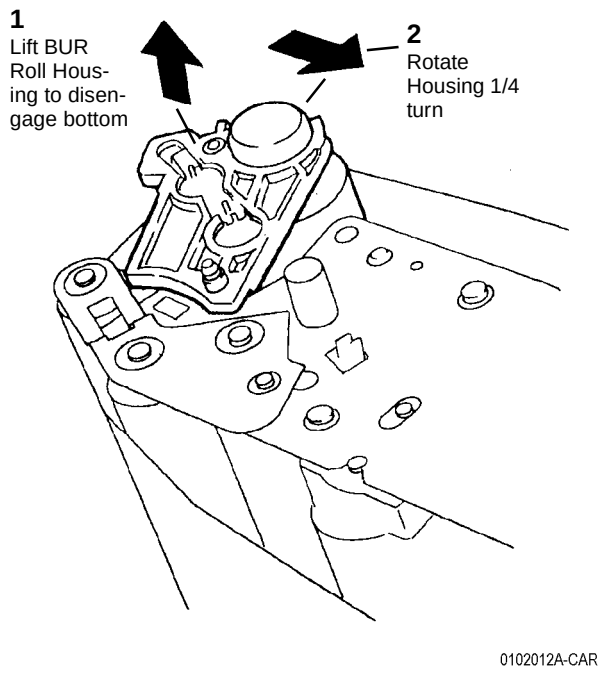

Figure 8 Pulling Out BUR Roll Housing

12. Remove Transfer Belt (Figure 9).

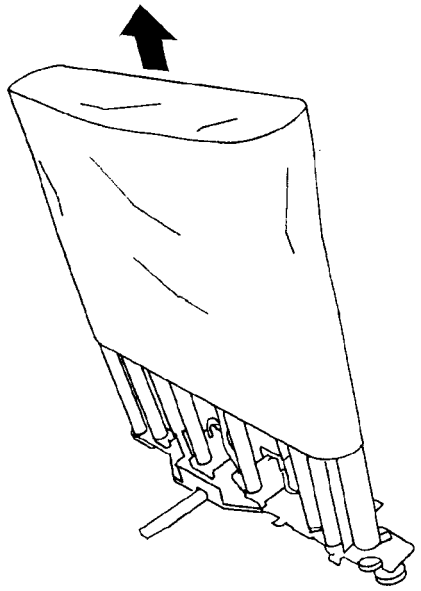

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Figure 9 Removing Transfer Belt

Replacement

1. Install Transfer Belt with Reflector at rear (Figure 10).

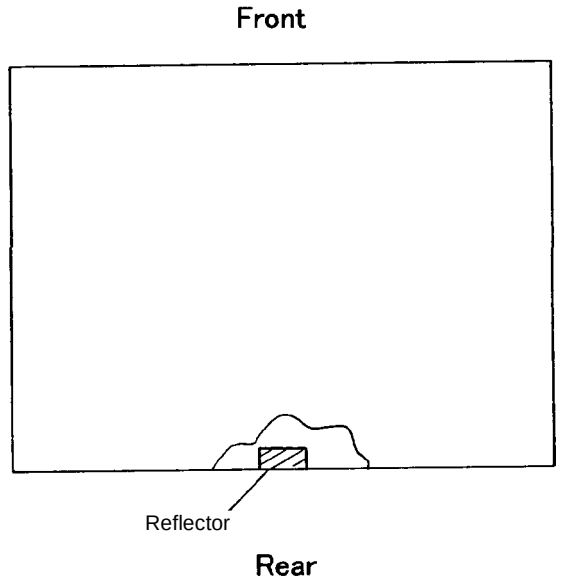

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Figure 10 Installing Transfer Belt

2. After installing Transfer Belt, move it to center of IBT Frame so that exposed parts of IBT Drive Roll should be equal (Figure 11).

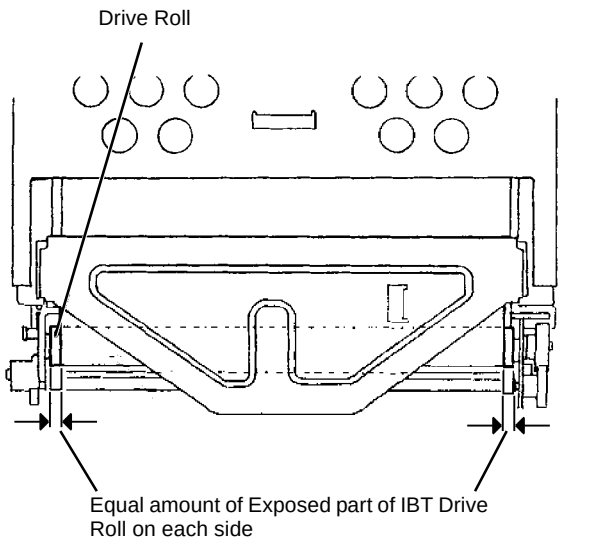

Figure 11 Positioning Transfer Belt

3. If Transfer Belt is skewed or wrinkled, perform following steps: (Figure 12).
   a. Relax tension of Belt.
   b. Rotate Gear in arrow direction and move Transfer Belt.

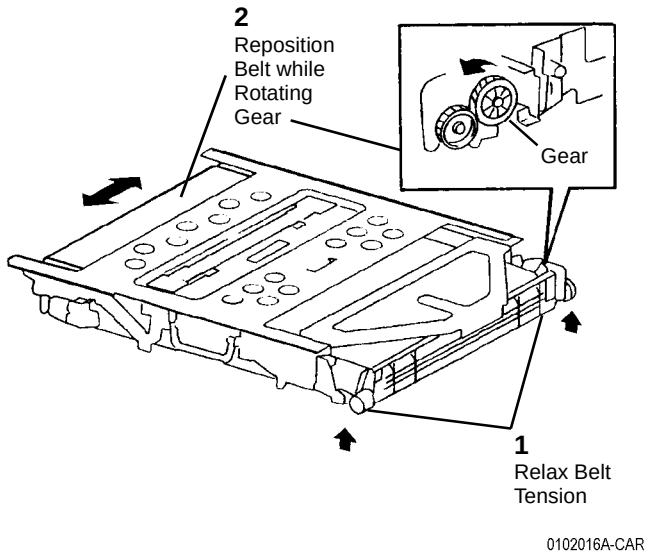

Figure 12 Re-positioning Transfer Belt

4. If a new Transfer Belt is installed, enter Diag. Mode and reset the HFSI counter.
   Chain-Link: 954-801
5. Perform Color Registration Color Registration (ADJ 9.6).

REP 9.23 1st BTR Roll

Parts List on PL 5.4

Removal

WARNING

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

1. Open Front Cover.
2. Release and move Xerographic Release Lever down.
3. Open Right Side Door.
4. Remove IBT Belt Assembly (REP 9.15).
5. Remove Transfer Belt (REP 9.22).
6. Remove 1st BTR Roll (Figure 1).

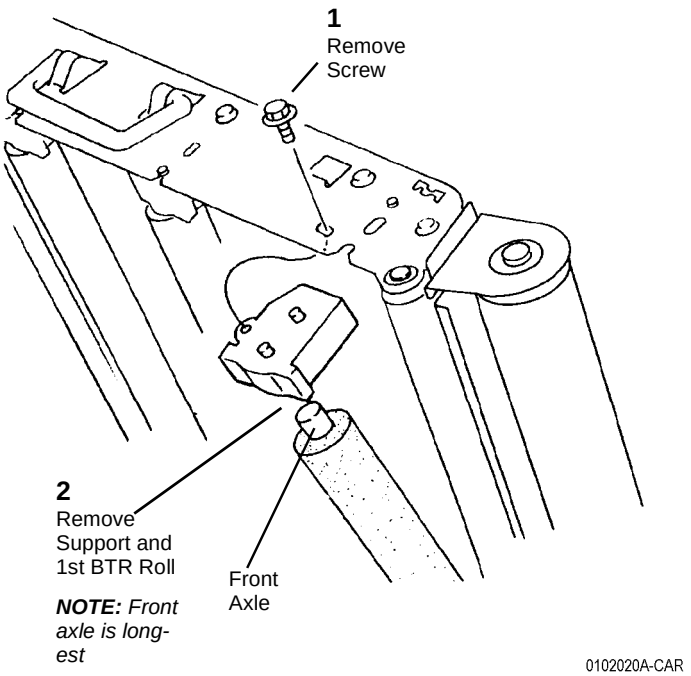

Figure 1 Removing 1st BTR Roll

Replacement

1. To install, carry out the removal steps in reverse order.

REP 9.24 2nd BTR Assembly

Parts List on PL 2.8

Removal

WARNING

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

1. Remove 2nd BTR (Figure 1).
   a. Open Left Cover Assembly.
   b. Remove Screws (4).
   c. Remove 2nd BTR with Support Brackets

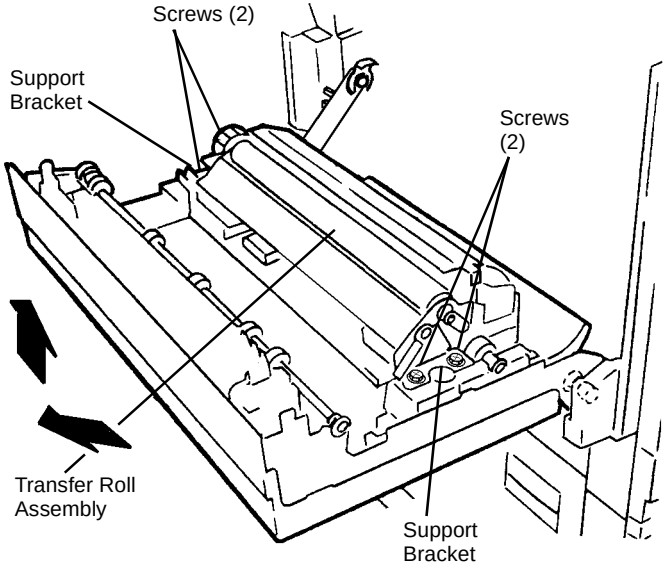

Figure 1 Removing 2nd BTR

Replacement

If a new 2nd BTR Assembly is installed, reset the HFSI counter. Chain-Link: 954-802

REP 9.25 Erase Lamp/Rail (K,Y,M,C)

Parts List on PL 4.2

Replacement

WARNING

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

1. Remove the Inner Cover (REP 9.6).
2. Raise the Lever.
3. Remove the Bracket and Erase Lamp/Rail (Figure 1).

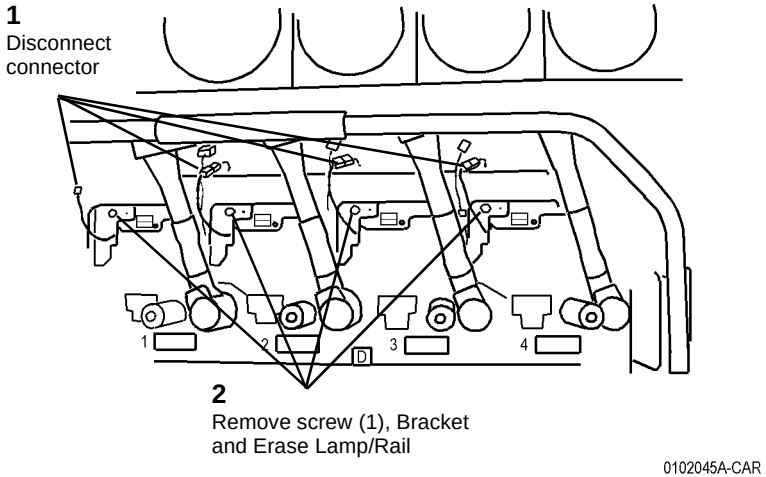

Figure 1 Removing the Erase Lamp/Rail

Replacement

1. To install, carry out the removal steps in reverse order.

REP 9.26 ATC Sensor

Parts List on PL 6.2

Removal

WARNING

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

1. Remove Front Cover Assembly (REP 14.7).
2. Remove Drum Cartridges (REP 9.1).
3. Remove Toner Waste Bottle (REP 9.4).
4. Remove Toner Bottle Cover (REP 9.3).
5. Remove Fuser Cover (REP 14.8).
6. Release and move Xerographic Release Lever half way down.
7. Remove Inner Cover (REP 9.6).
8. Remove all Dispenser Assemblies (REP 9.7).

NOTE: *In next step, do not remove sensor.*

9. Remove housing for Waste Cartridge Full Sensor (REP 9.5).

NOTE: *In next step, it may not be necessary to disconnect harnesses for Plate Assembly (PL 4.2) to remove a developer housing.*

10. Remove Plate Assembly (REP 9.8).
11. Remove Developer Housing (REP 9.9).
12. Release Harness from Harness Clips (Figure 1).

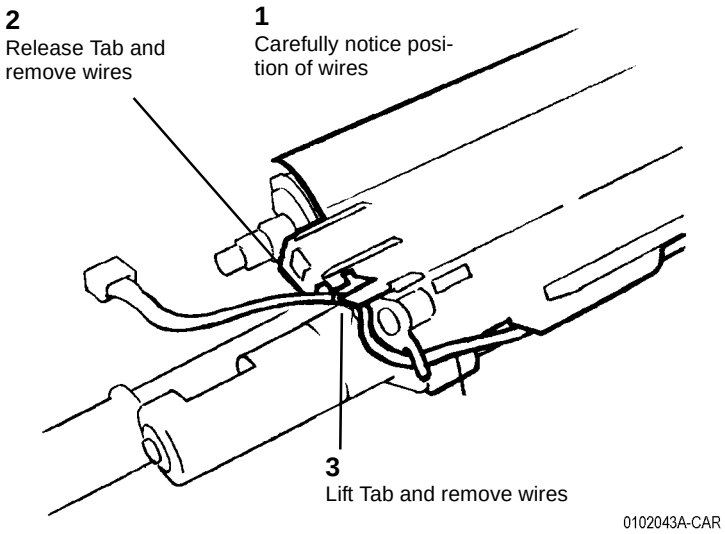

Figure 1 Removing Harness form Clips

13. Remove ATC Sensor (Figure 2).

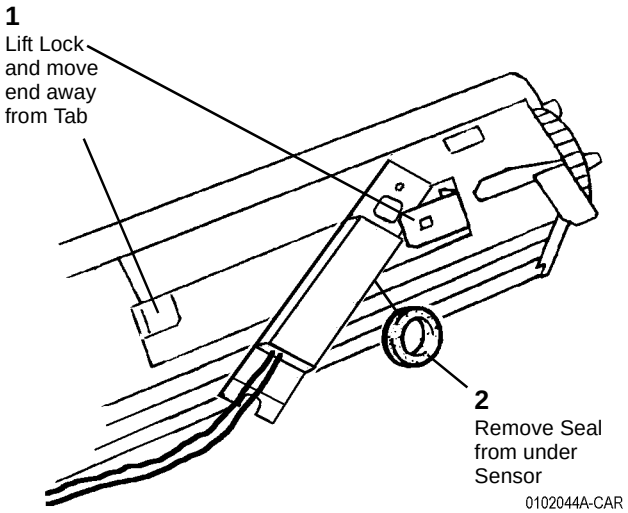

Figure 2 Removing ATC Sensor

Replacement

NOTE: *Remove ATC Sensor Setup Data Tag from new sensor. On tag, highlight K, C, M, or Y as required for color of developer housing. Raise Xerographic Release Lever and install Tag in position shown (Figure 3).*

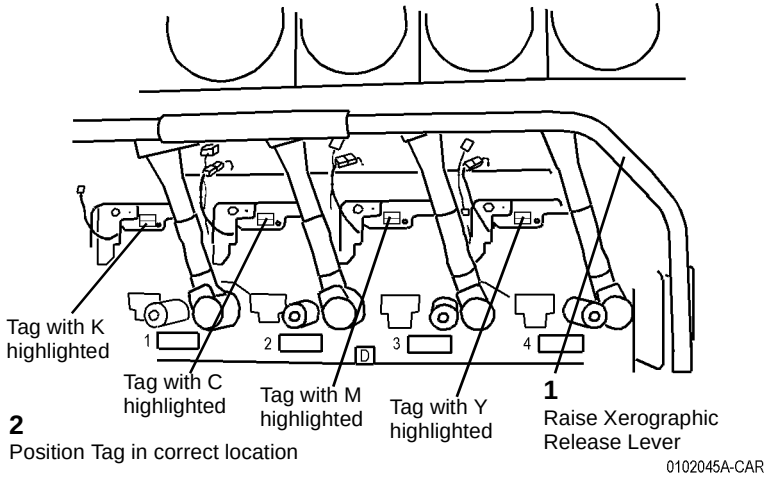

Figure 3 Installing ATC Sensor Setup Data Tag

NOTE: *Perform ATC Sensor Setup (ADJ 9.2).*

REP 9.27 Retract Shaft

Parts List on PL 5.4

Replacement

NOTE: *Cam and Flag must be aligned as shown, both on the same side (Figure 1).*

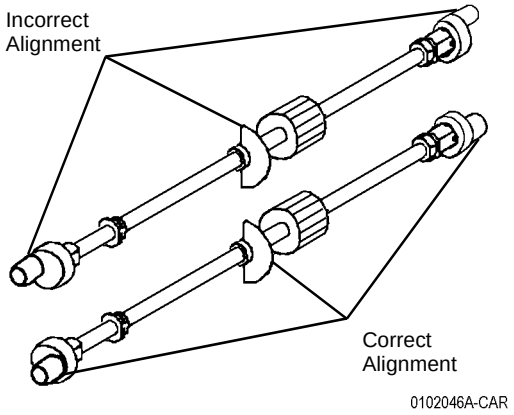

Figure 1 Cam and Flag Alignment

REP 10.1 Fuser

Parts List on PL 7.1

Removal

WARNING

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

WARNING

Personal injury may result from grasping hot areas of the Fuser Assembly. If a hot Fuser Assembly must be removed, grasp the Fuser Assembly by the black plastic frame component (Figure 1).

CAUTION

Damage to work surface may result if a hot Fuser Assembly is removed and positioned on an unprotected work surface. Place a hot fuser on ten sheets of paper.

1. Open Left Cover Assembly.
2. Remove Fuser Assembly (Figure 1).
   a. Loosen Screws (2). (PL 1.1)

WARNING

If machine was making copies within 30 minutes, Fuser Module is hot. Grasp Fuser Module using Handles.

   b. Use Grip Rings to pull Fuser Module out.

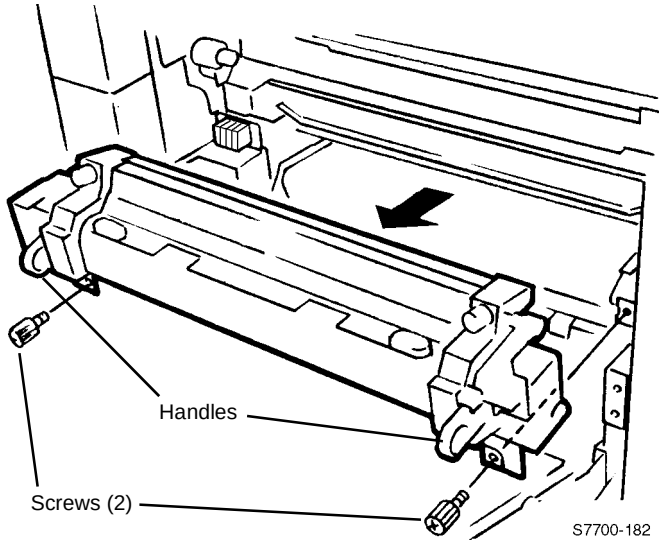

Figure 1 Removing Fuser Module

Replacement

When replacing, enter UI Diagnostics. mode. Reset the [HFSI] counter. Chain Link: 954-804.

1. To install, carry out the removal steps in reverse order.

REP 10.2 Fuser Fan Assembly

Parts List on PL 8.1

Removal

WARNING

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

WARNING

Personal injury may result from grasping hot areas of Fuser Module. If a hot Fuser Module must be removed, grasp Fuser Module by black plastic frame component (Figure 1).

CAUTION

Damage to work surface may result if a hot Fuser Module is removed and positioned on an unprotected work surface. Place a hot fuser on ten sheets of paper.

1. Open Front Cover.
2. Remove Right Cover (REP 14.3).
3. Remove Top Cover (REP 14.1).
4. Remove Rear Cover (REP 14.2).
5. Remove Fuser Cooling Fan (Figure 1).
   a. Disconnect P/J.
   b. Remove Screws (2) and lift to remove Fuser Cooling Fan.

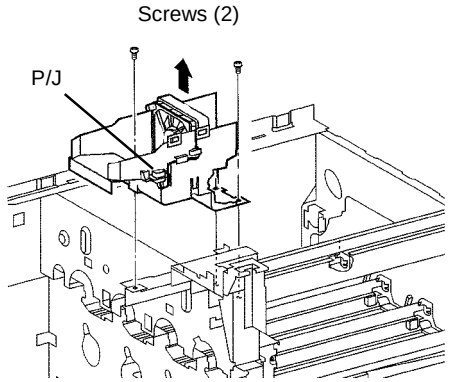

Figure 1 Removing Fuser Cooling Fan

Replacement

1. To install, carry out the removal steps in reverse order.

REP 10.3 Main/Sub Heater Rod

Parts List on PL 7.2

Removal

WARNING

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

CAUTION

Since the Fuser is very hot, wait until the Fuser becomes sufficiently cold.

CAUTION

Do not touch the glass surface of the Heater Rod. If the glass is accidentally touched, wipe it with a dry cloth.

1. Remove the Fuser Assembly (REP 10.1).

NOTE: *Lift the Fuser Nip Handle fully before removing the Front Cover.*

2. Remove the following parts:
   - Rear Cover (PL 7.2)
   - Handle (2) (PL 7.2)
   - Remove the Front Cover (PL 7.2)
3. Disconnect the connectors's (2) at rear of the Fuser (Figure 1).

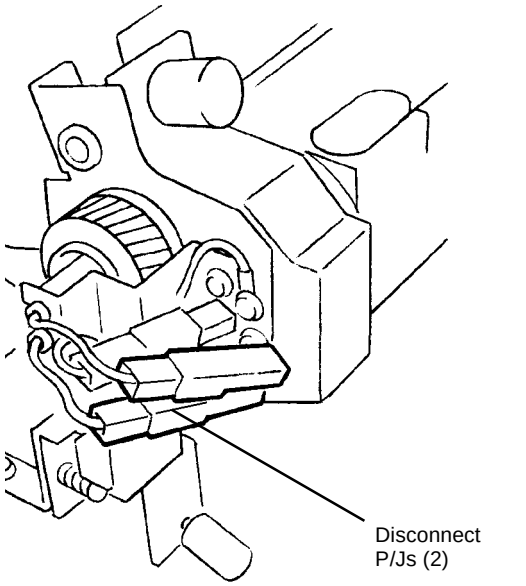

Figure 1 Disconnecting Connectors

4. Prepare Fuser at front (Figure 2).

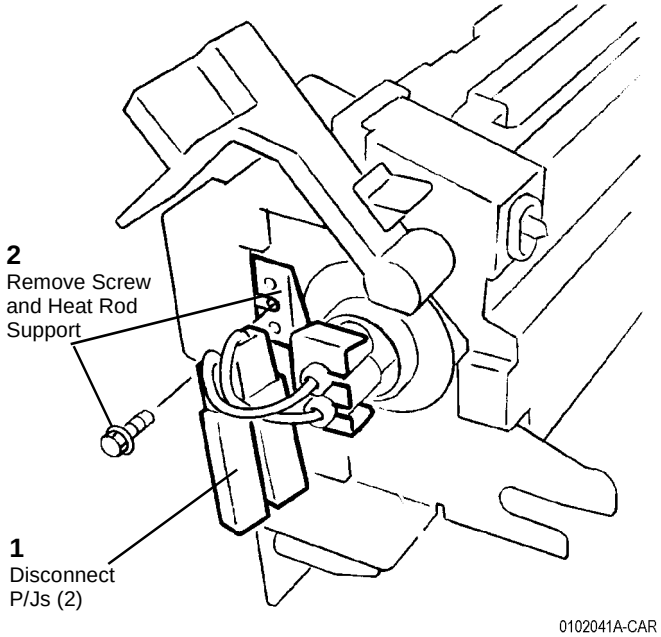

Figure 2 Preparing Fuser at Front

NOTE: *The 7346 uses a single Dual Heater Rod so if either the Main or Sub Heaters fail the Single Dual Heater Rod must be replaced. Removal and Replacements steps are the same otherwise.*

5. Remove Heater Rods (Figure 3).

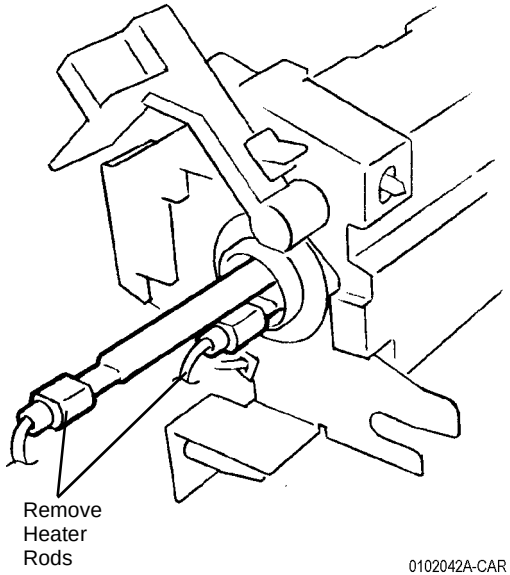

Figure 3 Removing Heater Rods

Replacement

- When replacing the Main Heater Rod, enter Diag. mode. Reset the [HFSI] counter. Chain Link: 956-804.
- When replacing the Sub Heater Rod, enter Diag. mode. Reset the [HFSI] counter. Chain Link: 956-803.

1. To install, carry out the removal steps in reverse order.

REP 11.1.1 Platen Cushion

Parts List on PL 20.1

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

*Press the [Job Status] button and check the **Current and Pending Jobs** tab to ensure that there are no jobs in progress or pending.*

1. Remove the Platen Cushion (Figure 1).
    1. Remove the Platen Cushion.

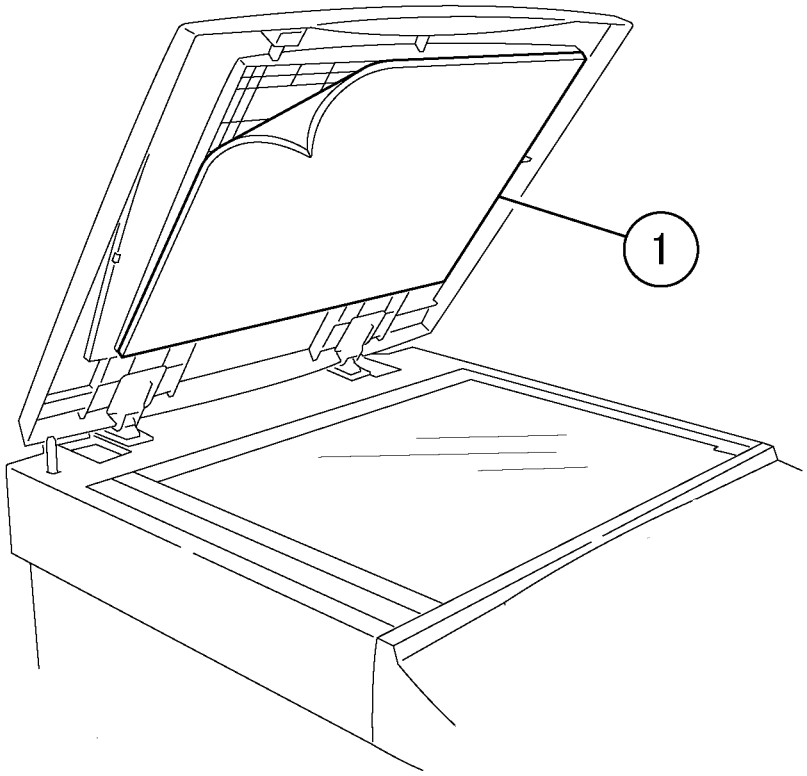

Figure 1 Removing the Platen Cushion

Replacement

***NOTE:** Remove all remaining tape from the Platen Cover after the Platen Cushion has been removed.*

1. Install the Platen Cushion (Figure 2).
    1. Remove the seal.
    2. Position the Platen Cushion with a 0.5mm gap along the left and the rear sides.
    3. Slowly lower the Platen Cover, pressing on the Platen Cushion.

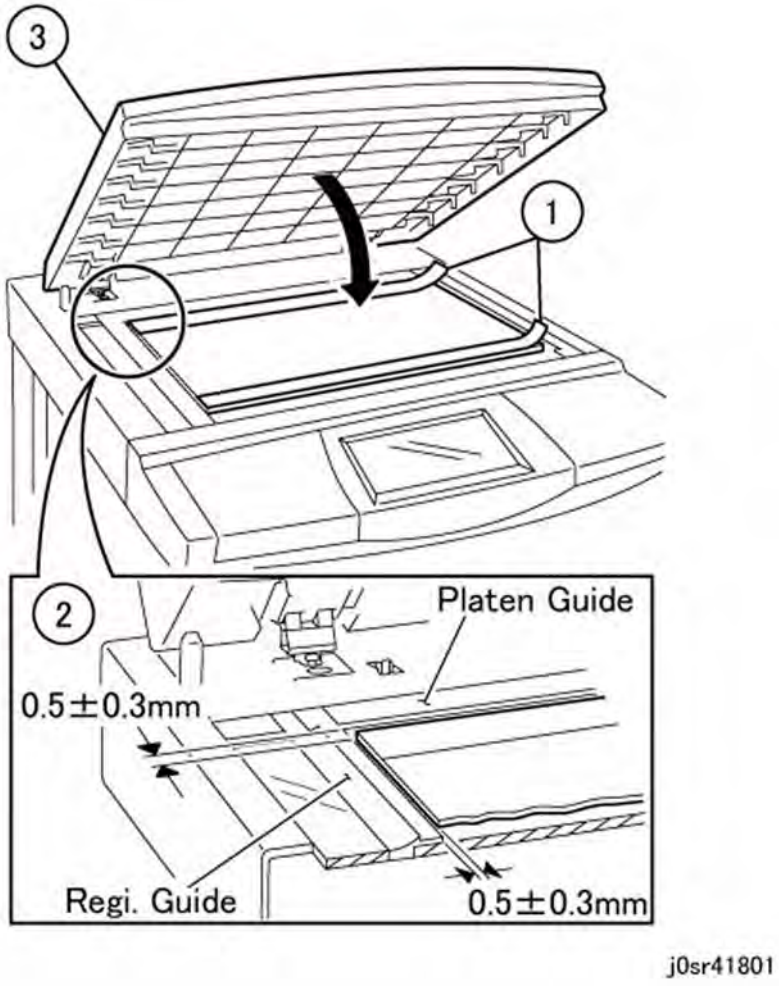

Figure 2 Replacing the Platen Cushion

REP 11.1.2 Control Panel Assembly

Parts List on PL 18.2

Removal

WARNING

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

1. Remove the Control Panel Assembly (Figure 1).
    1. Remove the screws (2).
    2. Remove the screws (2).
    3. Slide the Control Panel Assembly forward slightly.
    4. Release the connector.
    5. Release the wire harness from the frame.
    6. Remove the Control Panel Assembly.

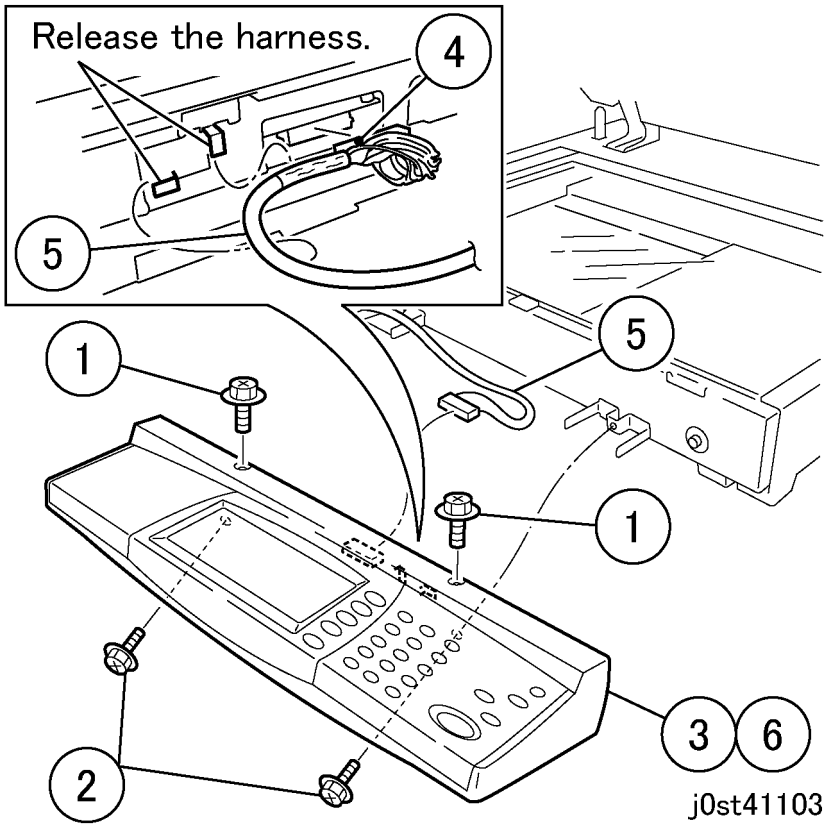

Figure 1 Removing the Control Panel Assembly

Replacement

1. To install, carry out the removal steps in reverse order.
2. Perform UI Display Alignment, ADJ 9.13.

REP 11.3.1 Platen Glass

Parts List on PL 18.3

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

*Press the [Job Status] button and check the **Current and Pending Jobs** tab to ensure that there are no jobs in progress or pending.*

1. Remove the Platen Glass (Figure 1).
    1. Remove the screws (x2).
    2. Remove the plate.
    3. Remove the Platen Glass.

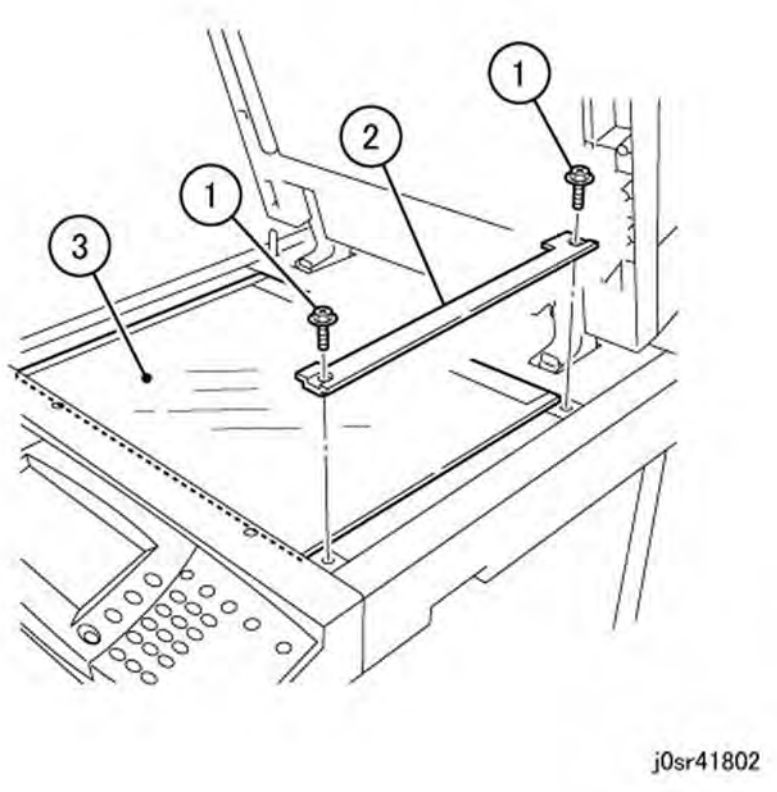

Figure 1 Removing the Platen Glass

Replacement

1. To install, carry out the removal steps in reverse order, taking note of the following:

   NOTE: *To install the Platen Glass, push the Platen Glass in the direction of arrow A and the plate in the direction of arrow B (Figure 2).*

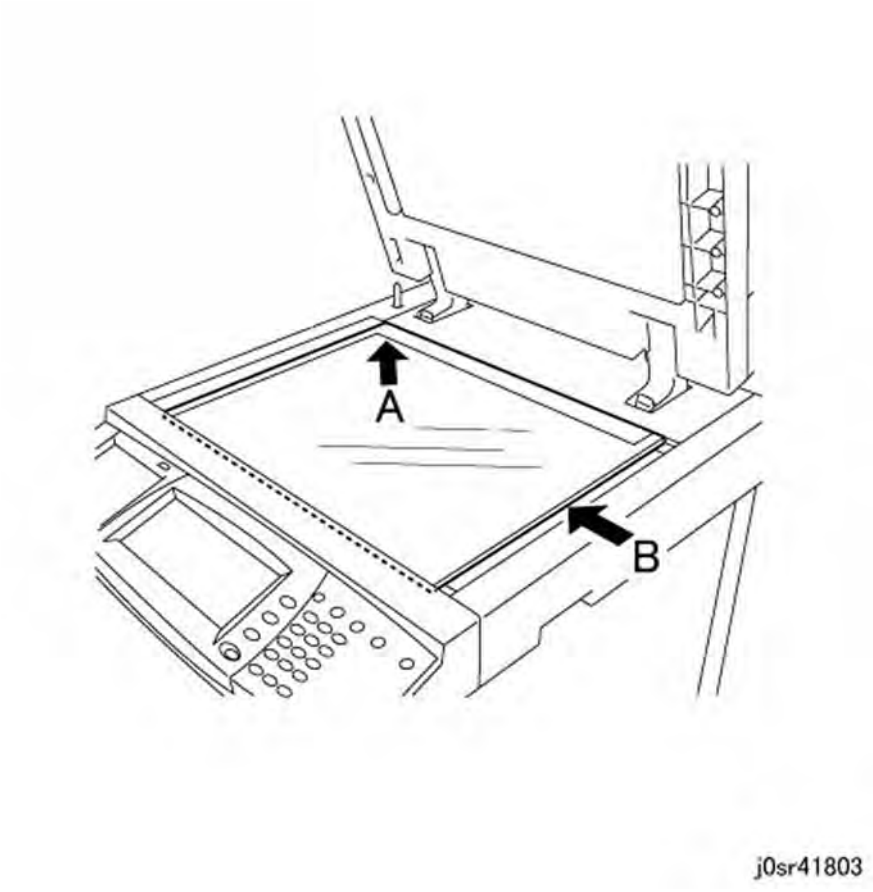

Figure 2 Installing the Platen Glass

REP 11.3.2 IIT/IPS PWB

Parts List on PL 18.3

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

Press the [Job Status] button and check the ***Current and Pending Jobs*** *tab to ensure that there are no jobs in progress or pending.*

CAUTION

The DADF is heavy component. Take care when lifting the DADF.

1. For DADF models, disconnect the connector (Figure 1).
   1. Loosen the screws (x2) and disconnect the connector.

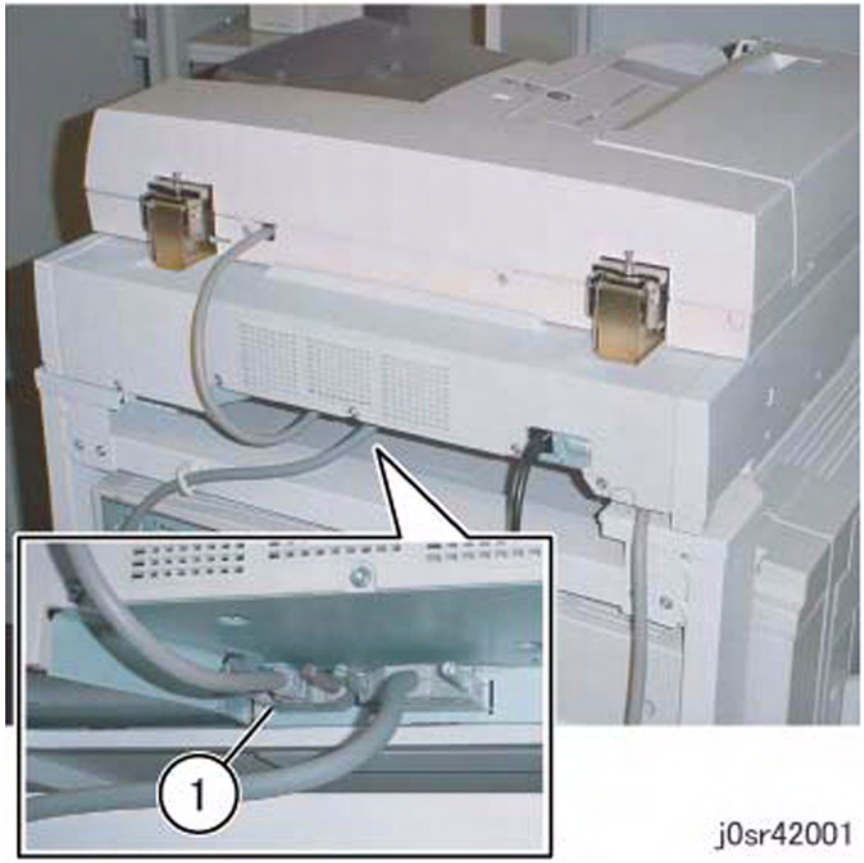

Figure 1 Disconnecting the connector

2. Remove the following parts:
   - Platen Cover or DADF (REP 15.1.1).
   - Platen Glass (REP 11.3.1).
   - CCD Lens Cover (PL 18.4).

3. Remove the IIT/IPS Cover (Figure 2).
   1. Remove the screws (x4).
   2. Remove the IIT/IPS Cover (PL 18.3).

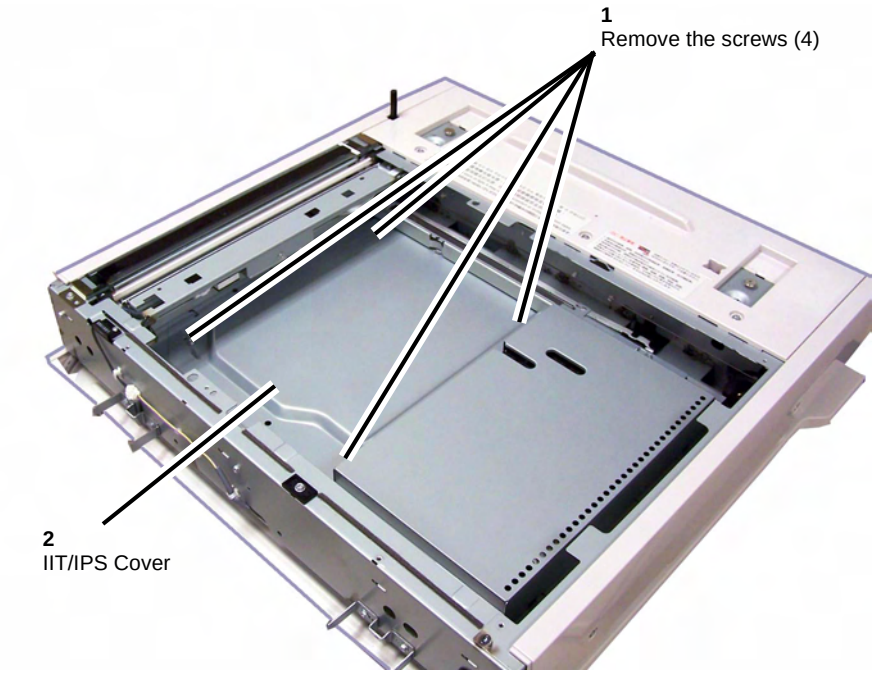

Figure 2 Removing the IPS Cover

4. Remove the IIT/IPS PWB Assembly (Figure 3).
   1. Disconnect the connectors (x2).
   2. Disconnect the ribbon cables (2).
   3. Remove the screws (7).
   4. Remove the lockscrews (4).
   5. Remove the screw (1).
   6. Remove the IIT/IPS PWB Assembly.

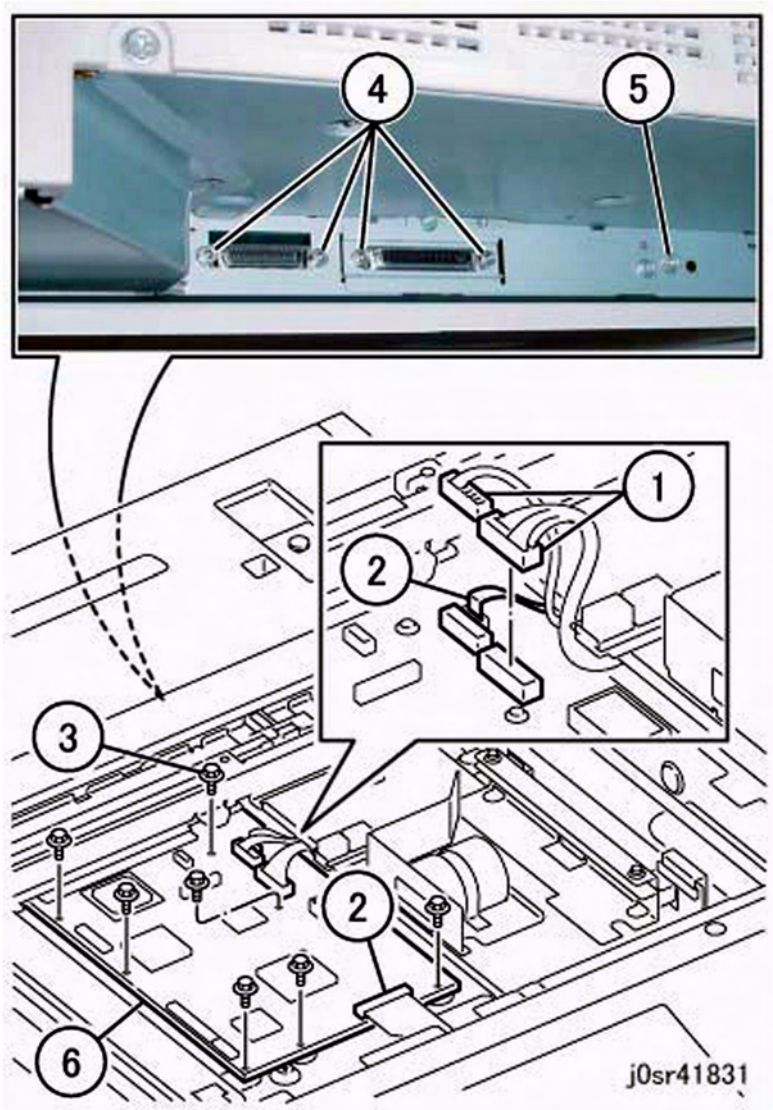

Figure 3 Disconnecting the connectors

Replacement

1. To install, carry out the removal steps in reverse order.
2. When replacing the IIT/IPS PWB, install the EP ROM from the old IIT/IPS PWB on the new IIT/IPS PWB (Figure 4).

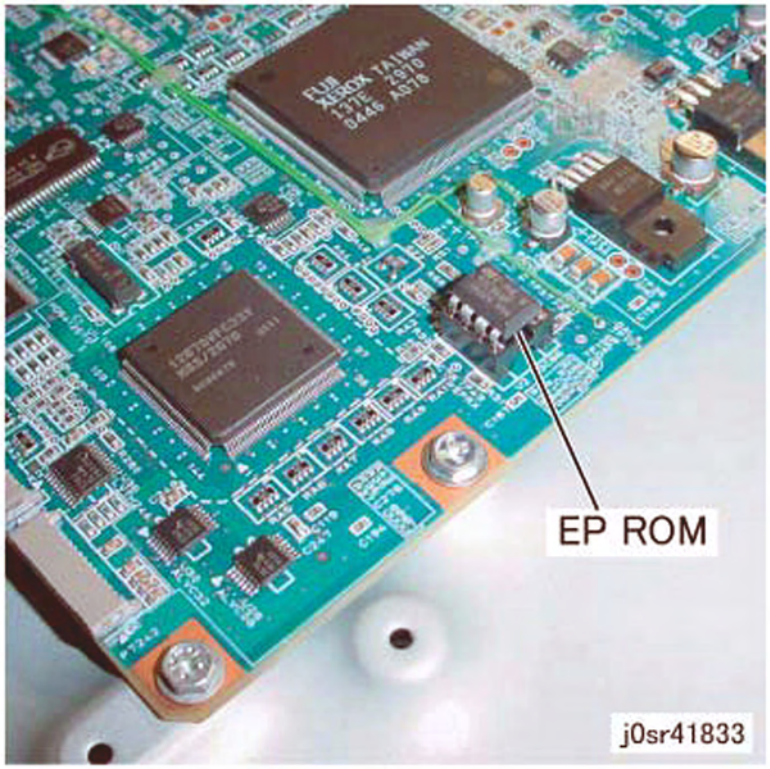

Figure 4 EP ROM Replacement

REP 11.4.1 CCD Lens Assembly

Parts List on PL 18.4

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

*Press the [Job Status] button and check the **Current and Pending Jobs** tab to ensure that there are no jobs in progress or pending.*

1. Remove the Platen Glass (REP 11.3.1).
2. Remove the Lens Cover (PL 18.4).
3. Remove the APS Sensor (Figure 1).
   1. Remove the screw.
   2. Remove the APS Sensor.

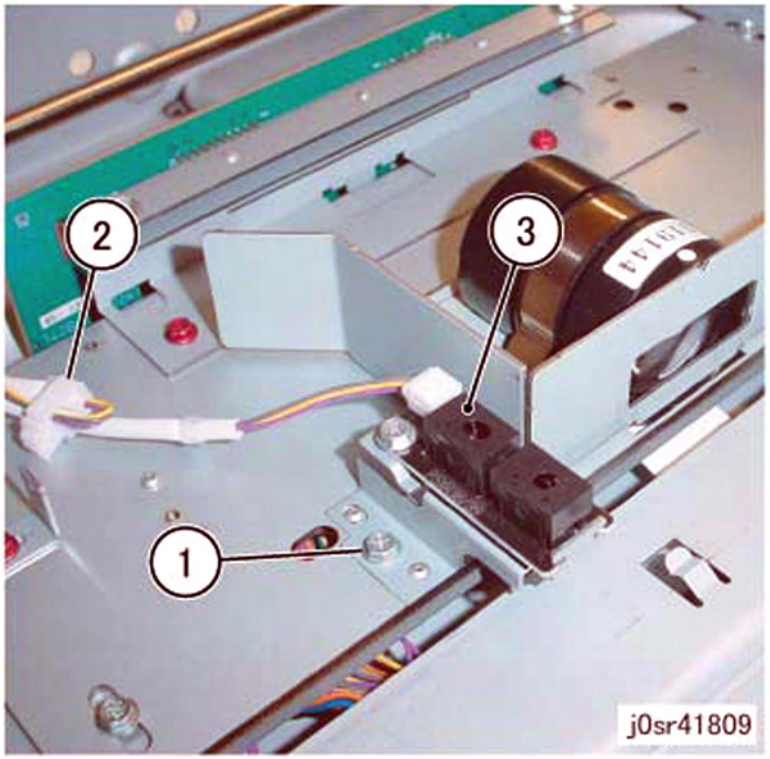

Figure 1 Removing the APS Sensor

4. Disconnect the CCD Flat Cable (Figure 2).

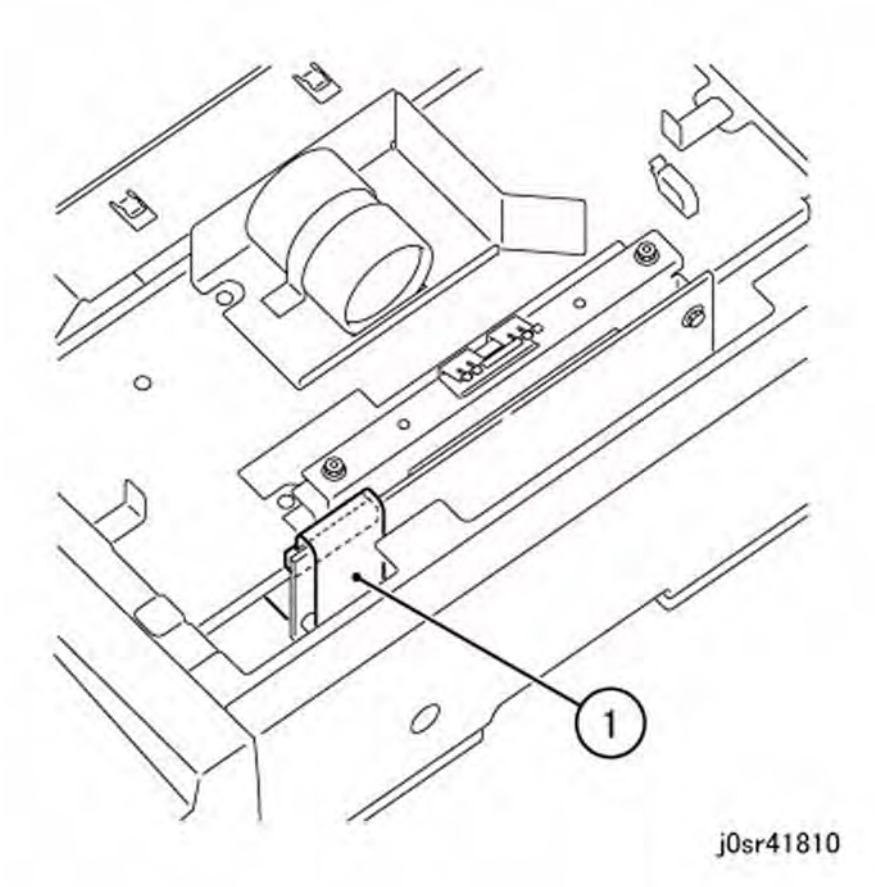

Figure 2 Disconnecting the CCD Flat Cable

CAUTION

The position of the CCD Lens Assembly is fixed by a pin on either side. Do not remove the screws (red) that secure these pins.

5. Replace the CCD Lens Assembly (Figure 3).
   1. Remove and retain the screws (x4).
   2. Replace the CCD Lens Assembly.

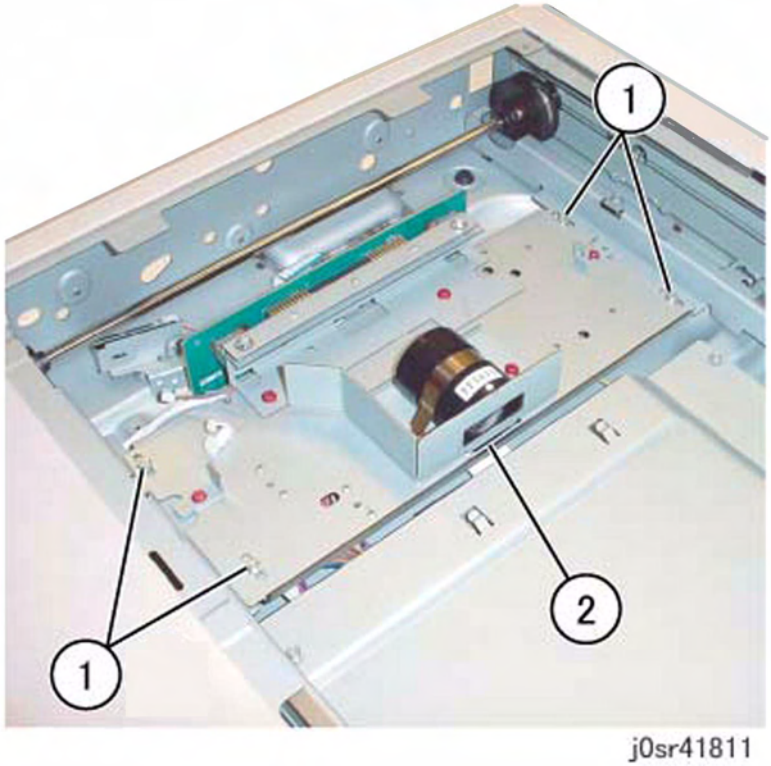

Figure 3 Removing the CCD Lens Assembly

Replacement

1. To install, carry out the removal steps in reverse order.
2. Perform ADJ 9.16 Optical Axis Alignment.
3. Perform ADJ 9.7 IIT Calibration.

REP 11.5.1 Carriage Cable

Parts List on PL 18.5

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 activities with the power switch on or electrical power applied to the machine.

CAUTION

To prevent data loss when the power is turned off, please note the following.

Press the [Job Status] button and check the ***Current and Pending Jobs*** *tab to ensure that there are no jobs in progress or pending.*

CAUTION

The DADF is heavy component. Take care when lifting the DADF.

1. For DADF models, remove the DADF Assembly (REP 15.1.1).
2. For the Platen models, remove the Platen Cover (Figure 1).

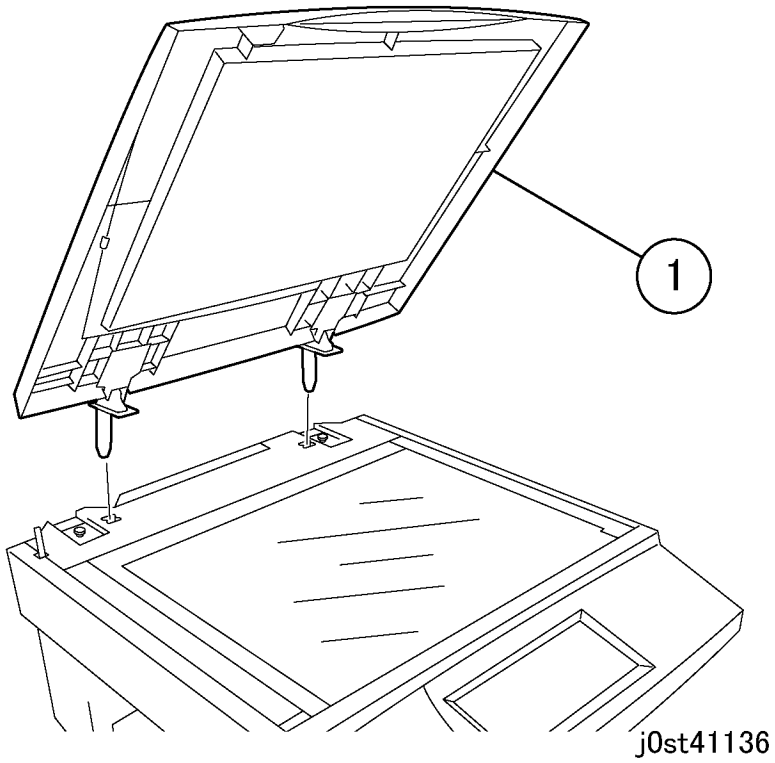

Figure 1 Removing the Platen Cover

3. Remove the following parts:
   - Platen Glass (REP 11.3.1).
   - Control Panel (REP 11.1.2).
   - IIT Left Cover (PL 18.1).
   - IIT Rear/Top Cover Assembly (PL 18.1).
4. On Platen models, remove the Glass Support (PL 18.3).
5. On DADF models, remove the CVT Glass (Figure 2).
   1. Remove the screws (x2).
   2. Remove the Glass Support on both sides.
   3. Remove the CVT Glass.

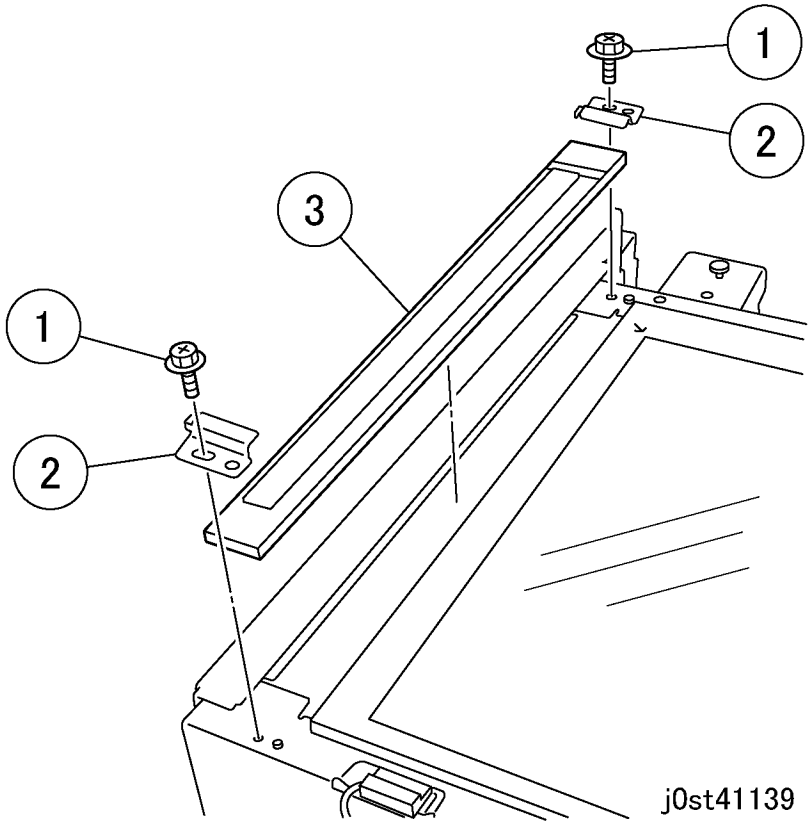

Figure 2 Removing the CVT Glass

6. Unfasten the Full Rate Carriage from the Carriage Cable (Figure 3).
   1. Remove the screws (x2).

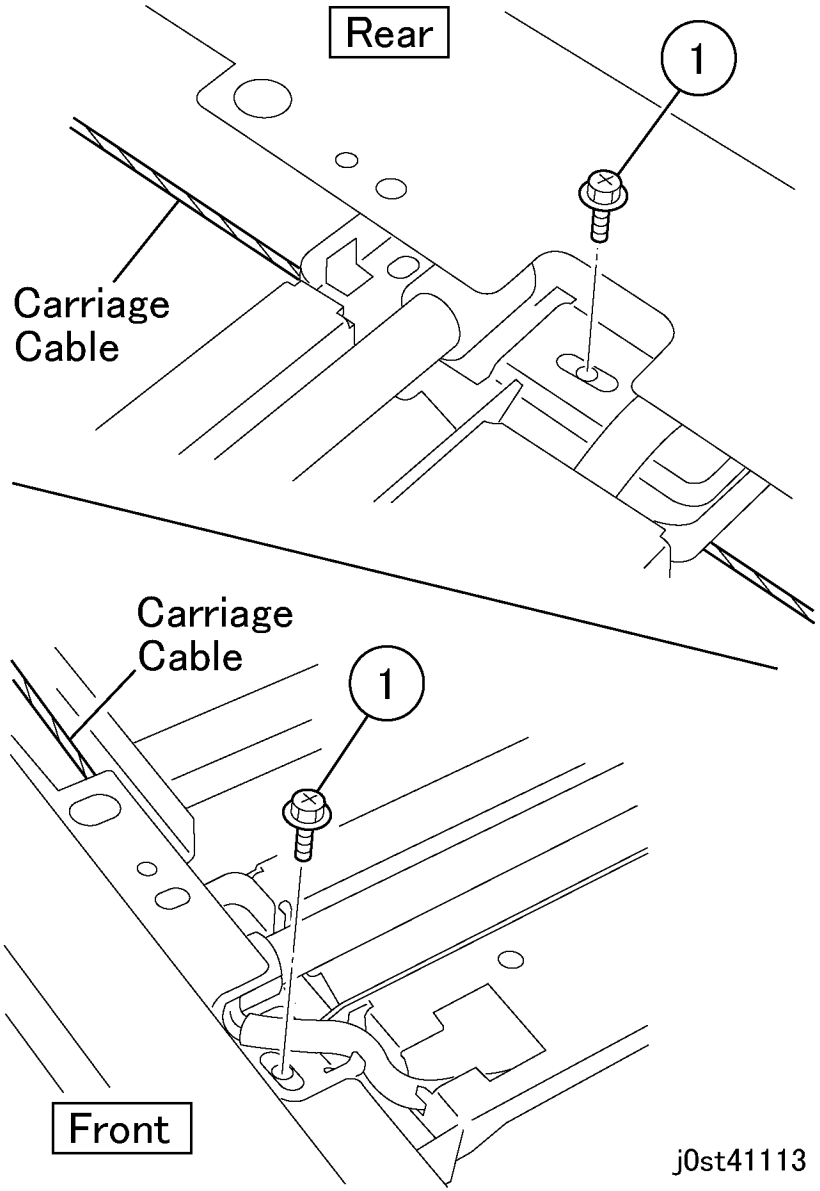

Figure 3 Unfastening the Full Rate Carriage

7. Remove the Carriage Cable (Figure 4).
    1. Remove the spring from the frame.
    2. Detach the cable from the spring.

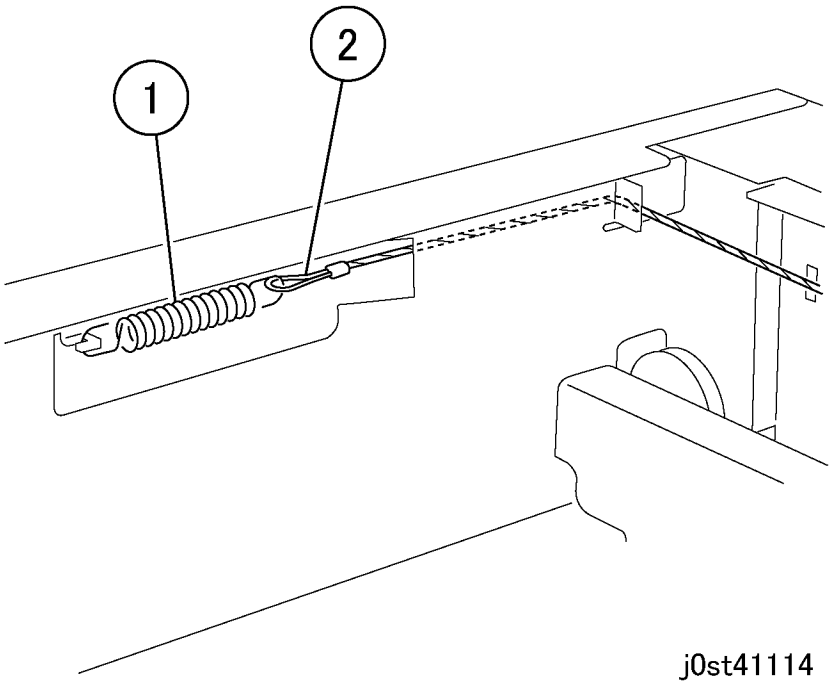

Figure 4 Removing the spring

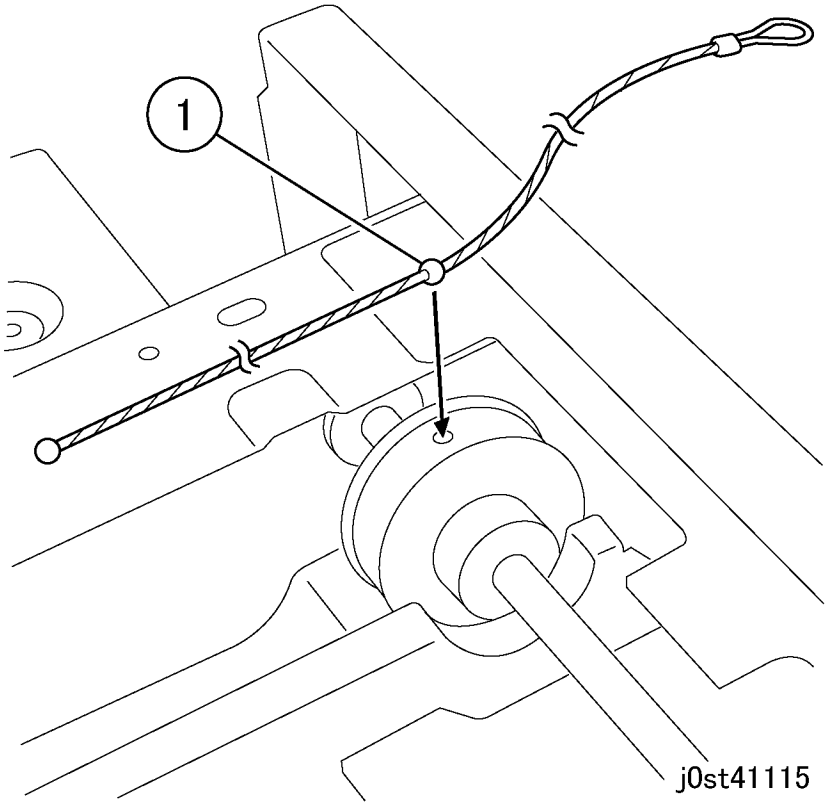

Figure 5 Winding the Carriage Cable around the pulley (1 of 3)

Replacement

1. Wind the Carriage Cable around the pulley (Figure 5, Figure 6, Figure 7).
    1. Insert the Carriage Cable ball into the ditch of the pulley.
    2. Wind the spring end of the cable around the pulley for 1.5 rounds.
    3. Fix the cable at the spring end on the frame with tape.
    4. Wind the cable at the ball end around the pulley for 2 rounds.
    5. Fix the cable on the pulley with tape to prevent it from moving.

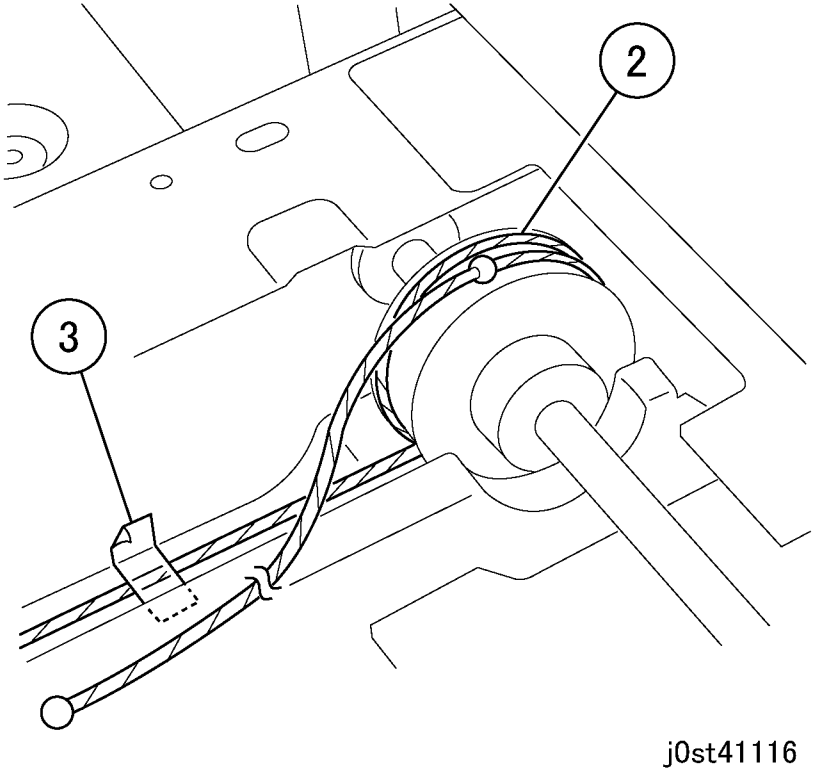

Figure 6 Winding the Carriage Cable around the pulley (2 of 3)

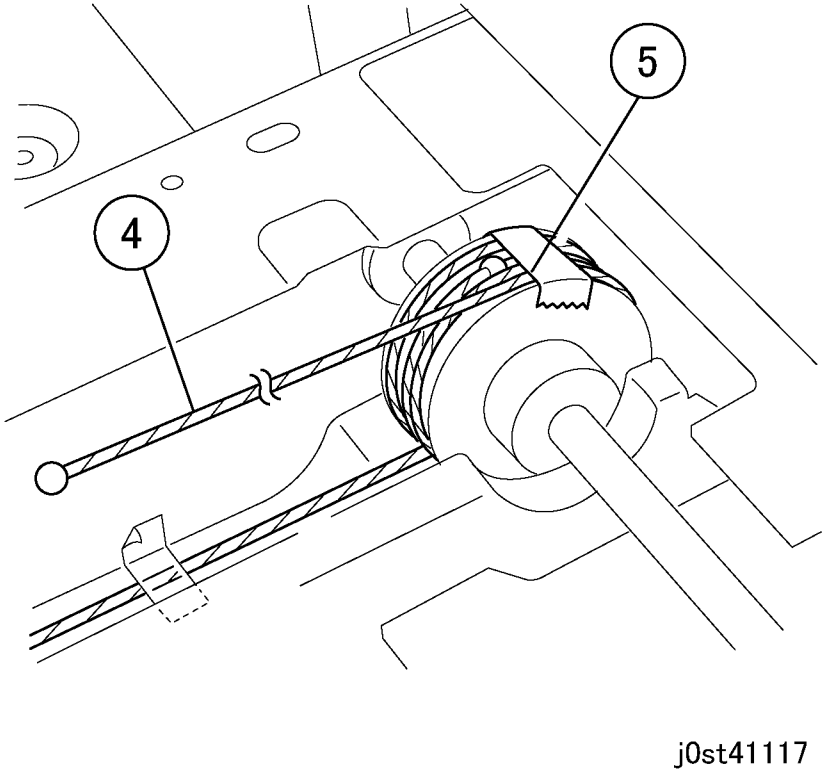

Figure 7 Winding the Carriage Cable around the pulley (3 of 3)

NOTE: *Indicates the number of coils made by the Carriage Cable at the front and rear (Figure 8).*

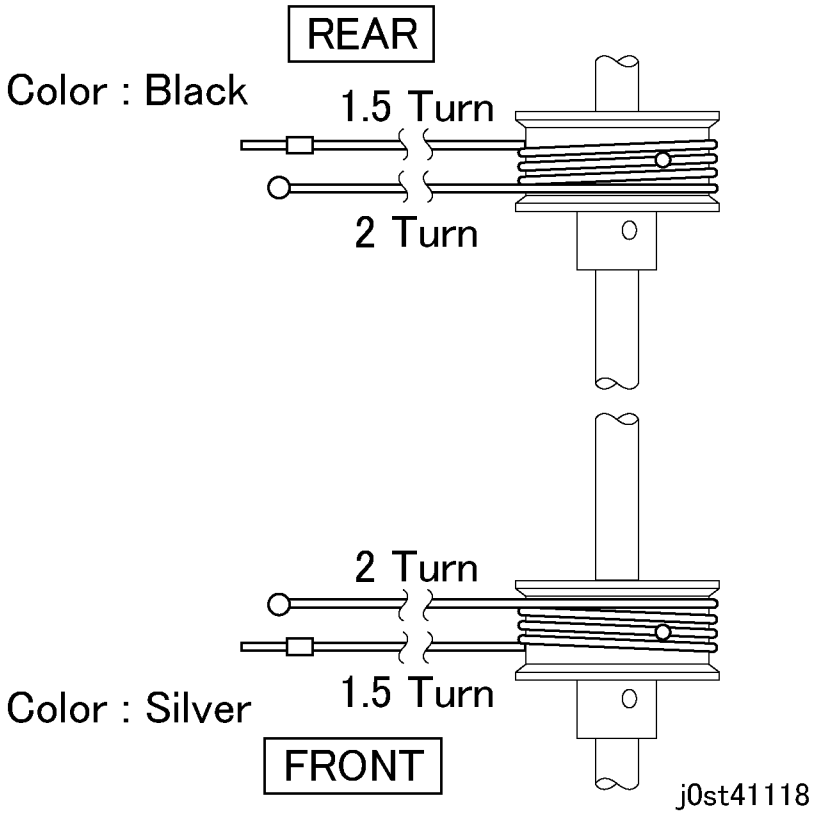

Figure 8 The number of coils made by Carriage Cable at the front and rear

2. Install the ball end of the Carriage Cable (Figure 9).
   1. Route the Carriage Cable on the pulley in front of it.
   2. Hang the ball on the notch of the frame.

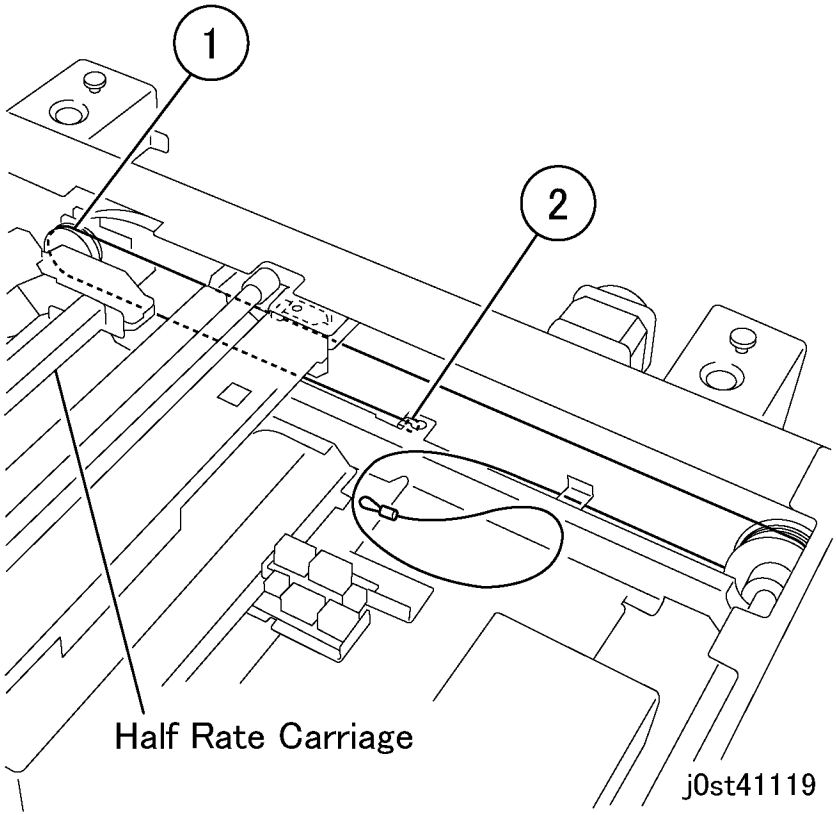

Figure 9 Installing the Carriage Cable

3. Install the spring end of the Carriage Cable (Figure 10).
   1. 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.

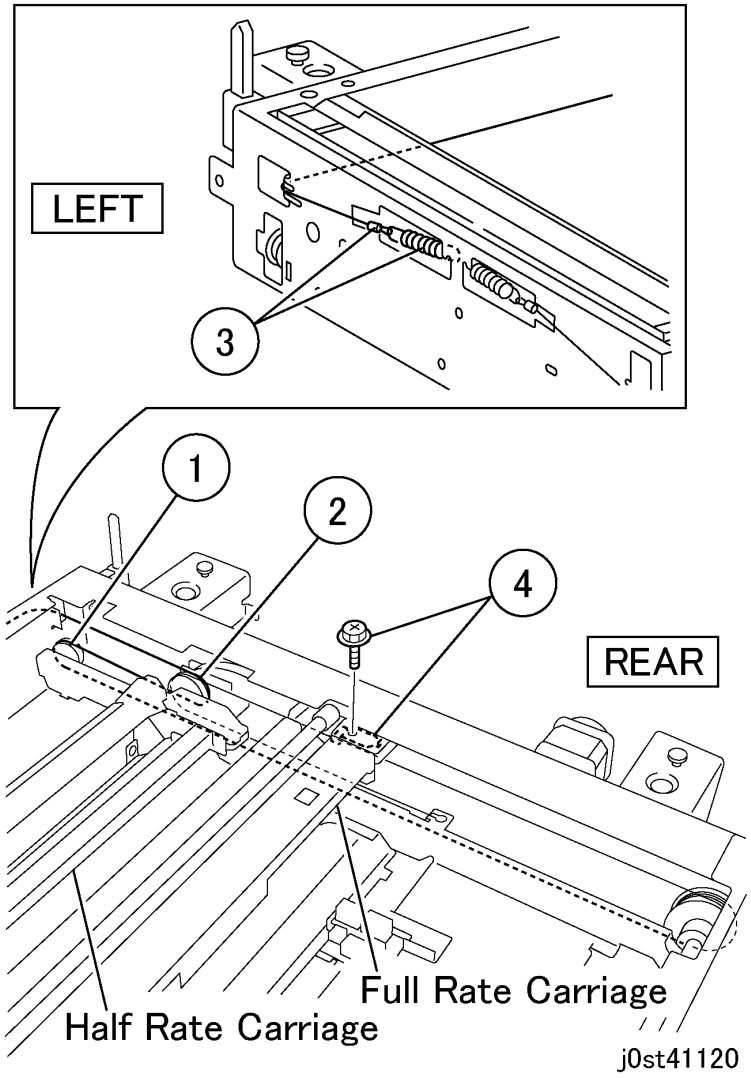

Figure 10 Installing the spring

4. Fix the Full Rate Carriage at the front side (Figure 11).
   1. Fix the Full Rate Carriage on the Carriage Cable.

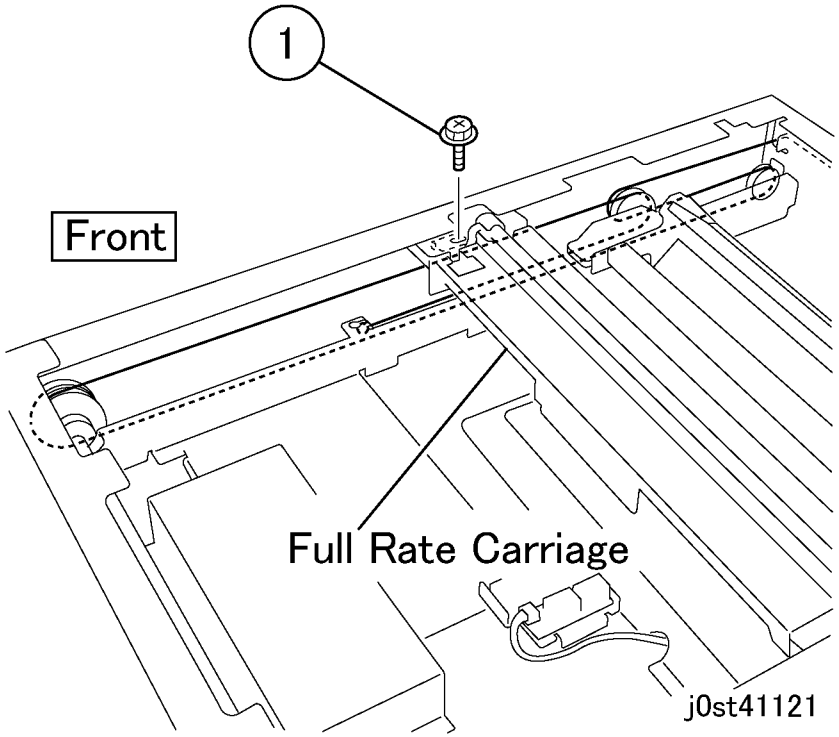

Figure 11 Installing the Carriage Cable at the front

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 18.5

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

*Press the [Job Status] button and check the **Current and Pending Jobs** tab to ensure that there are no jobs in progress or pending.*

CAUTION

The DADF is heavy component. Take care when lifting the DADF.

1. For DADF models, disconnect the connector (Figure 1).
    1. Loosen the screws (x2) and disconnect the connector.

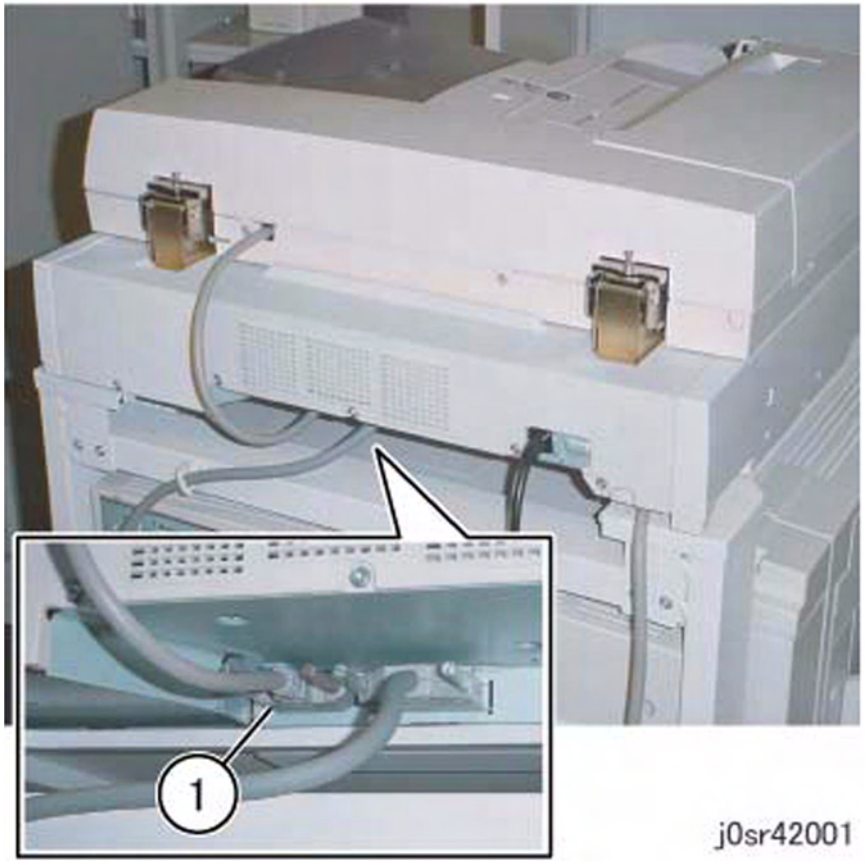

Figure 1 Disconnecting the connector

2. Remove the Platen Cover or the DADF Assembly (REP 15.1.1).
3. Remove the IIT Rear/Top Cover Assembly (PL 18.1).

4. Remove the Carriage Motor Assembly (Figure 2).
    1. Disconnect the connector.
    2. Release the harness from the harness clamp.
    3. Remove the wire harness clamp from the frame.
    4. Remove the spring.
    5. Remove the screws (3).
    6. Remove the Carriage Motor Assembly.

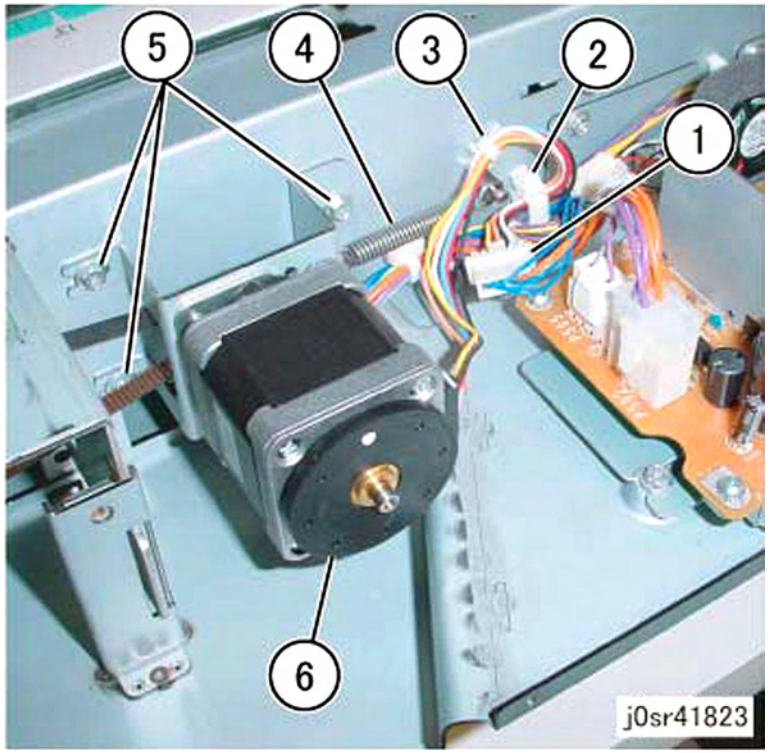

Figure 2 Removing the Carriage Motor Assembly

Replacement

1. To install, carry out the removal steps in reverse order.

REP 11.6.1 Exposure Lamp

Parts List on PL 18.6

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

*Press the [Job Status] button and check the **Current and Pending Jobs** tab to ensure that there are no jobs in progress or pending.*

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 (1).
    3. Remove the Exposure Lamp.

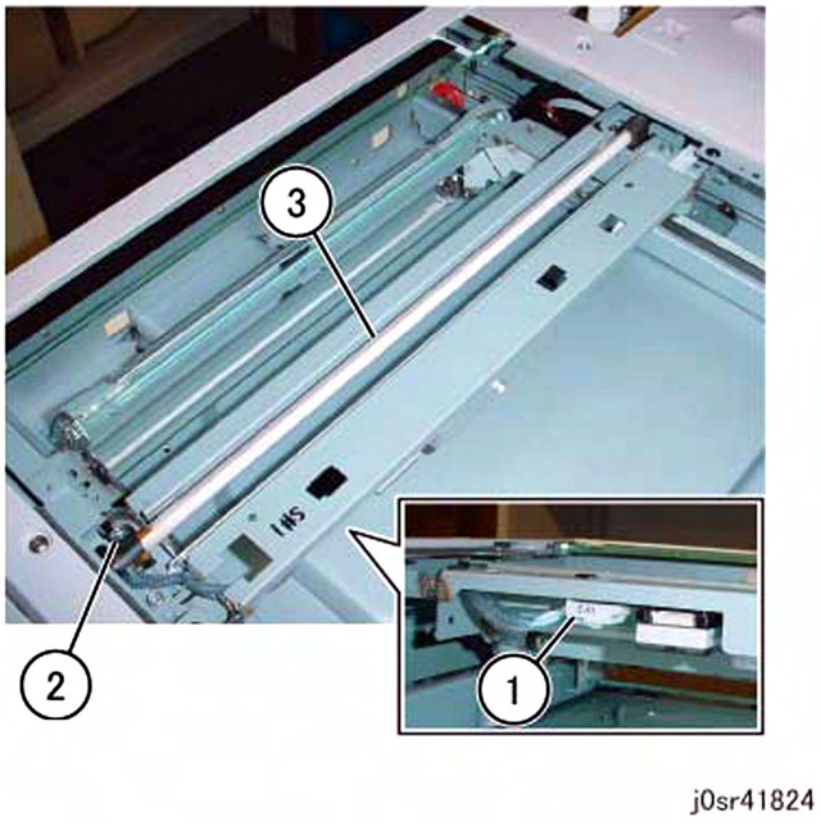

Figure 1 Removing the Exposure Lamp

Replacement

1. To install, carry out the removal steps in reverse order.

REP 11.6.2 Lamp Wire Harness

Parts List on PL 18.6

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

*Press the [Job Status] button and check the **Current and Pending Jobs** tab to ensure that there are no jobs in progress or pending.*

1. Remove the Platen Cover or the DADF (REP 15.1.1).
2. Remove the Platen Glass (REP 11.1.1).
3. Remove the CCD Lens Assembly (REP 11.4.1).
4. Remove the IIT/IPS Cover (Figure 1).
    1. Remove the screws (x4).
    2. Remove the IIT/IPS Cover.

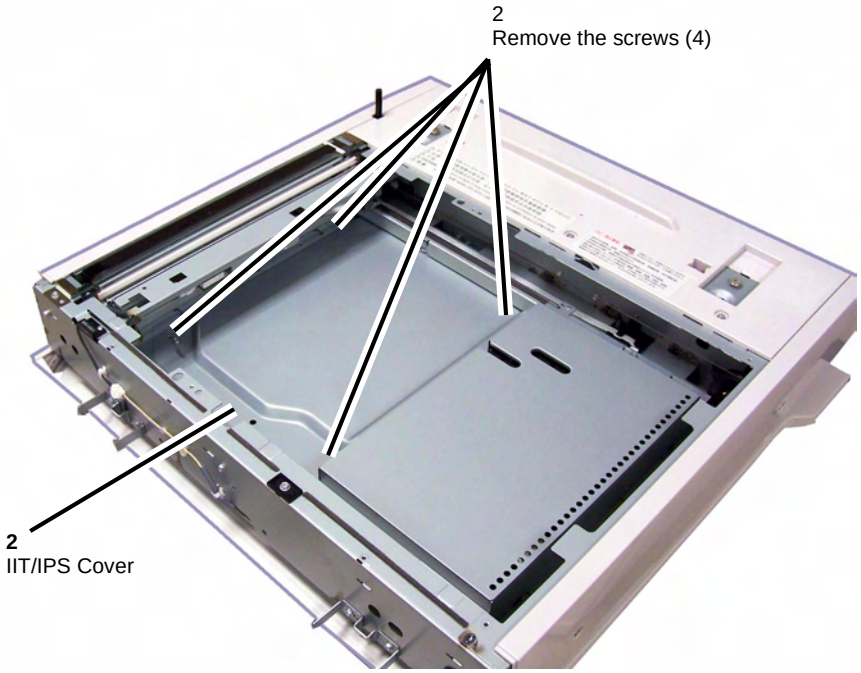

Figure 1 Removing the IPS Cover

5. Disconnect the harness connectors from the IIT IPS PWB (Figure 2).
   1. Disconnect P/J 720.
   2. Disconnect the Lamp Wire Harness (P723).

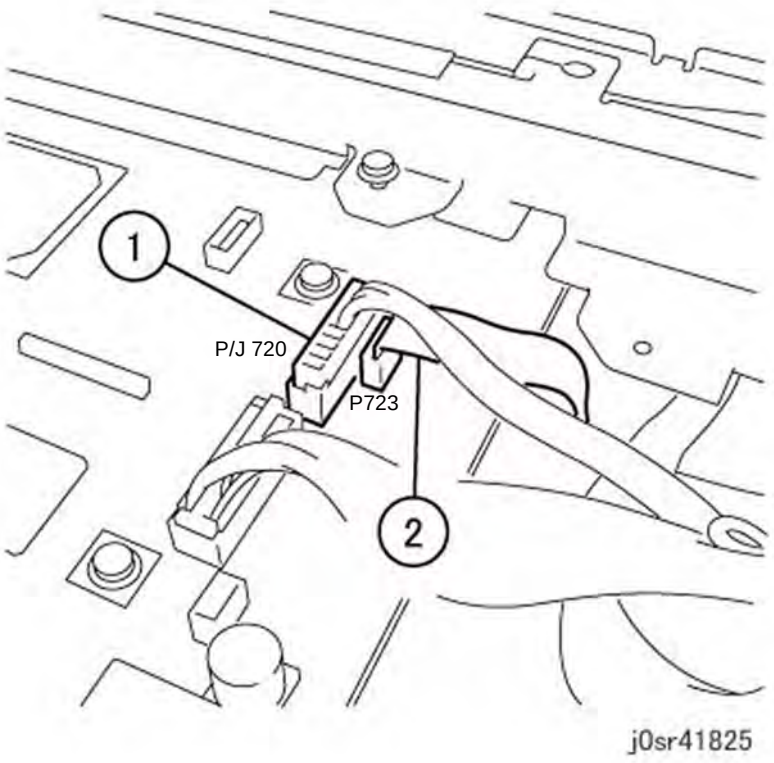

Figure 2 Disconnecting the harness connectors

6. Disconnect the Lamp Wire Harness from the Hook (Figure 3).
   1. Release the harness from the hook.
   2. Pull the harness through the frame.

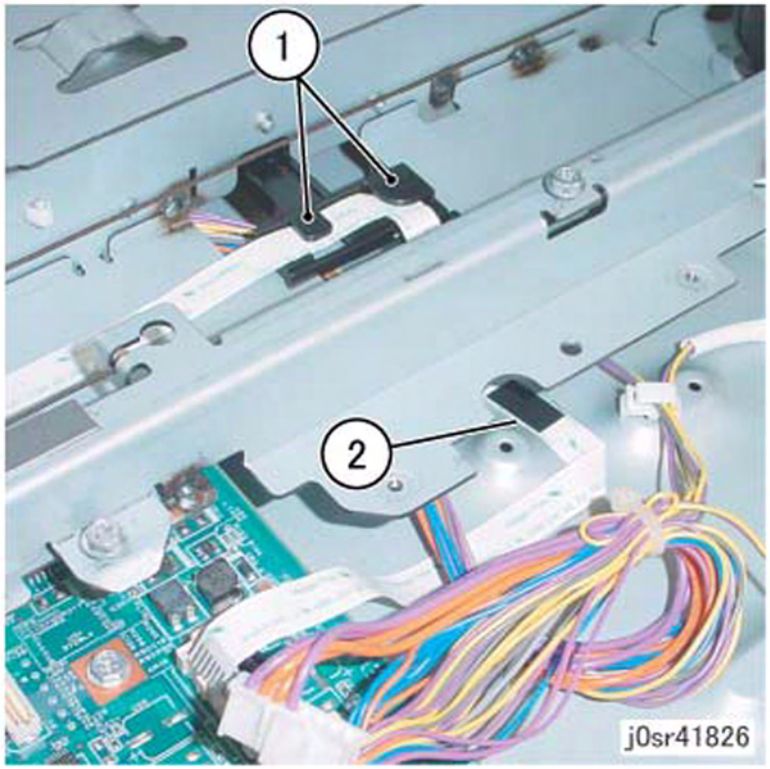

Figure 3 Removing the harness

7. Remove the Full Rate Carriage (Figure 4).
    1. Remove the screws (x2).
    2. Remove the Full Rate Carriage.

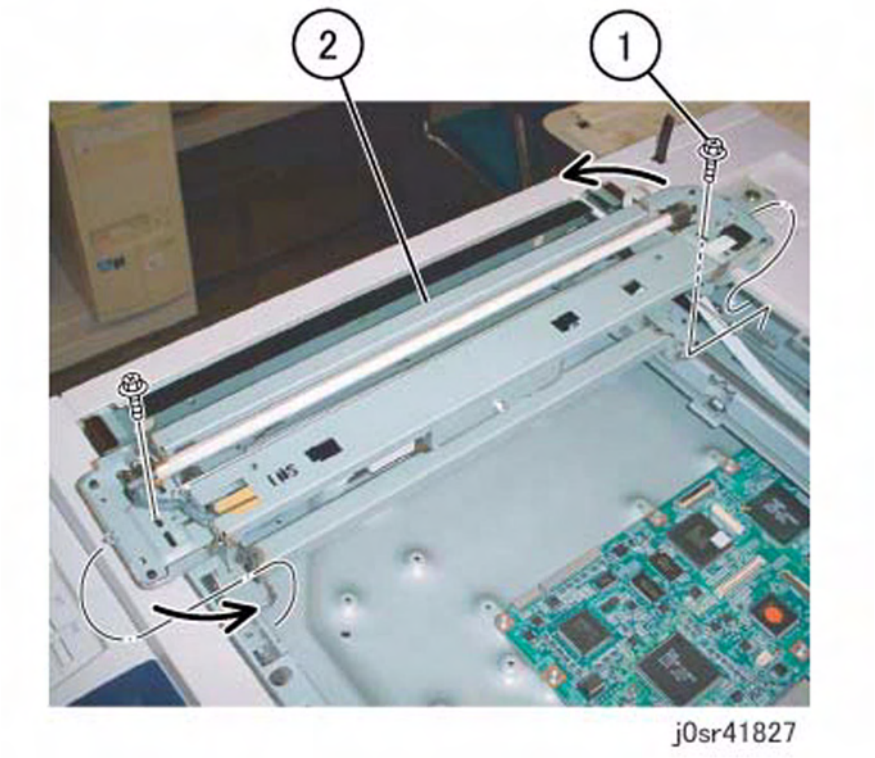

Figure 4 Removing the Full Rate Carriage

8. Remove the Lamp Wire Harness from the Full Rate Carriage (Figure 5).
    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.

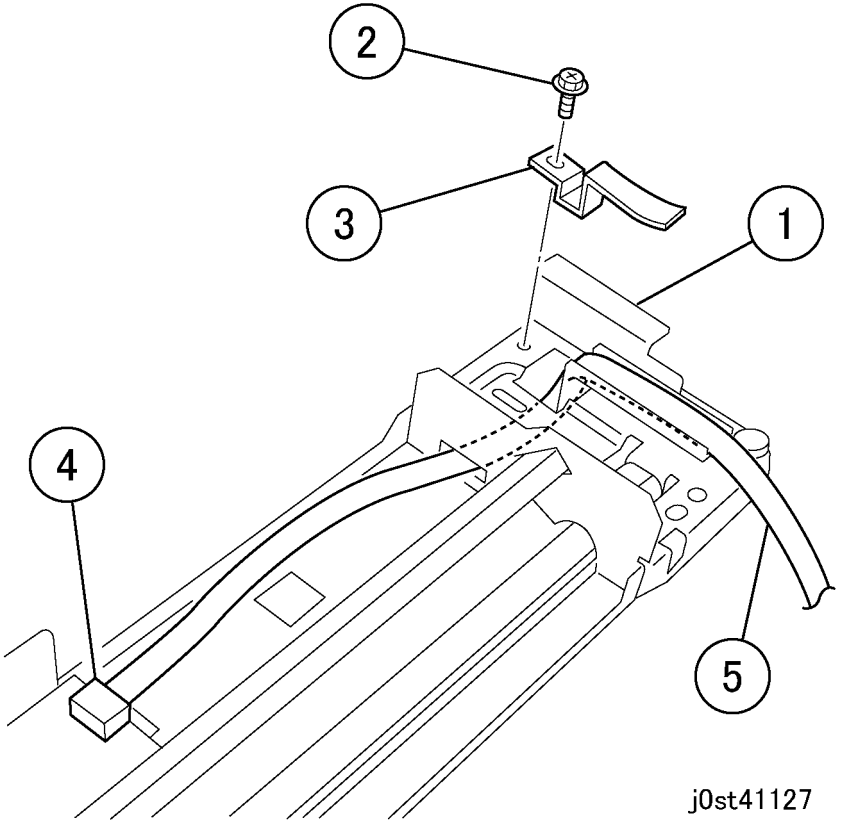

Figure 5 Removing the Lamp Wire Harness

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 11.7 IIT LVPS Assembly

Parts List on PL 18.4

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

*Press the [Job Status] button and check the **Current and Pending Jobs** tab to ensure that there are no jobs in progress or pending.*

CAUTION

The DADF is heavy component. Take care when lifting the DADF.

1. Remove the Platen Cover or the DADF (REP 15.1.1).
2. Loosen the screws that secure the IIT Right Cover and the IIT Left Cover, and then remove the IIT Top Cover (PL 18.1).
3. Remove the IIT LVPS Assembly (Figure 1).
   a. Disconnect the harness connectors (3).
   b. Loosen the screws (2).
   c. Remove the IIT LVPS Assembly.

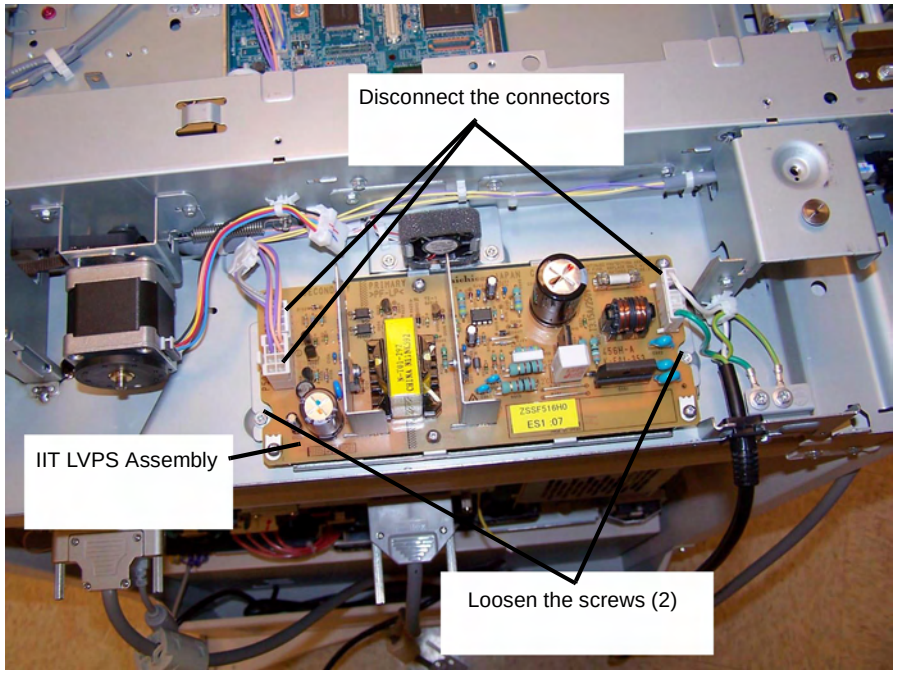

Figure 1 Removing the IIT LVPS Assembly

Replacement

1. To install, carry out the removal steps in reverse order.

REP 11.8 S2X PWB

Parts List on PL 18.3

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

*Press the [Job Status] button and check the **Current and Pending Jobs** tab to ensure that there are no jobs in progress or pending.*

CAUTION

The DADF is heavy component. Take care when lifting the DADF.

1. For DADF models, disconnect the connector (Figure 1).
    1. Loosen the screws (x2) and disconnect the connector.

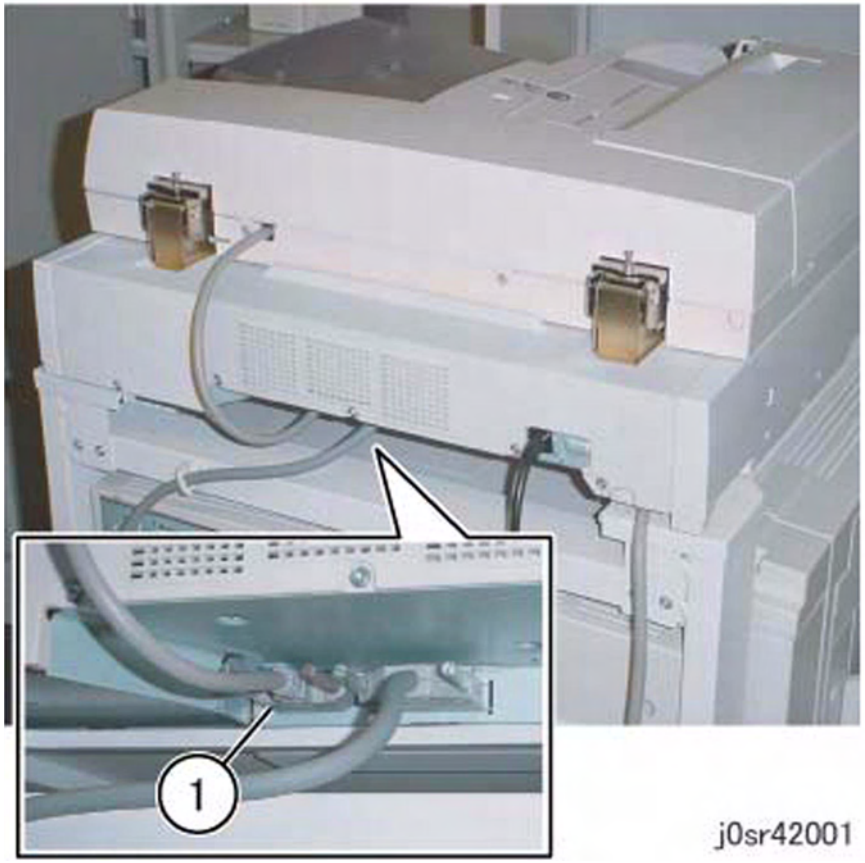

Figure 1 Disconnecting the connector

2. Remove the following parts:
    - Platen Cover or DADF (REP 15.1.1).
    - Platen Glass (REP 11.3.1).
    - CCD Lens Cover (PL 18.4).

3. Remove the IIT/IPS Cover (Figure 2).

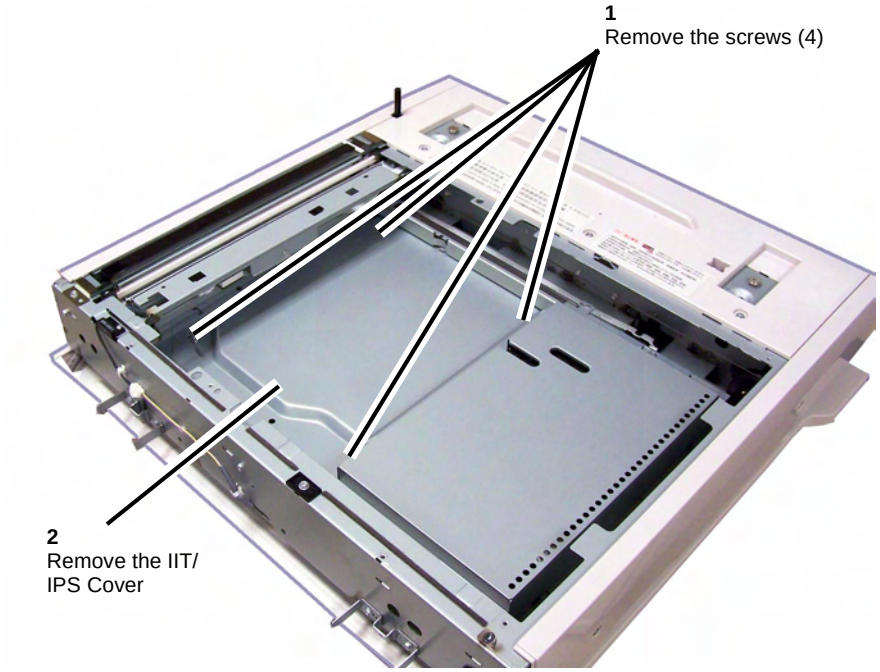

Figure 2 Removing the IPS Cover

4. Disconnect the ribbon cable connecting the S2X PWB to the IIT/IPS PWB (P742 - Figure 3).

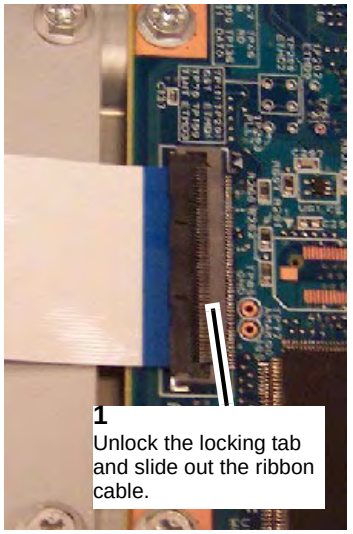

Figure 3 Disconnecting the Ribbon Cable

5. 2. Remove Screws from S2X PWB inside the Scanner (Figure 4).

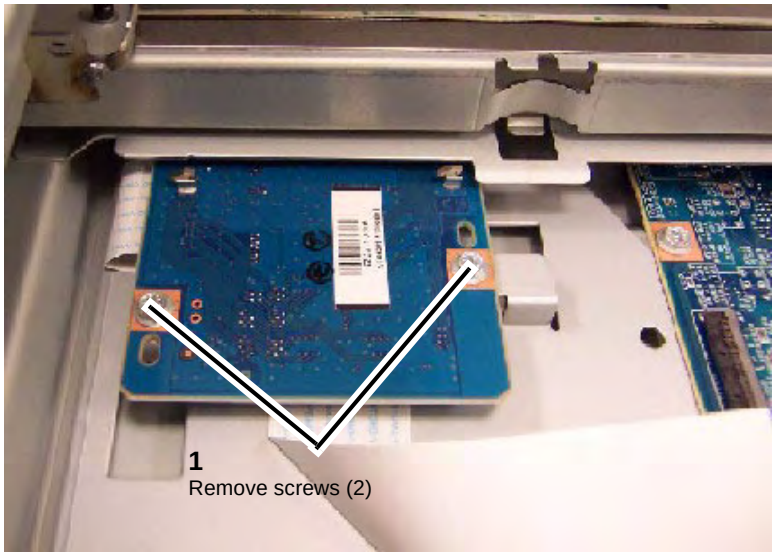

Figure 4 Unfastening the S2X

6. 3. Remove screws (2) and PWB Standoffs (2) from rear of IIT.

Figure 5 Removing Standoffs

7. 4. Remove the S2X PWB Assembly.

Replacement

Perform the removal steps in reverse order.

REP 12.1 Office Finisher H-Transport Assembly

Parts List on PL 17.1

Removal

WARNING

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

1. Pull IOT out from under Scanner.
2. Disconnect P/J (Figure 1).

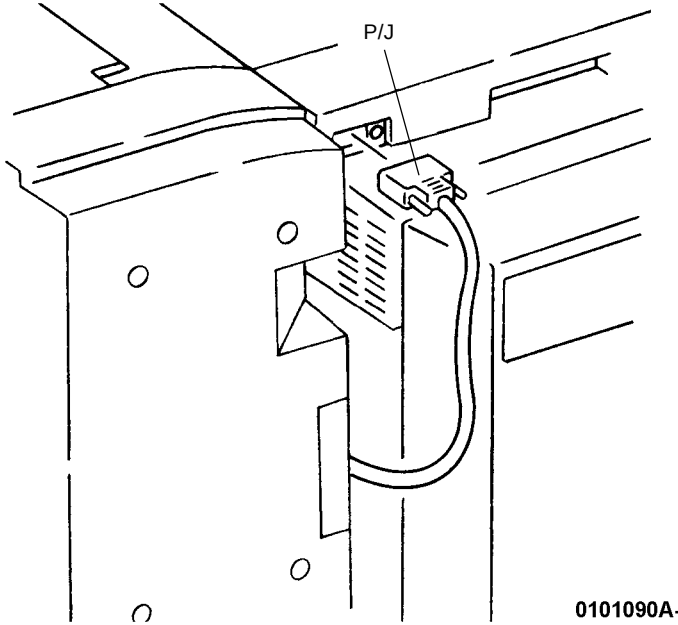

Figure 1 Disconnecting P/J

3. Lift input end of H-Transport slightly and then raise to disengage Hook (2) from the Stud on both sides (Figure 2).

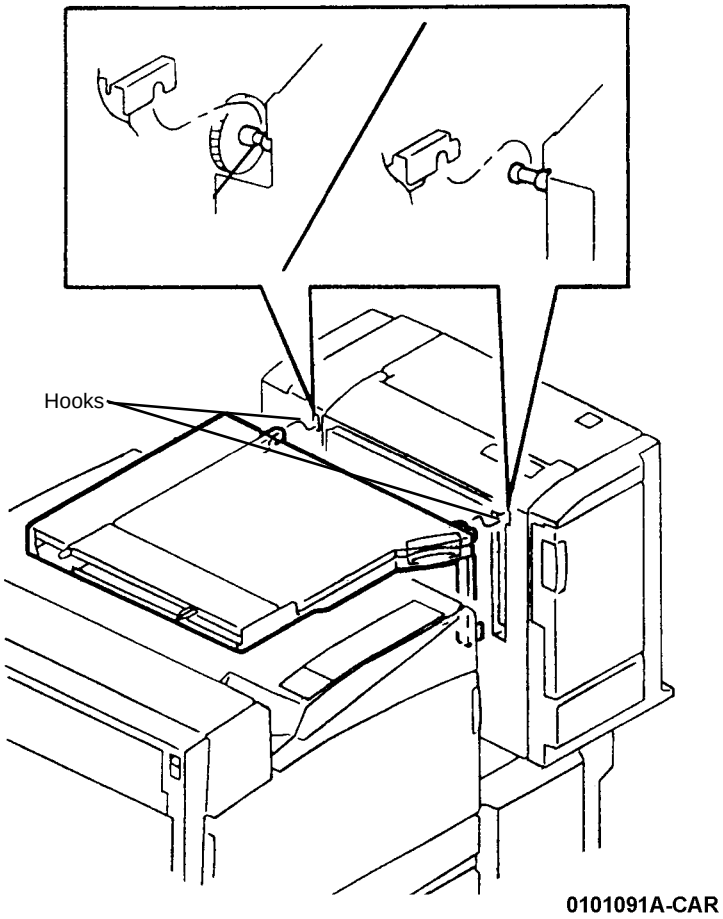

Figure 2 Removing H-Transport

REP 12.2 Office Finisher H-Transport Belt

Parts List on PL 17.4

Removal

WARNING

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

1. Remove the H-Transport Assembly (REP 12.1).
2. Remove the following parts:
   a. H-Transport Front Cover (PL 17.3)
   b. H-Transport Rear Cover (PL 17.3)
   c. Stop (PL 17.3)
3. Remove the H-Transport Cover (Figure 1).

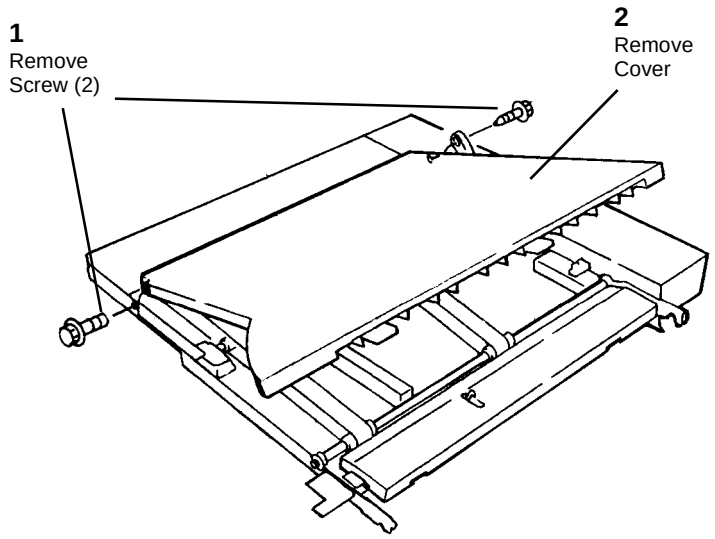

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Figure 1 Removing the H-Transport Cover

4. Remove the Gate In Solenoid Assembly (Figure 2).

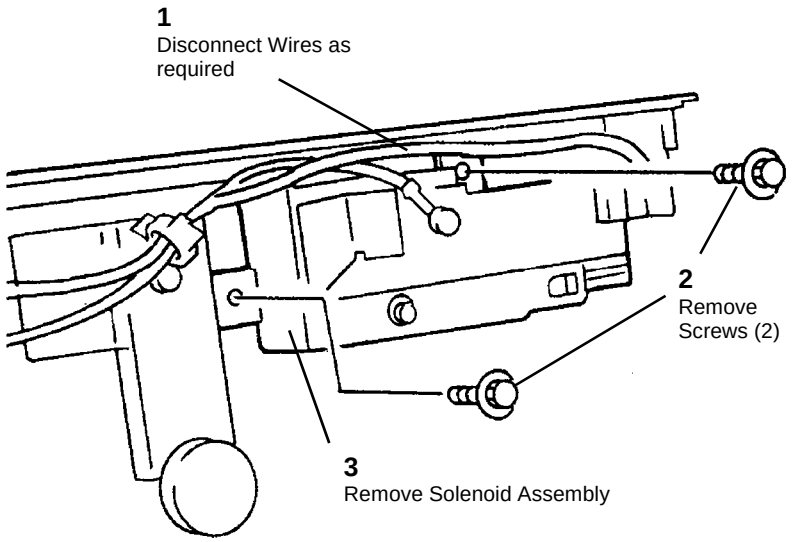

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Figure 2 Removing the Gate In Solenoid Assembly

5. Remove the Entrance Upper Cover (Figure 3)

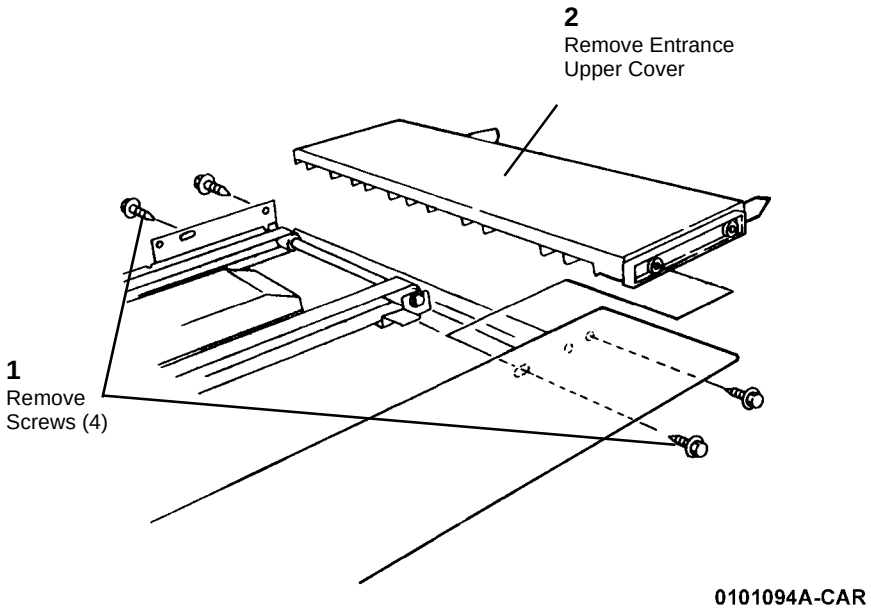

Figure 3 Removing the Entrance Upper Cover

6. Remove the input H-Transport Roll (Figure 4).

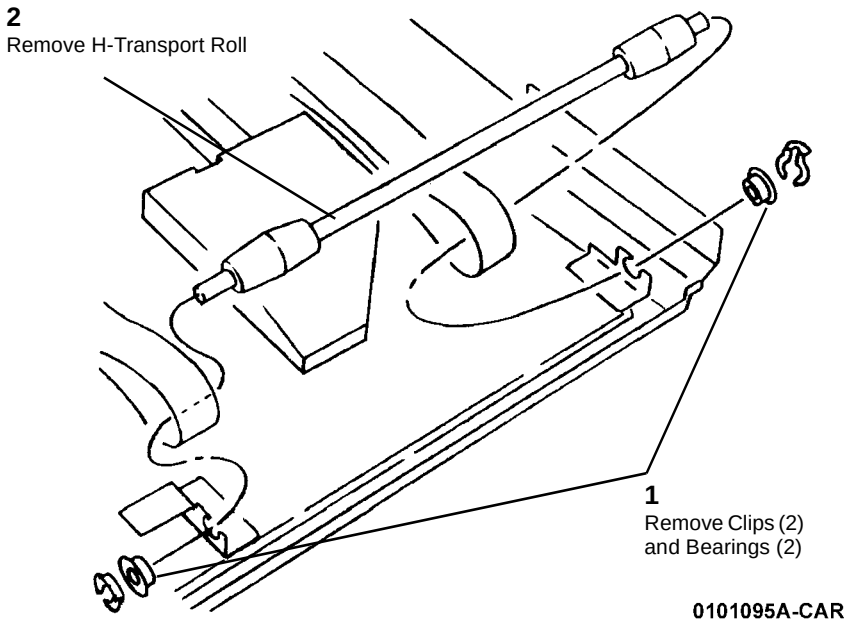

Figure 4 Removing the H-Transport Roll

7. Remove the output H-Transport Roll (Figure 5).

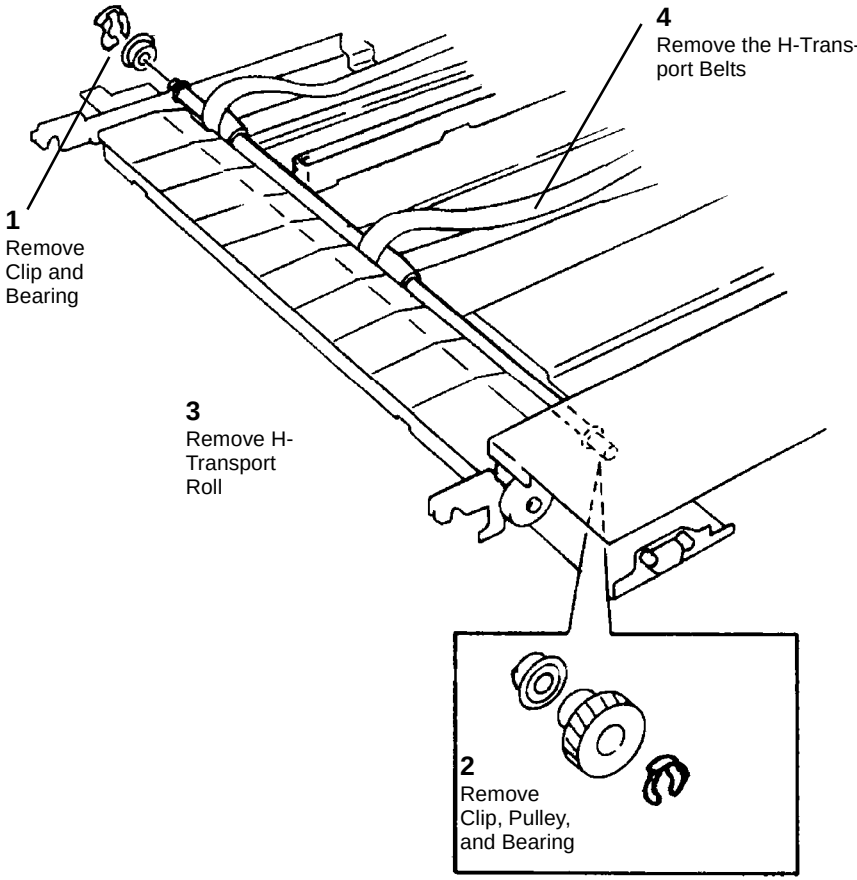

Figure 5 Removing the H-Transport Roll

REP 12.3 Office Finisher H-Transport Entrance Sensor, Top Tray Full Sensor

Parts List on PL 17.4

Removal

WARNING

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

1. Remove the H-Transport Assembly (REP 12.1).
2. Remove the following:
   a. H-Transport Front Cover (PL 17.3)
   b. H-Transport Rear Cover (PL 17.3)
   c. Stop (PL 17.3)
3. Remove the Entrance Upper Cover (REP 12.17).
4. Remove the Cover (Figure 1).
   a. Push up the hook (2).
   b. Remove the Cover, while moving it in the arrow direction.

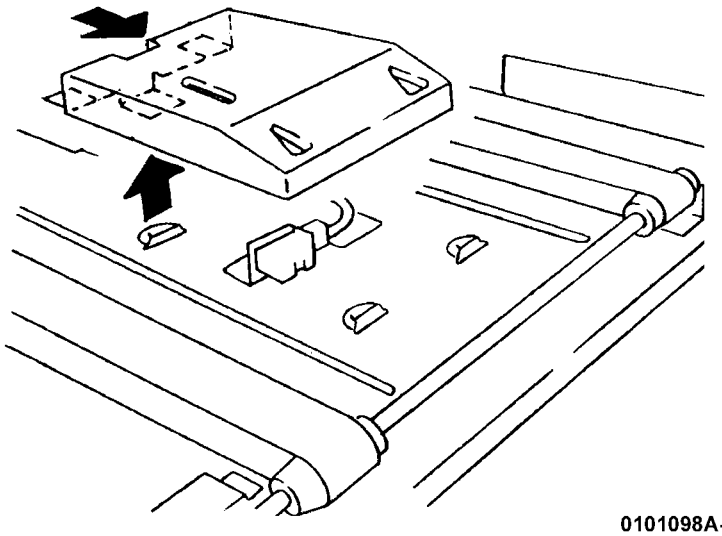

Figure 1 Removing the Cover

5. Remove the H-Transport Entrance Sensor and Top Tray Full Sensor (Figure 2).

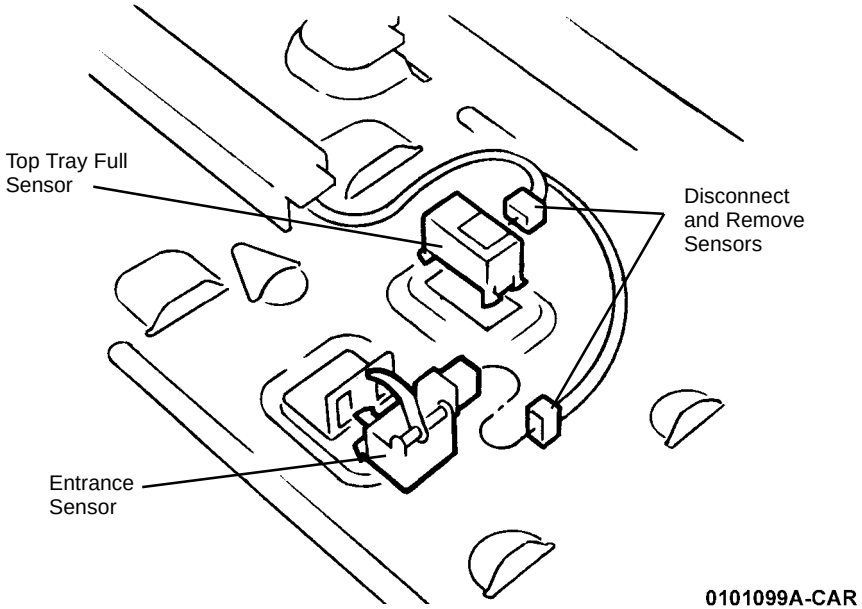

Figure 2 Removing Entrance Sensor and Top Tray Full Sensor

REP 12.4 Office Finisher/Rack Separation

Parts List on PL 17.1

Removal

CAUTION

It is recommended to have two people available to remove the Finisher. The Finisher Unit weighs more than 16Kg.

When one person is available, detach the unit following the Steps provided which will make the Finisher weigh less than 16Kg. Take extreme care to avoid lower back injury.

1. Separate IIT and IOT.
2. Remove the following parts:
   a. H-Transport Assembly (REP 12.2)
   b. Stacker Tray (PL 17.1)
   c. Right Lower Cover (PL 17.5)
3. Remove the Thumbscrews (2) (Figure 1).

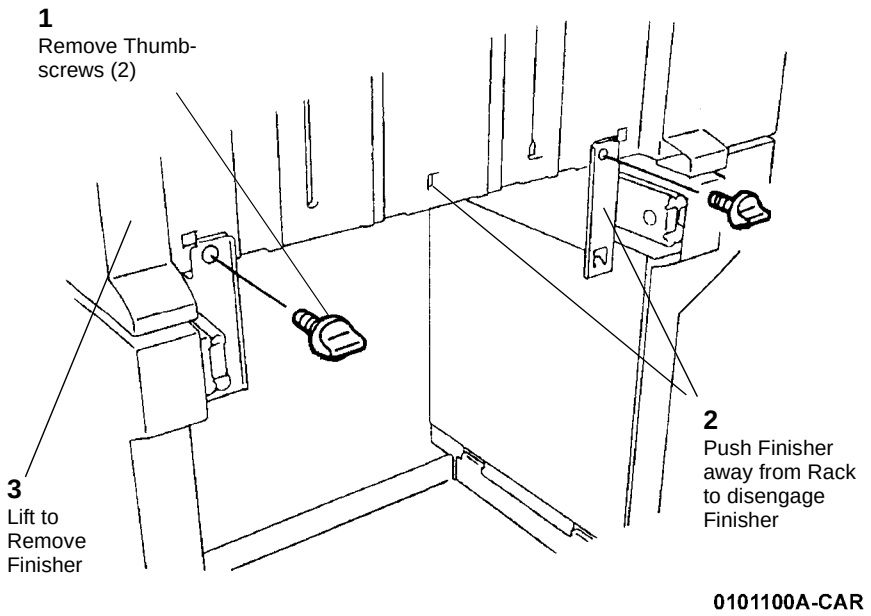

Figure 1 Removing Thumbscrews

4. Lift the Finisher from the Rack (Figure 2).

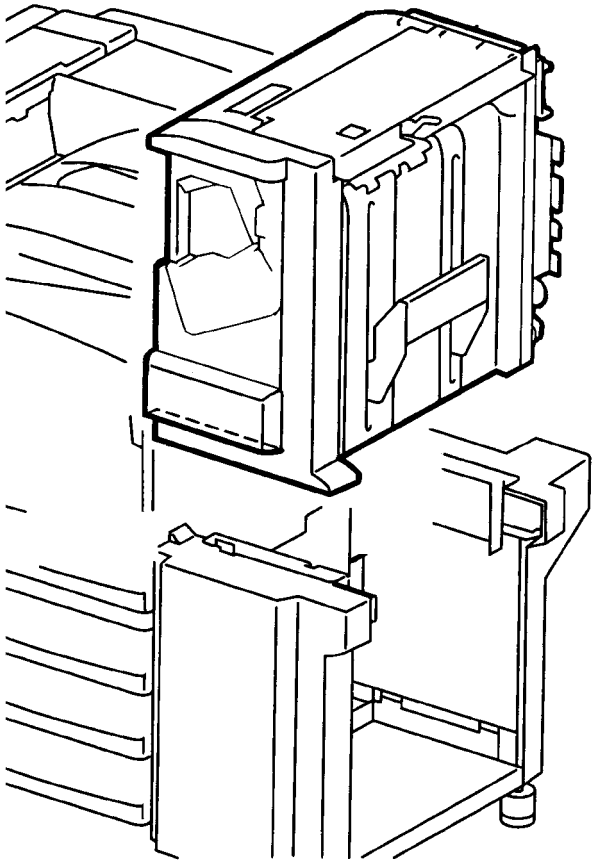

Figure 2 Removing Finisher from Rack

REP 12.5 Office Finisher Stack Height Sensor Assembly

Parts List on PL 17.6

Removal

WARNING

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

1. Remove the Links from the Top Cover Assembly (Figure 1).

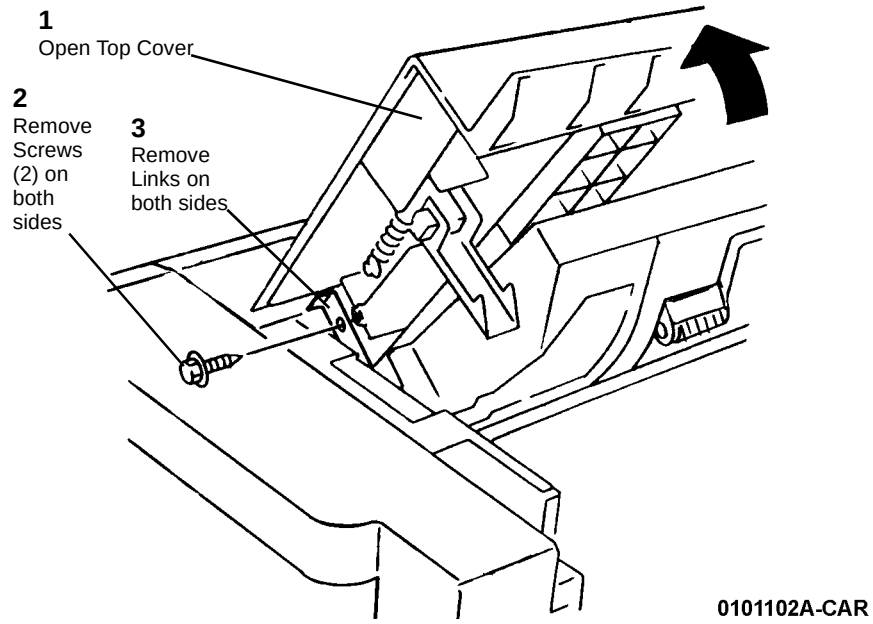

Figure 1 Removing Links from Top Cover Assembly

2. Remove the Stack Height Sensor Assembly (Figure 2).

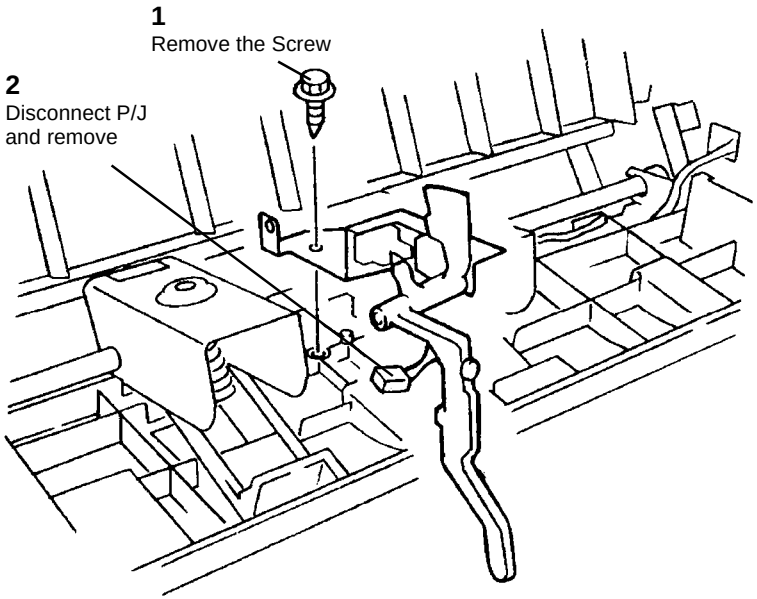

Figure 2 Removing Stack Height Sensor Assembly

REP 12.6 Office Finisher Eject Roll Assembly

Parts List on PL 17.6

Removal

WARNING

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

1. Remove the following parts:
   a. Rear Cover (PL 17.5)
   b. Stacker Tray (PL 17.1)
   c. Right Cover (PL 17.5)
   d. Front Cover (PL 17.5)
2. Remove the Bracket (Figure 1).

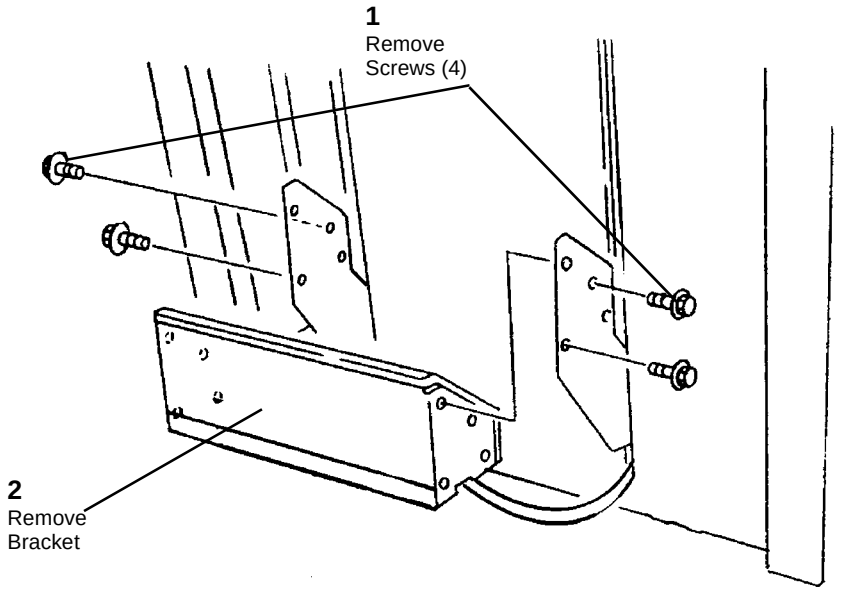

Figure 1 Remove the Bracket

3. Disconnect P/J (Figure 2).

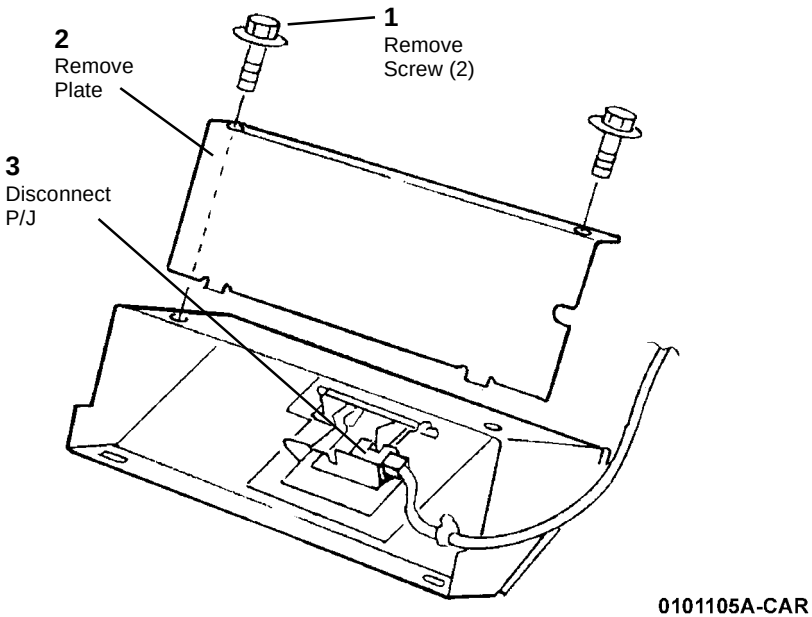

Figure 2 Disconnecting P/J

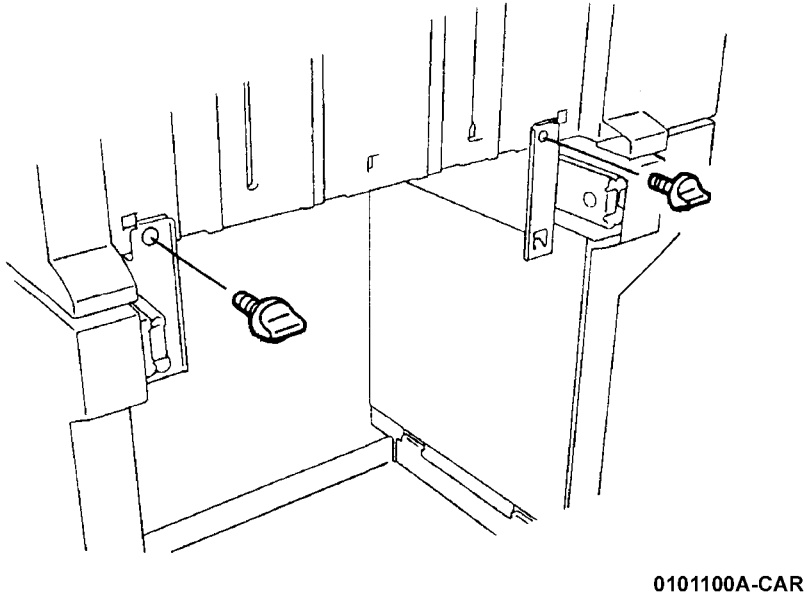

Figure 3 Removing Thumbscrews

4. Remove the Thumbscrews (2) (Figure 3).

5. Remove the Tray Guide (Figure 4).

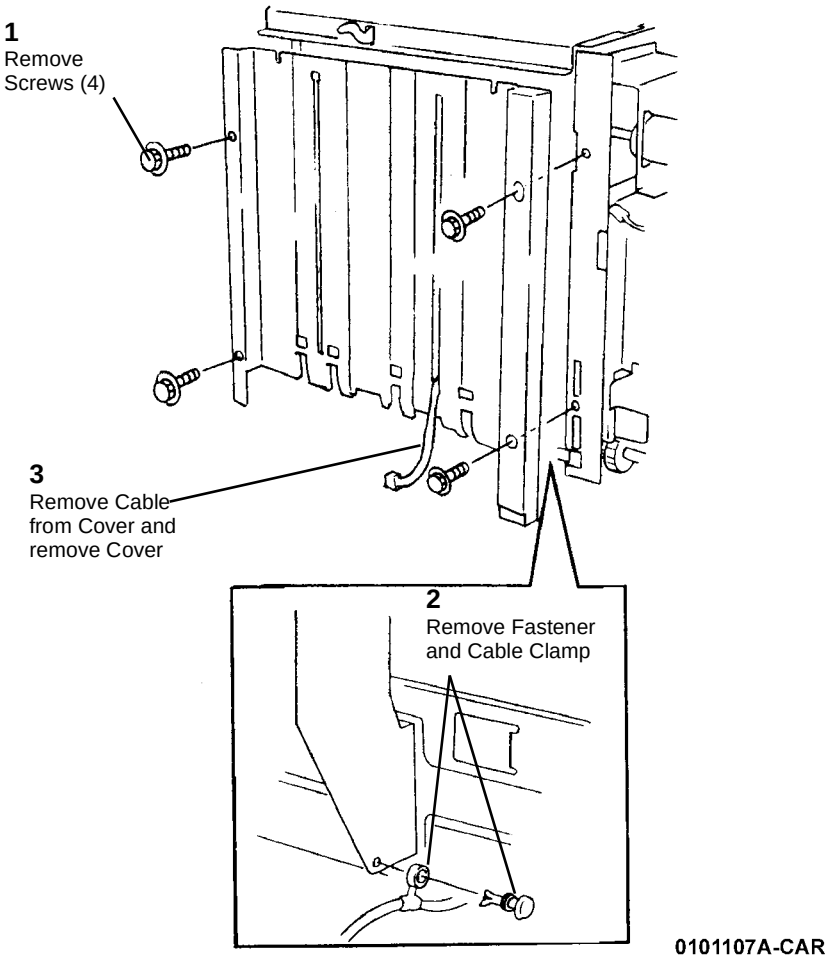

Figure 4 Removing Tray Guide

6. Remove the Sensor (Figure 5).

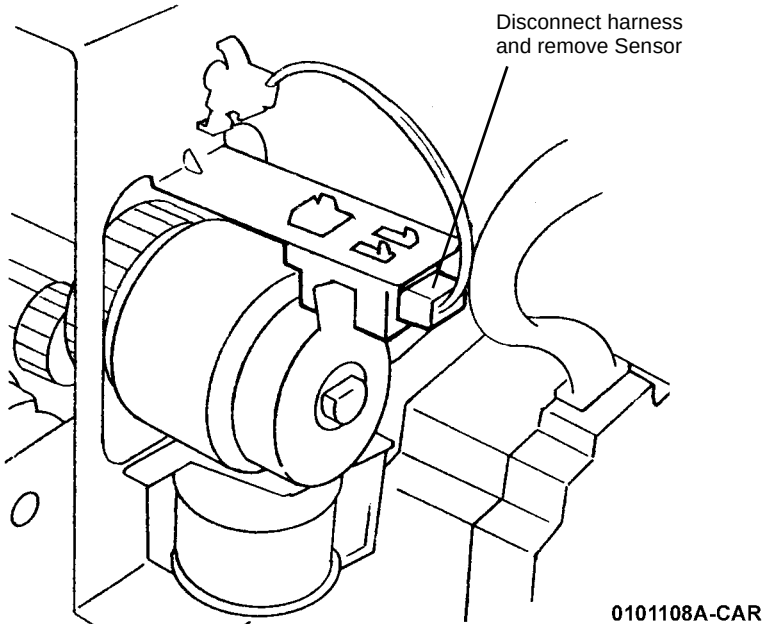

Figure 5 Remove Sensor

7. Remove Eject Roll (Figure 6).

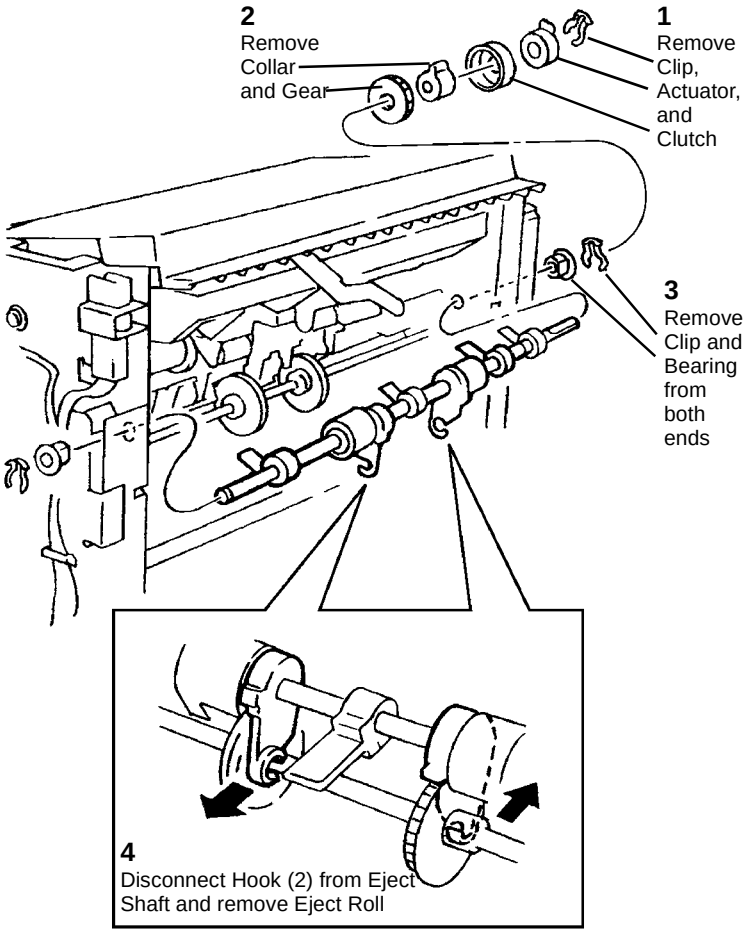

Figure 6 Removing Eject Roll

8. Remove Eject Shaft (Figure 7).

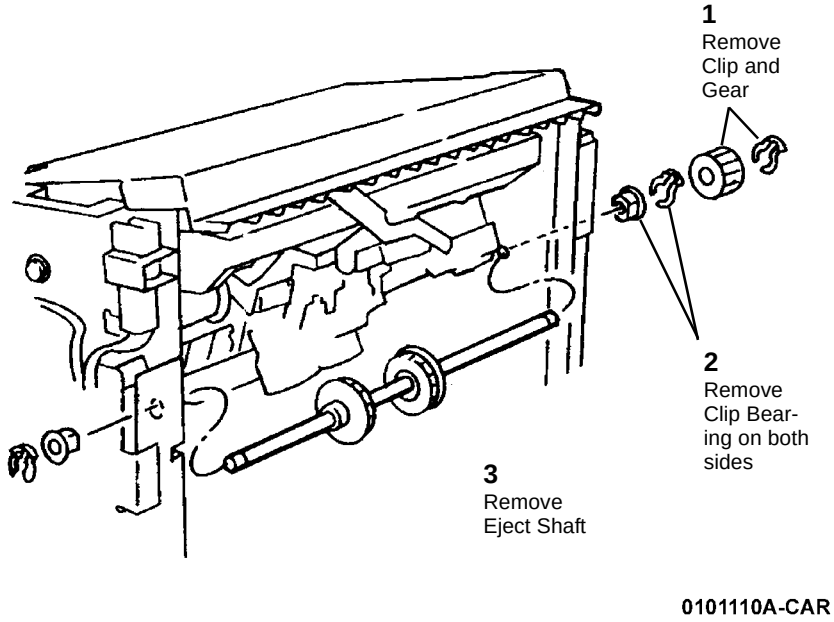

Figure 7 Removing Eject Shaft

Replacement

NOTE: *When replacing Feed Roll or Eject Shaft, replace them simultaneously.*

NOTE: *When installing the Clutch, ensure to insert the Stop into Clutch grooves (Figure 8).*

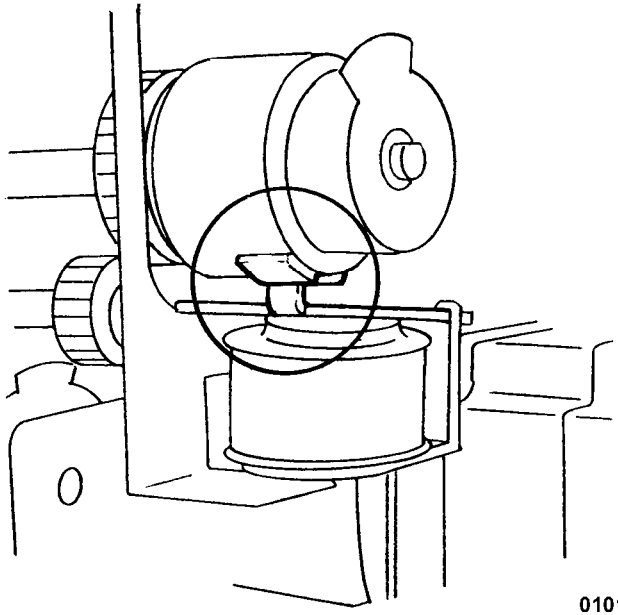

Figure 8 Inserting Stop into Clutch Grooves

REP 12.7 Office Finisher Decurler Roll

Parts List on PL 17.7

Removal

WARNING

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

1. Remove the following parts:
   a. Front Cover (PL 17.5)
   b. Rear Cover (PL 17.5)
   c. Top Cover (PL 17.5)
2. Remove the Arm (Figure 1).

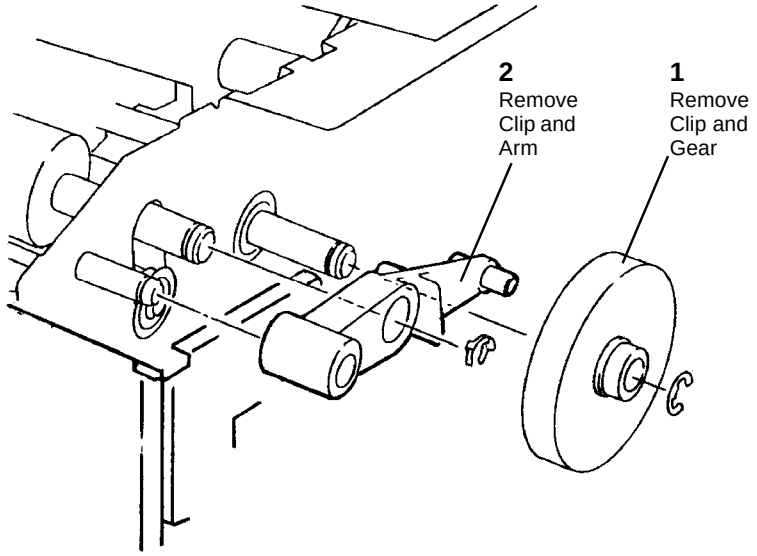

Figure 1 Removing the Arm

3. Remove the Decurler Roll (Figure 2).

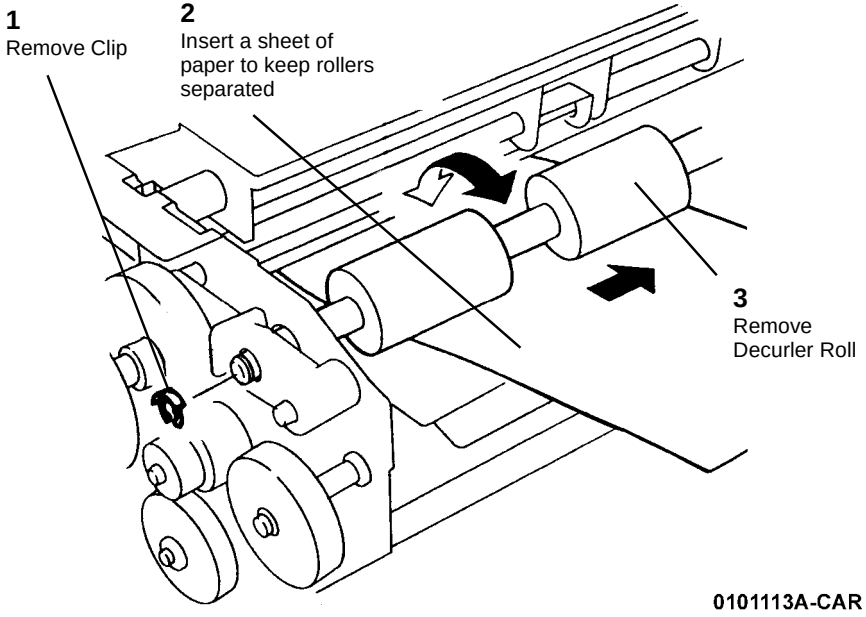

Figure 2 Removing the Decurler Roll

REP 12.8 Office Finisher Drive Motor

Parts List on PL 17.7

Removal

WARNING

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

1. Remove the Rear Cover (PL 17.14).
2. Remove the Finisher Drive Motor (Figure 1).

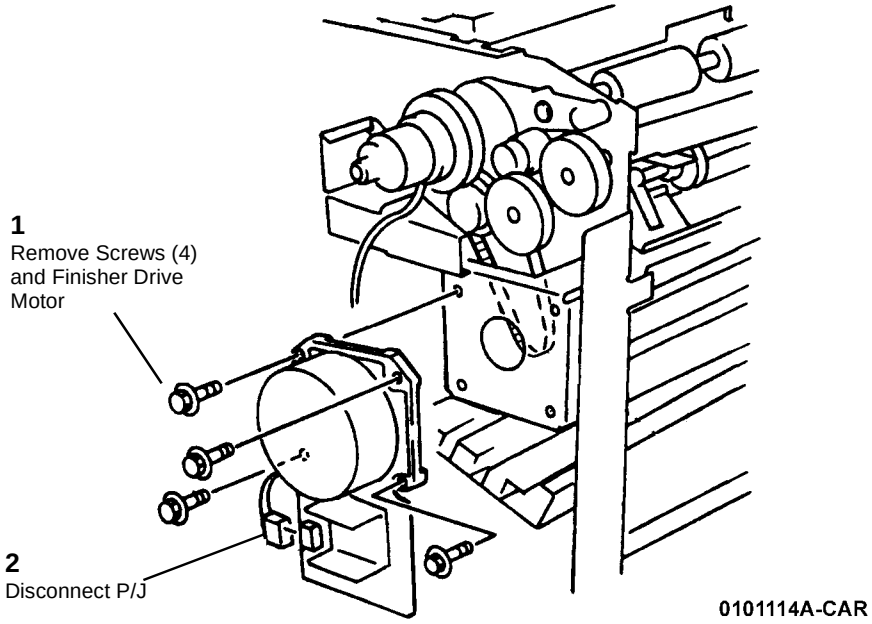

Figure 1 Removing the Finisher Drive Motor

Replacement

NOTE: *Hang the Belt to the Guide when installing the Drive Motor.*

REP 12.9 Office Finisher Drive Belt

Parts List on PL 17.7

Removal

WARNING

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

1. Remove the Rear Cover (PL 17.5)
2. Rotate the Actuator (Figure 1).

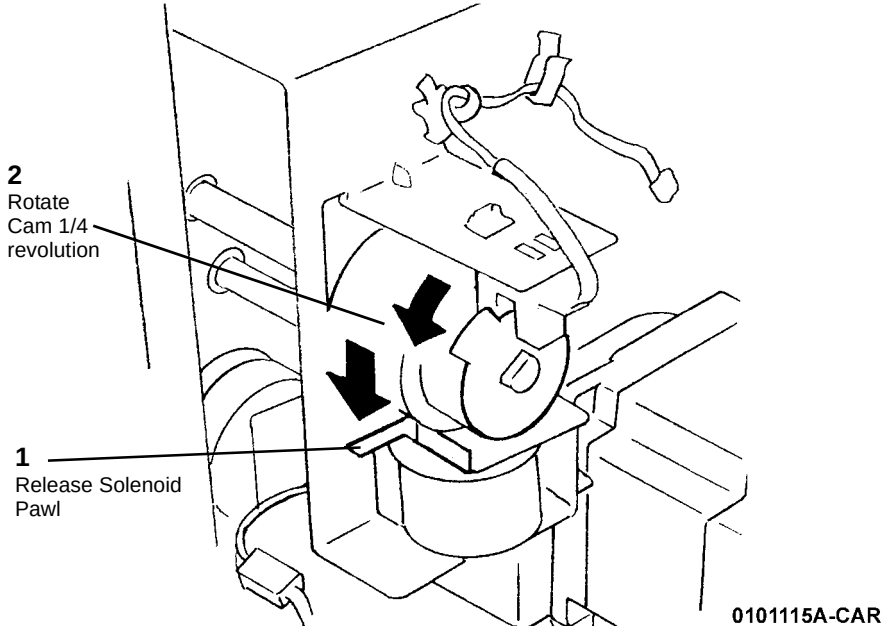

Figure 1 Rotate the Actuator

3. Release Harnesses (Figure 2).

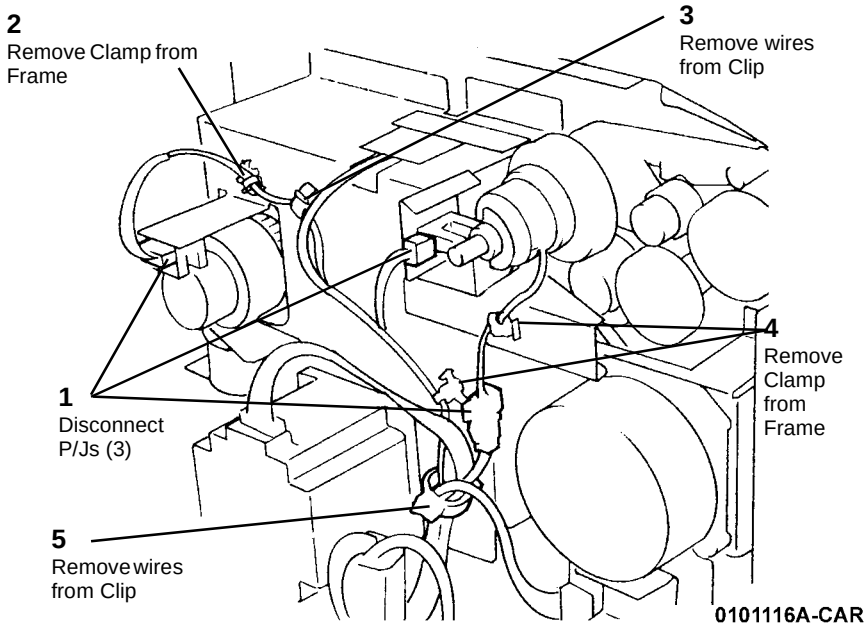

Figure 2 Releasing Harnesses

4. Remove the Cam Bracket Assembly (Figure 3).
   a. Remove the Screws (4).
   b. Remove the Cam Bracket Assembly.

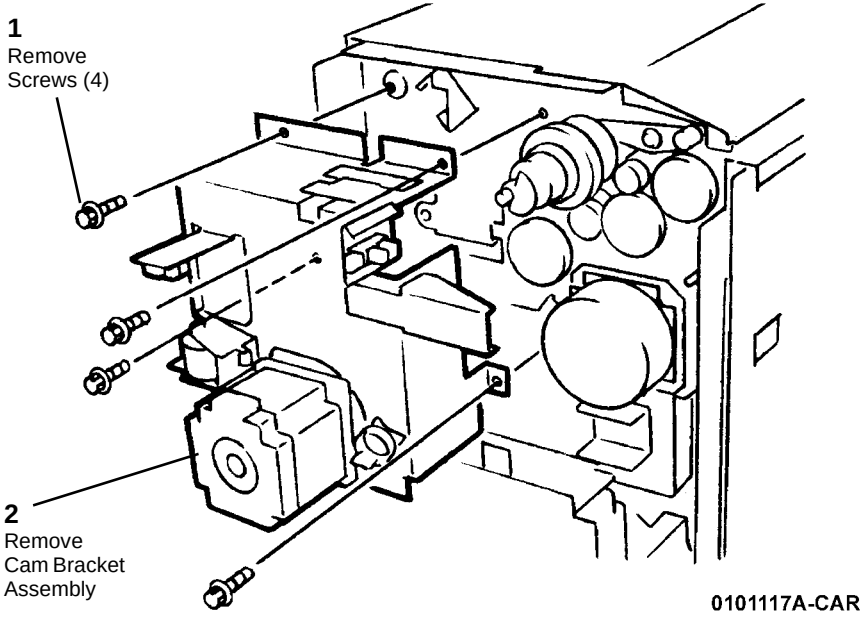

Figure 3 Removing the Cam Bracket Assembly

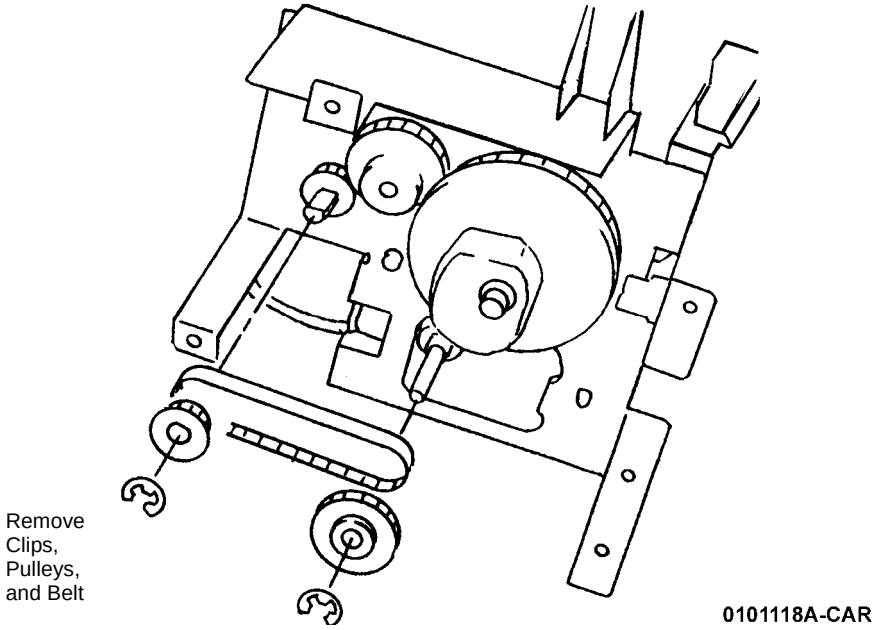

Figure 4 Removing the Belt

5. Remove the Belt (Figure 4).

Replacement

NOTE: *During assembly, refer to Figure 5.*

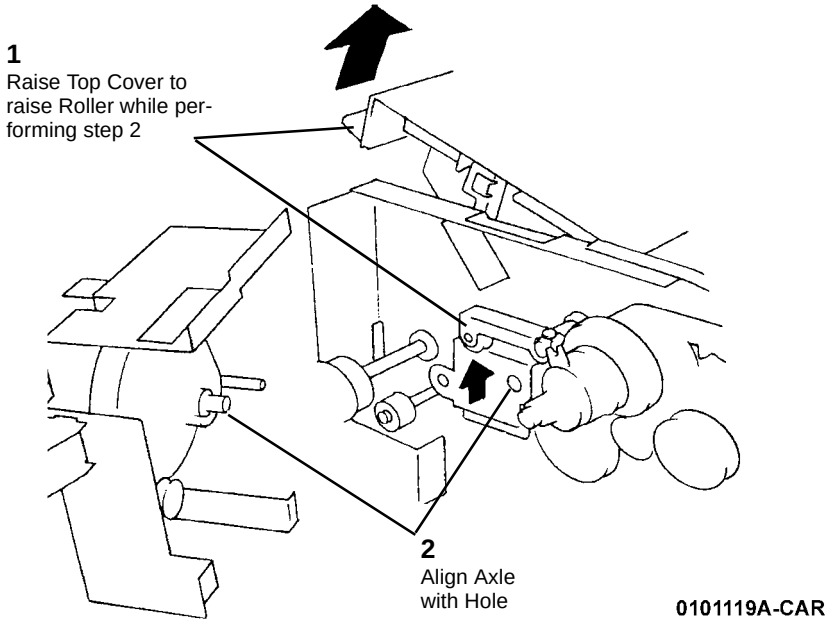

Figure 5 Inserting Axle of Cam Bracket Assembly into Hole

NOTE: *During assembly, refer to Figure 6.*

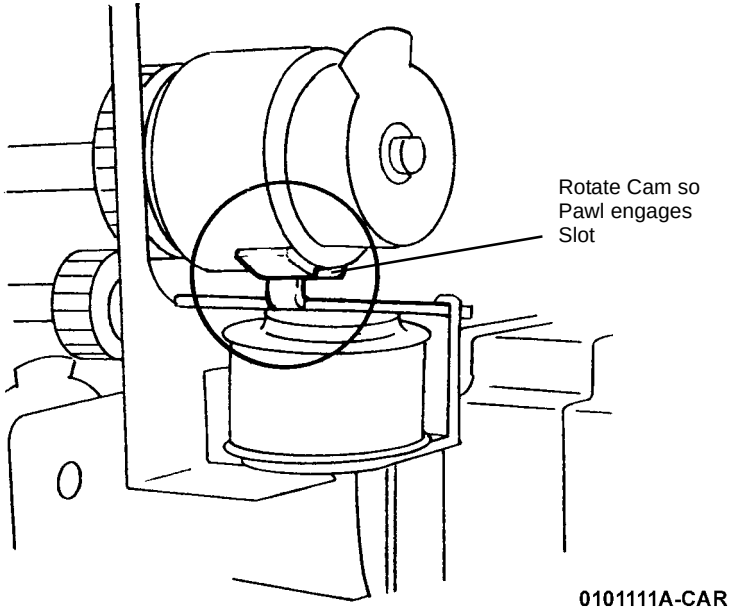

Figure 6 Engaging Pawl with Slot

REP 12.10 Office Finisher Stapler Rail

Parts List on PL 17.9

Removal

WARNING

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

1. Remove the following:
   a. Front Cover (PL 17.5)
   b. Rear Cover (PL 17.5)
2. Remove Harness from Stapler (Figure 1).

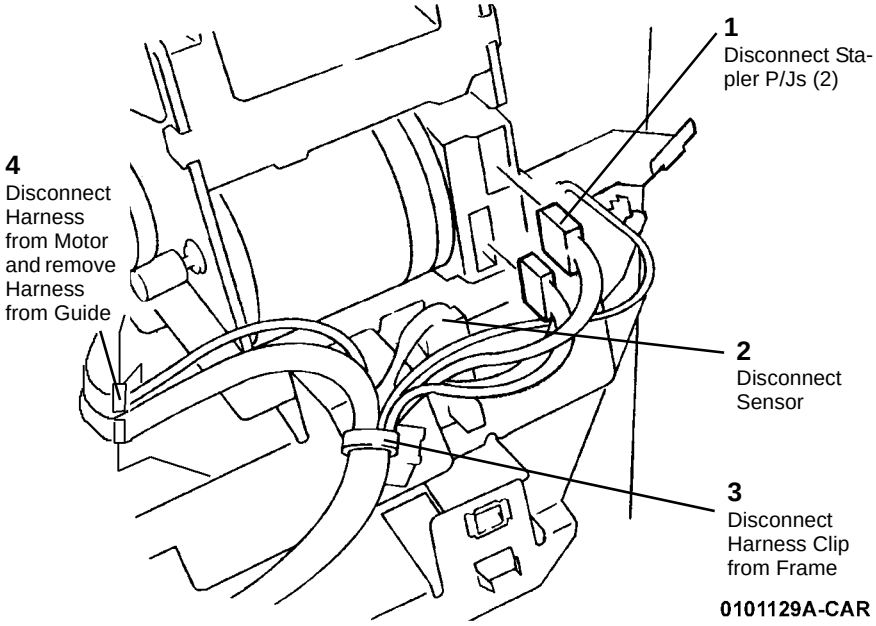

Figure 1 Removing Harness from Stapler

3. Remove Stapler Assembly (Figure 2).

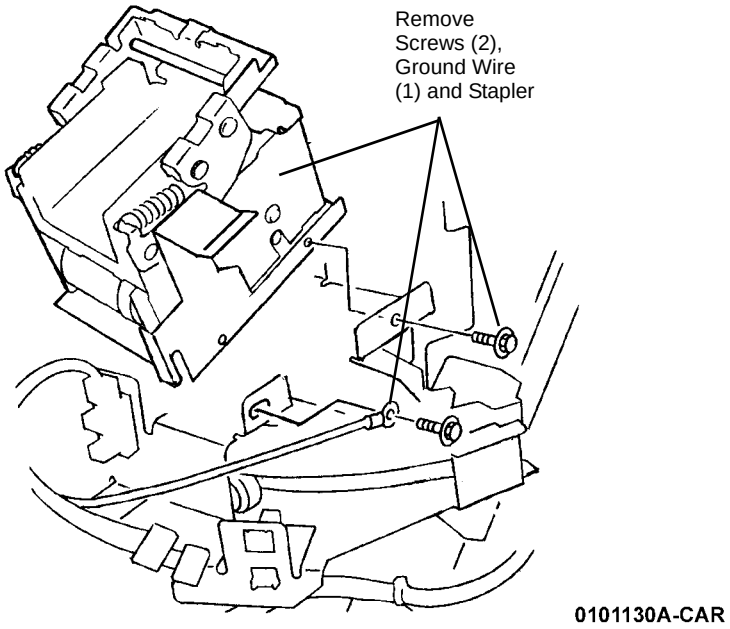

Figure 2 Removing Stapler Assembly

4. Remove the PWB Cover (Figure 3).

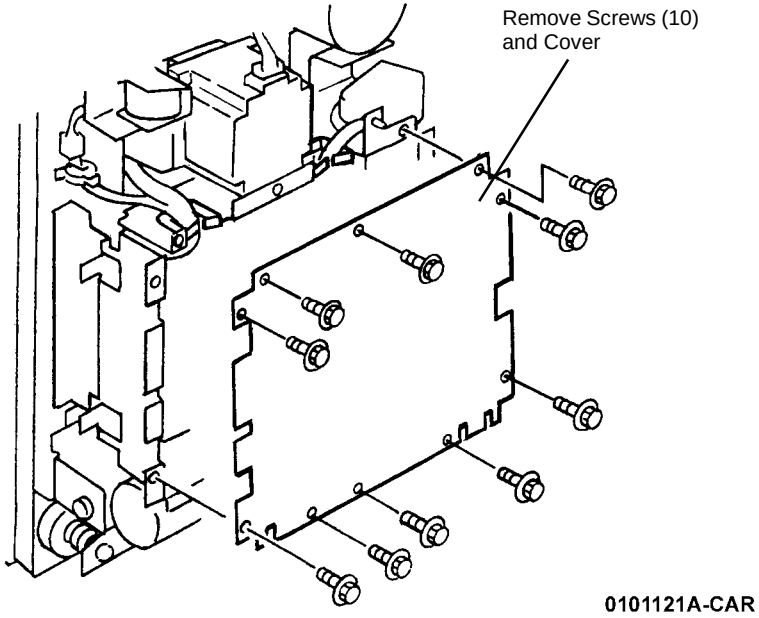

Figure 3 Removing the PWB Cover

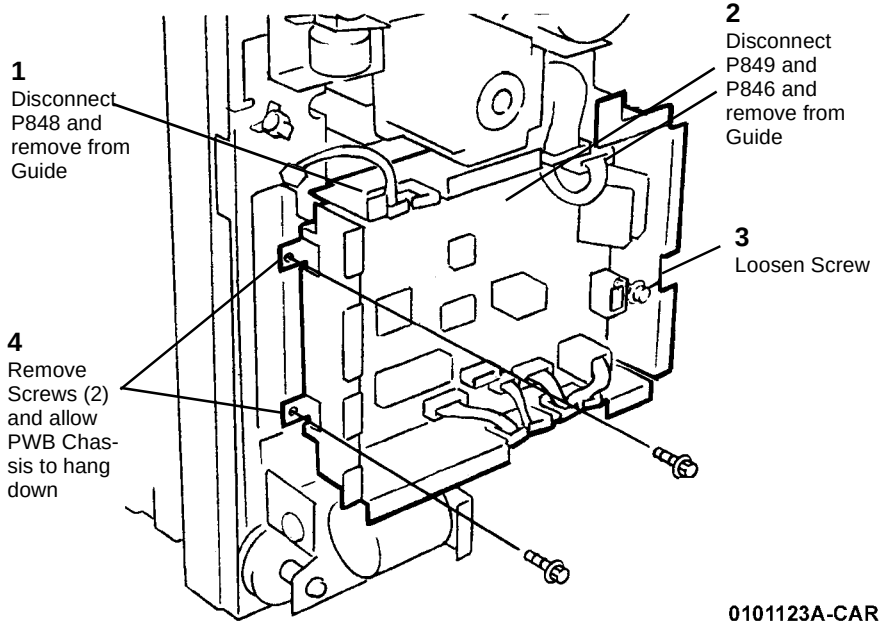

Figure 4 Moving PWB Chassis Down

5. Move the PWB Chassis down (Figure 4).

6. Remove Rear Rail Mounting Screws (2) (Figure 5).

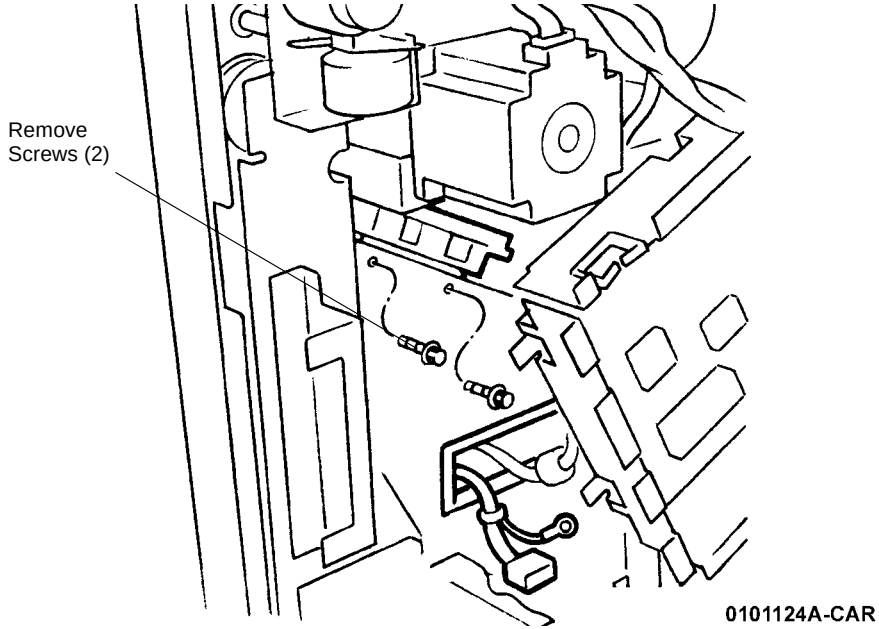

Figure 5 Removing Rear Rail Mounting Screws (2)

7. Remove Front Rail Mounting Screws (2) (Figure 6).

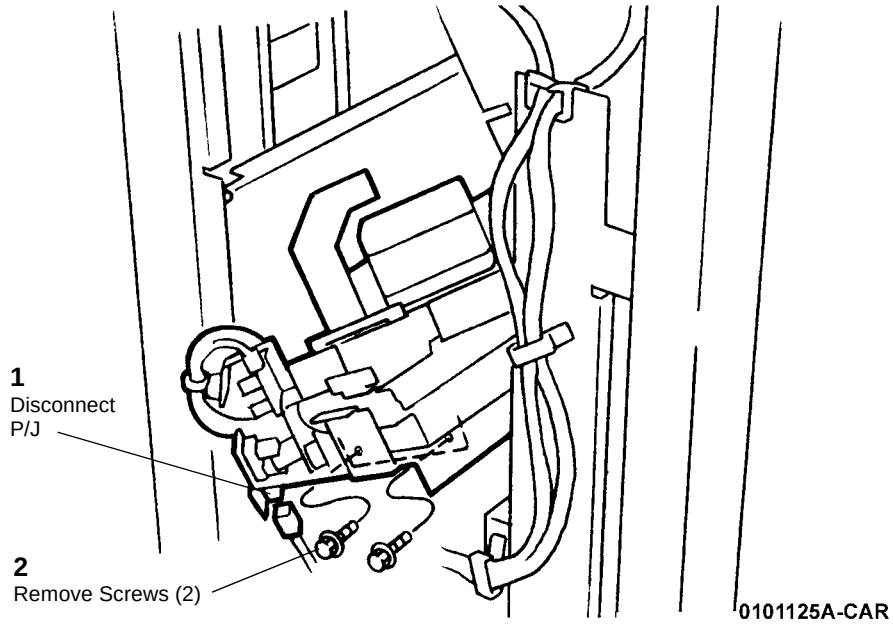

Figure 6 Removing Front Rail Mounting Screw

8. Remove the Rail Assembly (Figure 7).

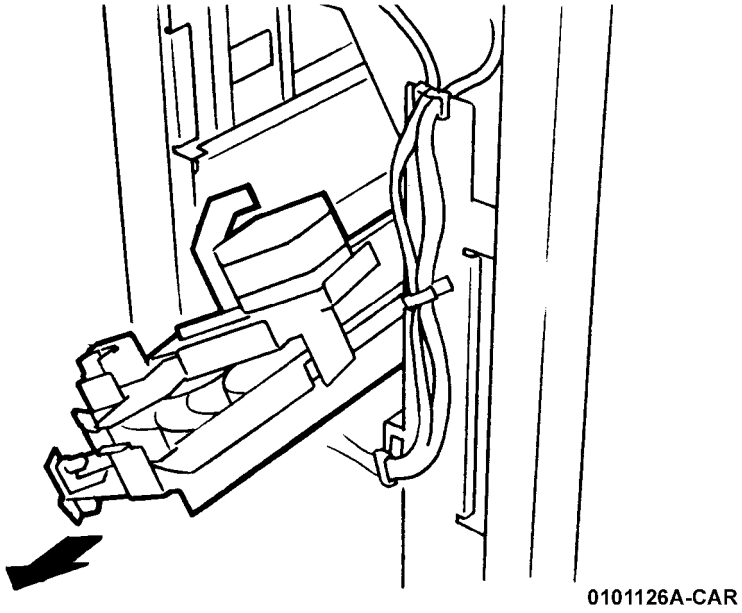

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Figure 7 Removing Rail Assembly

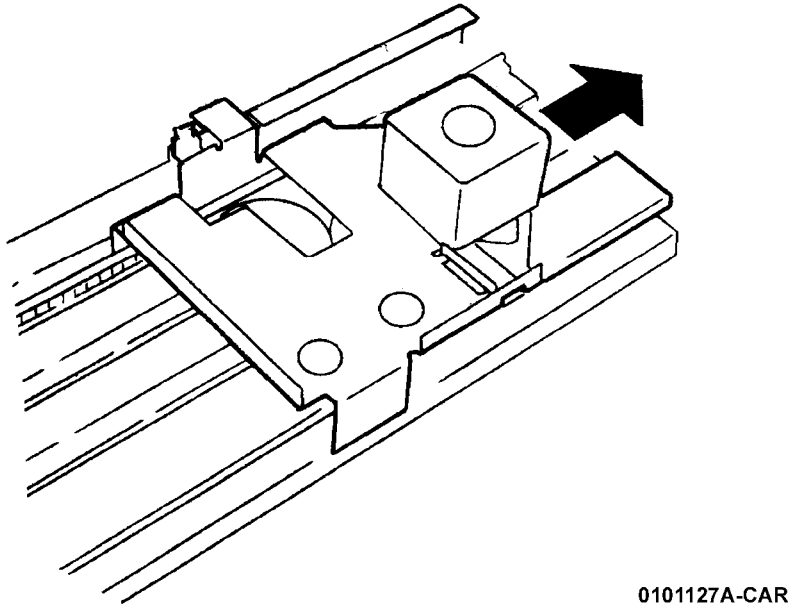

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Figure 8 Removing the Carriage Assembly

9. Remove the Carriage Assembly (Figure 8).

10. Remove Screws (5) and remove Rail (Figure 9).

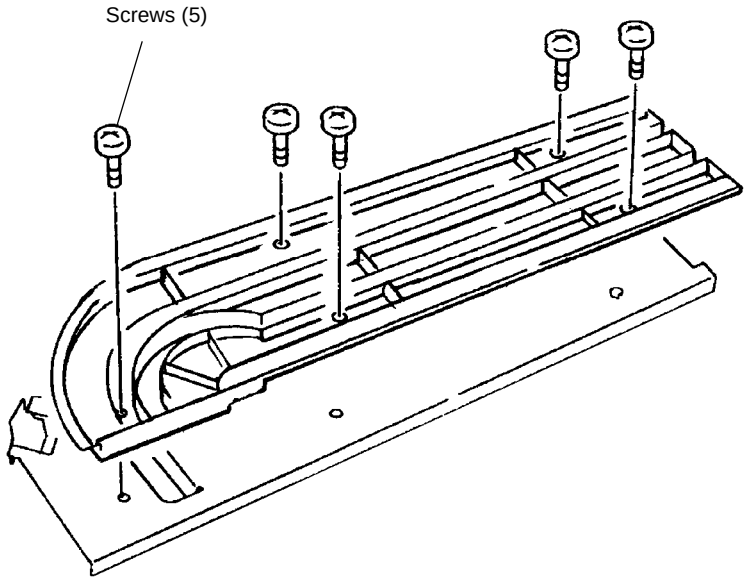

Figure 9 Removing Rail

REP 12.11 Office Finisher Stapler Assembly

Parts List on PL 17.9

Removal

WARNING

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

1. Open the Front Cover.
2. Disconnect Stapler P/J's (2) (Figure 1).

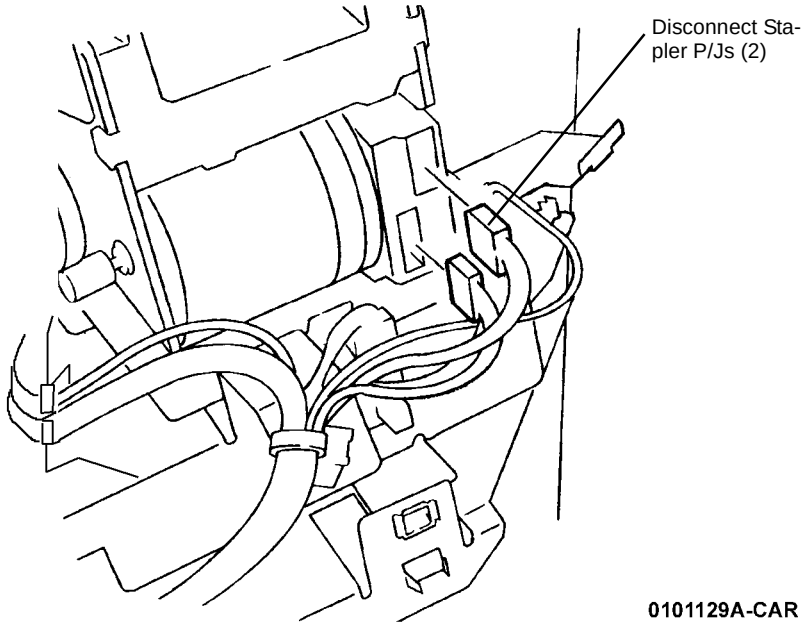

Figure 1 Disconnecting P/J's

3. Remove the Stapler Assembly (Figure 2).

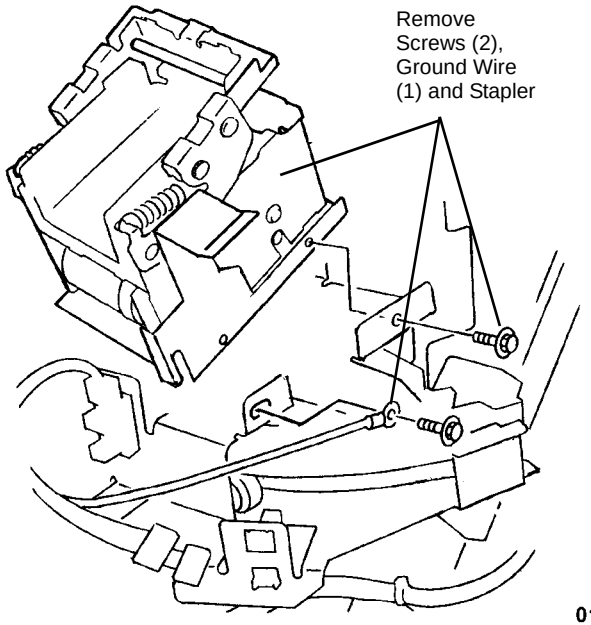

Figure 2 Removing Stapler Assembly

Replacement

NOTE: *Insert Stapler Assembly Tab into Slot (Figure 3).*

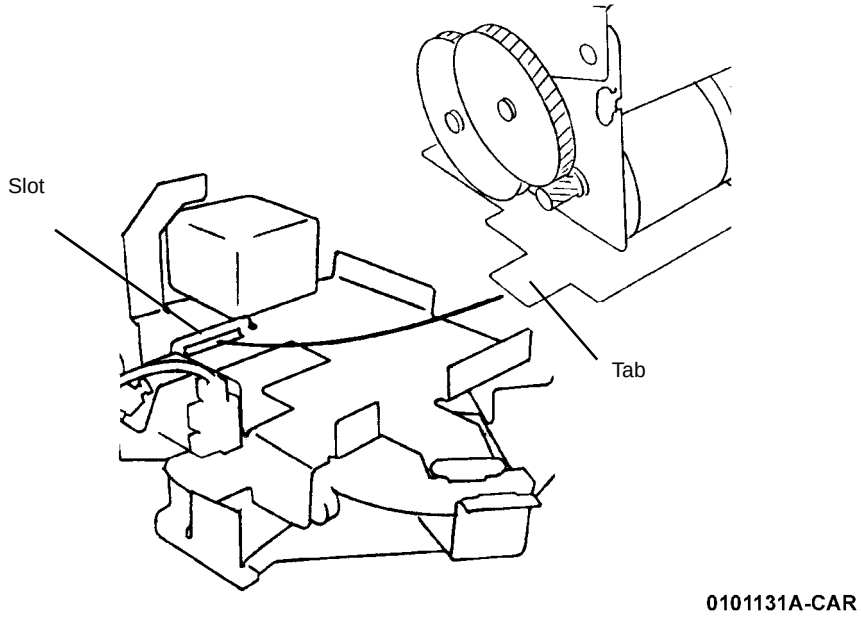

Figure 3 Inserting Tab into Slot

REP 12.12 Office Finisher Compiler Tray Assembly

Parts List on PL 17.10

Removal

WARNING

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

1. Remove the following parts:
   a. Rear Cover (PL 17.5)
   b. Stacker Tray (PL 17.1)
   c. Front Cover (PL 17.5)
2. Remove the Bracket (Figure 1).

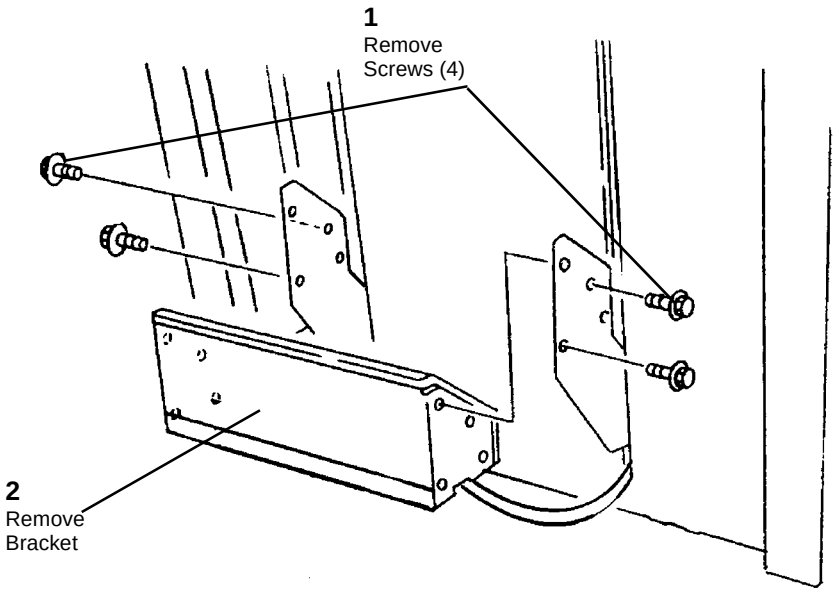

Figure 1 Remove the Bracket

3. Disconnect P/J (Figure 2).

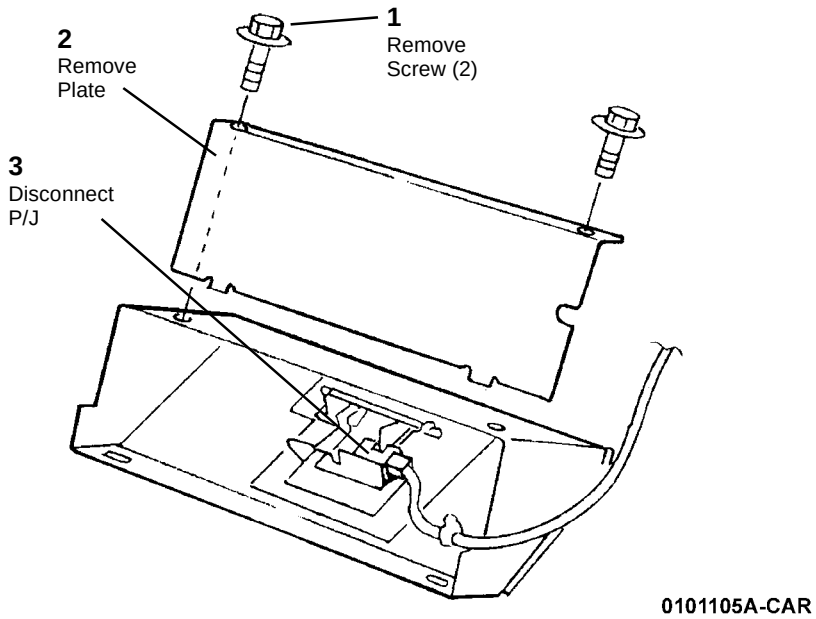

Figure 2 Disconnecting P/J

4. Remove Thumbscrews (2) (Figure 3).

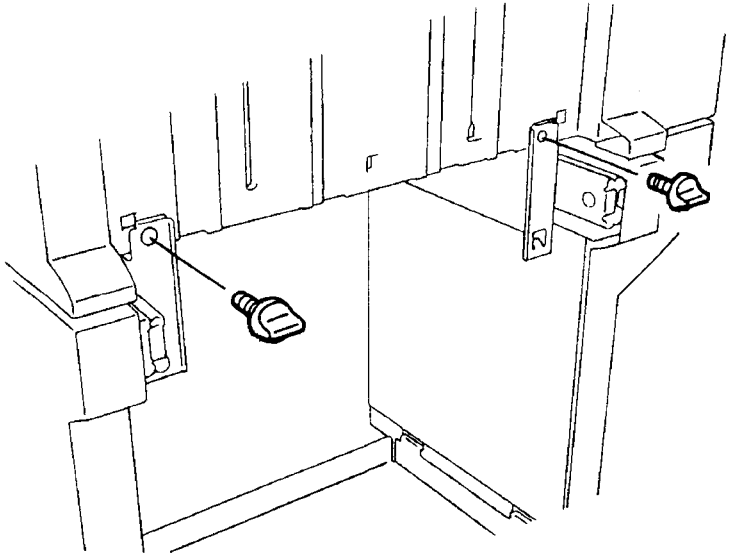

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Figure 3 Removing Thumbscrews (2)

5. Remove the Tray Guide (Figure 4).

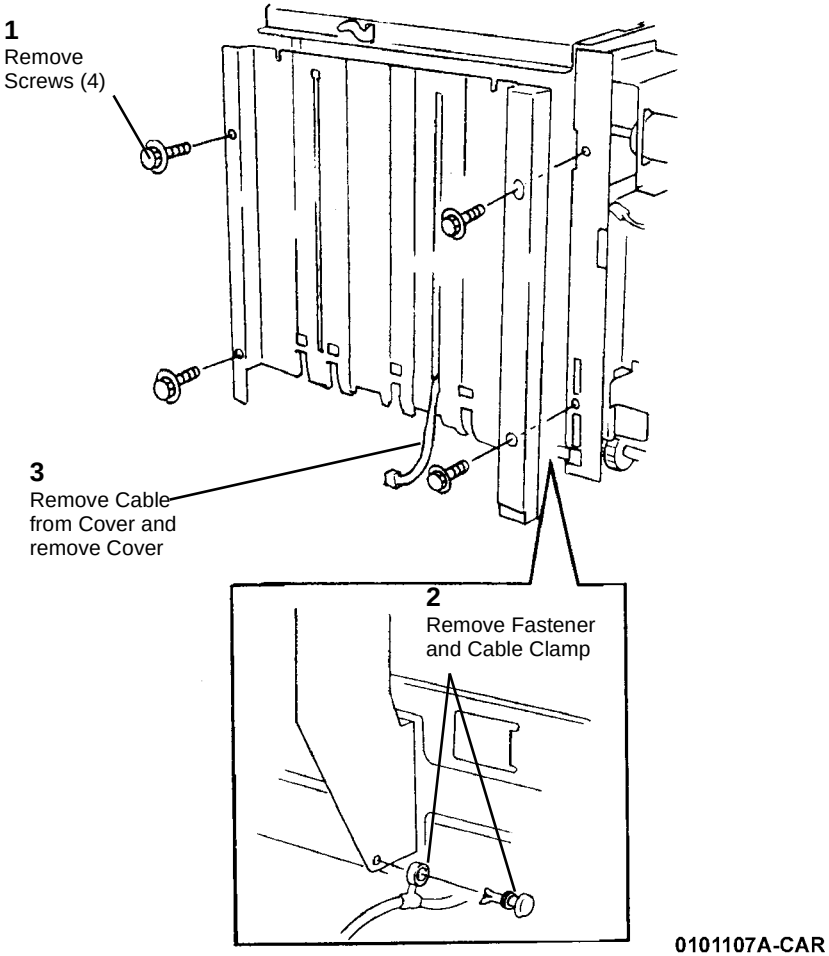

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Figure 4 Removing Tray Guide

6. Release Compiler Tray Harness (Figure 5).

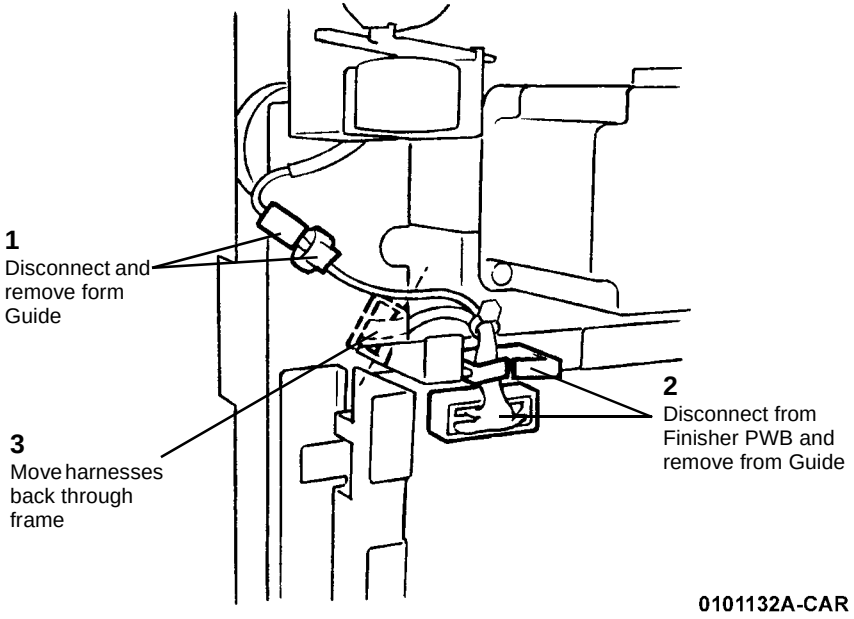

Figure 5 Releasing Compiler Tray Harness

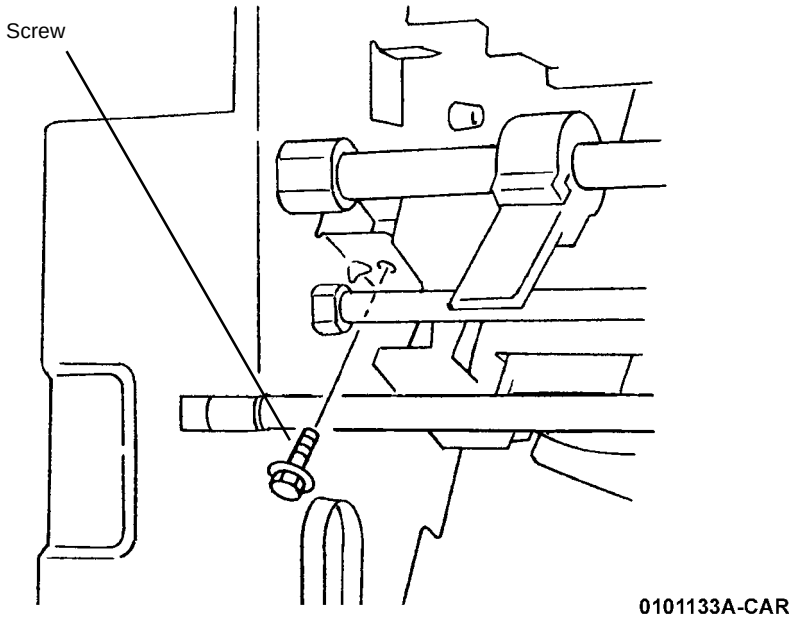

Figure 6 Removing Screw on Inboard Side

7. Remove the Screw on the Inboard side (Figure 6). Remove screw on opposite side (not shown in Figure 6).
8. Remove the Compiler Tray Assembly (Figure 7).

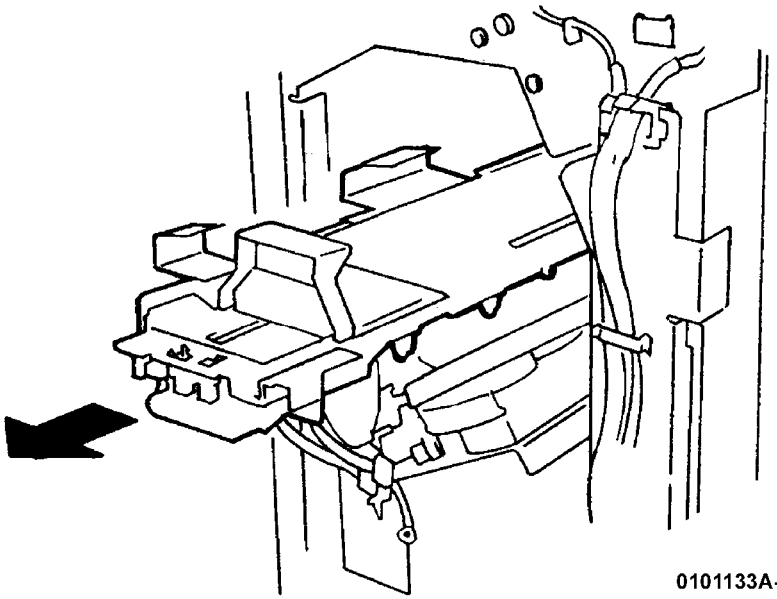

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Figure 7 Removing Compiler Tray Assembly

REP 12.13 Office Finisher Stacker Motor Assembly

Parts List on PL 17.11

Removal

WARNING

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

1. Remove the Rear Cover (PL 17.5).
2. Hold Stacker Tray and move Gear to lower the Stack Tray (Figure 1).

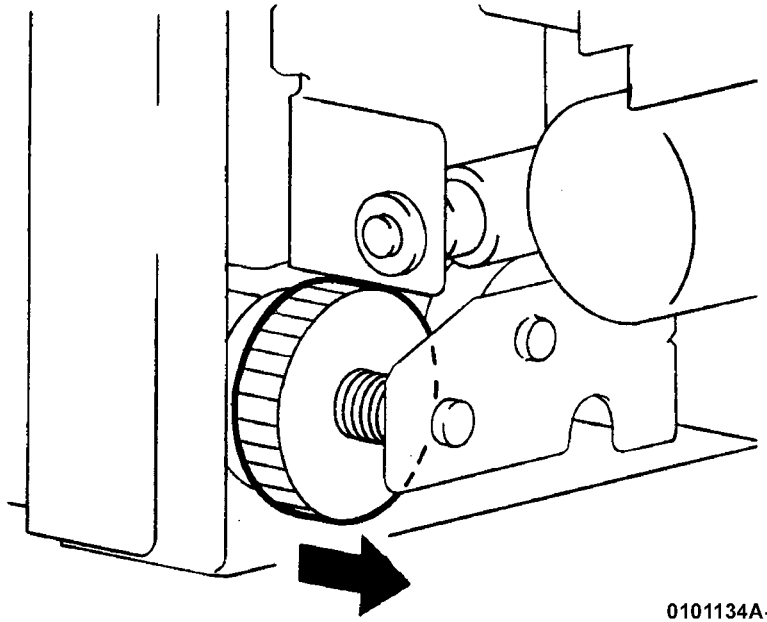

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Figure 1 Moving Gear to Lower Stack Tray

3. Remove the screws on PWB Chassis (Figure 2).

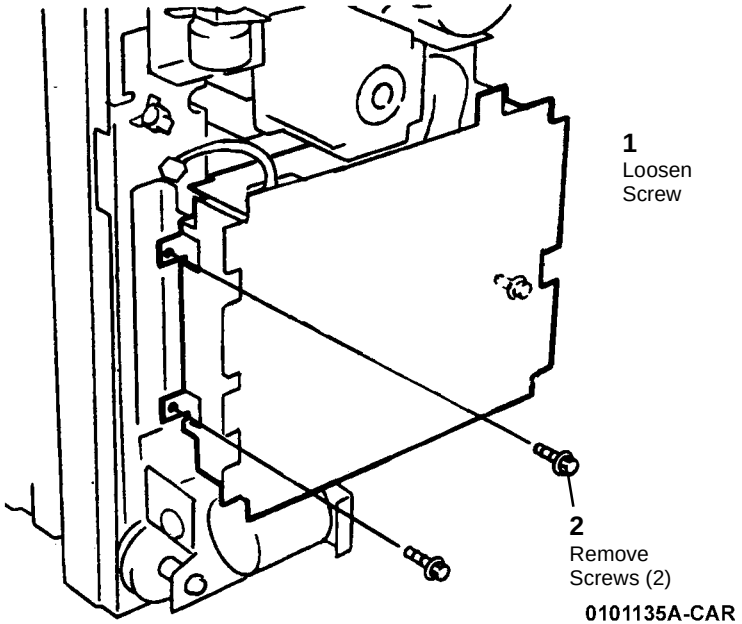

Figure 2 Removing Screws on PWB Chassis

4. Remove the Stacker Motor Assembly (Figure 3).
   a. Remove the screws (3) while sliding the PWB Chassis upward.
   b. Slide the Gear.
   c. Remove the Stacker Motor Assembly.

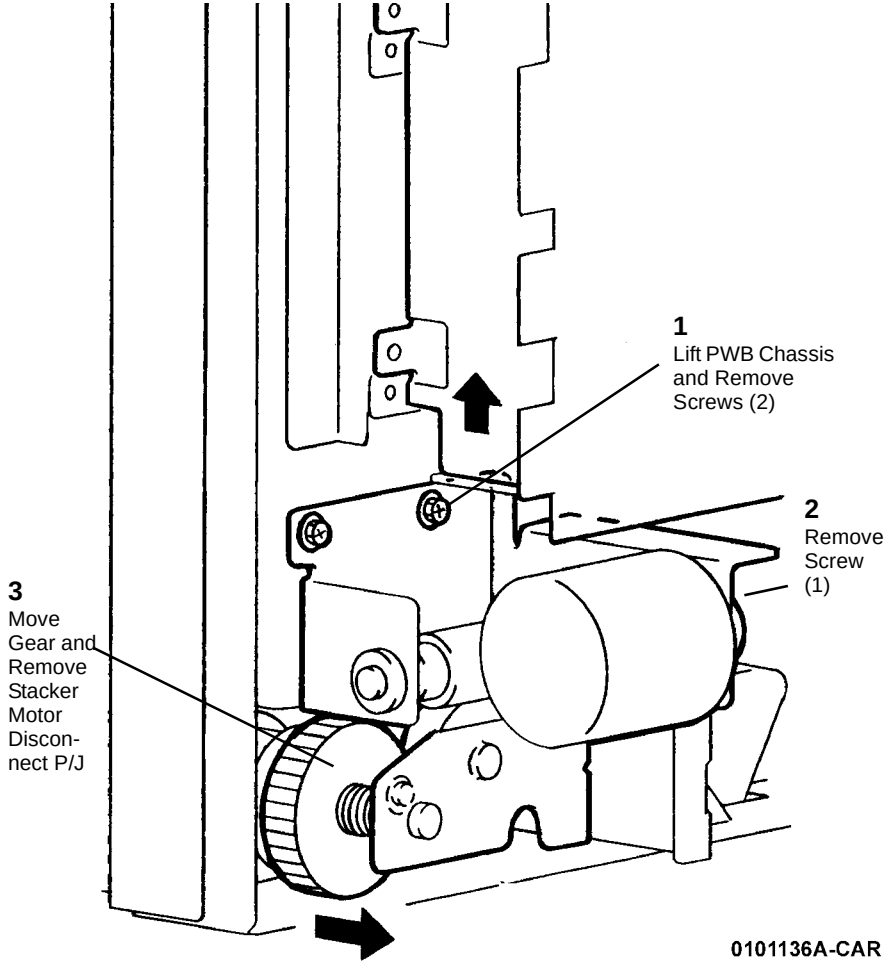

Figure 3 Removing Stacker Motor Assembly

REP 12.14 Office Finisher Front Elevator Bracket

Parts List on PL 17.11

Removal

WARNING

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

1. Remove the following parts:
   a. Rear Cover (PL 17.5)
   b. Stacker Tray (PL 17.1)
   c. Right Cover (PL 17.5)
   d. Front Cover (PL 17.5)
2. Remove the Bracket (Figure 1).

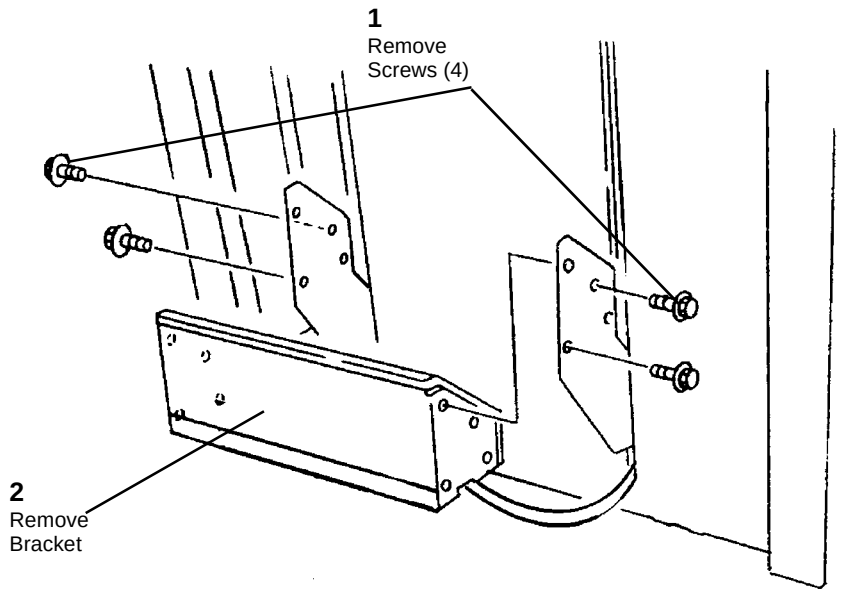

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Figure 1 Remove the Bracket

3. Disconnect P/J (Figure 2).

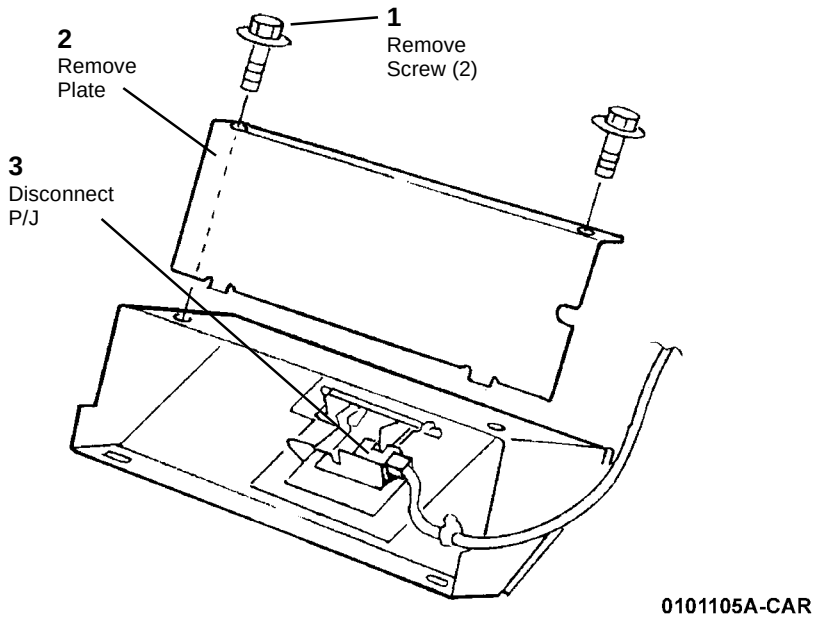

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Figure 2 Disconnecting P/J

4. Remove the Thumbscrews (2) (Figure 3).

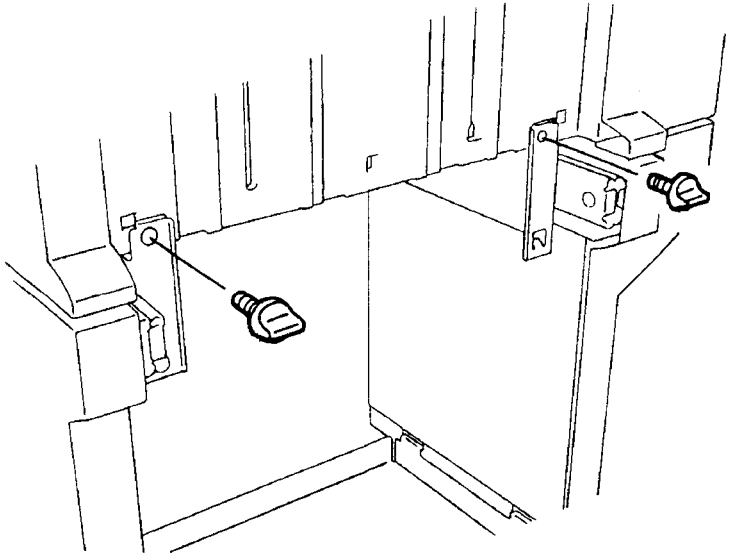

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Figure 3 Removing Thumbscrews

5. Remove the Tray Guide (Figure 4).

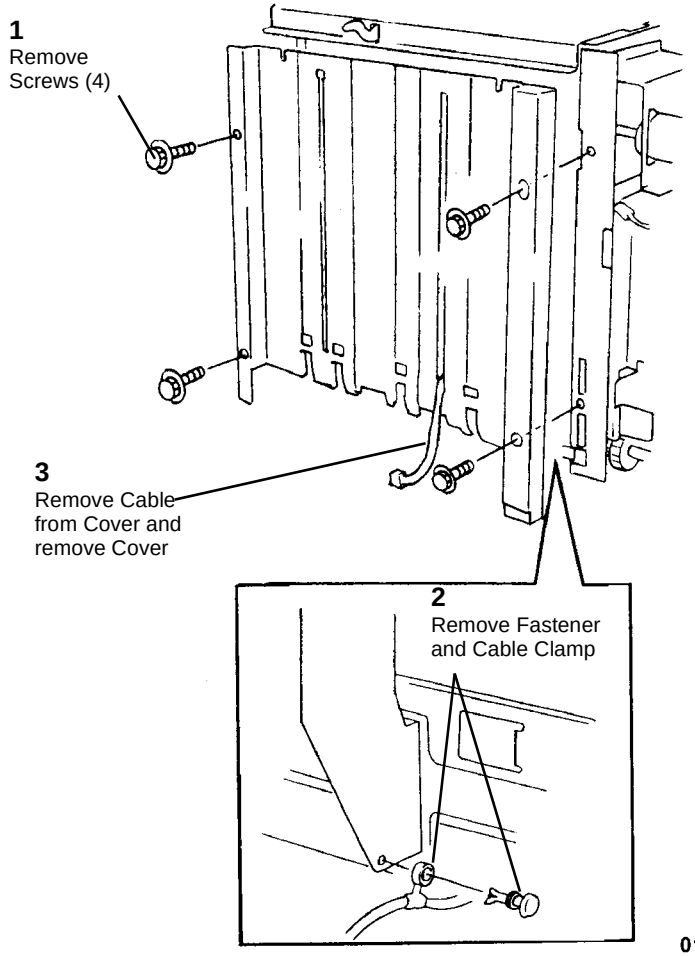

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Figure 4 Removing Tray Guide

6. Move PWB Chassis (Figure 5).

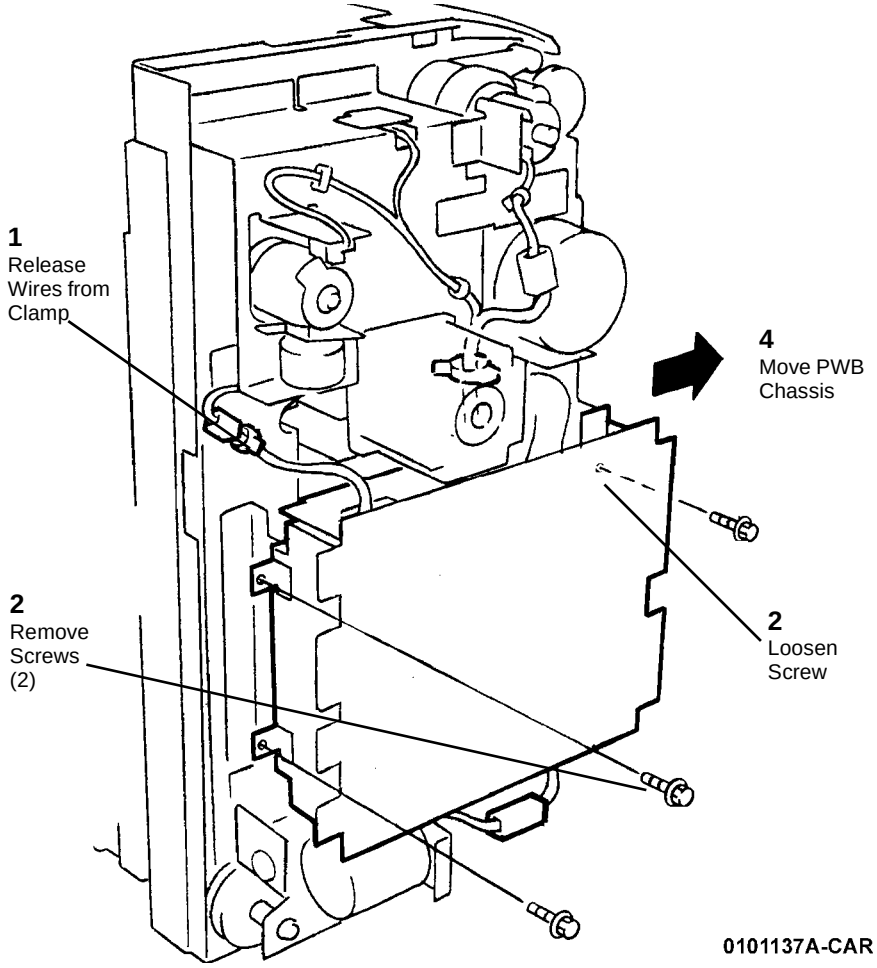

Figure 5 Moving PWB Chassis

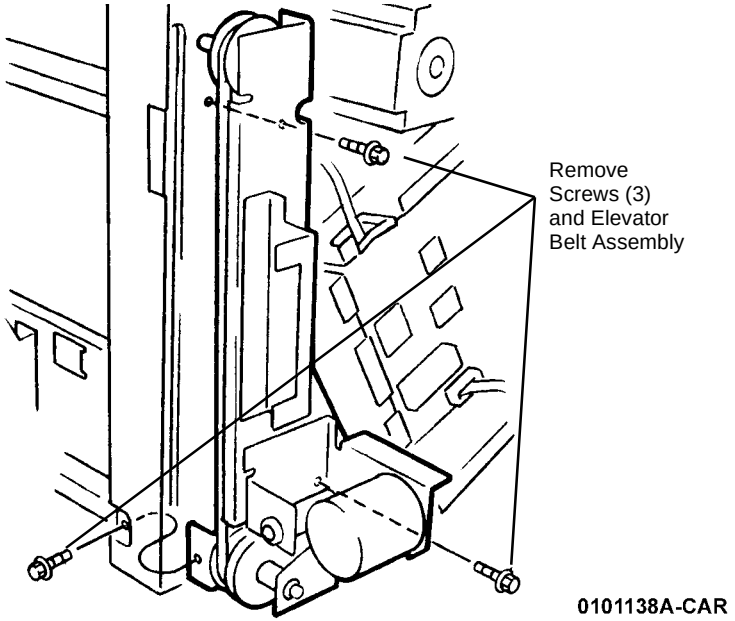

Figure 6 Removing Elevator Belt Assembly

7. Remove Front Elevator Bracket (Figure 6).

REP 12.15 Office Finisher Paddle Gear Shaft

Parts List on PL 17.12

Removal

WARNING

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

1. Remove the following parts:
   a. Stapler Assembly (REP 12.11).
   b. Rear Cover (PL 17.5).
2. Remove the Cam Bracket Assembly (REP 12.18).
3. Remove the Bearing (Figure 1).

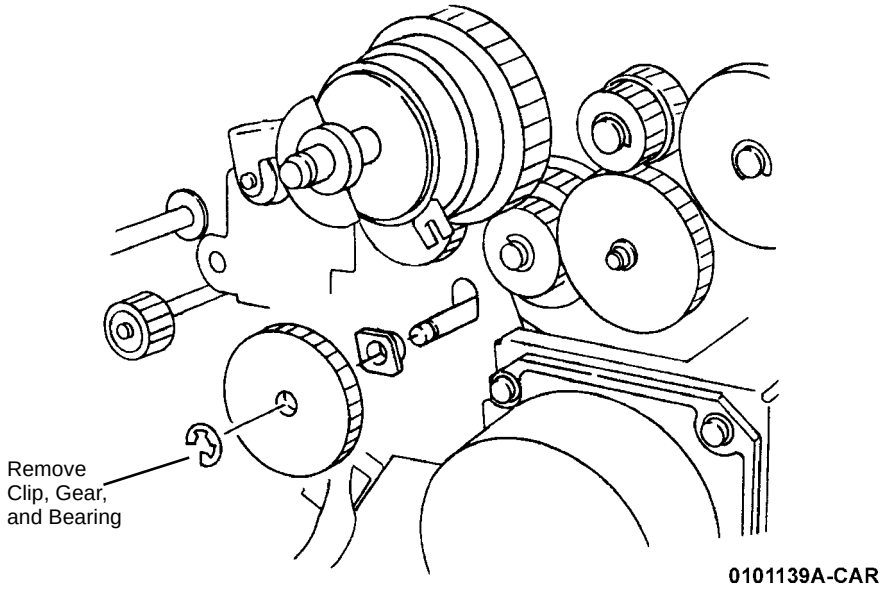

Figure 1 Removing Bearing

4. Remove Screw on Paddle Gear Shaft (Figure 2).

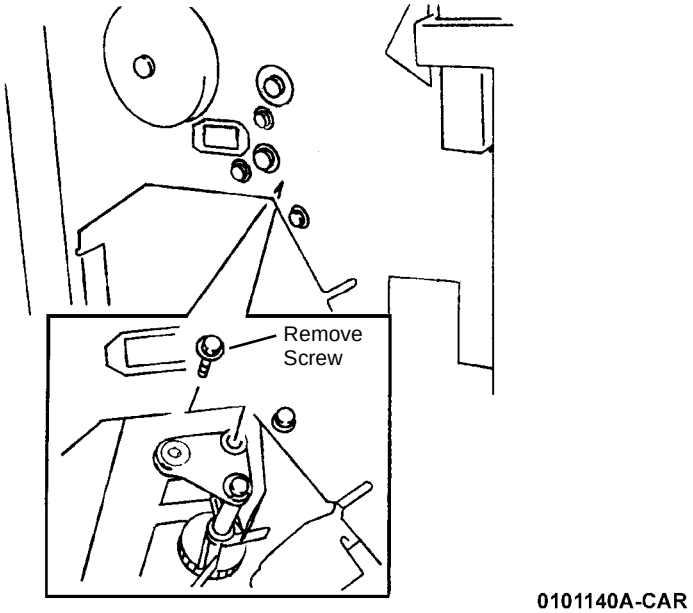

Figure 2 Removing Screw on Paddle Gear Shaft

5. Remove the Paddle Gear Shaft (Figure 3).

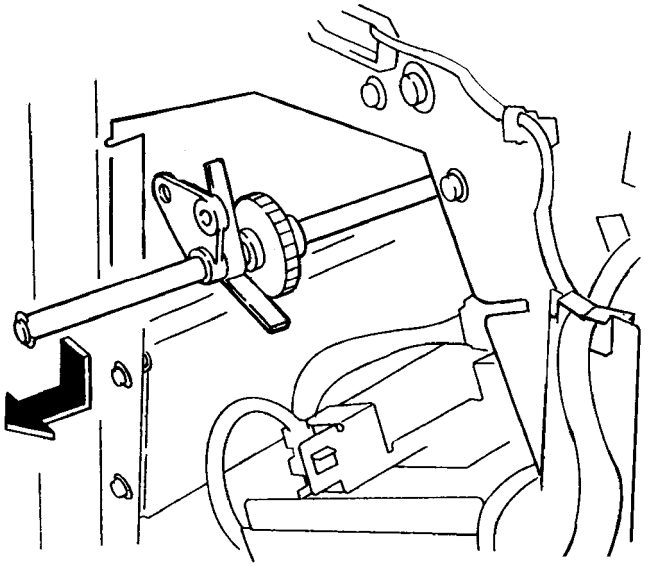

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Figure 3 Removing Paddle Gear Shaft

REP 12.16 Office Finisher PWB

Parts List on PL 17.13

Removal

WARNING

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

1. Remove Horizontal Transport (REP 12.1).
2. Remove Rear Cover (PL 17.5).
3. Remove the PWB Cover (Figure 1).

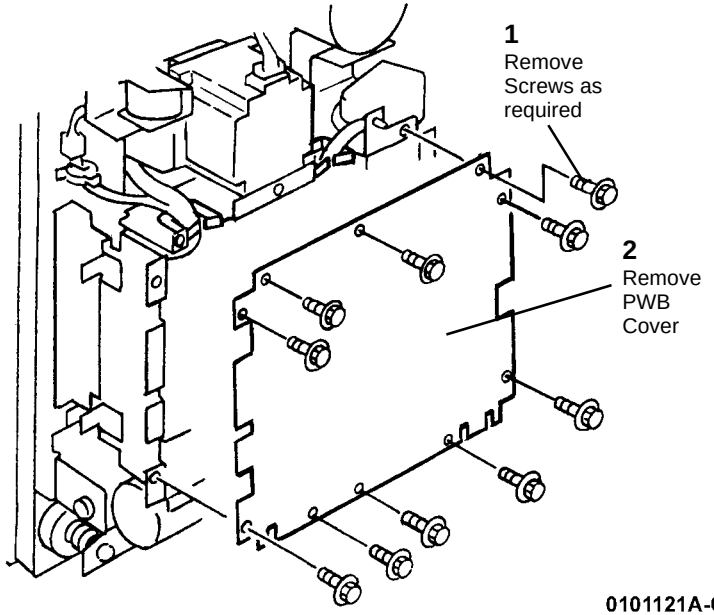

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Figure 1 Removing PWB Cover

4. Disconnect P/J's (Figure 2).

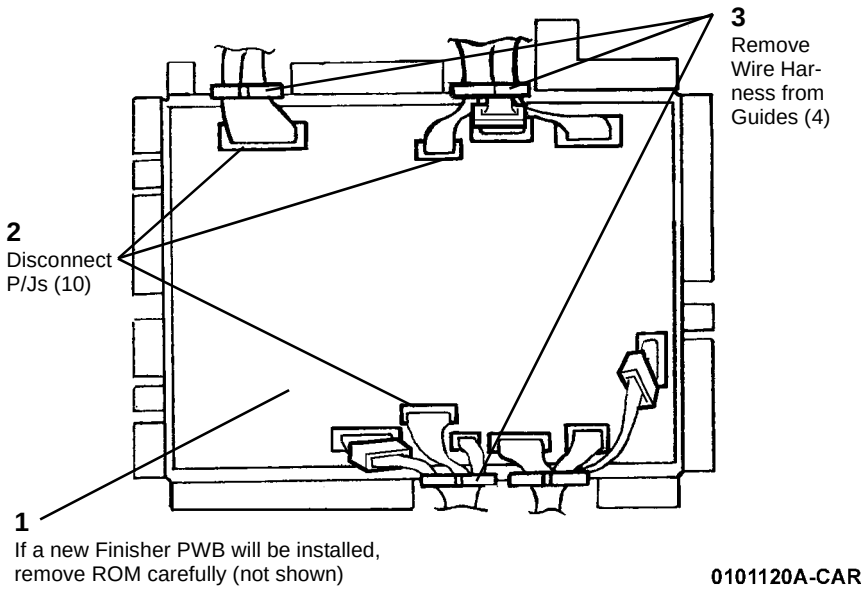

Figure 2 Disconnecting P/J's

5. Remove the Finisher PWB (Figure 3).

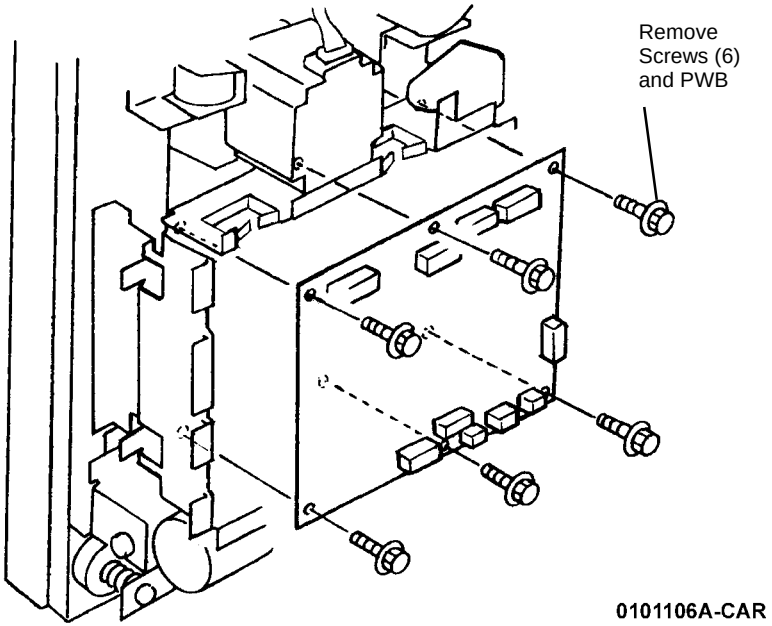

Figure 3 Removing Finisher PWB

Replacement

NOTE: *When installing new Finisher PWB, install ROM from old Finisher PWB (Figure 2).*

REP 12.17 H-Transport Cover

Parts List on PL 17.3

Removal

1. Remove the H-Transport Assembly (REP 12.1).
2. Remove the following:
   a. H-Transport Front Cover (PL 17.3)
   b. H-Transport Rear Cover (PL 17.3)
   c. Stop (PL 17.3)
3. Remove the H-Transport Cover (Figure 1).

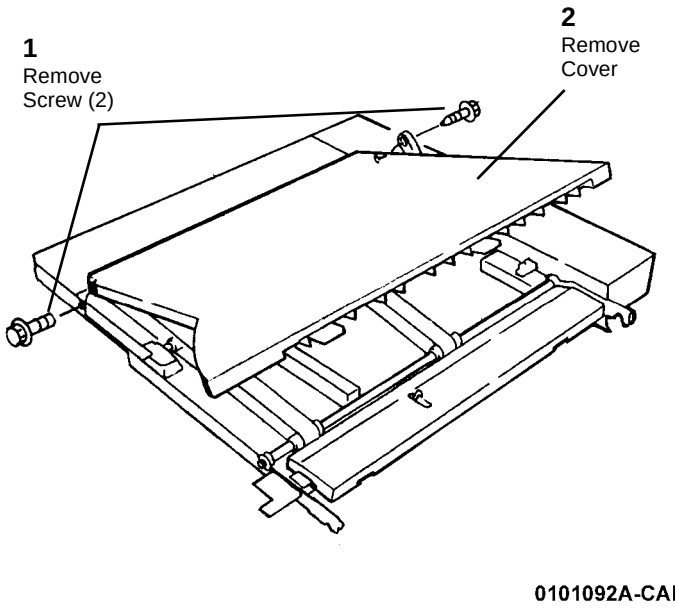

Figure 1 Removing the H-Transport Cover

REP 12.18 Office Finisher Drive Assembly

Parts List on PL 17.8

Removal

WARNING

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

1. Remove the Rear Cover (PL 17.5)
2. Rotate the Actuator (Figure 1).

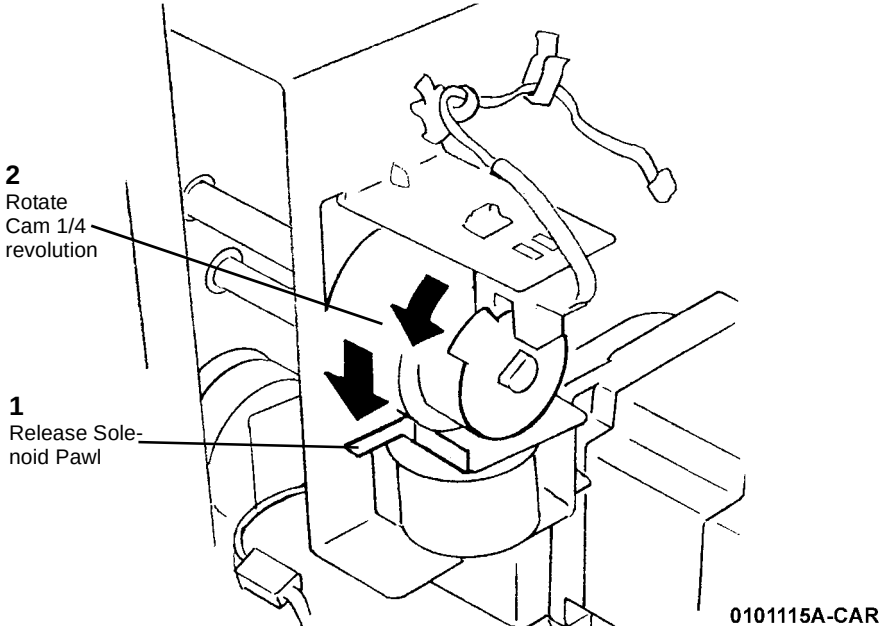

Figure 1 Rotate the Actuator

3. Release Harnesses (Figure 2).

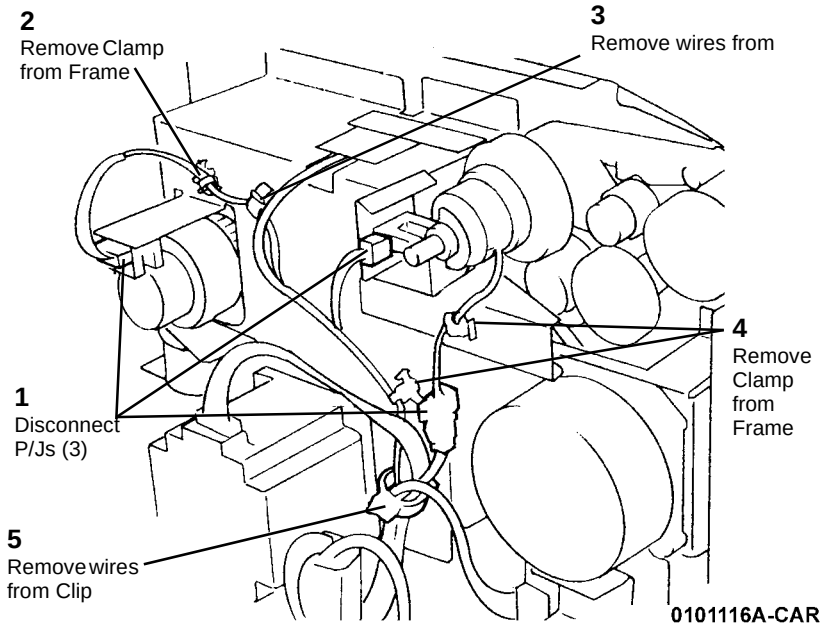

Figure 2 Releasing Harnesses

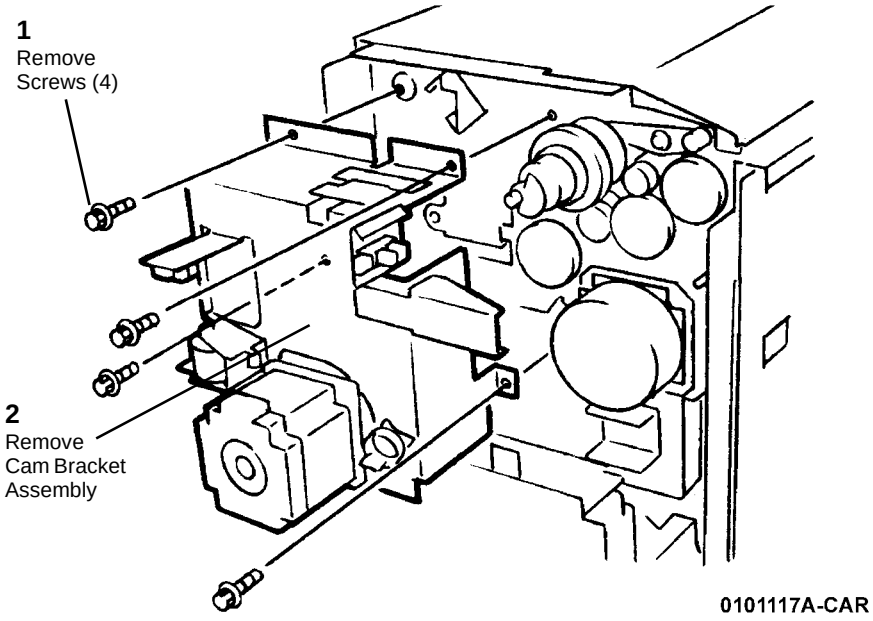

Figure 3 Removing the Cam Bracket Assembly

4. Remove the Cam Bracket Assembly (Figure 3).
   a. Remove the Screws (4).
   b. Remove the Cam Bracket Assembly.

Replacement

NOTE: *During assembly, refer to Figure 4.*

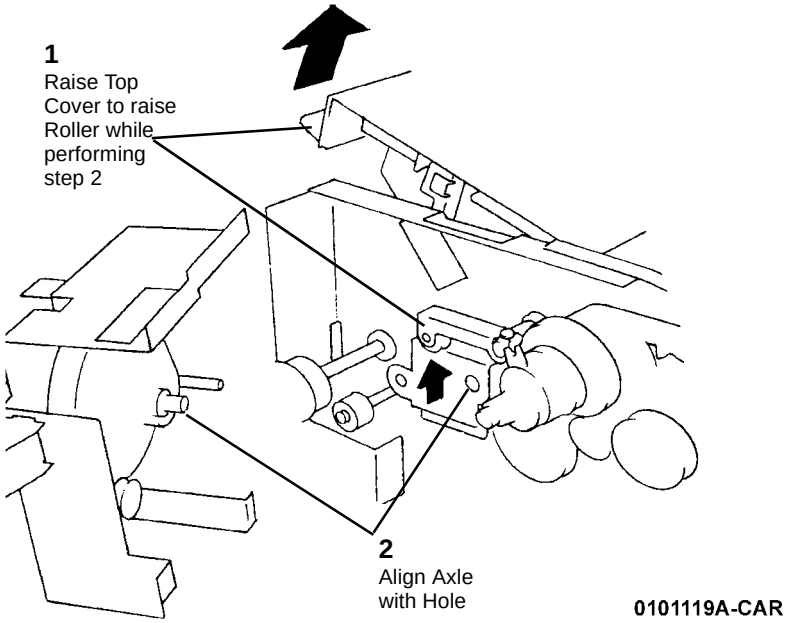

Figure 4 Inserting Axle of Cam Bracket Assembly into Hole

NOTE: *During assembly, refer to Figure 5.*

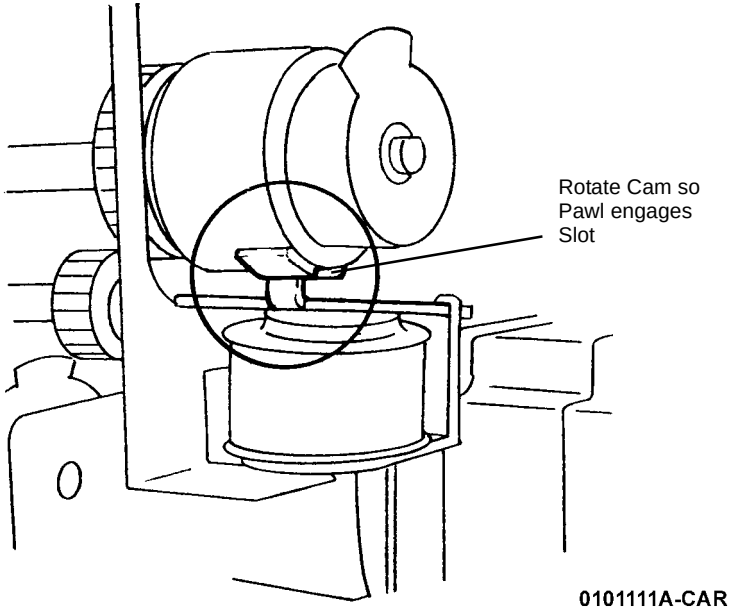

Figure 5 Engaging Pawl with Slot

REP 12.19 Office Finisher Rack Assembly

Parts List on PL 17.1

Removal

WARNING

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

1. Remove Finisher (REP 12.4).
2. Loosen Feet (Figure 1).

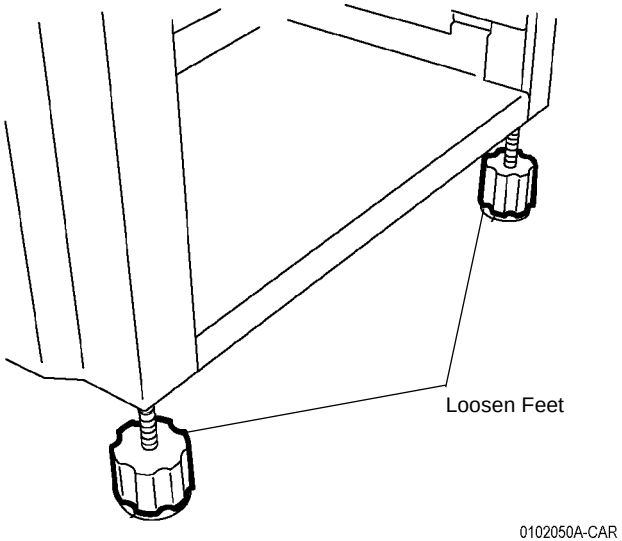

Figure 1 Loosening Feet

3. Remove Bottom Plate (Figure 2).

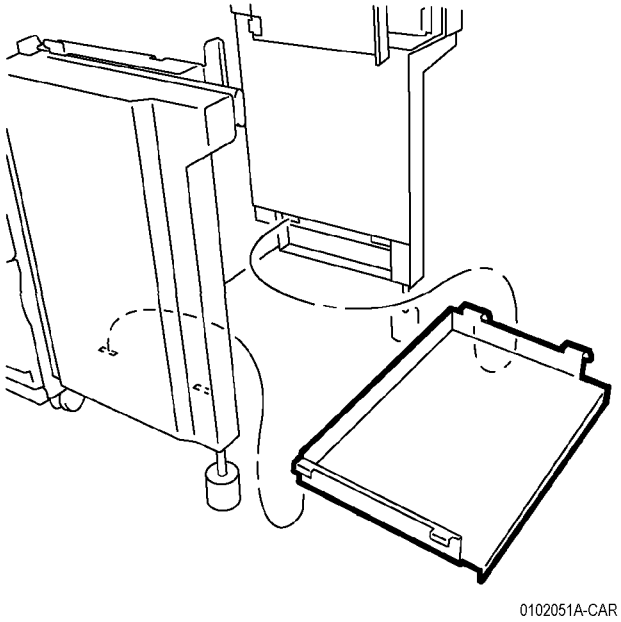

Figure 2 Removing Bottom Plate

4. Remove Rear Rack (Figure 3).

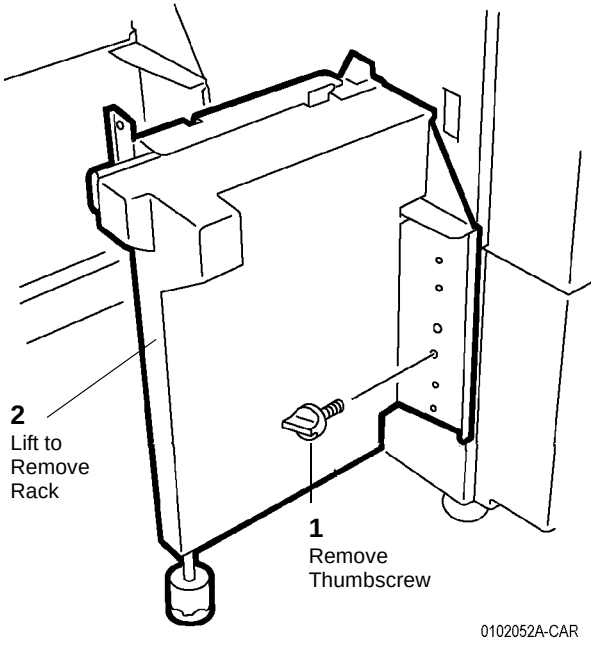

Figure 3 Removing Rear Rack

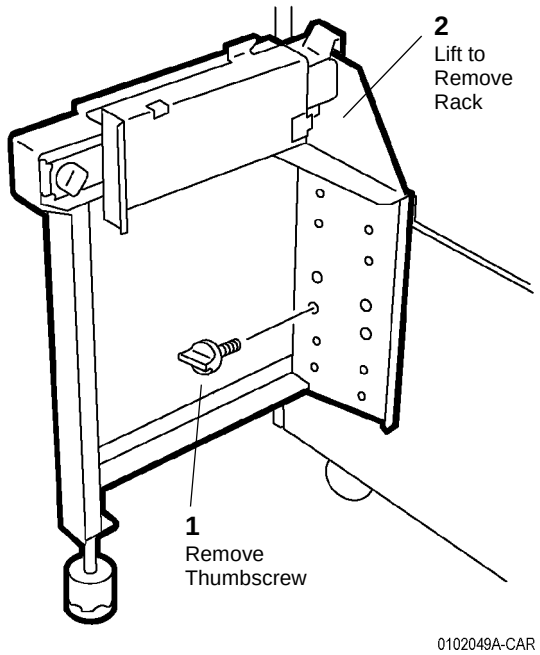

Figure 4 Removing Front Rack

5. Remove Front Rack (Figure 4).

REP 12.20 Lowering Stacker Tray (Office Finisher)

Parts List on PL 17.1

Removal

If the need arises to lower the Stacker Tray quickly or without power applied perform following:

WARNING

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

1. Remove Finisher Rear Cover (PL 17.5).
2. While holding the Stacker Tray, move the gear outward and the Stacker Tray is released (Figure 1).

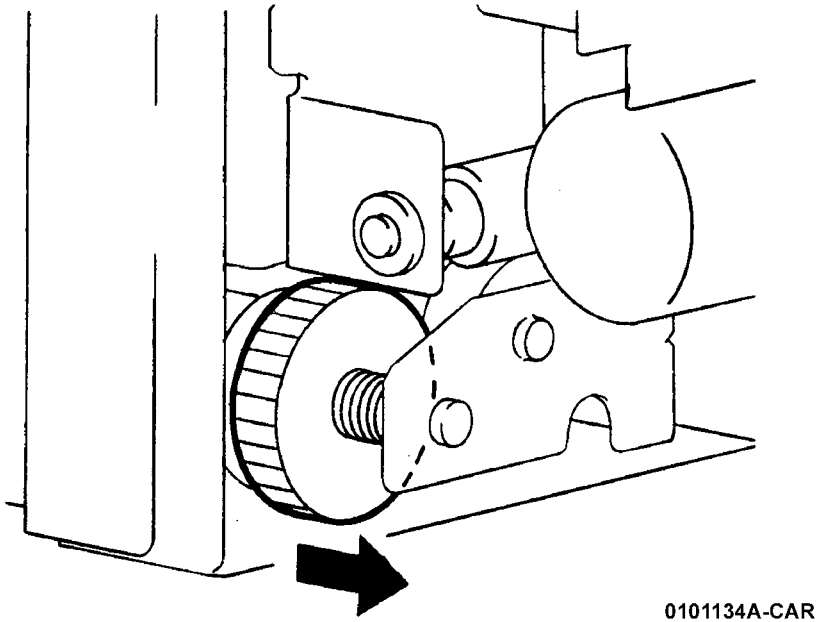

Figure 1 Moving Gear to Lower Stack Tray

REP 12.40 A/P Finisher Front Door

Parts List on PL 21.3

Removal

WARNING

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

1. Open the Front Door.
2. Remove the Front Door (Figure 1).

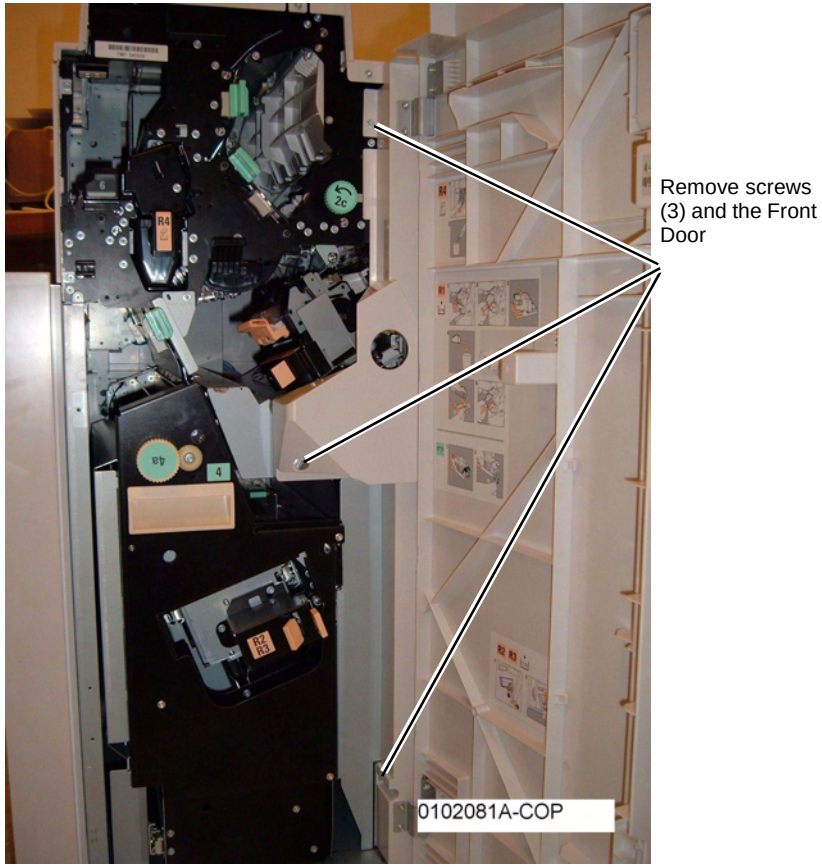

Figure 1 Removing the Front Door

REP 12.41 A/P Finisher Rear Upper Cover

Parts List on PL 21.2

Removal

WARNING

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

1. Remove the Rear Upper Cover (Figure 1).

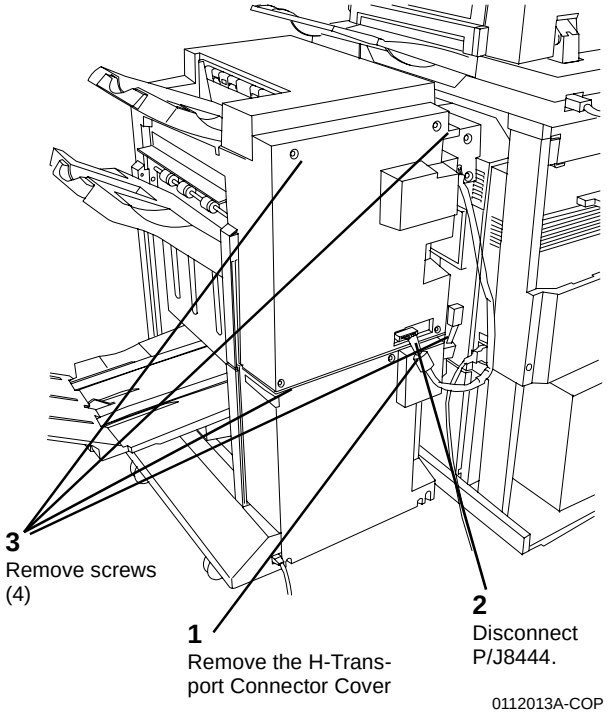

Figure 1 Removing the Rear Upper Cover

REP 12.42 A/P Finisher Rear Lower Cover

Parts List on PL 21.2

Removal

WARNING

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

1. Remove the Rear Lower Cover (Figure 1).

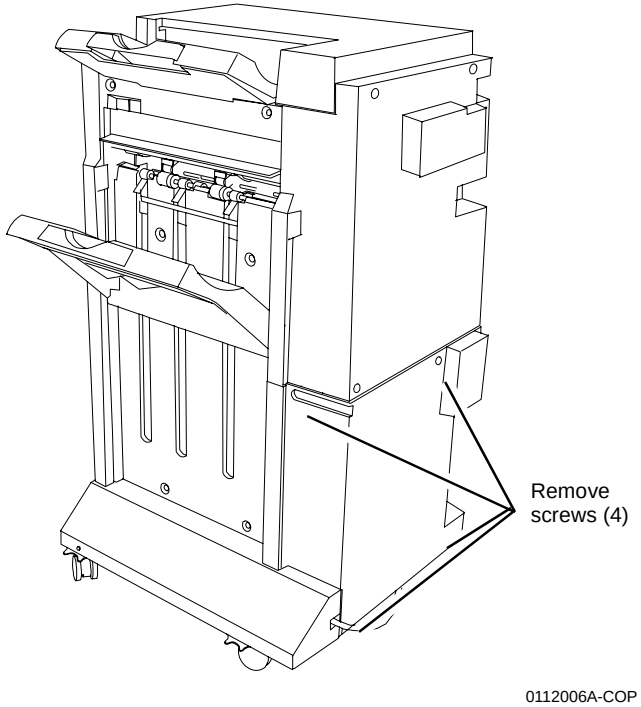

Figure 1 Removing the Rear Lower Cover

REP 12.43 A/P Finisher Top Cover

Parts List on PL 21.2

Removal

WARNING

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

1. Open the Front Door.
2. Remove the Rear Upper Cover (REP 12.41).
3. Remove the Top Tray (REP 12.45).
4. Remove screws (Figure 1).

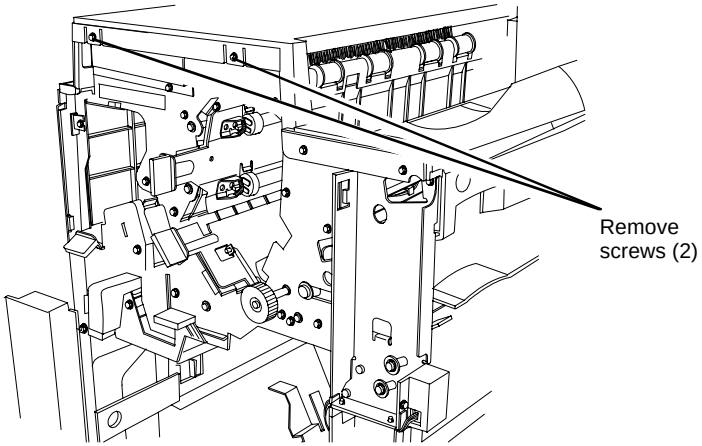

Figure 1 Removing screws

5. Remove the Top Cover (Figure 2).

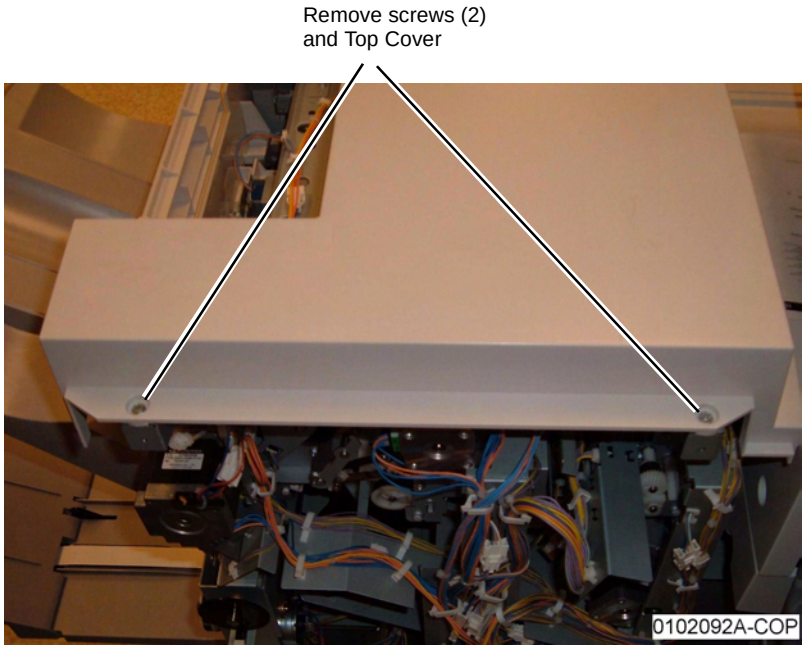

Figure 2 Removing the Top Cover

REP 12.44 A/P Finisher Front Top Cover

Parts List on PL 21.3

Removal

WARNING

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

1. Remove the Front Door (REP 12.40).
2. Remove the Top Cover (REP 12.43).
3. Remove Front Top Cover (Figure 1).

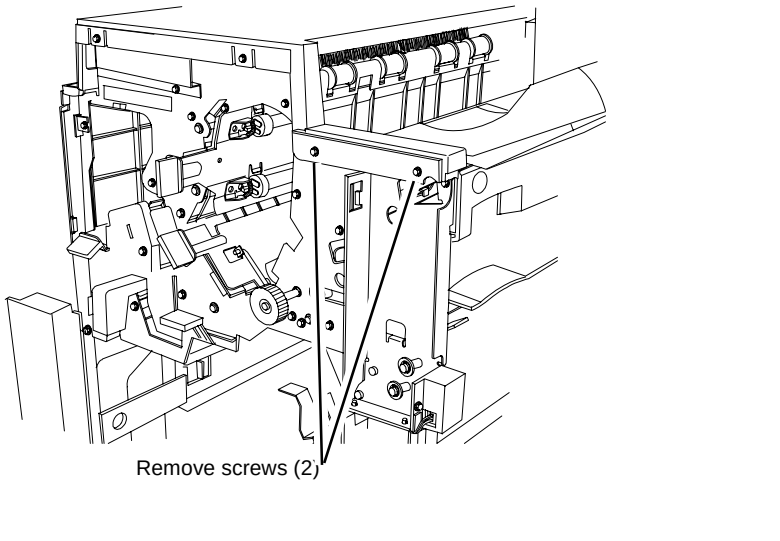

Figure 1 Removing the Front Top Cover

REP 12.45 A/P Finisher Top Tray

Parts List on PL 21.2

Removal

WARNING

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

1. Loosen screws (Figure 1).

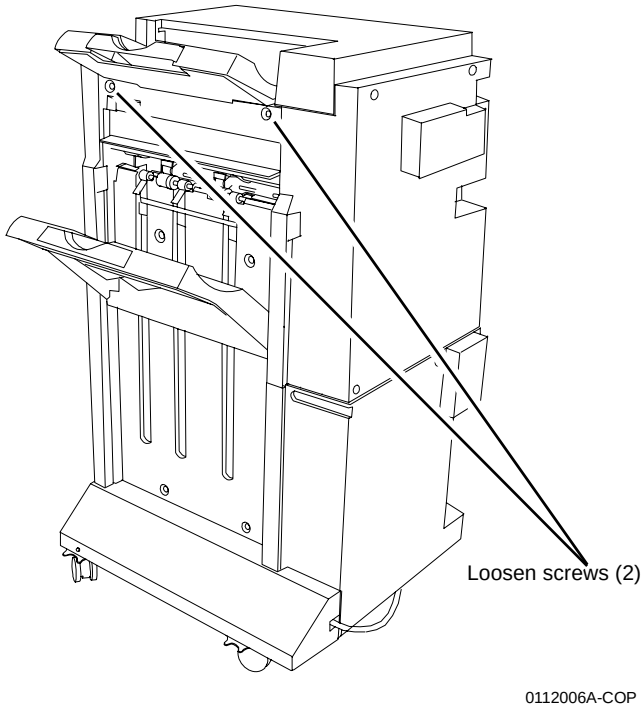

Figure 1 Loosening Screws (2)

2. Lift and remove the Top Tray.

REP 12.46 A/P Finisher Eject Cover

Parts List on PL 21.2

Removal

WARNING

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

1. Remove the Front Door (REP 12.40).
2. Remove the Rear Upper Cover (REP 12.41).
3. Remove screw (Figure 1).

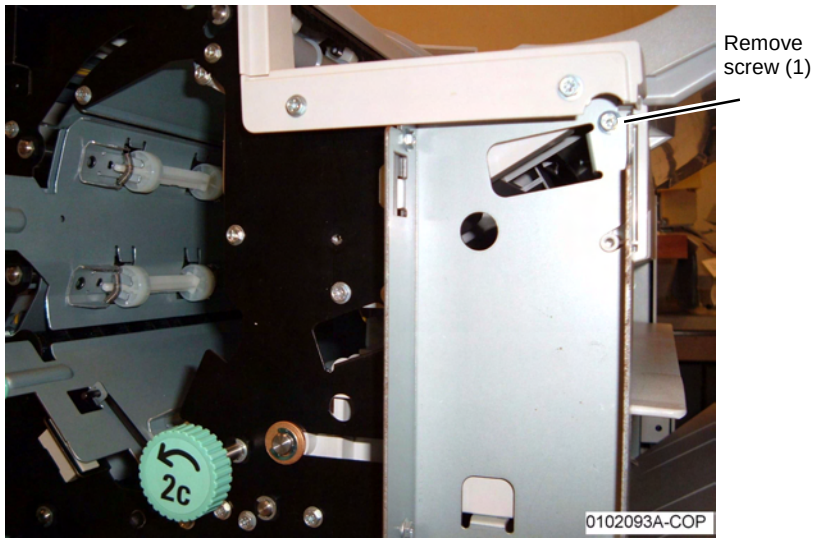

Figure 1 Removing screw

4. Remove the Eject Cover (Figure 2).

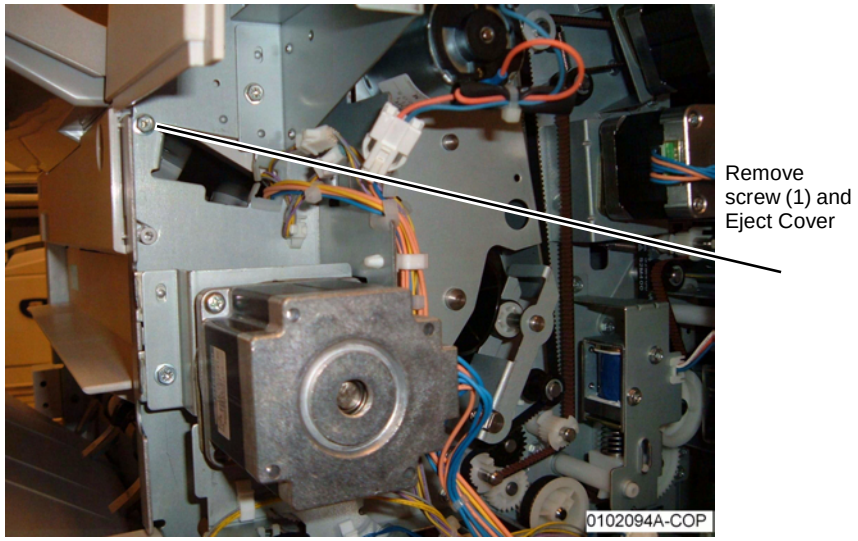

Figure 2 Removing the Eject Cover

REP 12.47 A/P Finisher Tray Spring Guide

Parts List on PL 21.2

Removal

WARNING

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

1. Remove the Front Door (REP 12.40).
2. Remove the Rear Upper Cover (REP 12.41).
3. Remove the Top Cover (REP 12.43).
4. Remove the Front Top Cover (REP 12.44).
5. Remove the Top Tray (REP 12.45).
6. Remove screws on the rear of the Finisher (Figure 1).

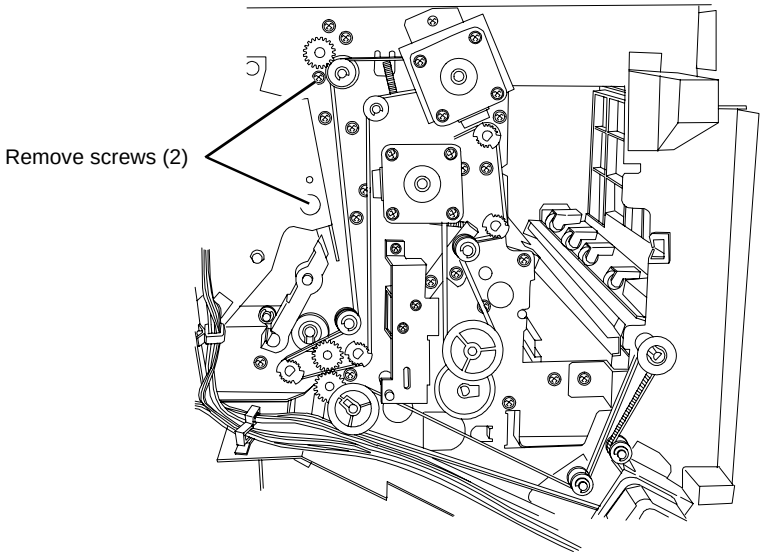

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Figure 1 Removing screws on the rear of the Finisher

7. Remove screws on the front of the Finisher (Figure 2).

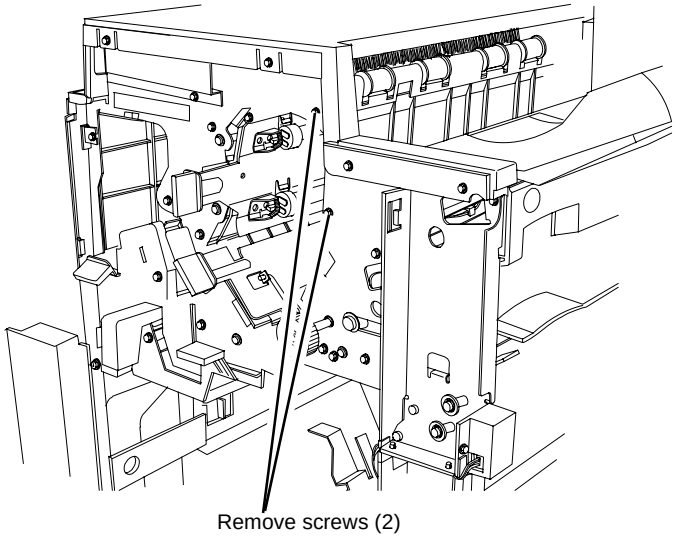

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Figure 2 Removing screws on the front of the Finisher

8. Remove screws (2) securing the Top Tray Full Sensor Bracket to the Tray Spring Guide.

REP 12.48 A/P Finisher Inner Cover

Parts List on PL 21.8

Removal

WARNING

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

1. If needed, perform REP 12.58 Stacker Tray (position the Stacker Tray Bracket so that all 4 screws holding the Inner Cover are accessible).
2. Remove the Inner Cover (Figure 1).

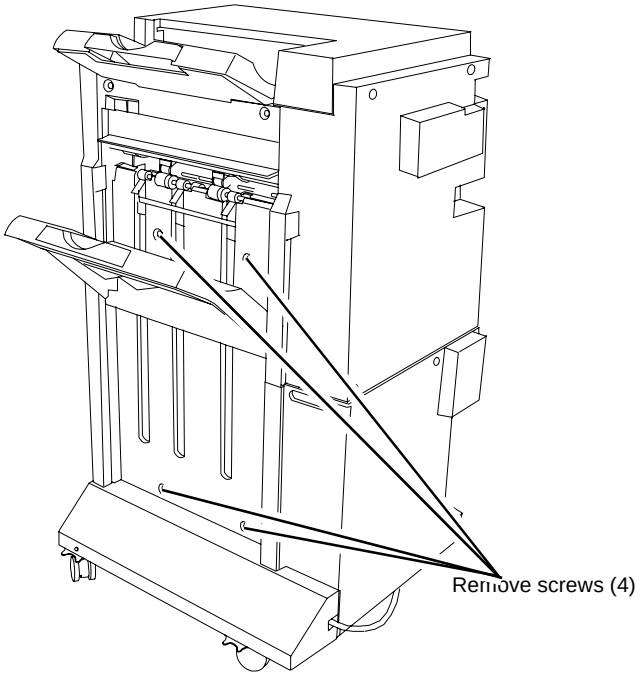

Figure 1 Removing the Inner Cover (A Finisher shown)

REP 12.49 A/P Finisher Left Top Cover

Parts List on PL 21.3

Removal

WARNING

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

1. Remove the Finisher from the IOT (REP 12.50).
2. Remove the Left Top Cover (Figure 1).

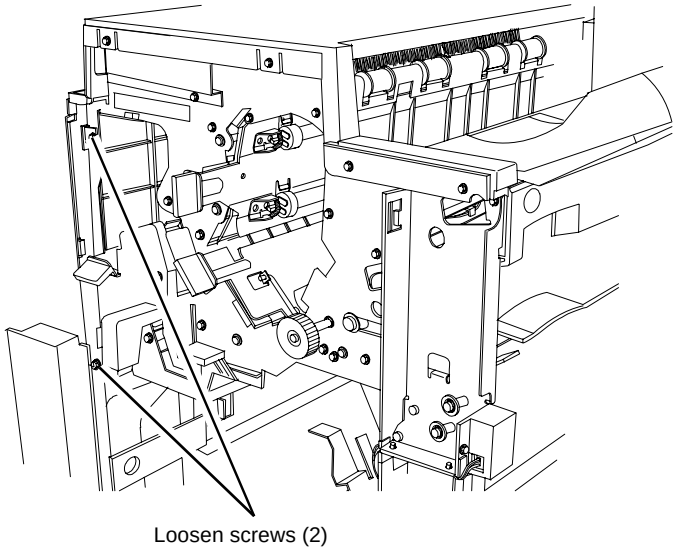

Figure 1 Removing the Left Top Cover

REP 12.50 A/P Finisher

Parts List on PL 21.1

Removal

WARNING

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

1. Remove the H-Transport Connector Cover (PL 21.2).
2. Disconnect connectors (Figure 1).

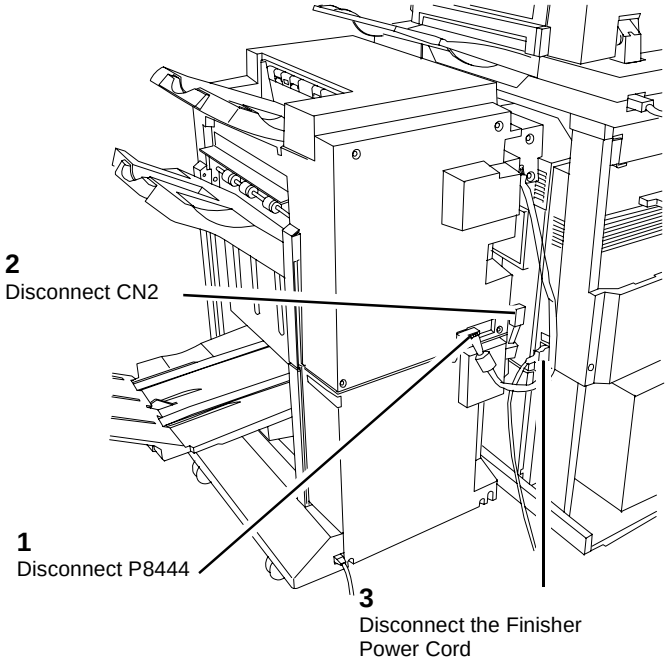

Figure 1 Disconnecting connectors

3. Open the Front Door.
4. Separate the Finisher from the IOT (Figure 2).

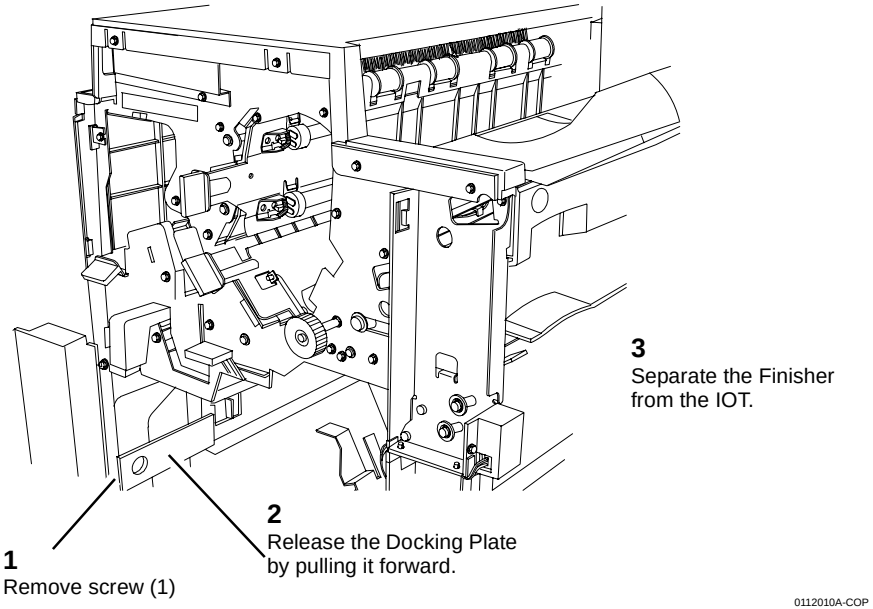

Figure 2 Separating the Finisher from the IOT

Replacement

1. If the IOT and Finisher has been moved to a new location, check (ADJ 12.2) Finisher Leveling.

REP 12.51 A/P Finisher H-Transport Assembly

Parts List on PL 21.1

Removal

WARNING

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

1. Remove the Finisher (REP 12.50).
2. Remove the H-Transport (Figure 1).

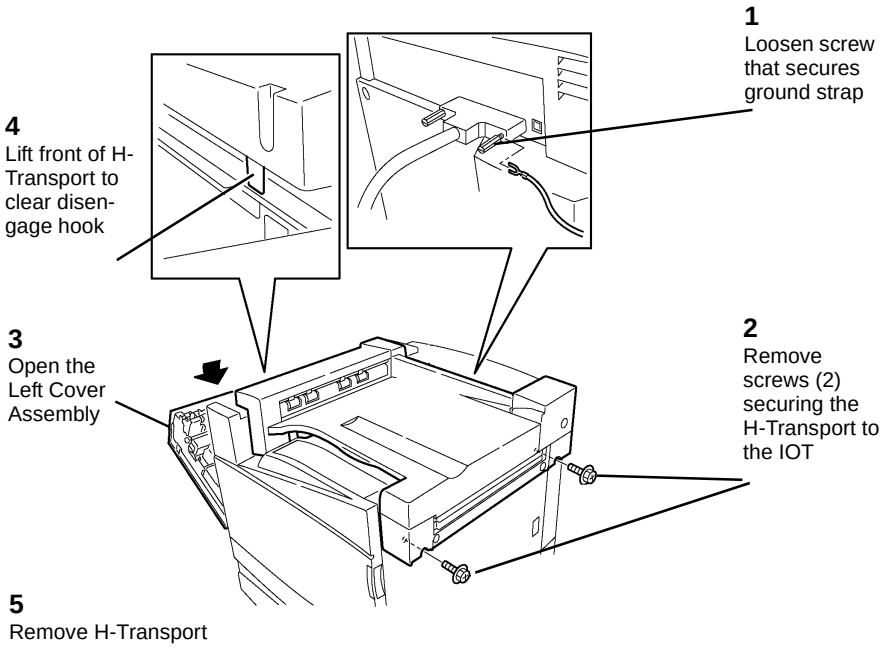

Figure 1 Removing the H-Transport

REP 12.52 A/P Finisher Punch Frame Assembly

Parts List on PL 21.5

Removal

WARNING

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

1. Open the Front Door.
2. Remove screws (Figure 1).

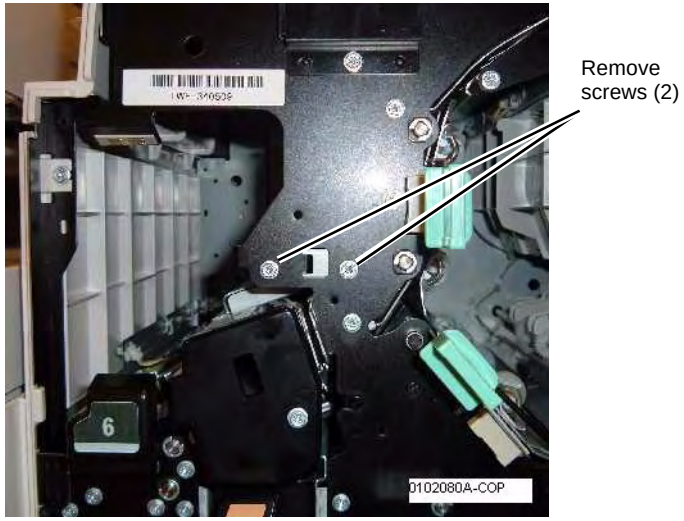

Figure 1 Removing screws

3. Remove the Rear Upper Cover (REP 12.41).

   NOTE: *In order not to damage the Registration Motor Drive Belt during the next step, use caution when removing the Punch Frame Assembly from the Finisher.*

4. Remove the Punch Frame Assembly (Figure 2).

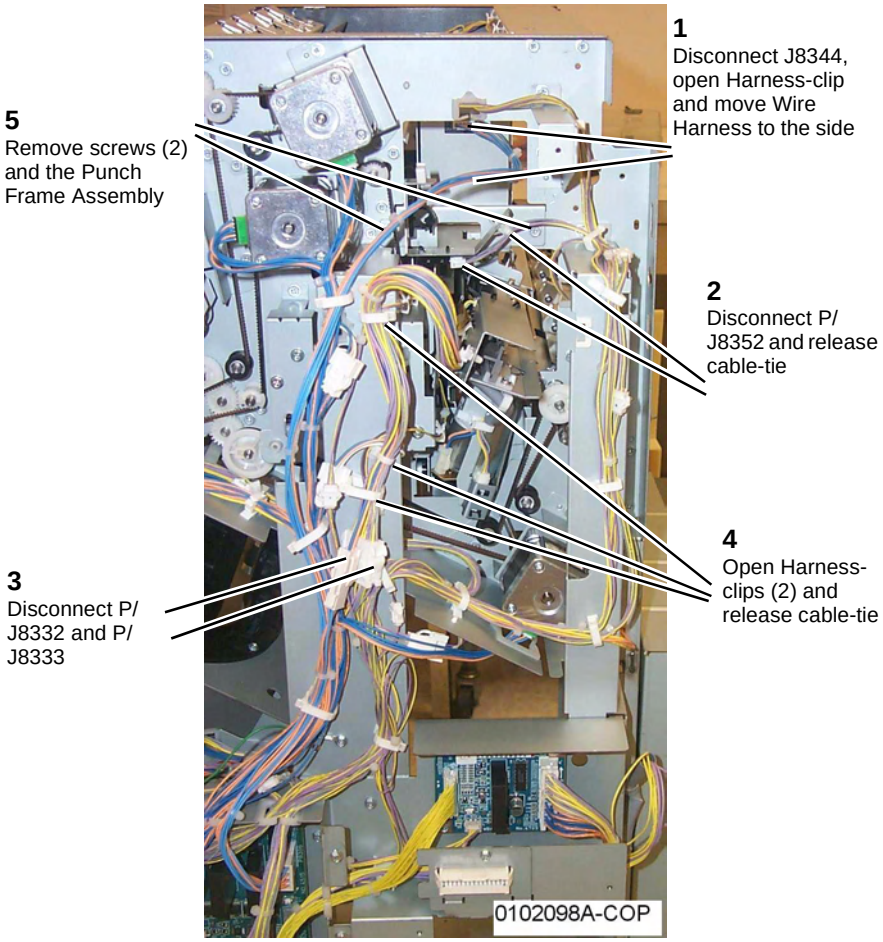

Figure 2 Removing the Punch Frame Assembly

REP 12.53 A/P Finisher Stapler Assembly

Parts List on PL 21.6

Removal

WARNING

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

1. Open the Front Door.
2. Remove Stapler Cover (Figure 1).

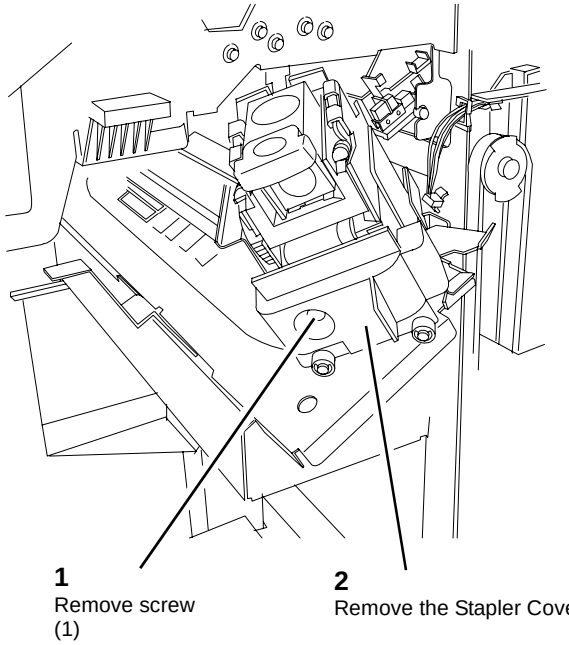

Figure 1 Removing the Stapler Cover

3. Remove the Stapler Assembly (Figure 2).

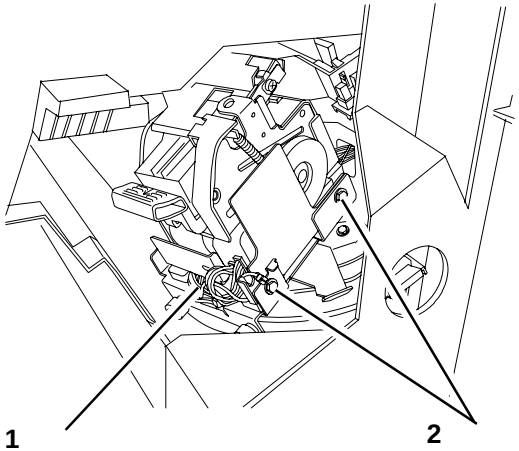

Figure 2 Removing the Stapler Assembly

REP 12.54 A/P Finisher Stapler Rail

Parts List on PL 21.6

Removal

WARNING

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

1. Remove the Stapler Assembly (REP 12.53).
2. Remove the Inner Cover (REP 12.48).
3. Remove the Stapler Carriage (Figure 1).

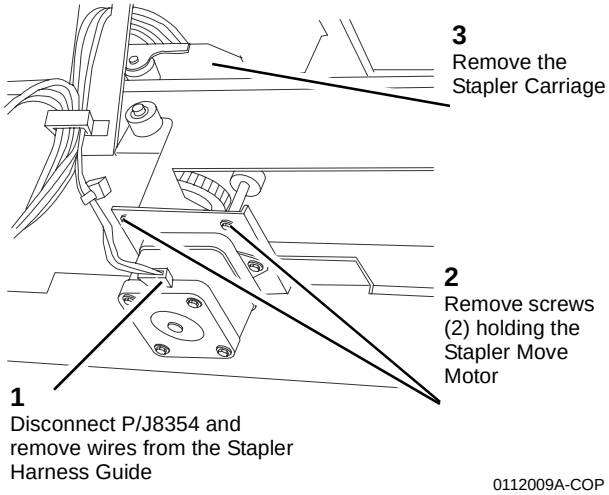

Figure 1 Removing the Stapler Carriage

4. Remove screws (6) holding the Stapler Rail.

REP 12.55 A/P Finisher Booklet Maker Unit

Parts List on PL 21.15

Removal

WARNING

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

1. Open the Front Door.
2. Pull out the Booklet Maker Unit until it stops.
3. Remove the Booklet Maker Stopper (black bracket on left side panel near the rear, 1 screw).
4. Remove the Booklet Maker Unit (Figure 1).

NOTE: *Use caution to avoid personal injury and/or damage to the Booklet Maker when removing the Booklet Maker Unit from the Finisher.*

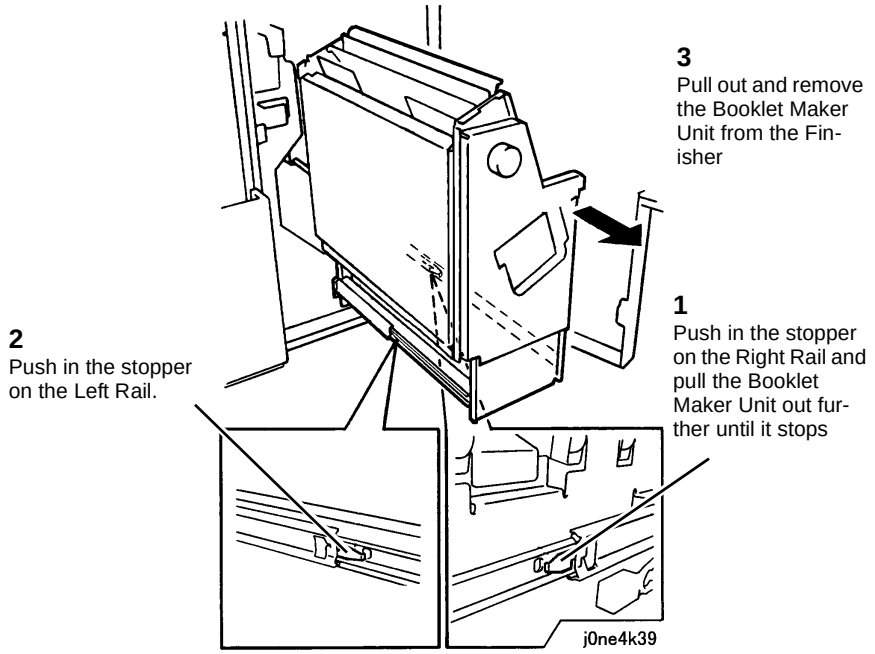

Figure 1 Removing the Booklet Maker Unit

Replacement

1. Perform the installation in the reverse order of the removal procedure, starting with attaching the Left Rail then the Right Rail.

REP 12.56 A/P Finisher Booklet Stapler

Parts List on PL 21.16

Removal

WARNING

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

1. If the Booklet Maker Unit has been removed from the Finisher (REP 12.55), go to 4.
2. Open the Front Door.
3. Pull out the Booklet Drawer Unit.
4. Remove the Booklet Stapler (Figure 1).

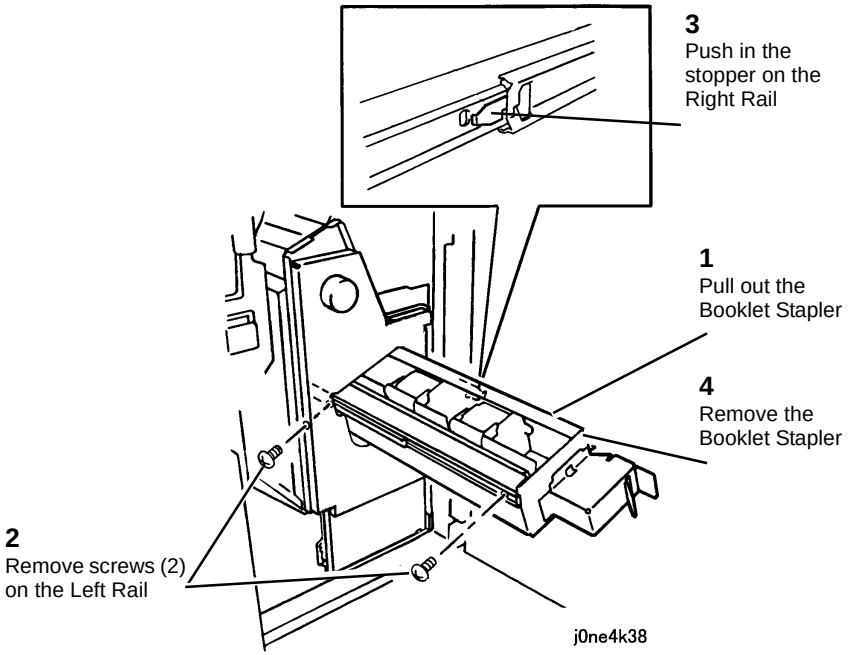

Figure 1 Removing the Booklet Stapler

REP 12.57 A/P Finisher Compiler Tray

Parts List on PL 21.8

Removal

WARNING

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

1. Remove the Rear Upper Cover (REP 12.41).
2. Remove the Front Door (REP 12.40).
3. Remove screw securing the Compiler Tray (Figure 1).

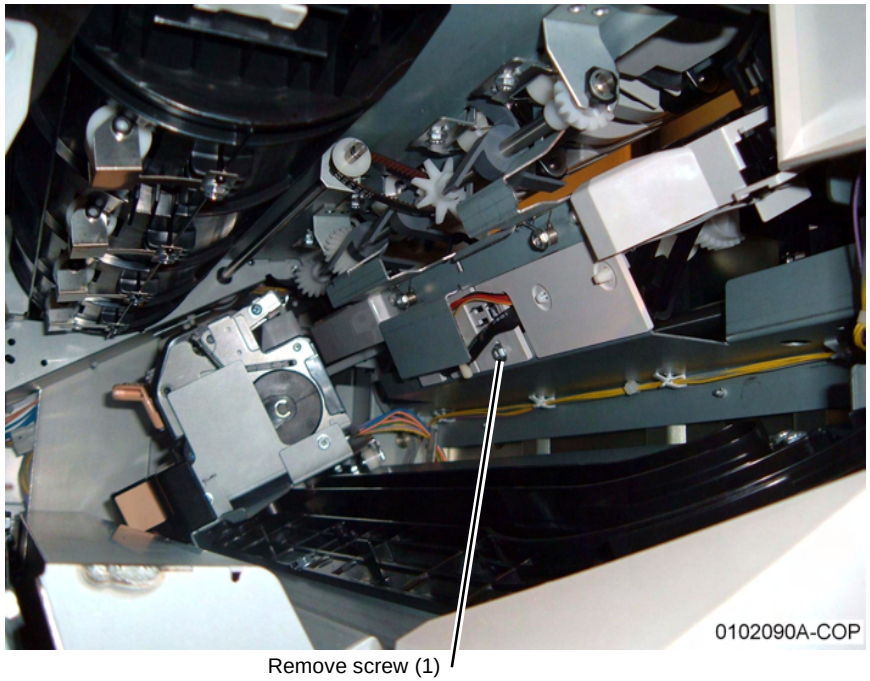

Figure 1 Removing screw securing the Compiler Tray

4. Remove the Stapler Assembly (REP 12.53).
5. Remove the Inner Cover (REP 12.48).
6. Disconnect the Compiler Harness (Figure 2).

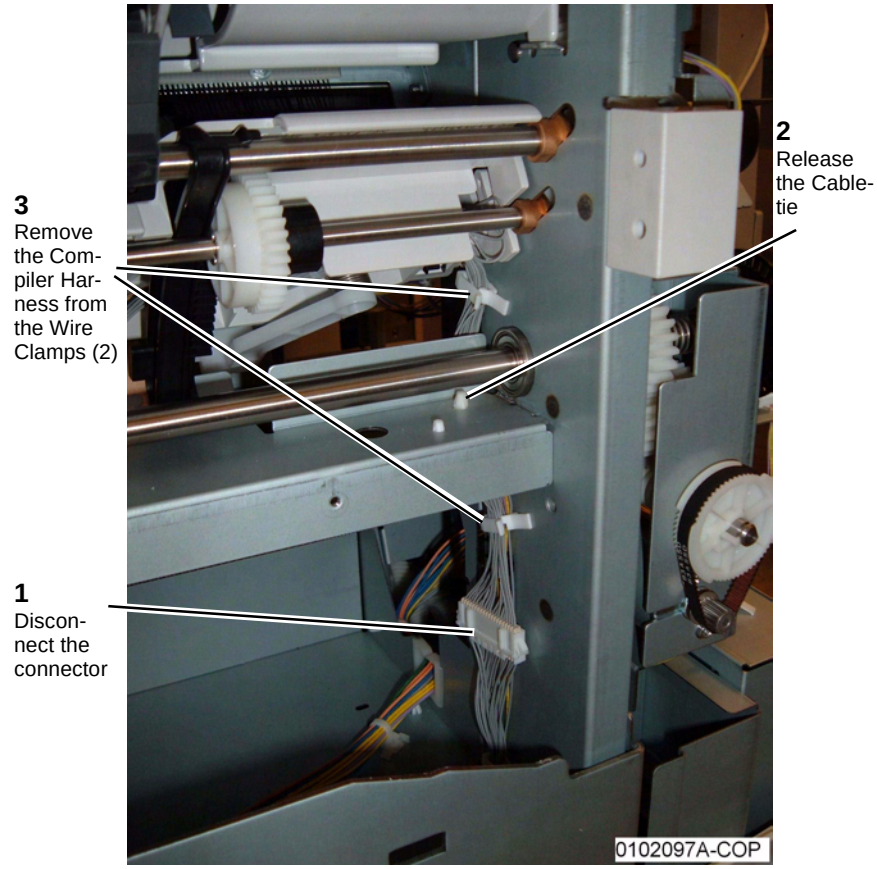

Figure 2 Disconnecting the Compiler Harness

7. Remove the Compiler Tray.
   a. Push in the Front Tab (Figure 3).

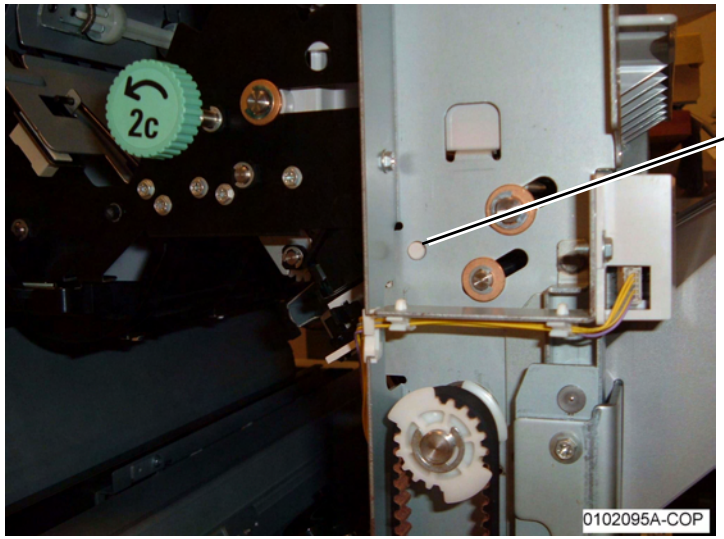

Figure 3 Pushing in the Front Tab

b. Push in the Rear Tab (Figure 4).

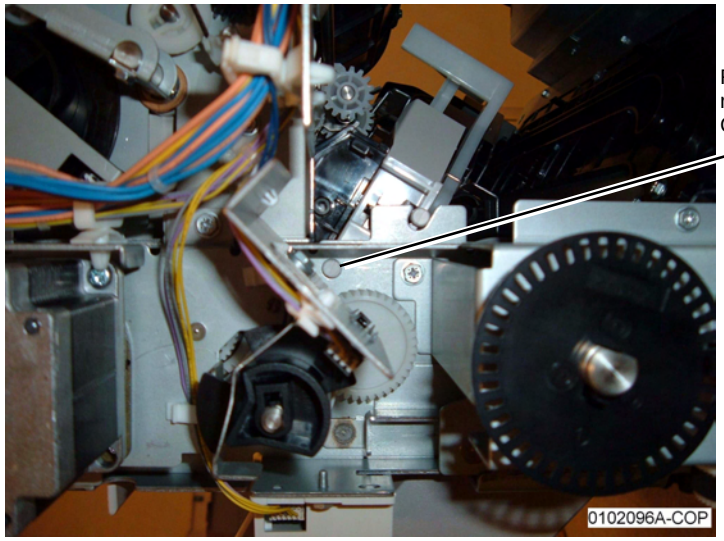

Figure 4 Pushing in the Rear Tab

REP 12.58 A/P Finisher Stacker Tray Position

Parts List on PL 21.2

Removal

WARNING

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

1. Remove the Rear Upper Cover (REP 12.41).

   NOTE: *In the next step, while disengaging the Elevator Pulley, hold the Stacker Tray with one hand.*

2. Disengage the Elevator Pulley (Figure 1).

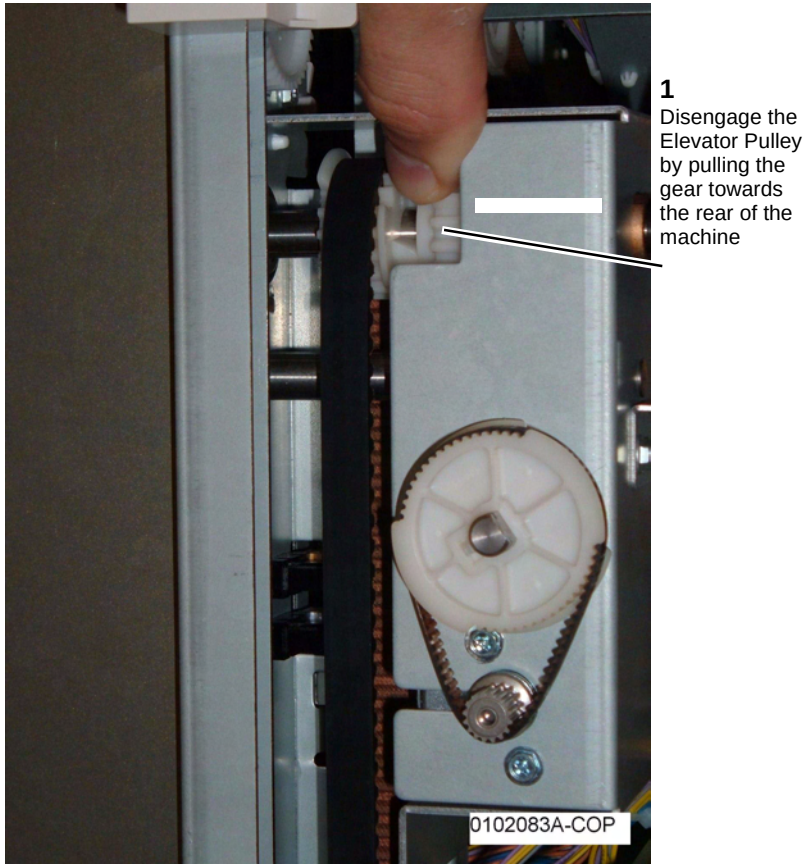

Figure 1 Disengaging the Elevator Pulley

3. Manually move the Stacker Tray Bracket up or down.

REP 12.59 A/P Finisher Paddle Shaft

Parts List on PL 21.9

Removal

WARNING

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

1. Open the Front Door.
2. Manually move the Stapler Assembly towards the rear of the machine.
3. Remove the Rear Upper Cover (REP 12.41).
4. Remove the Paddle Shaft (Figure 1).

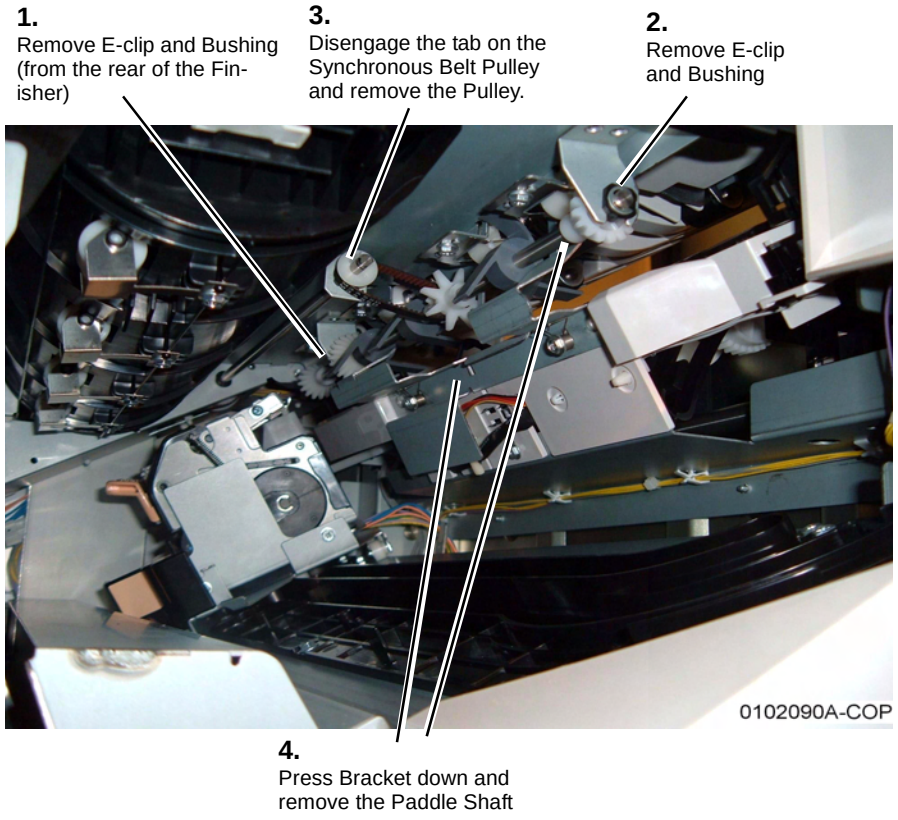

Figure 1 Removing the Paddle Shaft

Replacement

1. Reinstall components in the reverse order of the removal procedure.

REP 12.60 A/P Finisher Stacker Drive Belt

Parts List on PL 21.4

Removal

WARNING

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

1. Remove the Front Door (REP 12.40).
2. Remove the Rear Upper Cover (REP 12.41).
3. Remove the Rear Lower Cover (REP 12.42).
4. Perform REP 12.58 Stacker Tray (position the Stacker Tray in the lowest position).
5. Remove the rear Stacker Drive Belt (Figure 1).

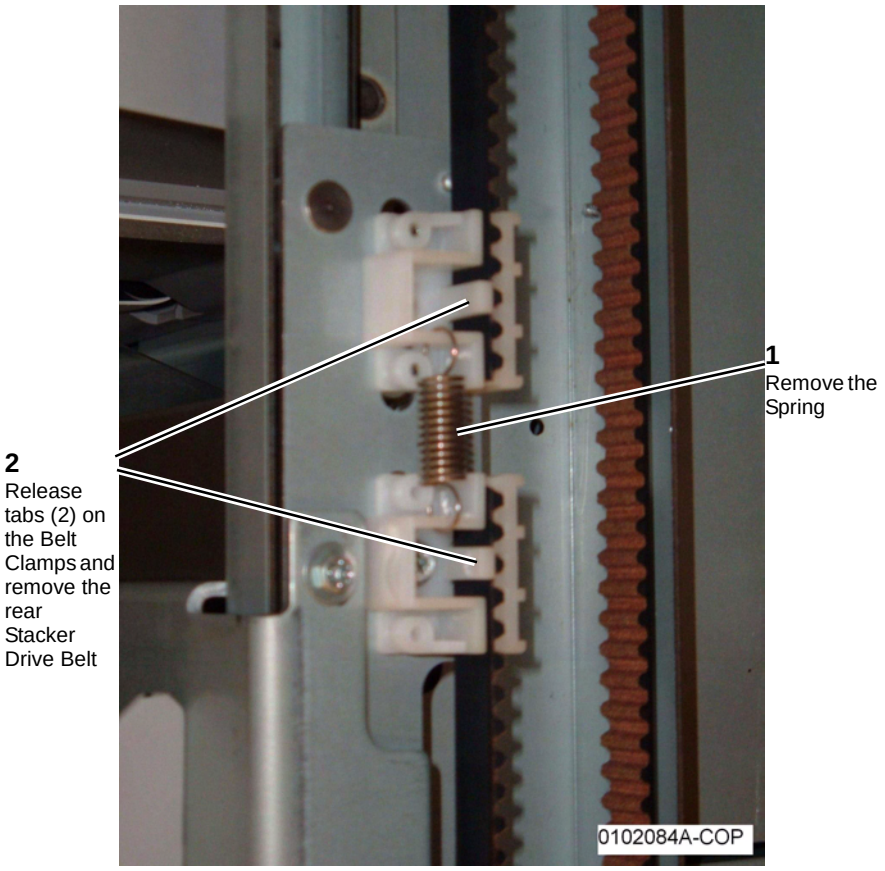

Figure 1 Removing the rear Stacker Belt

6. Remove the front Stacker Drive Belt (Figure 2).

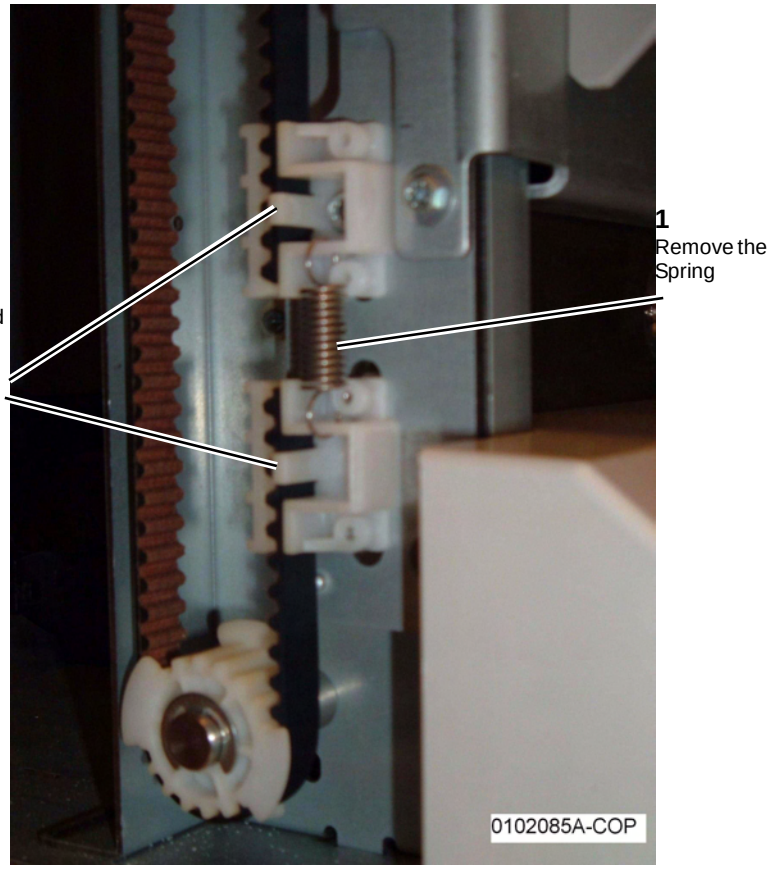

Figure 2 Removing the front Stacker Belt

Replacement

1. Reinstall components in the reverse order of the removal procedure. Refer to Figure 1 and Figure 2 for Stacker Drive Belt positioning in the Belt Clamps.

REP 12.61 A/P Finisher Buffer Path Sensor

Parts List on PL 21.10

Removal

WARNING

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

1. Remove the Finisher from the IOT (REP 12.50).
2. Remove the Punch Assembly (REP 12.52).
3. Remove the Left Top Cover (REP 12.49).
4. Remove the Buffer Path Sensor (Figure 1).

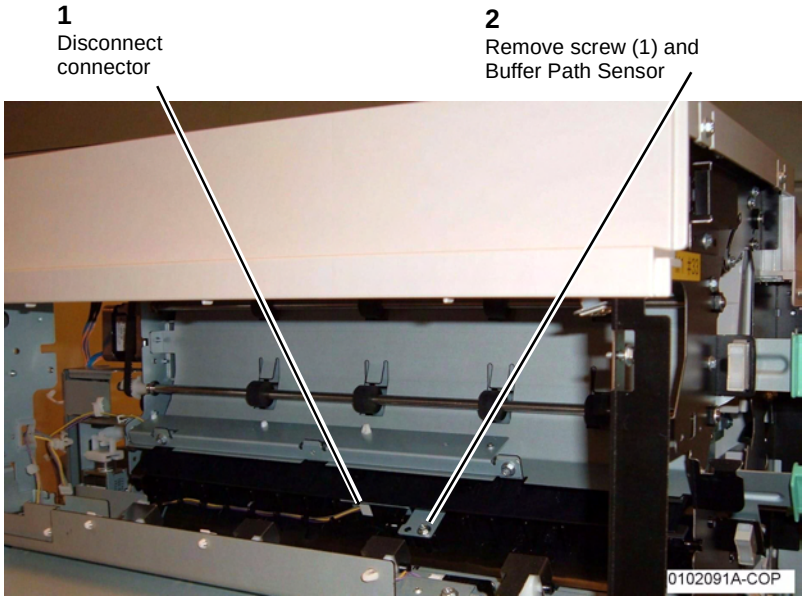

Figure 1 Removing the Buffer Path Sensor

REP 12.62 A/P Finisher Gate Sensor

Parts List on PL 21.11

Removal

WARNING

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

1. Remove the Finisher from the IOT (REP 12.50).
2. Remove the Punch Assembly (REP 12.52).
3. Remove the Left Top Cover (REP 12.49).
4. Remove the Gate Sensor (Figure 1).

1
Remove screws (2) securing the Bracket

2
Disconnect connector and remove screw (1) to remove the Gate sensor from the Bracket

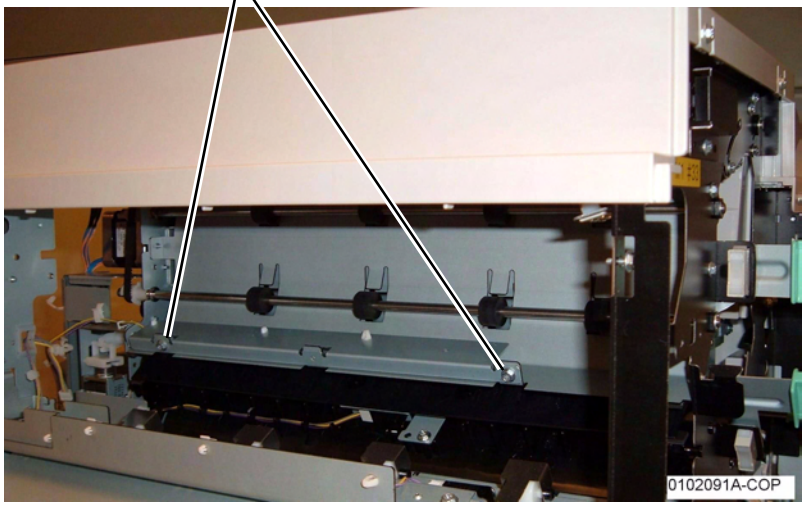

Figure 1 Removing the Gate Sensor

REP 12.63 A/P Finisher Top Tray Full Sensor

Parts List on PL 21.11

Removal

WARNING

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

1. Remove the Front Door (REP 12.40).
2. Remove the Rear Upper Cover (REP 12.41).
3. Remove the Top Cover (REP 12.43).
4. Remove the Front Top Cover (REP 12.44).
5. Remove the Top Tray (REP 12.45).
6. Remove the Tray Spring Guide (REP 12.47).
7. Disconnect P/J8322 and remove screw (1) securing the Top Tray Full Sensor to the Sensor Bracket.

REP 12.64 A/P Finisher Buffer Roll

Parts List on PL 21.10

Removal

WARNING

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

1. Remove the Rear Upper Cover (REP 12.41).
2. Remove the Left Harness Bracket (Figure 1).

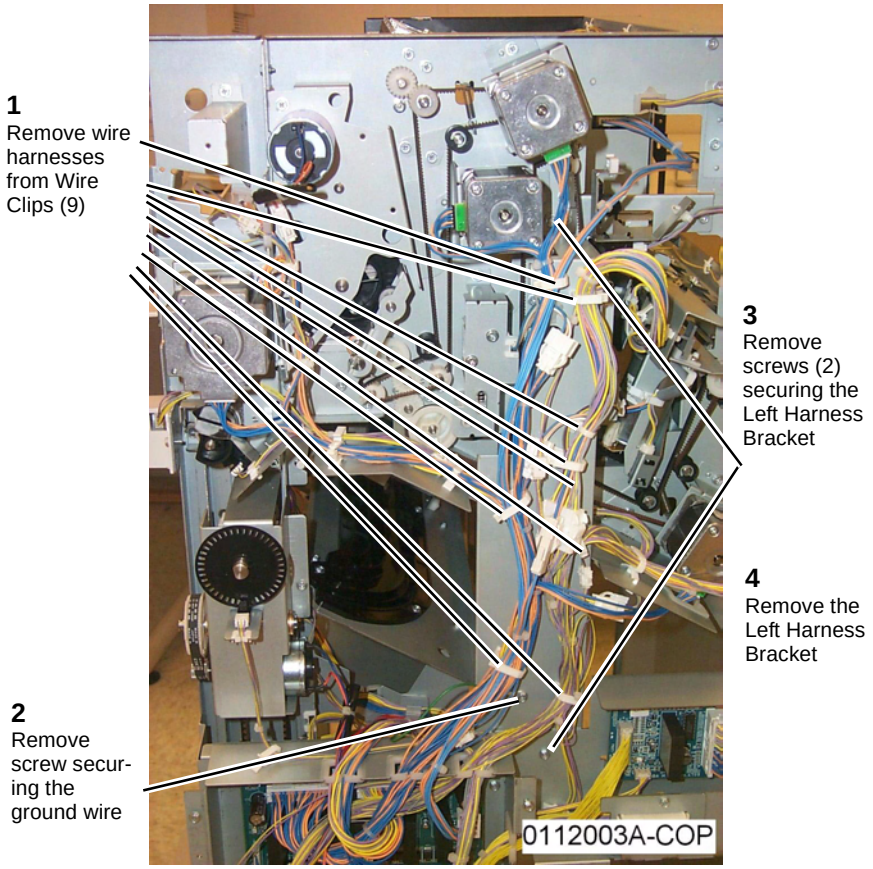

Figure 1 Removing the Left Harness Bracket

3. Remove the Transport Gate Solenoid Bracket (Figure 2).

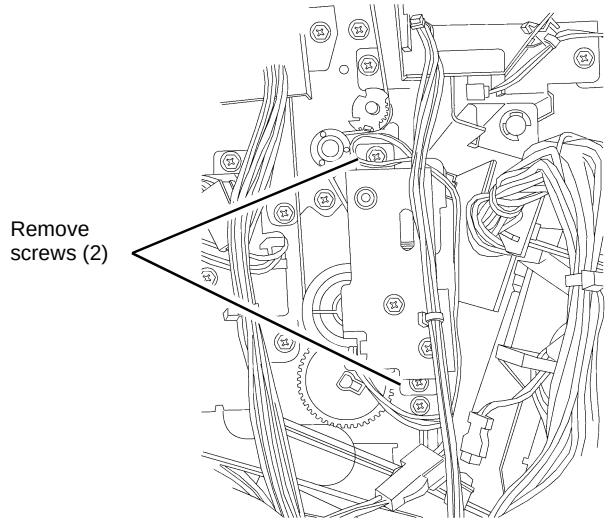

Figure 2 Removing the Transport Gate Solenoid Bracket

4. Remove Pulley and Gear (Figure 3).

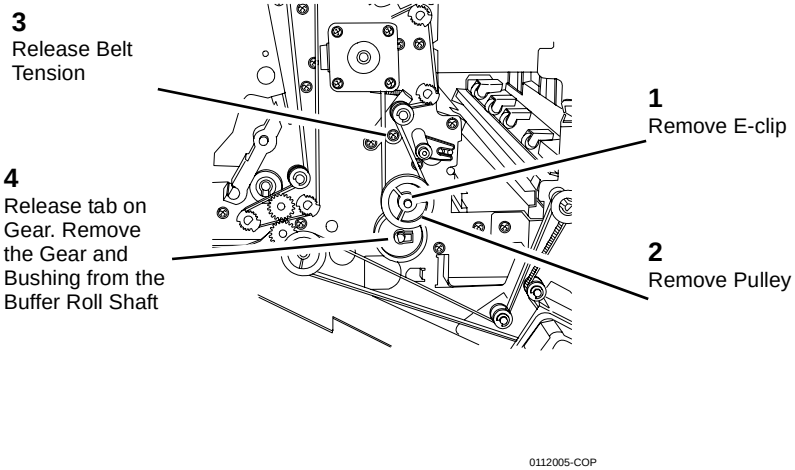

Figure 3 Removing Pulley and Gear

5. Open the Front Door.
6. Manually move the Stapler Assembly towards the back of the Finisher.

7. Remove the Buffer Roll (Figure 4).

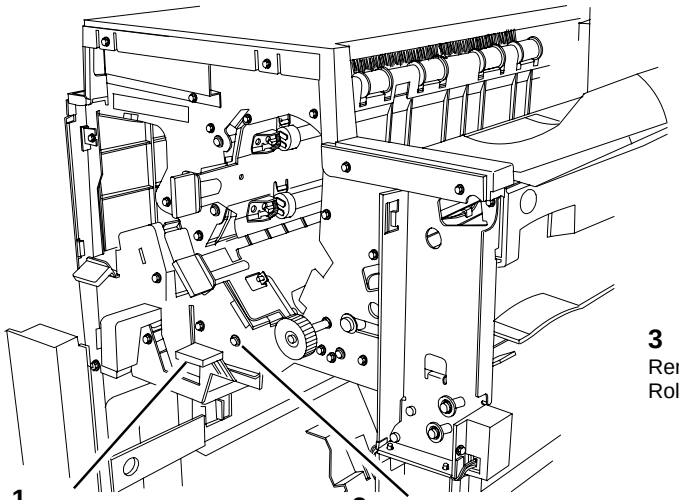

Figure 4 Removing the Buffer Roll

Replacement

1. Ensure that the Transport Gate is in the correct position when re-assembling.

REP 12.65 A/P Finisher Bottom Buffer Chute Assembly

Parts List on PL 21.10

Removal

WARNING

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

1. Open the Front Door.
2. Remove the Booklet Maker Unit (REP 12.55).
3. Remove the Baffle (Figure 1).

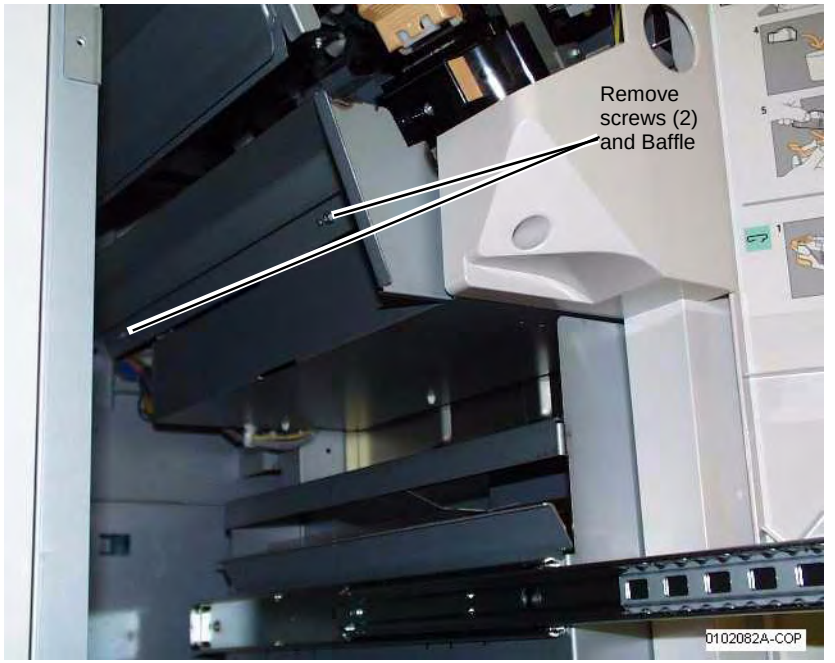

Figure 1 Removing Baffle

4. Remove the Bottom Buffer Chute Assembly (Figure 2).

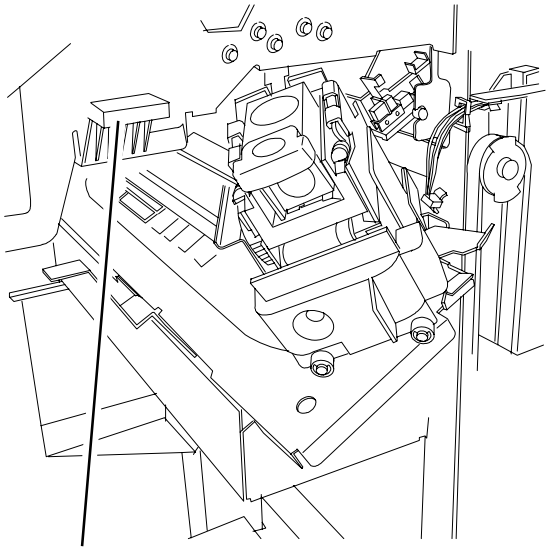

Figure 2 Removing the Bottom Buffer Chute Assembly

REP 12.66 A/P Finisher H-Transport Drive Belt

Parts List on PL 21.27

Removal

WARNING

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

1. Remove the Finisher (REP 12.50).
2. Remove the H-Transport Assembly (REP 12.51).
3. Remove the H-Transport Rear Cover (remove 3 screws and loosen 1 screw).
4. Remove the Upper Decurler Cover (PL 21.24).
5. Remove the H-Transport Center Tray (Figure 1).

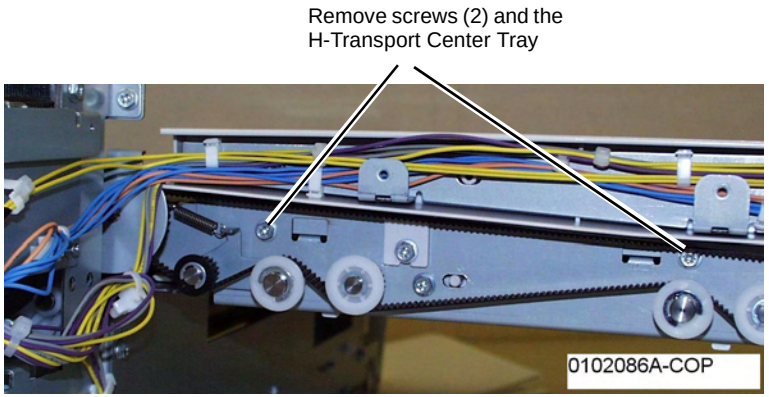

Figure 1 Removing the H-Transport Center Tray

6. Remove Screws and Washer (Figure 2).

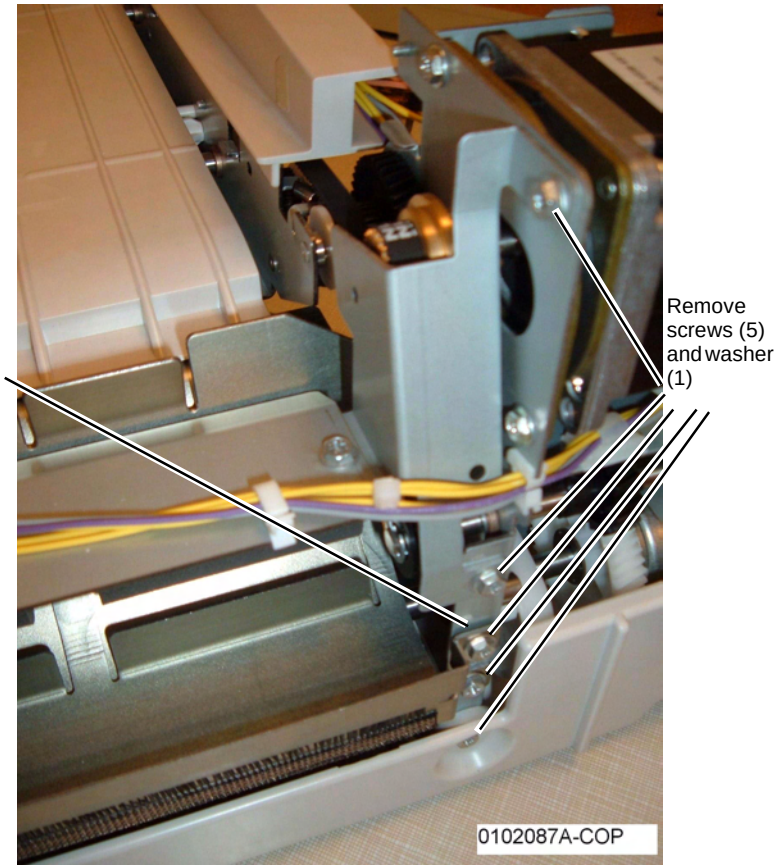

Figure 2 Removing Screws and Washer

7. Remove screws and release Drive Belt tension (Figure 3).

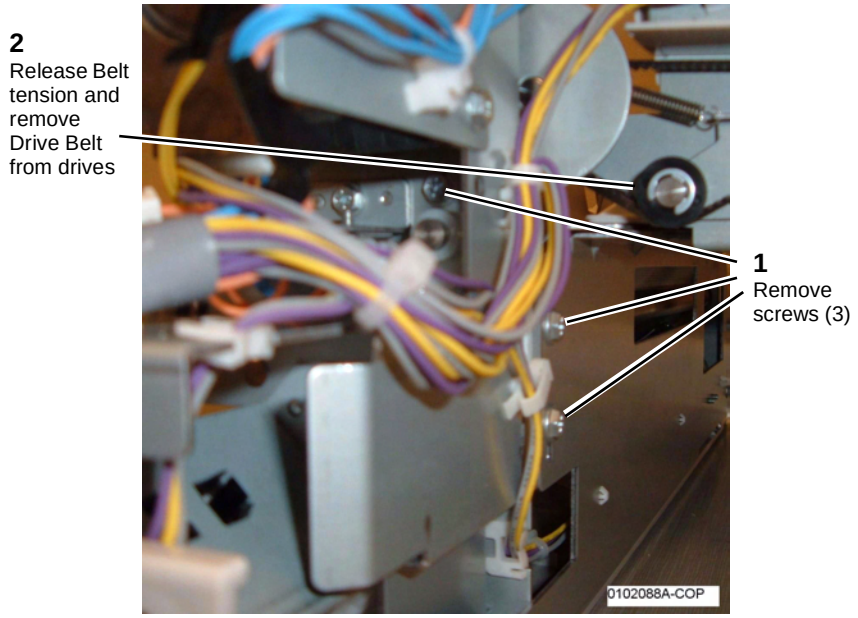

Figure 3 Removing screws and releasing Drive Belt from drives

8. Remove the H-Transport Drive Belt (Figure 4).

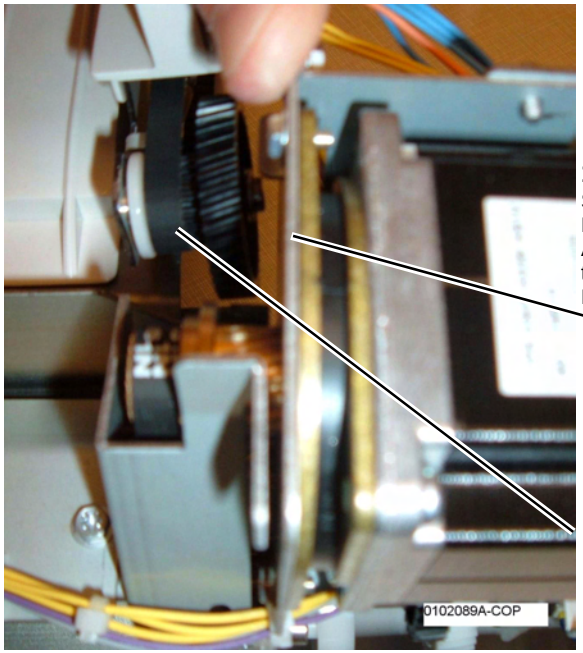

Figure 4 Removing the H-Transport Drive Belt

REP 12.67 A/P Finisher Eject Chute Assembly

Parts List on PL 21.7

Removal

WARNING

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

1. Remove the Front Door (REP 12.40).
2. Remove the Rear Upper Cover (REP 12.41).
3. Remove the Top Tray (REP 12.45).
4. Remove the Eject Cover (REP 12.46).
5. Remove E-clip and Bushing from the Eject Pinch Shaft (Figure 1).

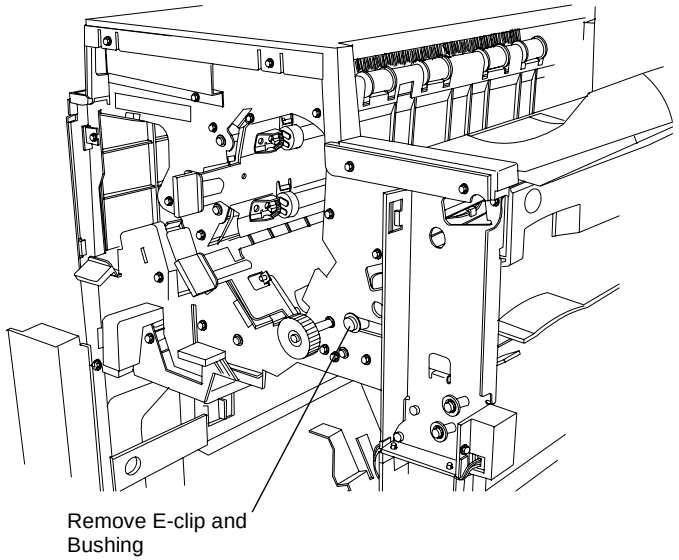

Figure 1 Removing E-clip and Bushing

6. Remove Pinch Springs and screws from the Eject Pinch Shaft (Figure 2).

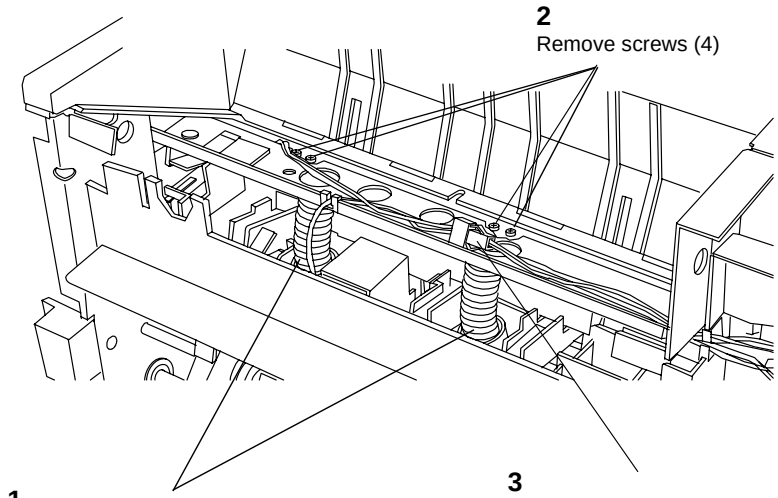

Figure 2 Removing Pinch Springs and screws

7. Remove the Eject Chute Assembly (Figure 3).

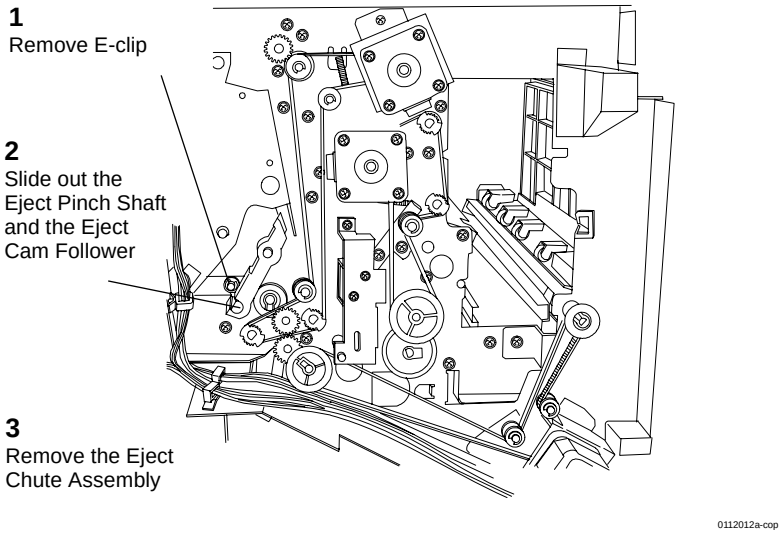

Figure 3 Removing the Eject Chute Assembly

REP 12.68 A/P Finisher PWB

Parts List on PL 21.12

Removal

WARNING

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

1. Check and record Finisher software version (GP 16).
2. Remove the Finisher Rear Upper Cover (REP 12.41).
3. Remove the Finisher Rear Lower Cover (REP 12.42).
4. Remove the Finisher PWB Cover (4 screws).
5. Remove the Finisher PWB (Figure 1).

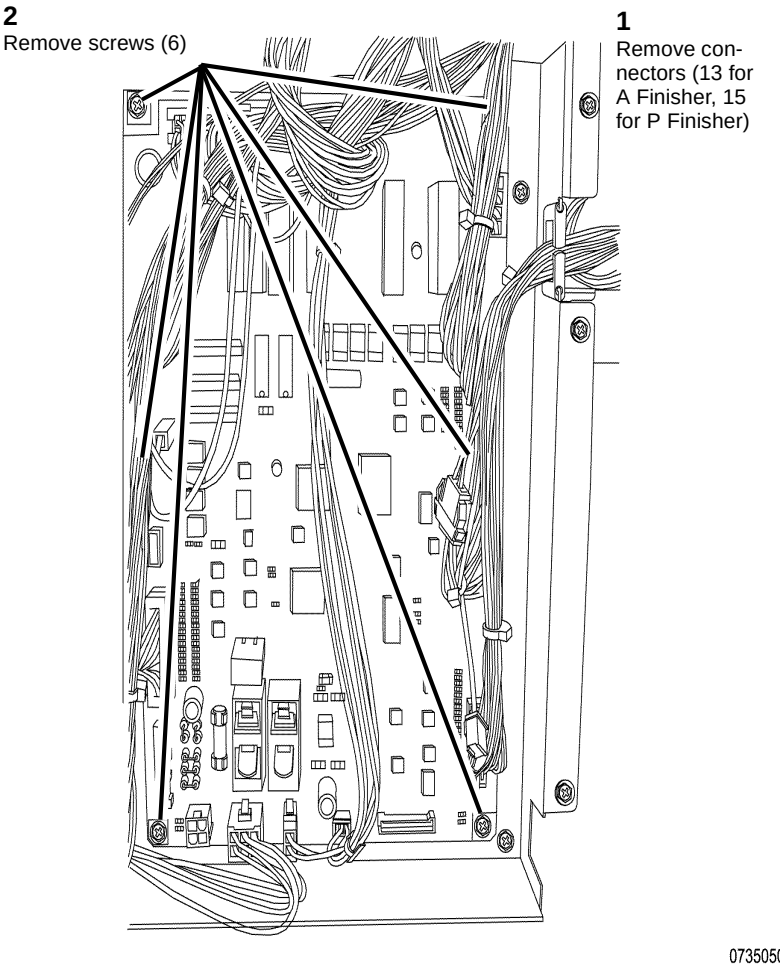

Figure 1 A/P Finisher PWB

Replacement

1. Check Finisher software version (GP 16) and compare with software version recorded in step 1 of the removal procedure.
2. If the current software version is lower than the previous version, load software to the Finisher (GP 15).

REP 14.1 Top Cover Assembly

Parts List on PL 10.2

Removal

WARNING

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

1. Without Finisher, go to step 7.
   With Office Finisher, go to step 2.
   With A/P Finisher, go to step 9.
2. Remove the Office Finisher H Transport Assembly (REP 12.1).
3. Remove the Office Finisher (REP 12.4).
4. Remove Front and Rear Brackets (Figure 1).

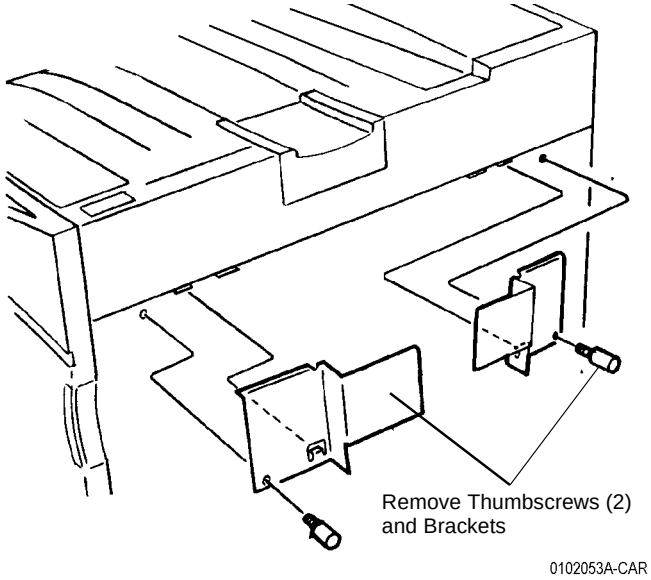

Figure 1 Removing Brackets

5. Remove Finisher Rack Assembly (REP 12.19).
6. Remove Gate Cover (Figure 2).

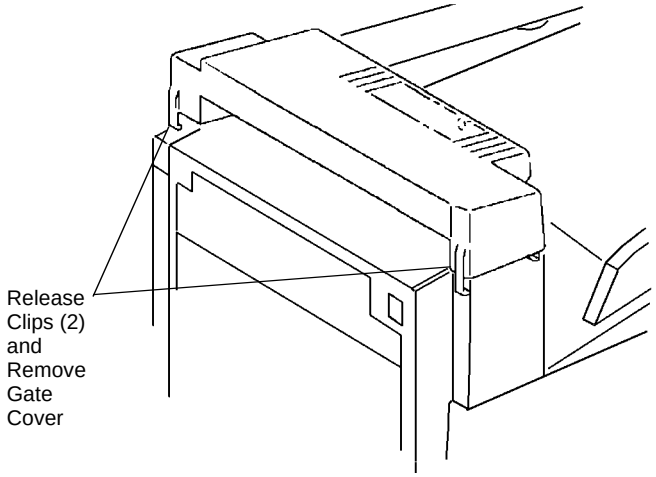

Figure 2 Removing Gate Cover

7. Remove the Right Cover (REP 14.3).
8. Remove the Top Cover (Figure 3).

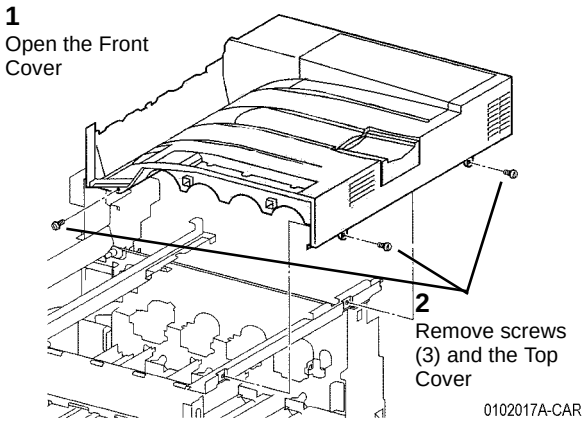

Figure 3 Removing Top Cover

9. Remove the A/P Finisher (REP 12.50).
10. Remove the A/P Finisher H-Transport (REP 12.51).
11. Remove the Right Cover (REP 14.3).
12. Remove the Top Cover (Figure 3).

REP 14.2 Rear Cover

Parts List on PL 10.3

Removal

WARNING

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

1. Disconnect all cables and AC power cords from the rear of the printer.
2. Remove the Rear Cover (Figure 1).
    1. Remove the Blind Cover.
    2. Disconnect the Tray Module harness connectors (2).
    3. Remove the screws (4).

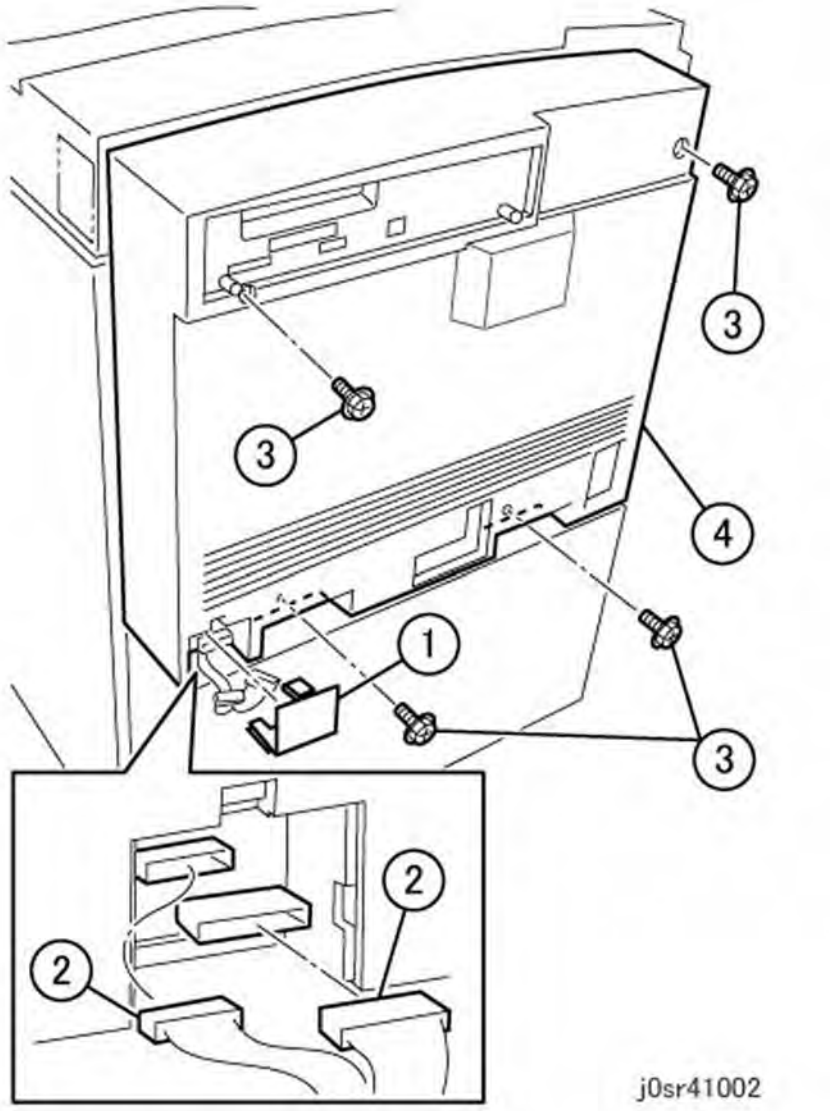

Figure 1 Removing Rear Cover

REP 14.3 Right Cover

Parts List on PL 10.1

Removal

WARNING

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

1. Open Front Cover.
2. Without Finisher, go to step 3.

   With Office Finisher, Remove Finisher (REP 12.4) and remove Finisher Rack Assembly (REP 12.19).

   With A/P Finisher, remove Finisher (REP 12.50) (REP 12.51) and remove Docking Plate (PL 21.3).
3. Remove Right Cover (Figure 1).
   a. Open Right Door.
   b. Remove Screws (3).
   c. Push cover down, or allow cover to drop slightly to release Hidden Tabs, then pull cover away and remove it.

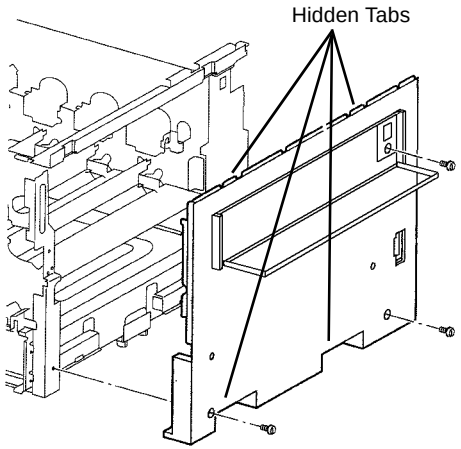

Figure 1 Removing the Right Cover

REP 14.4 Rear Left Middle Cover

Parts List on PL 10.3

Removal

WARNING

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

1. Remove Rear Cover (REP 14.2).
2. Open Left Cover Assembly.
3. Remove Rear Left Upper Cover (REP 14.5).
4. Remove Rear Left Middle Cover (Figure 1).
   a. Remove Screw (1).
   b. Lift slightly to disengage hidden tab and remove Rear Left Middle Cover.

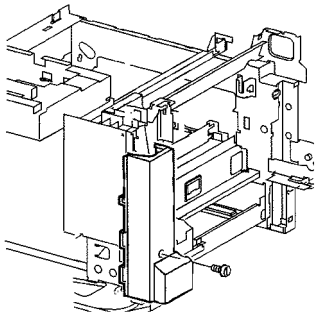

Figure 1 Removing Rear Left Middle Cover

REP 14.5 Rear Left Upper Cover

Parts List on PL 10.3

Removal

WARNING

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

1. Remove Rear Cover (REP 14.2).
2. Open Left Cover Assembly.
3. Remove Rear Left Upper Cover (Figure 1).
   a. Remove Screw (1).
   b. Push end of cover in direction shown to release Hidden Tabs (2).
   c. Pull up to release Hidden Tab (1) and remove Rear Left Upper Cover.

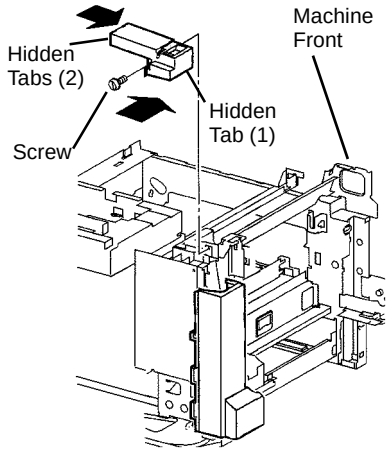

Figure 1 Removing Rear Left Upper Cover

REP 14.6 Left Lower Cover Assembly

Parts List on PL 2.3

Removal

WARNING

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

1. Remove Left Lower Cover Assembly (Figure 1).
   a. Open Left Lower Cover Assembly.
   b. Carefully observe position of wiring harness for later reinstallation.
   c. Disconnect harness connector and remove the harness from the harness clip.
   d. Use flat tipped screwdriver to pry out the Pivot Pin.
   e. Remove the Pivot sleeve.
   f. Remove Lower Left Cover.

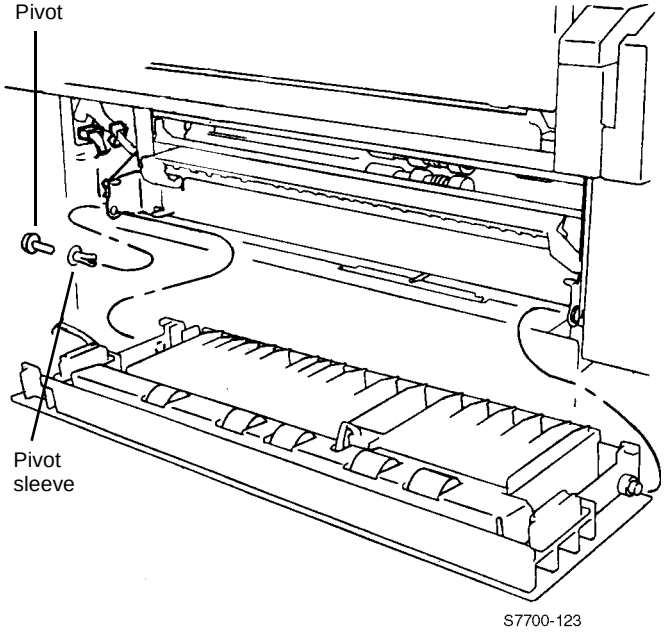

Figure 1 Removing Left Lower Cover Assembly

Replacement

NOTE: *Partially install the Pivot sleeve. Then install the Left Lower Cover Assembly and push in the Pivot sleeve.*

REP 14.7 Front Cover Assembly

Parts List on PL 10.1

Removal

WARNING

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

1. Remove Front Cover (Figure 1).
   a. Open Tray 1 approximately 100 mm for possible cover support.
   b. Open Front Cover.
   c. Remove screw to disconnect Support Strap from cover.
   d. Repeat step c. for the other strap.
   e. Remove screws (2) on Hinge Pin Locks and remove hinge pin locks.
   f. Remove Front Cover.

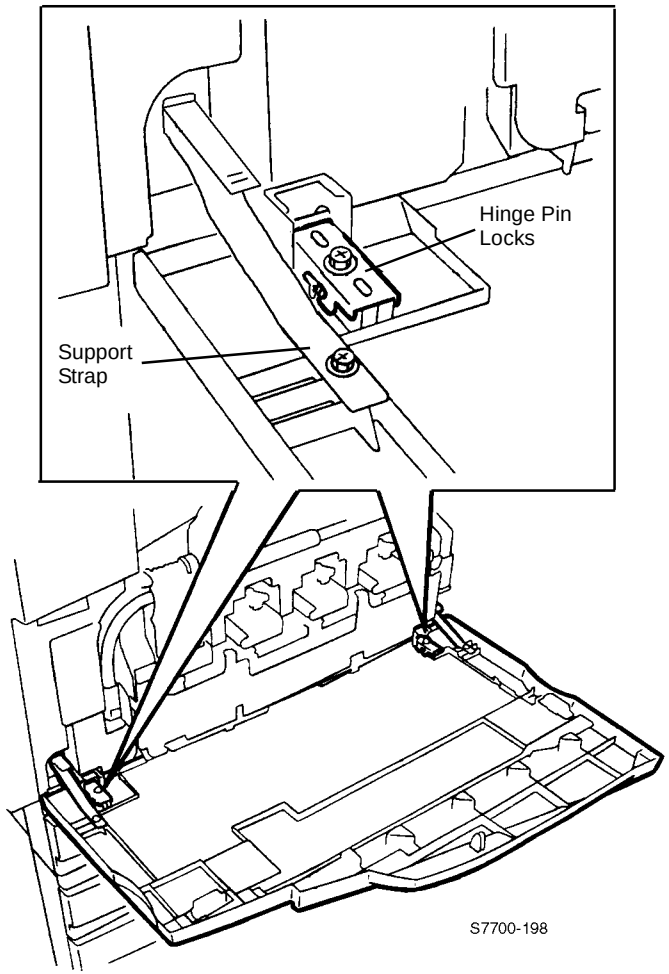

Figure 1 Removing Front Cover

REP 14.8 Fuser Cover

Parts List on PL 10.2

Removal

WARNING

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

1. Open Front Cover.
2. Open Left Cover Assembly.
3. Remove Fuser Cover (Figure 1).
   a. Remove Screws (2).
   b. Move the cover up to release the Hidden Tabs (3) and pull out to remove the cover.

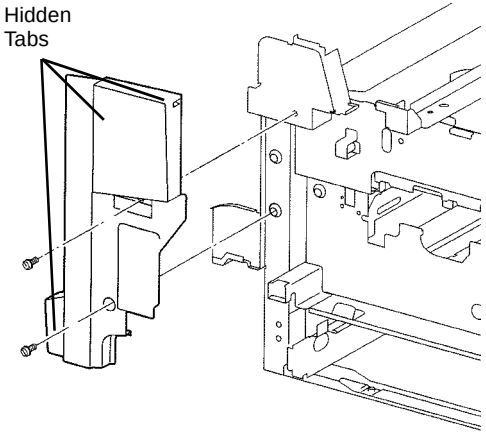

Figure 1 Removing Fuser Cover

REP 14.9 Rear Cover (Tray Module)

Parts List on PL 15.11 (3TM), PL 16.16 (TTM)

Removal

WARNING

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

1. Remove the Screws (4) and remove the Rear Cover.

REP 14.10 Inner Cover

Parts List on PL 4.1

Removal

WARNING

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

1. Open the Front Cover.
2. Remove the Fuser Cover (REP 14.8).
3. Remove Toner Bottle Cover (REP 9.3).
4. Remove Inner Cover (Figure 1).
   a. Open the Harness Clip and remove the harness from the Clip.
   b. Remove the Screw and remove the cover.

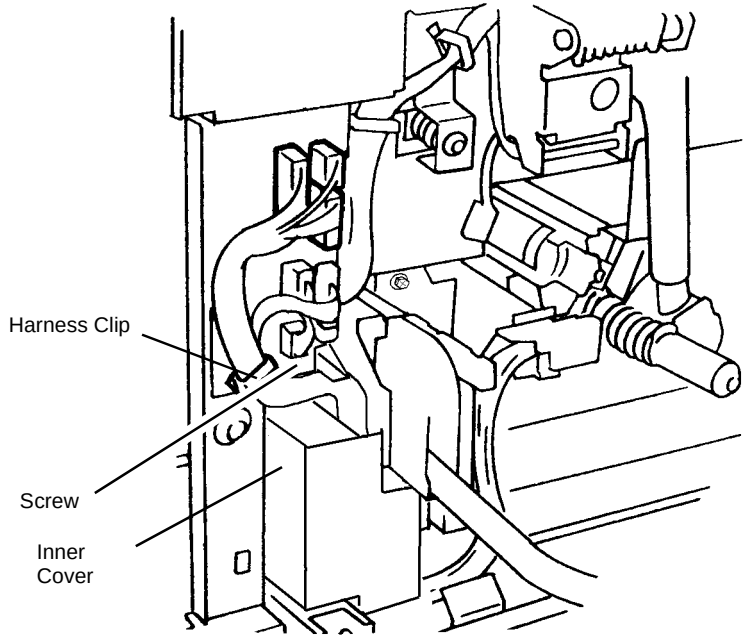

Figure 1 Removing Inner Cover

REP 14.11 Left Cover Assembly (Tray Module)

Parts List on PL 16.13 (TTM)

Parts List on PL 15.10 (3TM)

Removal

WARNING

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

1. Remove Left Lower Cover (REP 14.12).
2. Remove Left Cover Assembly (Figure 1).
   a. Remove Screws (2) and Straps (2) from frame.
   b. Remove Screw and Pivot Support, and remove Left Cover Assembly.

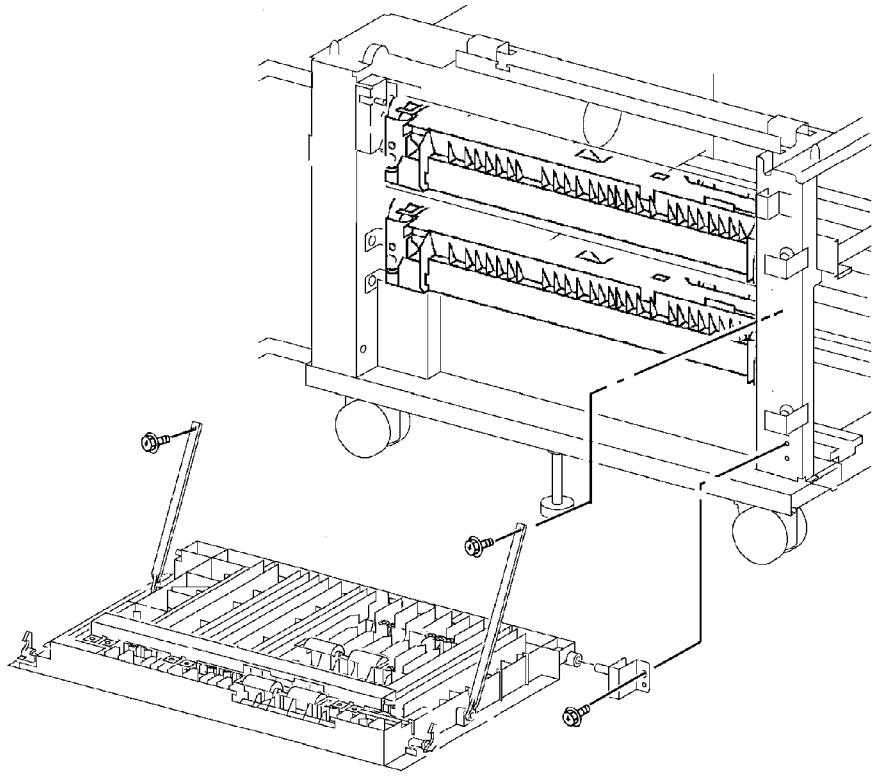

Figure 1 Removing Left Cover Assembly

REP 14.12 Left Lower Cover (Tray Module)

Parts List on PL 16.16 (TTM)

Parts List on PL 15.11 (3TM)

Removal

WARNING

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

1. Remove the Left Lower Cover (Figure 1).

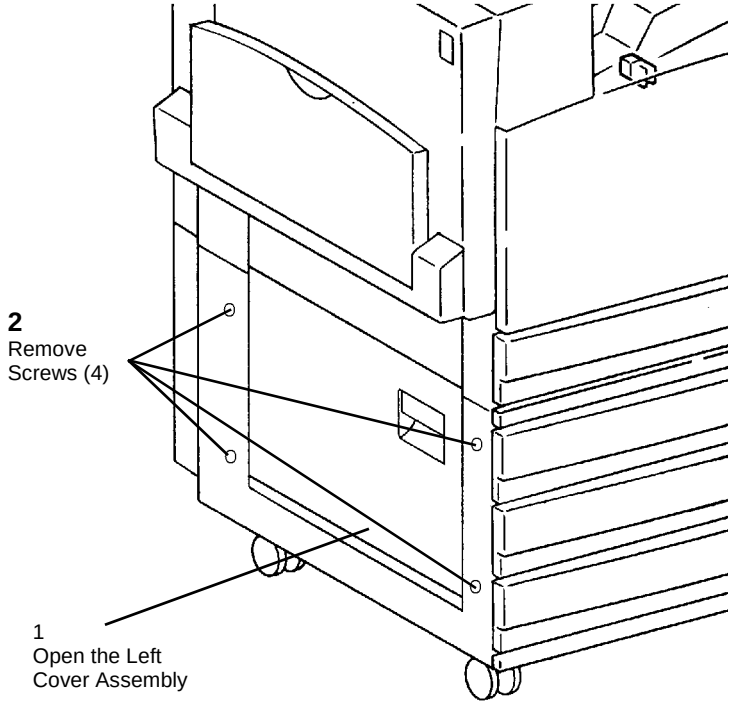

Figure 1 Removing the Left Lower Cover

REP 15.1.1 DADF

Parts List on PL 20.1

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

*Press the [Job Status] button and check the **Current and Pending Jobs** tab to ensure that there are no jobs in progress or pending.*

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.

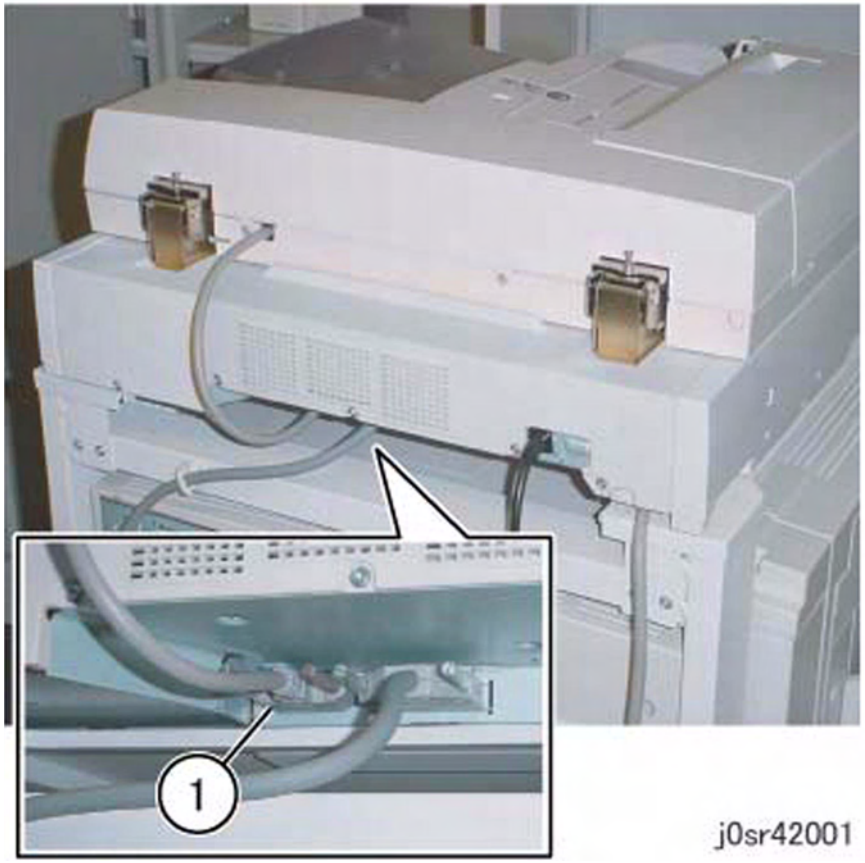

Figure 1 Disconnecting the connector

2. Remove the DADF (Figure 2)
   1. Remove the Knob Screws (x2).
   2. Remove the DADF.

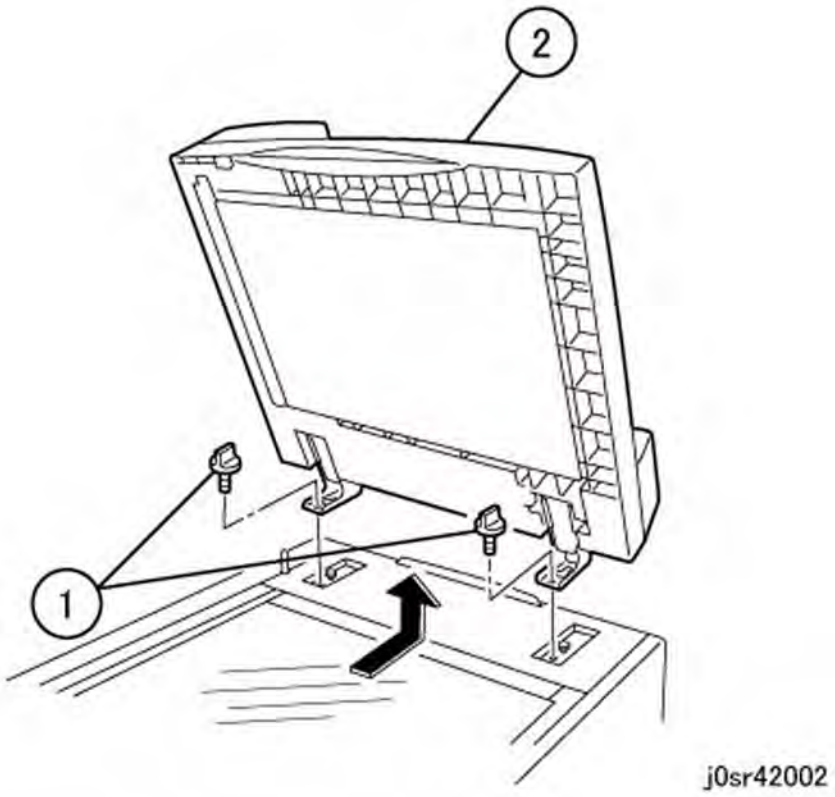

Figure 2 Removing the DADF

Replacement

1. When installing the DADF, push the DADF to the front, then secure (Figure 3)

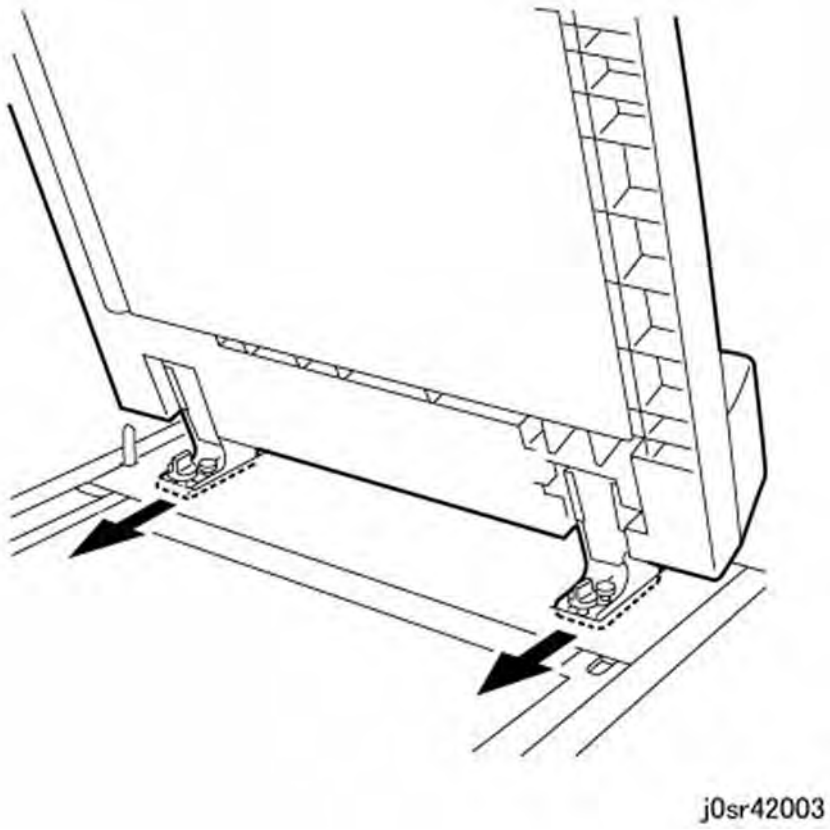

Figure 3 Installing the DADF

REP 15.1.2 DADF Platen Cushion

Parts List on PL 20.1

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

*Press the [Job Status] button and check the **Current and Pending Jobs** tab to ensure that there are no jobs in progress or pending.*

***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.

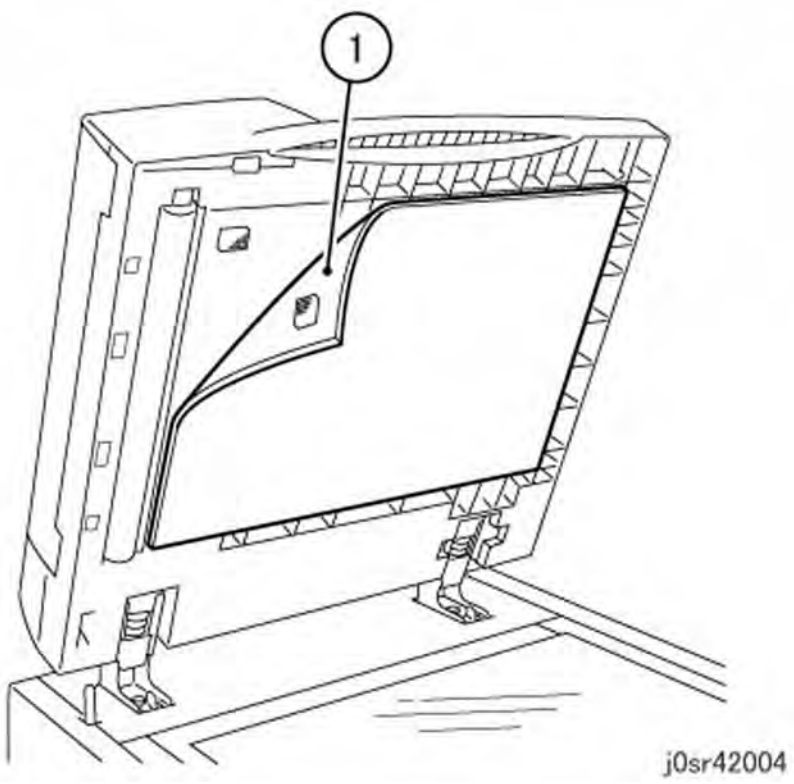

Figure 1 Removing the DADF Platen Cushion

Replacement

1. 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.

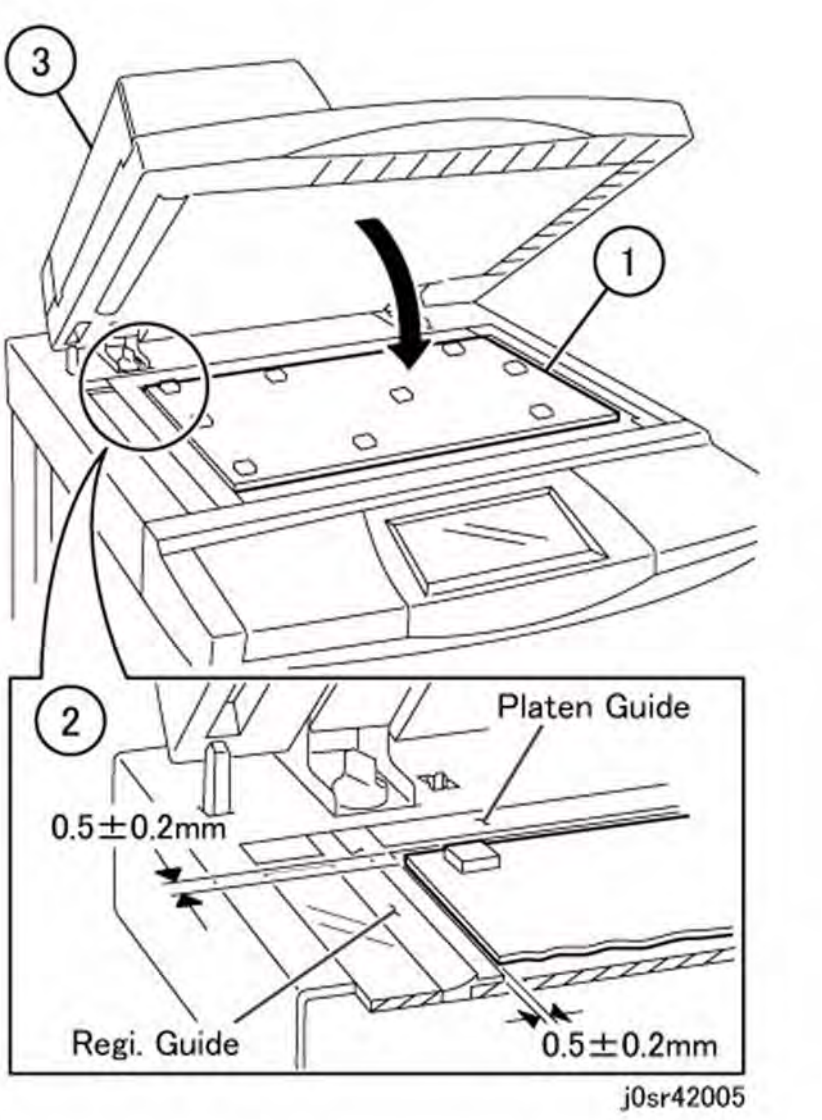

Figure 2 Installing the DADF Platen Cushion

REP 15.2.1 DADF Document Tray

Parts List on PL 20.10

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

*Press the [Job Status] button and check the **Current and Pending Jobs** tab to ensure that there are no jobs in progress or pending.*

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 the connector.
   3. Disconnect the connector.
   4. Disconnect the screws (M3x6: Silver).
   5. Disconnect the ground wire.
   6. Unhook the Wire Harness (x2).

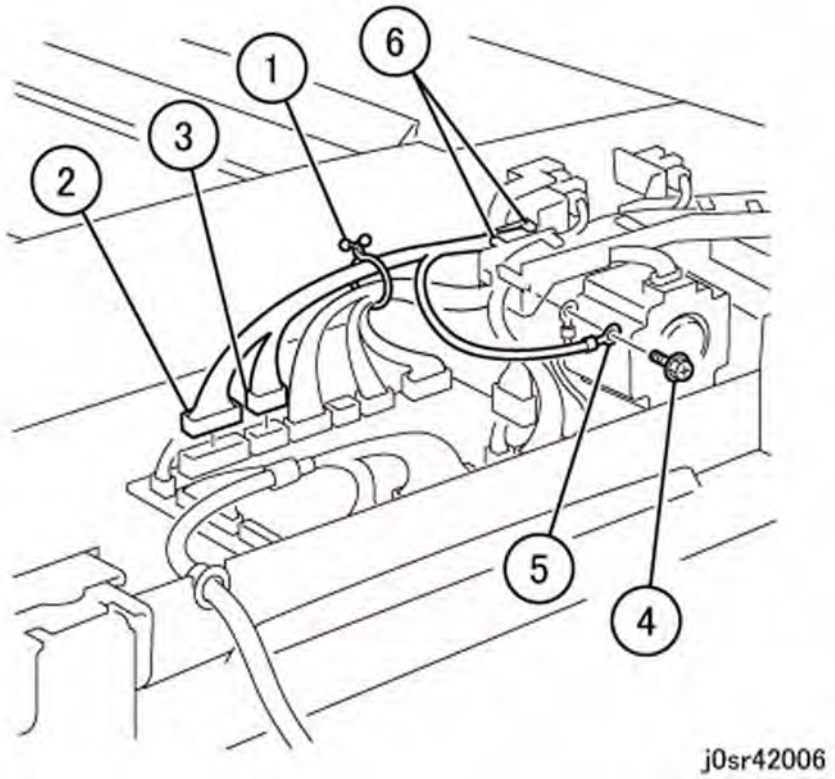

Figure 1 Disconnecting the connectors

4. Remove the DADF Document Tray (Figure 2).
   1. Remove the Self-Self-tapping Screw (3x8: Silver).
   2. Remove the Tray Holder.
   3. Remove the Washer.
   4. Remove the Screw.
   5. Remove the DADF Document Tray.
   6. Pull out the Wire Harness.

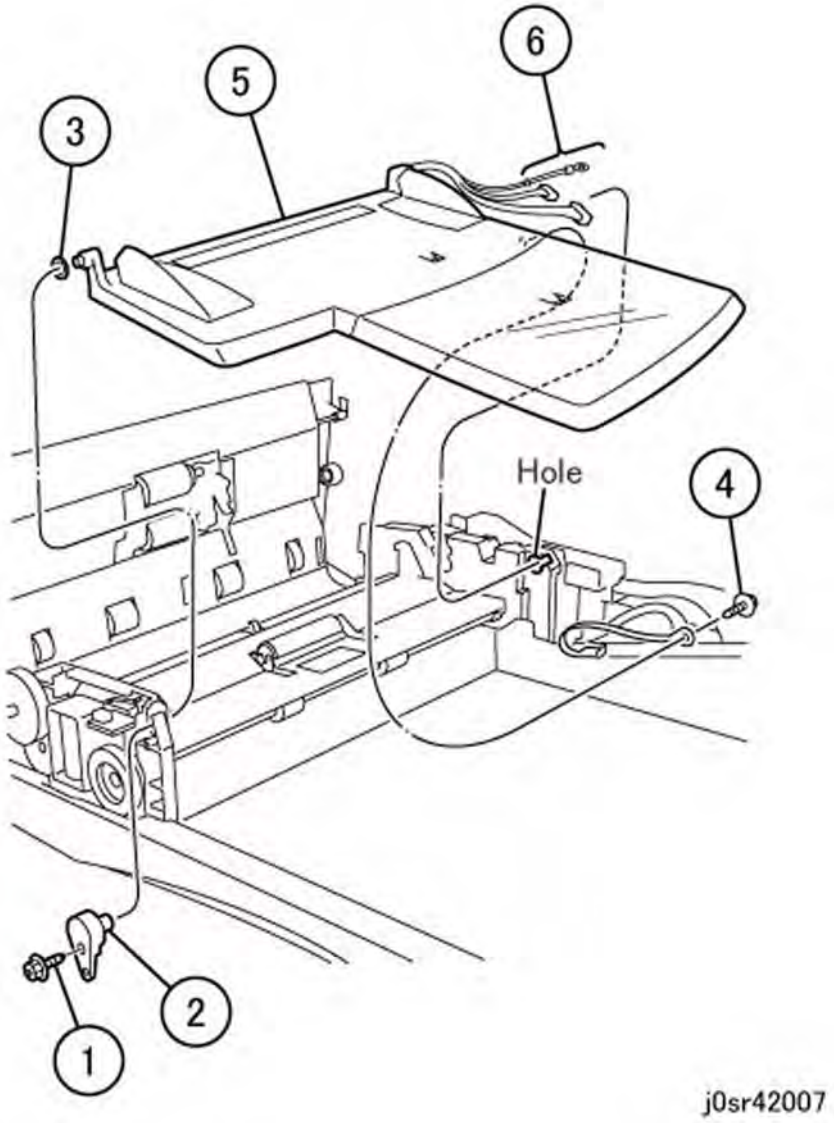

Figure 2 Removing the DADF Document Tray

Replacement

1. To install, carry out the removal steps in reverse order.

REP 15.2.2 DADF Feeder Assembly

Parts List on PL 20.4

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

*Press the [Job Status] button and check the **Current and Pending Jobs** tab to ensure that there are no jobs in progress or pending.*

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).

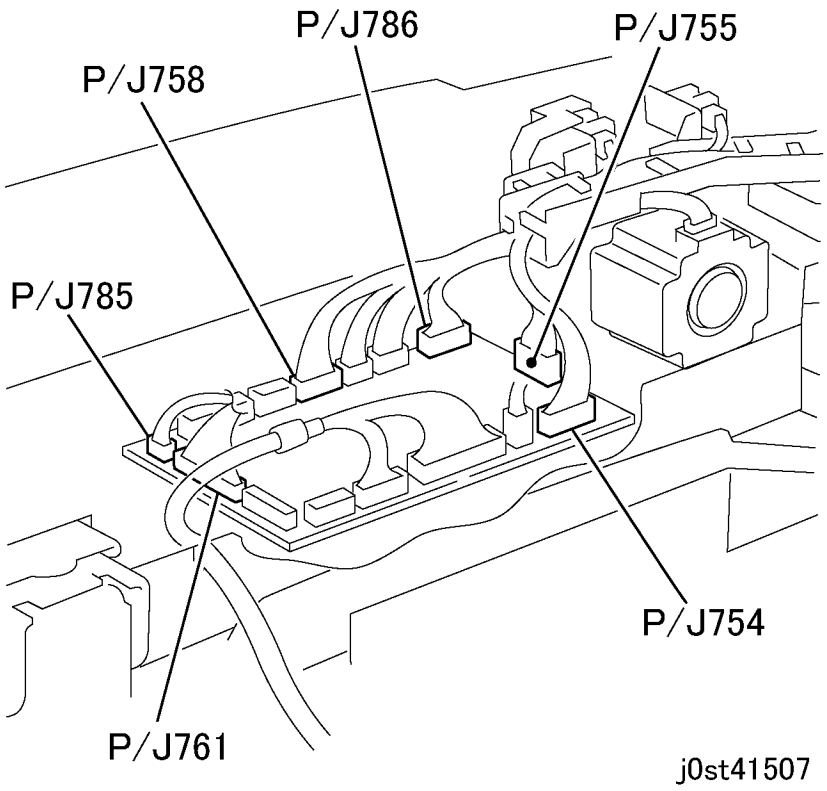

Figure 1 Disconnecting the DADF PWB connectors

6. Remove the lever and the 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.
   4. Remove the washer.
   5. Move the DADF Interlock Switch.
   6. Disconnect the connector.
   7. Disconnect the connector.
   8. Remove the Wire Harness from the clamps (x3).

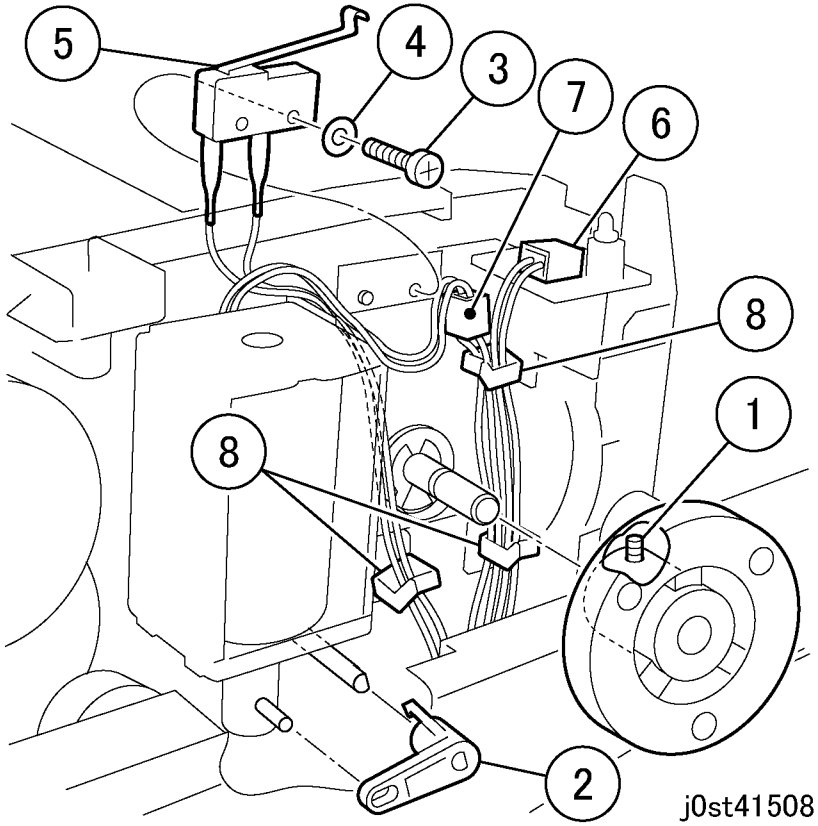

Figure 2 Removing the Lever and Wire Harness

7. Remove the DADF Feeder Assembly (Figure 3).
   1. Remove the screw (M4x8).
   2. Remove the Self-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.

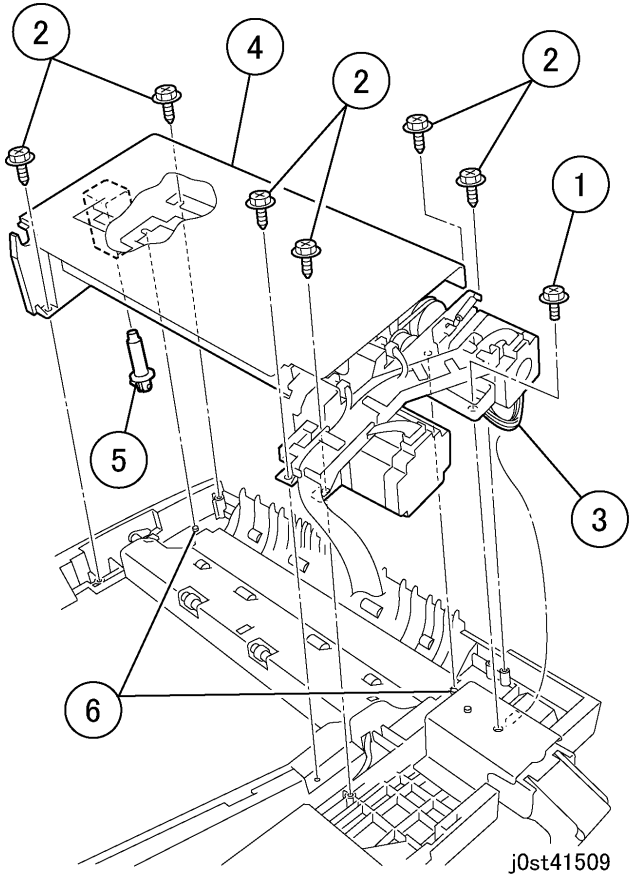

Figure 3 Removing the DADF Feeder Assembly

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 20.2

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

*Press the [Job Status] button and check the **Current and Pending Jobs** tab to ensure that there are no jobs in progress or pending.*

1. Open the Top Cover Assembly.
2. Remove the DADF Front Cover (Figure 1).
   1. Remove the Self-tapping Screw (3x8:Silver).
   2. Remove the tabs (x2) from the Tab Slot and remove the DADF Front Cover.

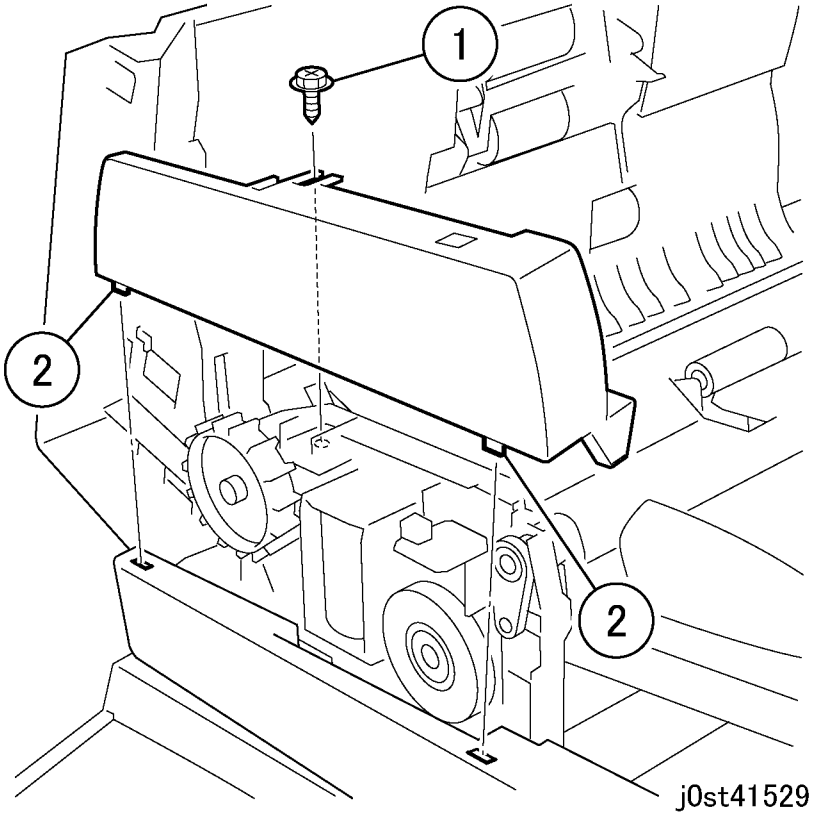

Figure 1 Removing the DADF Front Cover

Replacement

1. To install, carry out the removal steps in reverse order.

REP 15.2.4 DADF Rear Cover

Parts List on PL 20.2

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

*Press the [Job Status] button and check the **Current and Pending Jobs** tab to ensure that there are no jobs in progress or pending.*

1. Open the Top Cover.
2. Open the DADF Document Tray.
3. Remove the DADF Rear Cover (Figure 1)
    1. Remove the Self-tapping Screws (3x8:Silver) and the Tray Support.
    2. Remove the screws (M3x10:Silver:2).
    3. Release the hooks (x2).
    4. Remove the tabs (x4) from the Tab Slot and remove the Data Rear Cover.

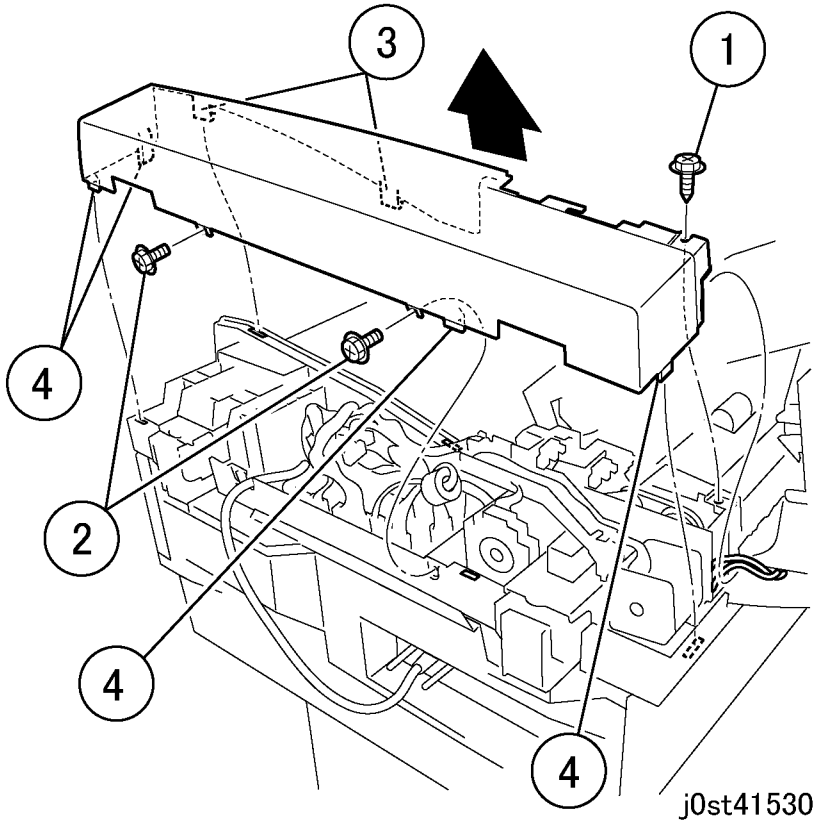

Figure 1 Removing the DADF Rear Cover

REP 15.3.1 DADF PWB

Parts List on PL 20.3

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.

*Press the [Job Status] button and check the **Current and Pending Jobs** tab to ensure that there are no jobs in progress or pending.*

1. Run a configuration report and check the Software version for the DADF PWB.
2. Remove the DADF Rear Cover (REP 15.2.4).
3. Disconnect the DADF PWB connectors (Figure 1).
   1. Disconnect the connectors (x13).

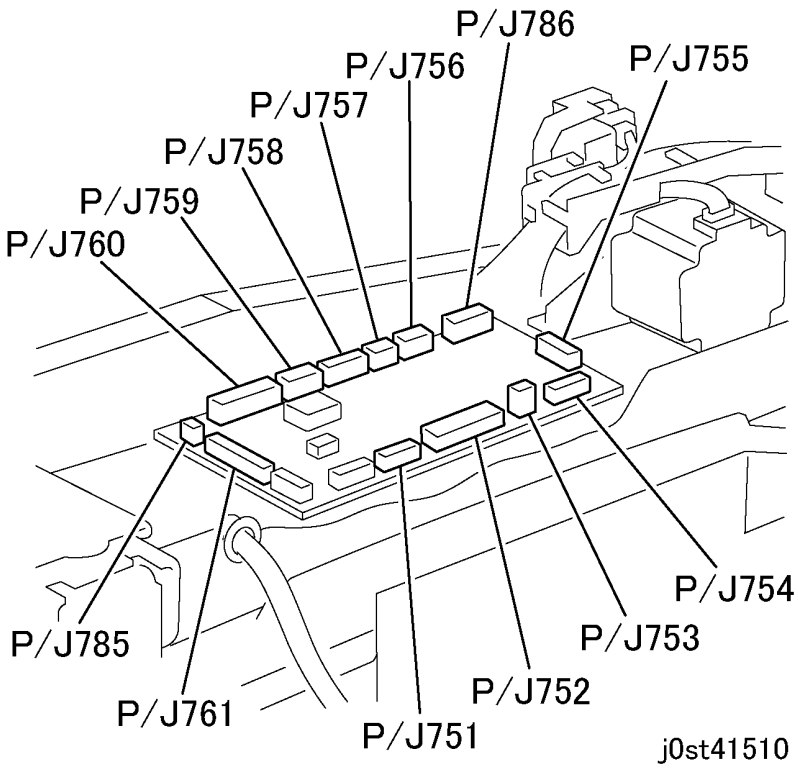

Figure 1 Disconnecting the DADF PWB connectors

4. Remove the DADF PWB (Figure 2).
   1. Remove the screws (M3x6).
   2. Remove the Self-tapping Screws (3x8:4).
   3. Disconnect the ground wire.
   4. Remove the DADF PWB.

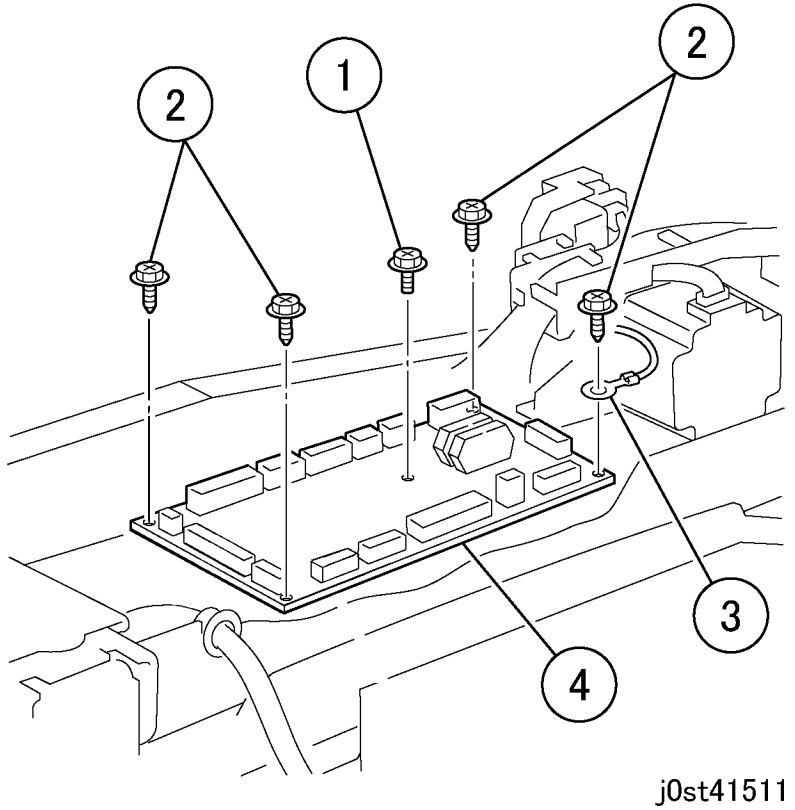

Figure 2 Removing the DADF PWB

Replacement

1. To install, carry out the removal steps in reverse order.
2. Run a configuration report and check the Software version for the DADF PWB. If it is lower than the version of Software on the original configuration report run in step 1 of the **Removal**, upgrade the software as required (GP 7)

REP 15.3.2 Left Counter Balance

Parts List on PL 20.3

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

*Press the [Job Status] button and check the **Current and Pending Jobs** tab to ensure that there are no jobs in progress or pending.*

***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 Self-tapping Screws (4x12:4).
   2. Remove the Left Counter Balance.

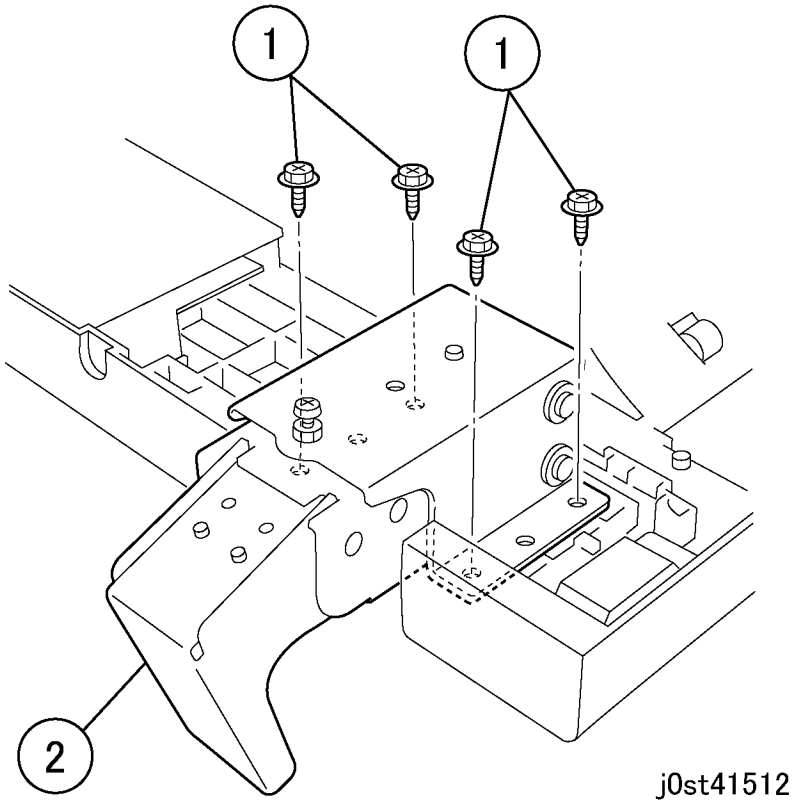

Figure 1 Removing the Left Counter Balance

Replacement

1. To install, carry out the removal steps in reverse order.

REP 15.3.3 Right Counter Balance

Parts List on PL 20.3

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

*Press the [Job Status] button and check the **Current and Pending Jobs** tab to ensure that there are no jobs in progress or pending.*

***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. Disconnect the ground wire.
    4. Remove the Self-tapping Screws (4x12:4).

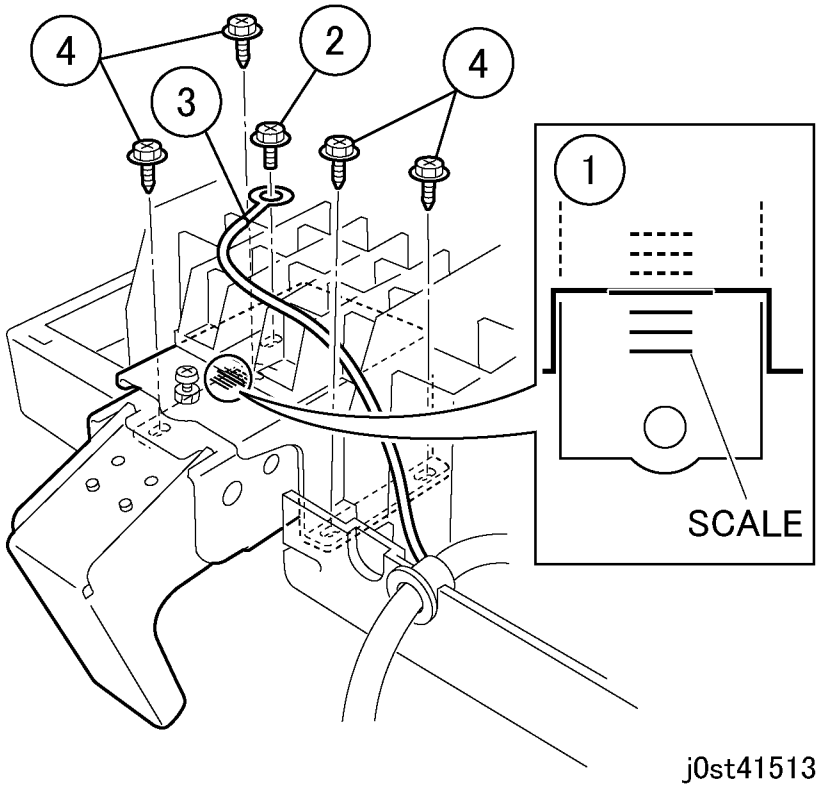

Figure 1 Unfastening the Right Counter Balance

4. Remove the Right Counter Balance (Figure 2).
    1. To remove, slide the Right Counter Balance in the direction of the arrow.
    2. Precautions during installation:
        A.Slot
        B.Boss
        C.Cutout

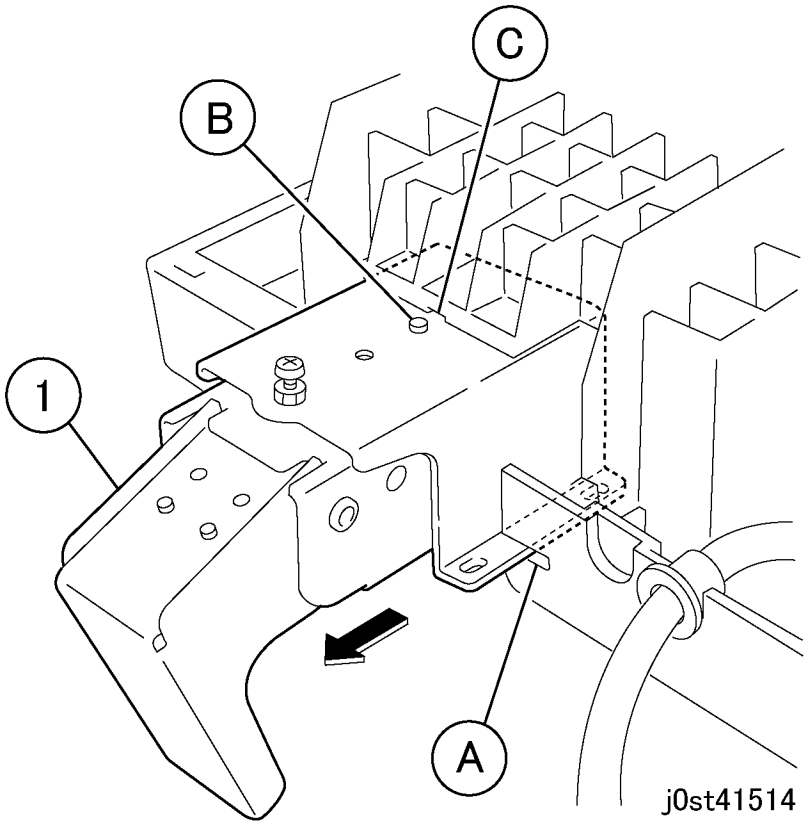

Figure 2 Removing the Right Counter Balance

Replacement

1. Check DADF (ADJ 15.1.6).

REP 15.4.1 Retard Roll

Parts List on PL 20.4

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

*Press the [Job Status] button and check the **Current and Pending Jobs** tab to ensure that there are no jobs in progress or pending.*

***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 Housing (Figure 1).
    1. Remove the clip.
    2. Bend the boss in the direction of the arrow to remove the Retard Housing.

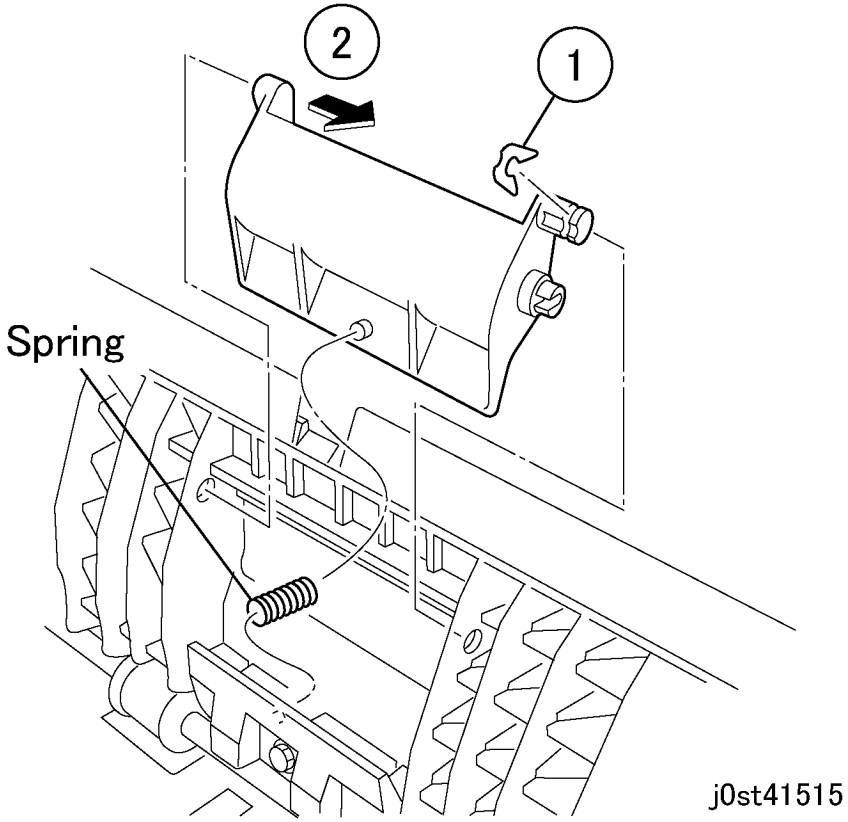

Figure 1 Removing the Retard Housing)

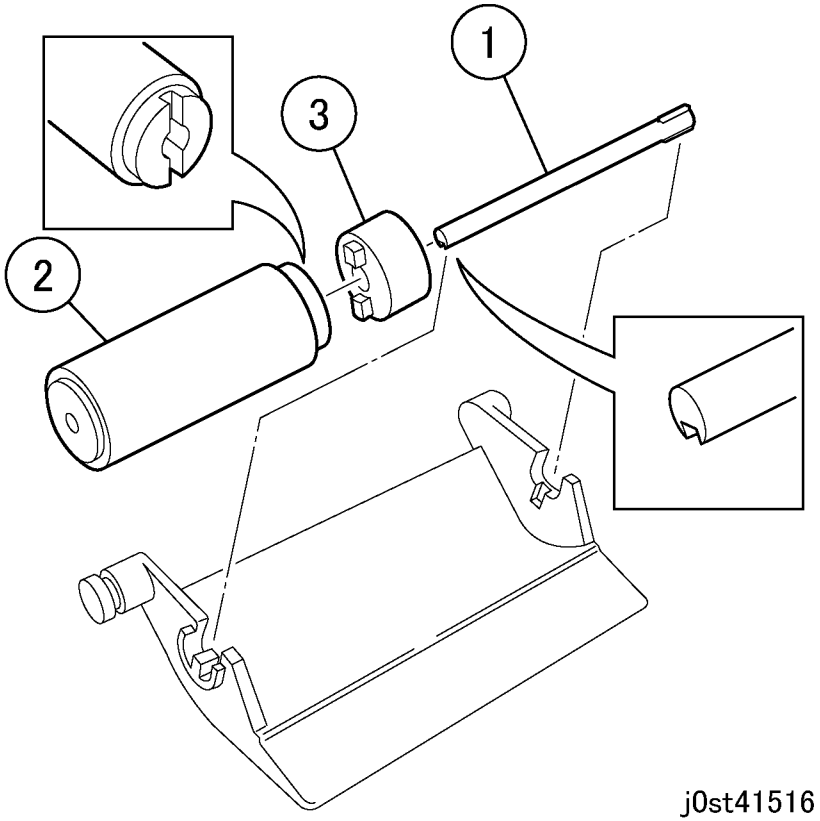

Figure 2 Removing the Retard Roll

4. Remove the Retard Roll (Figure 2).
   1. Remove the shaft.
   2. Remove the Retard Roll.
   3. Remove the Torque Limiter.

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 20.5

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

*Press the [Job Status] button and check the **Current and Pending Jobs** tab to ensure that there are no jobs in progress or pending.*

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.

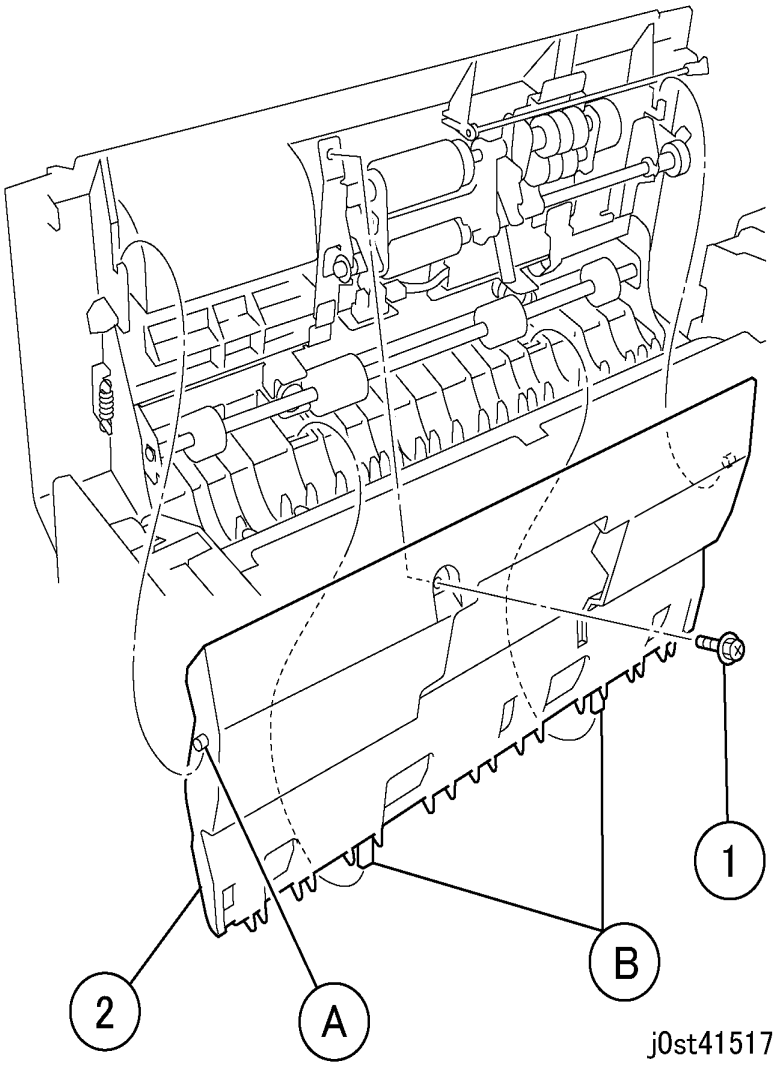

Figure 1 Removing the Feed Upper Chute

4. Remove the Harness Guide (Figure 2).
   1. Loosen the screw.
   2. Disconnect the ground wire.
   3. Remove the Self-tapping Screw (3x8).
   4. Unfasten the Harness Guide.

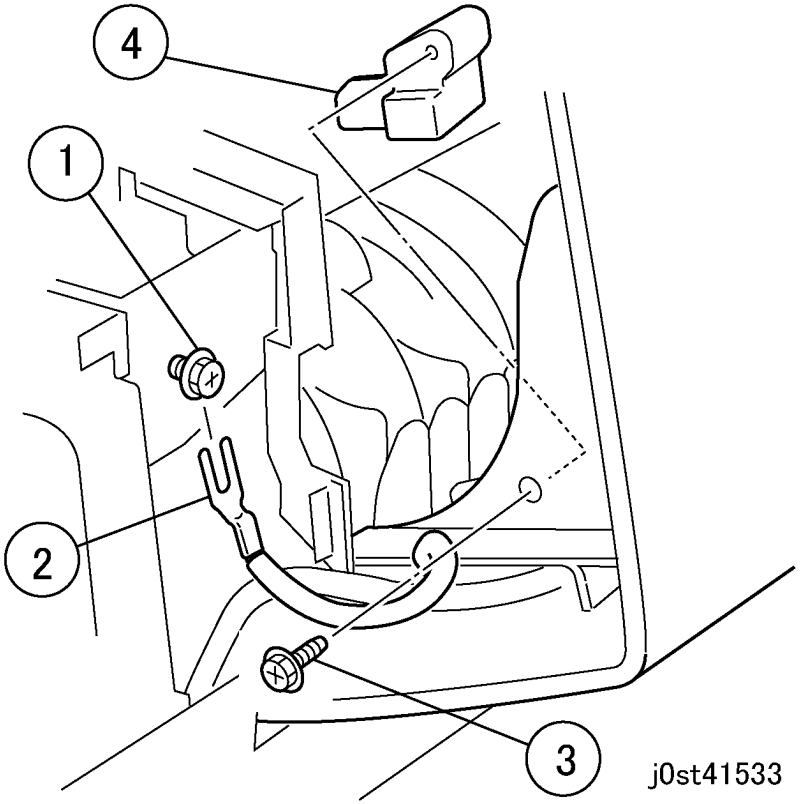

Figure 2 Removing the Harness Guide

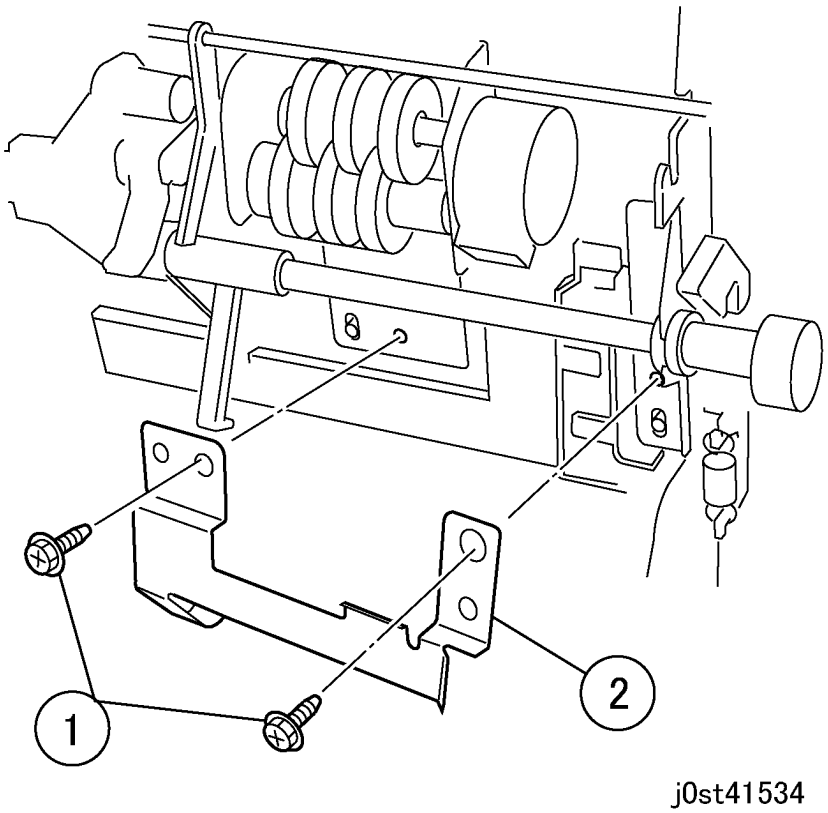

Figure 3 Removing the Plate Spring

5. Remove the Plate Spring (Figure 3).
   1. Remove the Self-tapping Screw (3x8:2).
   2. Remove the Plate Spring.

6. Remove the Top Cover with the Wire Harness connected (Figure 4).
   1. Remove the screw (M4x8).
   2. Remove the Stud Bracket.
   3. Remove the stud.
   4. Remove the Top Cover Assembly.

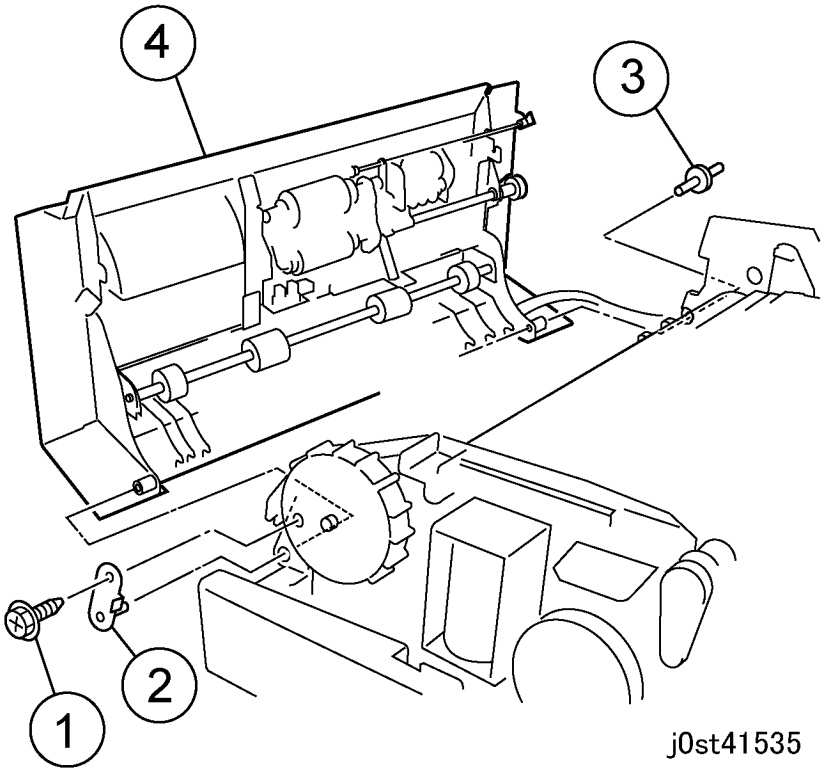

Figure 4 Removing the Top Cover Assembly

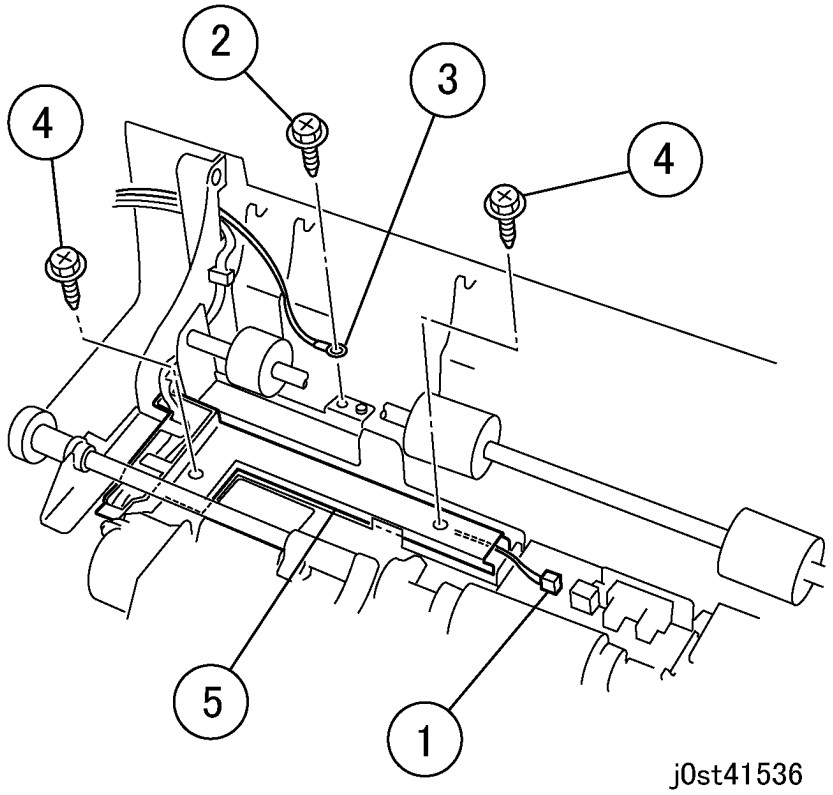

Figure 5 Unfastening the Wire Harness

7. Unfasten the Wire Harness (Figure 5).
   1. Disconnect the connector.
   2. Remove the Self-tapping Screw (3x8).
   3. Disconnect the ground wire.
   4. Remove the Self-tapping Screw (3x8:2).
   5. Unfasten the Harness Guide.

8. Remove the Wire Harness from the Top Cover (Figure 6).
   1. Disconnect the connector.
   2. Remove the Wire Harness from the Harness Guide.
   3. Remove the Wire Harnesses (x3) from the square hole and remove the Top Cover.

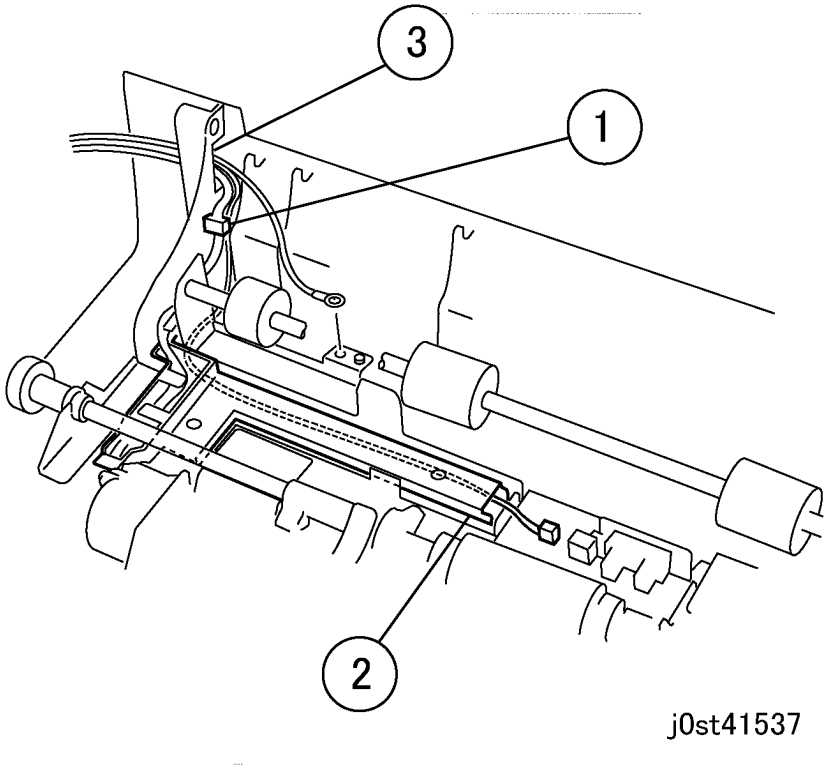

Figure 6 Removing the Wire Harness

Replacement

1. Remove the Wire Harness from the new Top Cover Assembly when installing the cover.
2. Remove the Feed Upper Chute and Plate Spring from the new Top Cover Assembly (Figure 7).
   1. Remove the screw (M3x6).
   2. Remove the Feed Upper Chute.
   3. Remove the Self-tapping Screw (3x8:2).
   4. Remove the Plate Spring.

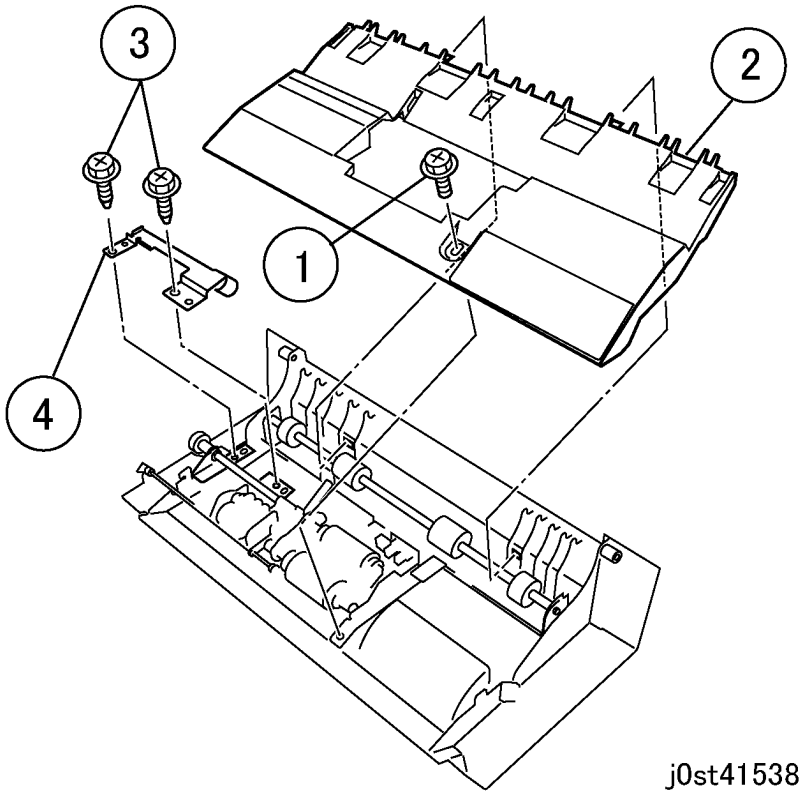

Figure 7 Removing the Feed Upper Chute and Plate Spring

3. Remove the Wire Harness from the new Top Cover (Figure 8).
   1. Disconnect the connectors (x2).
   2. Remove the Self-tapping Screw (3x8:3).
   3. Remove the Wire Harness (x3) from the square hole.

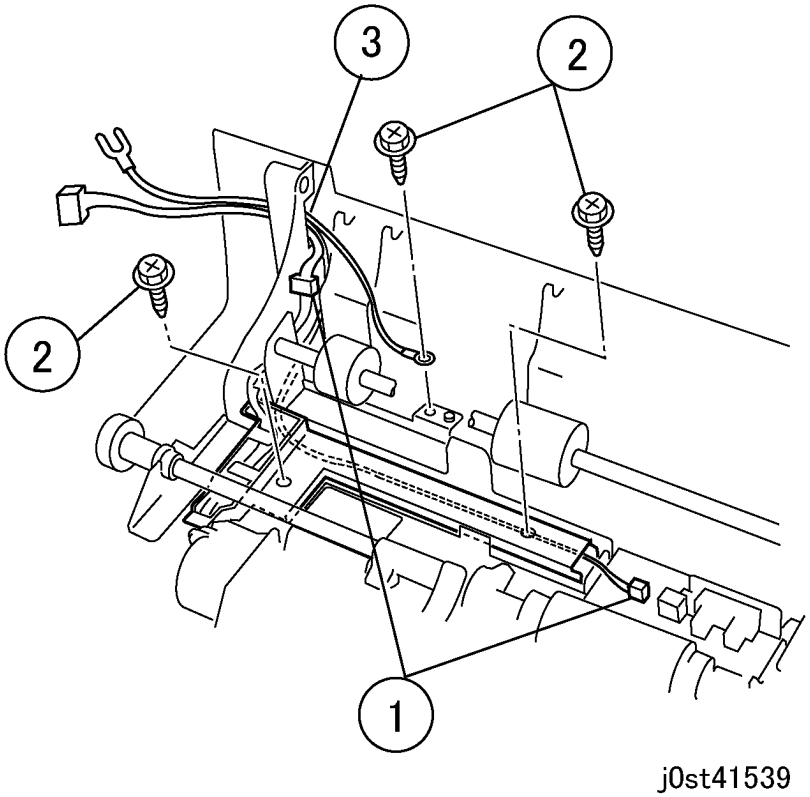

Figure 8 Removing the Wire Harness

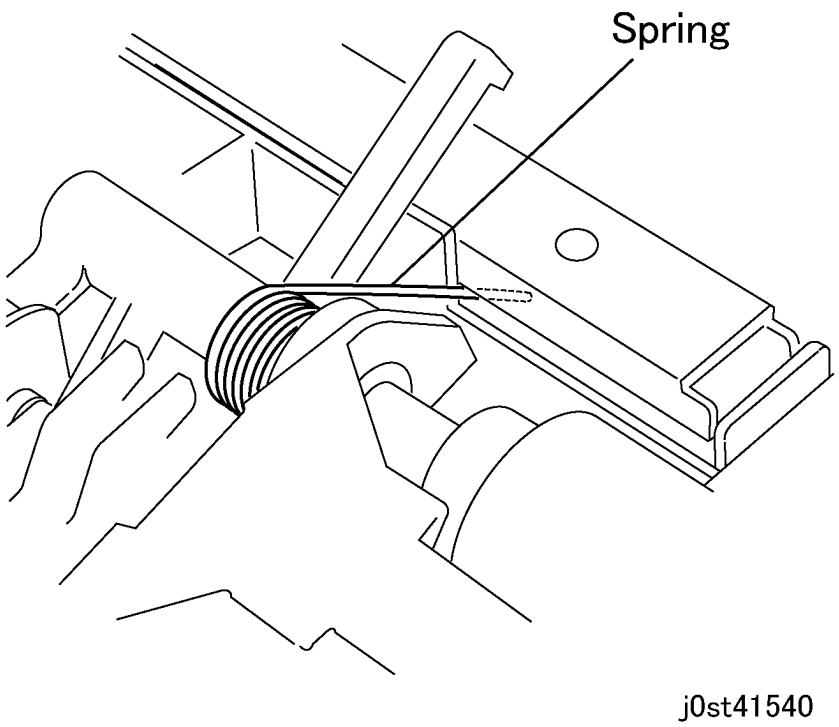

Figure 9 Hooking on the spring

4. Hook on the spring when securing the Harness Guide (Figure 9).

REP 15.6.1 Nudger Roll, Feed Roll

Parts List on PL 20.6

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

*Press the [Job Status] button and check the **Current and Pending Jobs** tab to ensure that there are no jobs in progress or pending.*

***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.

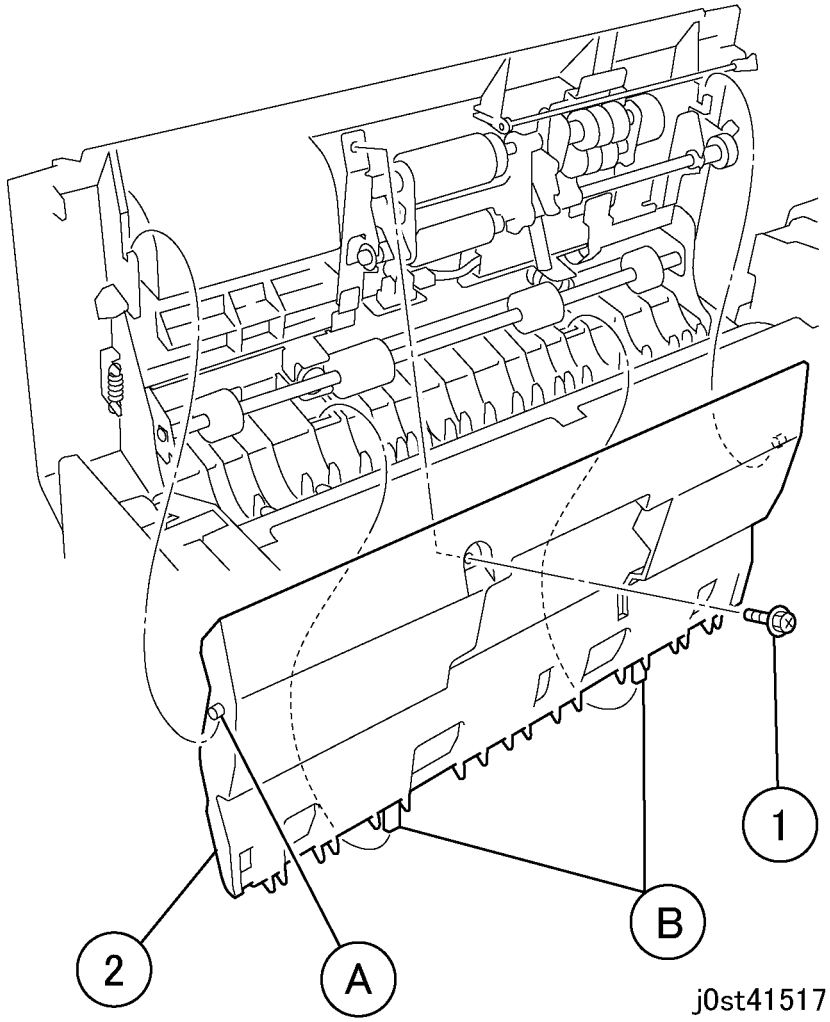

Figure 1 Removing the Feed Upper Chute

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).

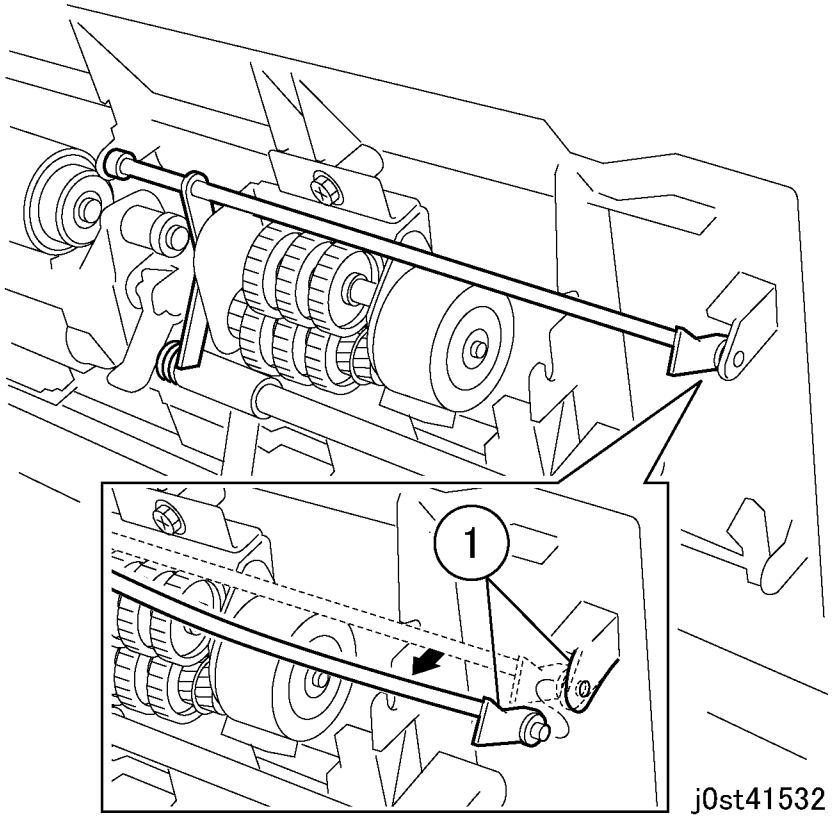

Figure 2 Removing the actuator

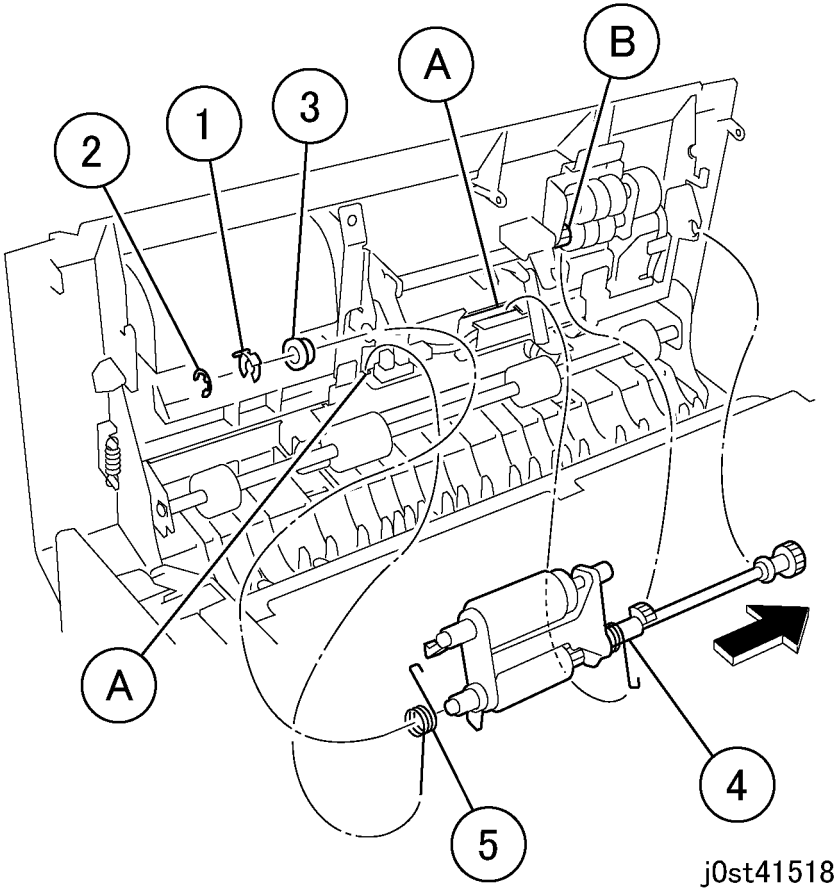

Figure 3 Removing the Nudger/Feed Roll Assembly

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. Move the shaft in the direction of the arrow to remove the Nudger/Feed Roll Assembly (4).
   5. Remove the spring (5).

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).

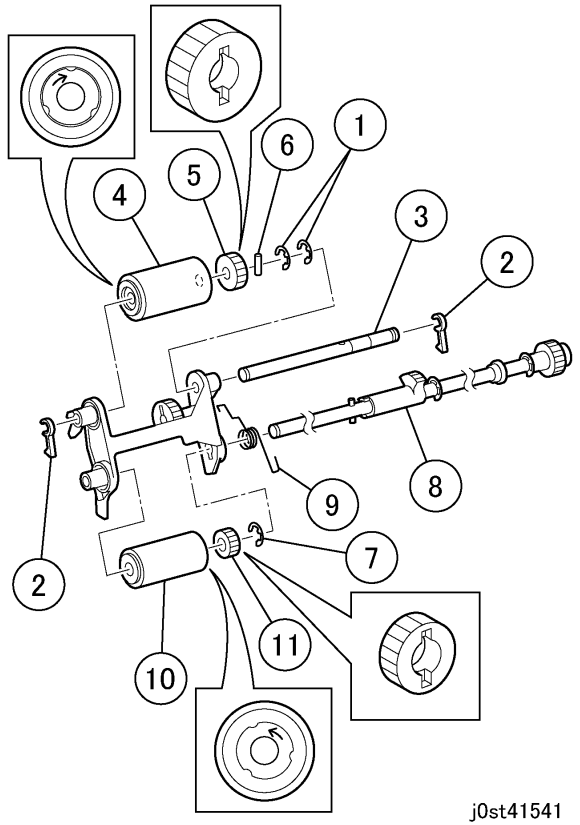

Figure 4 Removing the Nudger Roll and Feed Roll

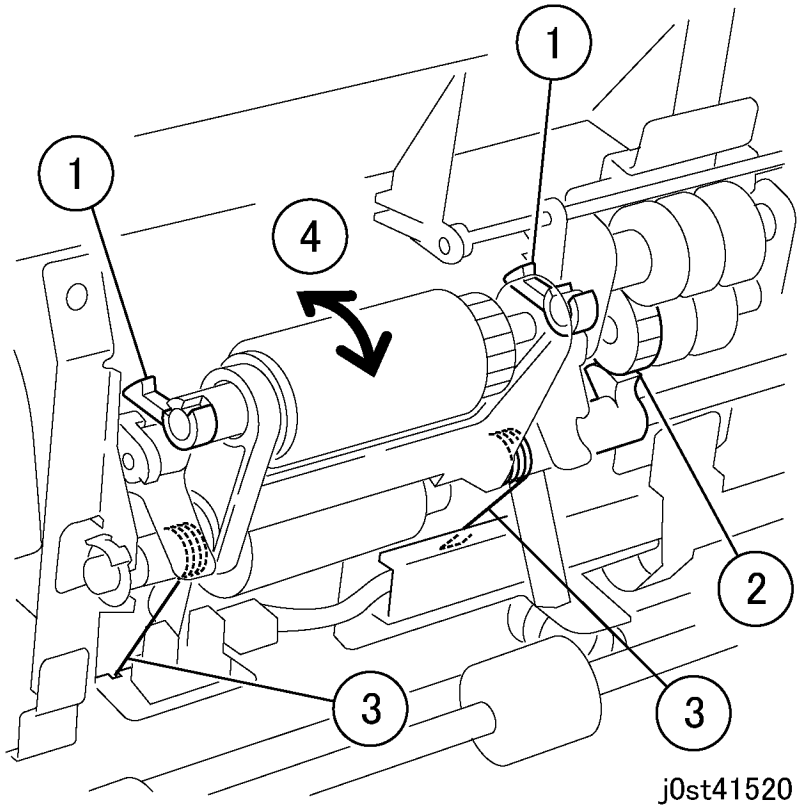

Figure 5 Installing the Nudger/Feed Roll Assembly

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.*

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).*

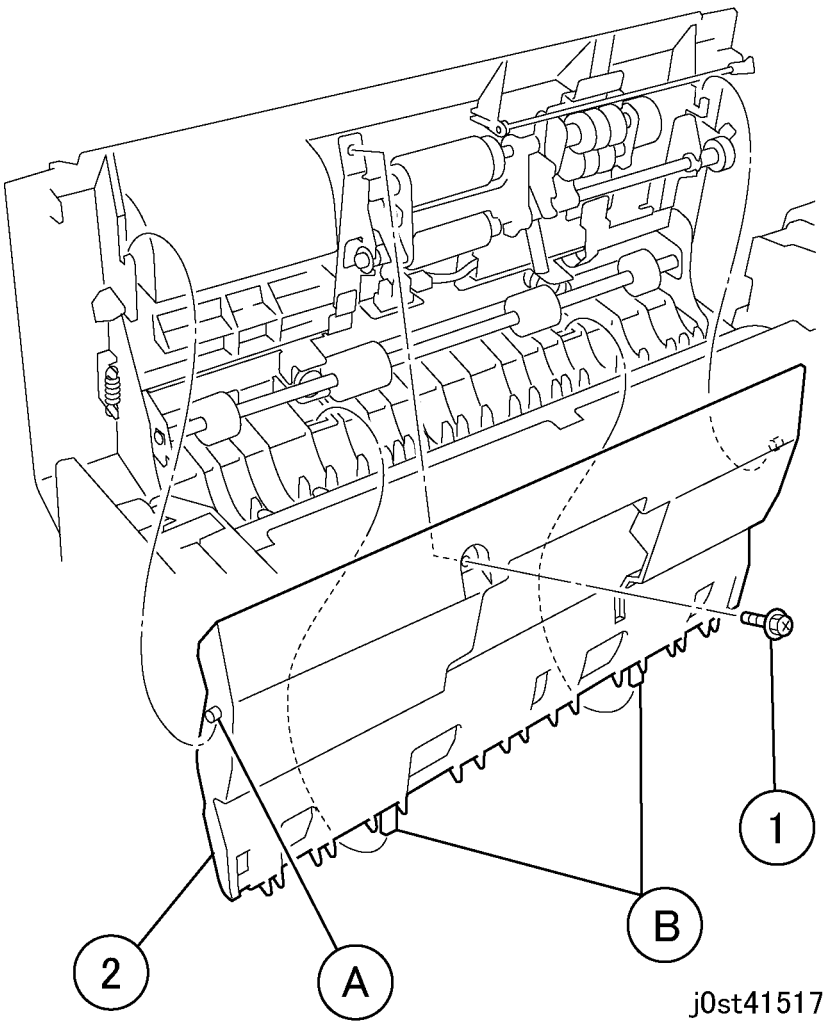

Figure 6 Installing the Feed Upper Chute

NOTE: *When replacing, enter Diag. mode. Clear the [HFSI] counter. Chain Link: 955-806*

REP 15.8.1 Registration Roll

Parts List on PL 20.8

Removal

WARNING

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

CAUTION

To prevent data loss when the power is turned off, please note the following.

Press the [Job Status] button and check the ***Current and Pending Jobs*** *tab to ensure that there are no jobs in progress or pending.*

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).

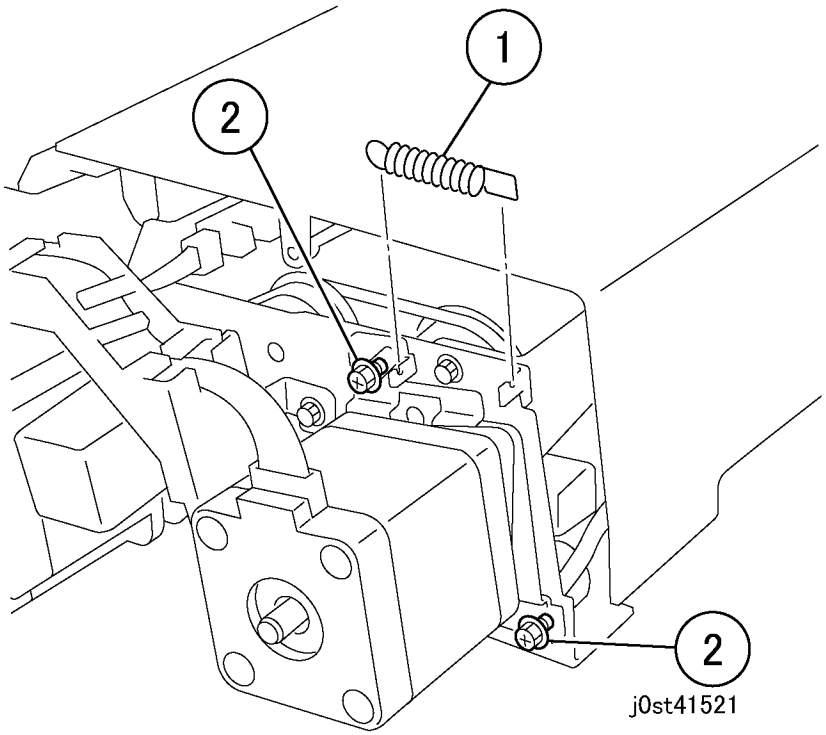

Figure 1 Loosening the belt tension

7. Remove 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.

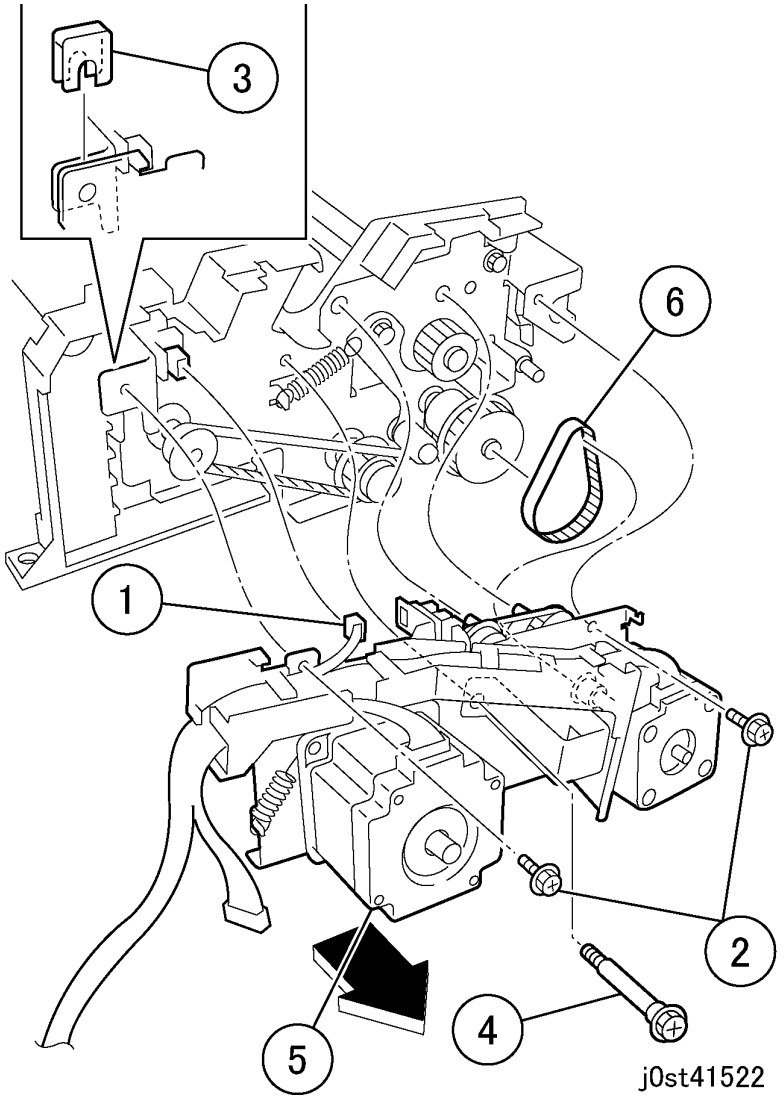

Figure 2 Removing the Motor Unit

8. Open the chute.
9. Remove the Feed Guide (Figure 3).
   1. Remove the screws (M3x8:2).
   2. Remove the Feed Guide.

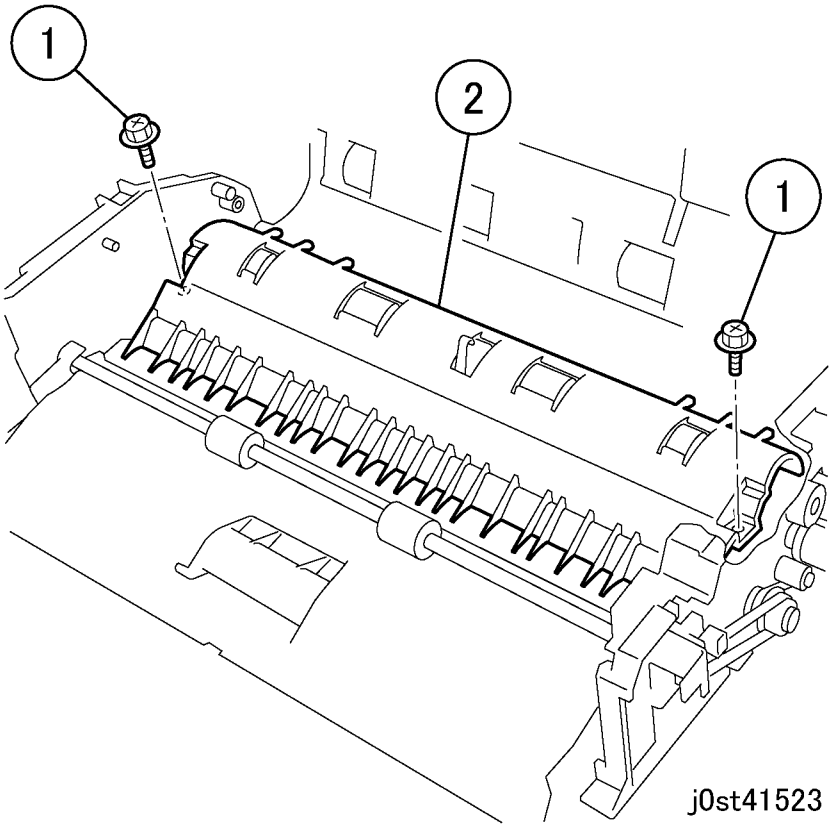

Figure 3 Removing the Feed Guide

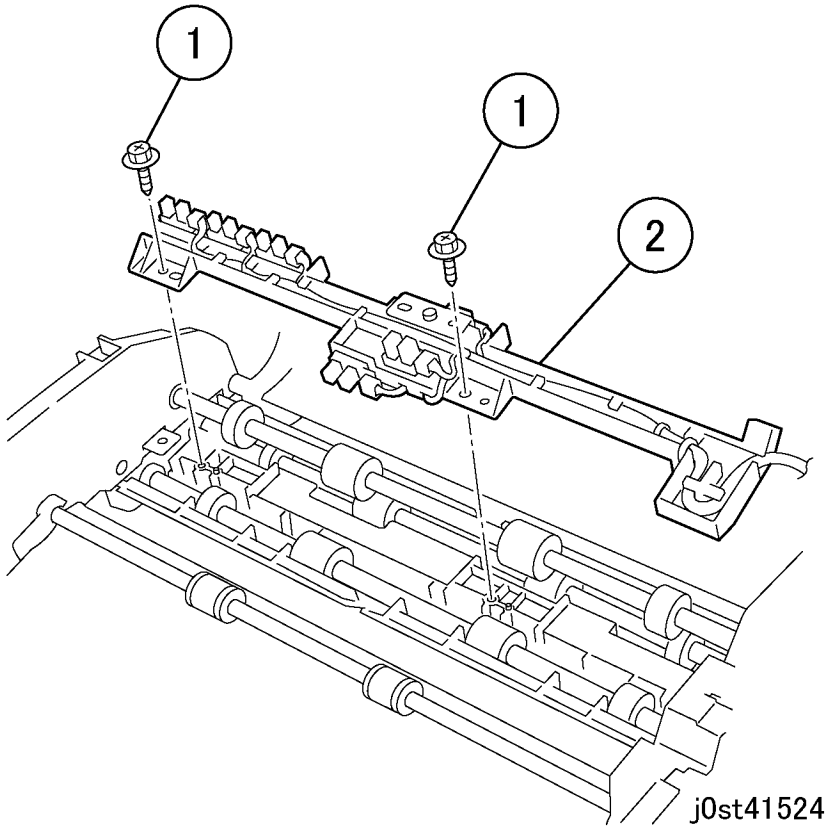

Figure 4 Removing the Sensor Guide

10. Remove the sensor holder (Figure 4).
    1. Remove the Self-tapping Screws (3x8:2).
    2. Remove the Sensor Guide.

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.

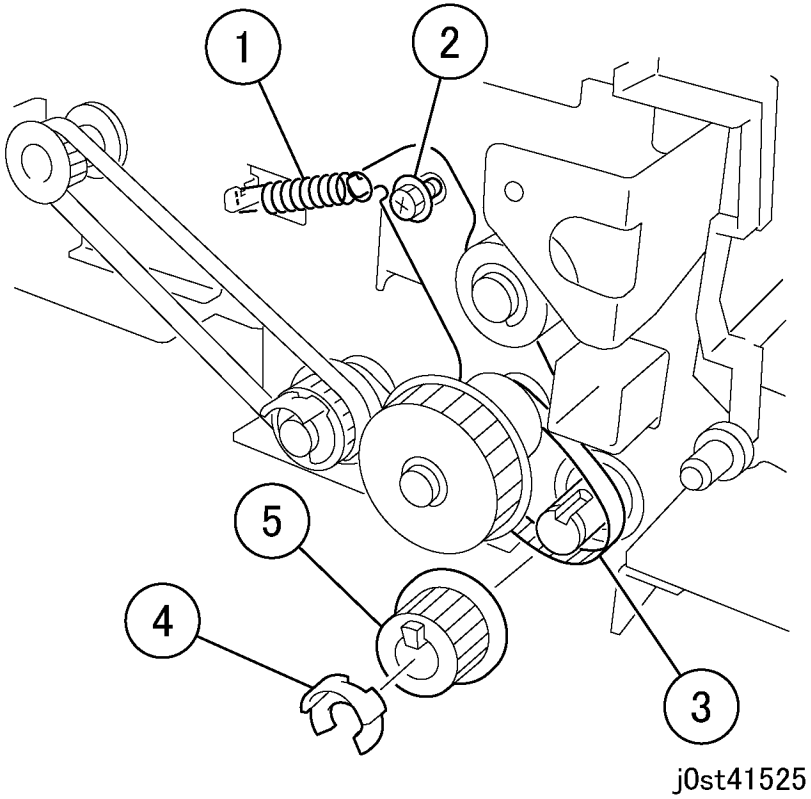

Figure 5 Loosening the belt tension

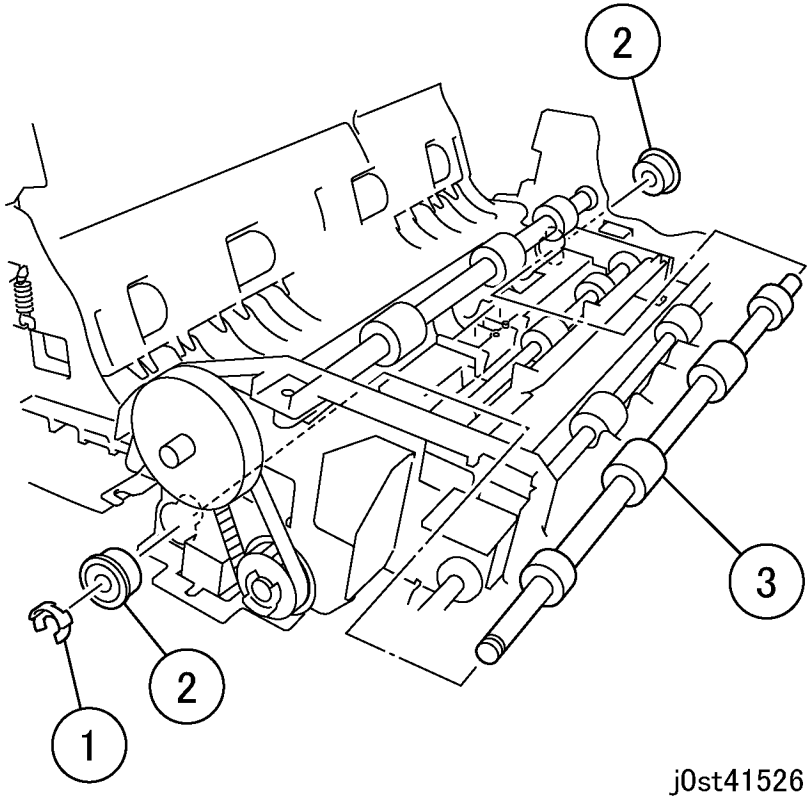

Figure 6 Removing the Registration Roll

12. Remove the Registration Roll (Figure 6).
    1. Remove the KL-Clip.
    2. Remove the bearings (x2).
    3. Remove the Registration Roll.

Replacement

1. When installing the motor unit, pull the Wire Harness as shown in Figure 7.

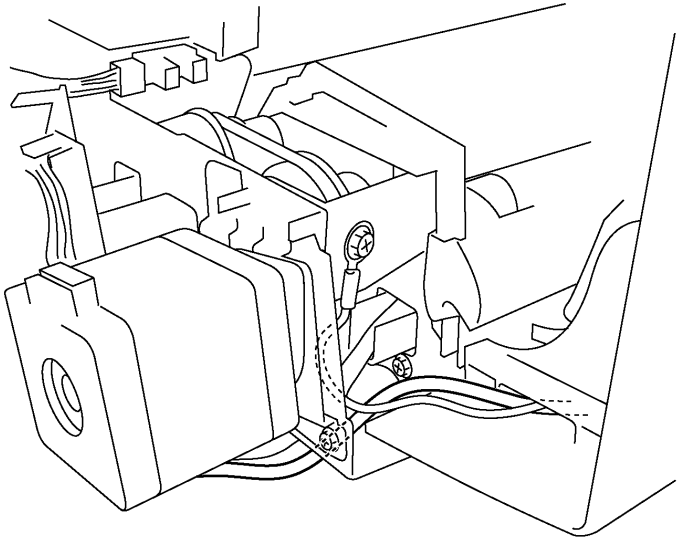

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Figure 7 Pulling the Wire Harness

ADJ 9.1 Max Setup

Purpose

To conduct a check of the machine and set it up so that excellent copy quality can be consistently obtained by stabilizing the development potential and copy density.

Adjustment

Max Setup consists of 5 separate adjustments that should be performed in the following sequence:

1. ADJ 9.7, IIT Calibration

NOTE: *Perform ADJ 9.2* ***only*** *when replacing the ATC Sensor or Developer Housing.*

2. ADJ 9.2, ATC Sensor Setup
3. ADJ 9.3, TRC Control/Toner Density Setup
4. ADJ 9.4, ADC AGC Setup - ADC Measurement

NOTE: *Perform ADJ 9.5* ***only*** *when the customer requests.*

5. ADJ 9.5, Manual TRC Adjust

ADJ 9.2 ATC Sensor Setup

Purpose

CAUTION

This procedure should only be performed when the ATC Sensor or Developer Housing is being replaced, ***OR*** *when there is reason to believe that the calibration values in NVM are incorrect.*

To set the calibration values [ATC Correction Coefficient], [ATC Correction Offset] in NVM to calibrate the new ATC Sensor.

Check

1. If the ATC Sensor or Developer Housing was replaced, perform the first procedure listed in **Adjustment**
2. If there is reason to believe that the calibration values in NVM are incorrect, perform the following:
   a. Enter the Diagnostic Mode.
   b. From the **Maintenance/Diagnostics** screen, select **Max Setup**.
   c. Select the **ATC Sensor Setup** button.
   d. Check the values in the 4 rows of numbers in the window (Figure 1). The default values for these rows are:
      - Sensitivity Gradient Value - 753
      - SNR Output Reference Value - 160
      - ATC Coefficient - 1000
      - ATC Correct Offset - 10000
   e. If any row or any column on the screen displays all default values, perform the second procedure listed in **Adjustment**.

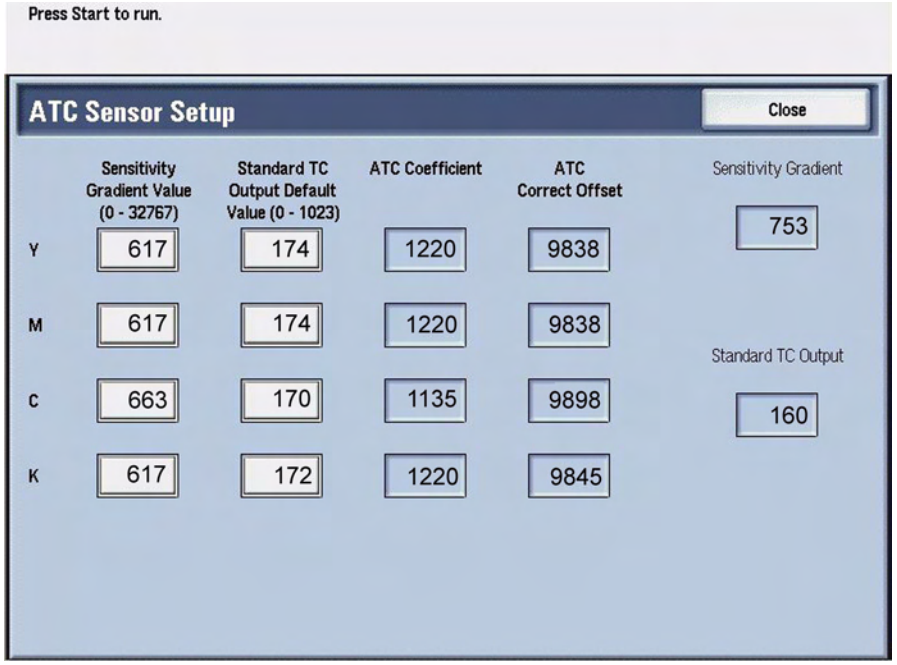


Figure 1 Sample ATC Sensor Setup Values

Adjustment

Procedure for new ATC Sensors

Perform these steps if you have just replaced an ATC Sensor or a Developer Housing:

1. Enter the Diagnostic Mode.
2. From the **Maintenance/Diagnostics** screen, select the **Max Setup button**.
3. Select the **ATC Sensor Setup** button.
4. Locate the ATC Sensor calibration code on the ATC Sensor. This is the 3-digit number in the 3rd line of text on the label (it will always start with a zero).

   NOTE: *The boxes with white backgrounds on the ATC Sensor Setup screen (first and second columns) link to a data entry screen when selected, enabling the entry of Sensitivity Gradient Values and Standard TC Output Default Values.*

5. Go to Table 1 and locate the last 2 digits of the ATC Sensor Calibration Code.
6. Still in Table 1, locate the Sensitivity Gradient Value and the Standard TC Output Default Value that correspond to the ATC Sensor Calibration Code.
7. Select the boxes in columns 1 and 2 of the ATC Sensor Setup screen that correspond with the ATC Sensor or Developer Housing that was replaced, for example, Y or M or C or K, and enter the Sensitivity Gradient Value and the Standard TC Output Default Value from Table 1.
8. Select the **Close** button. The settings will be stored and the machine will reboot when the Diagnostic mode is exited.
9. Proceed to ADJ 9.3, TRC Control/Toner Density Setup.

Table 1 Sensitivity Gradient and Standard TC Output Default Values

Last 2 Digits of ATC Sensor Calibration Code	Sensitivity Gradient Value	Standard TC Output Default Value
00	526	169
01	572	166
02	617	162
03	663	158
04	708	154
05	753	150
06	799	146
07	844	142
08	889	138
09	934	134
10	526	171
11	572	168
12	617	164
13	663	160
14	708	156
15	753	152
16	799	148
17	844	144
18	889	140
19	934	136
20	527	174
21	572	169
22	617	166
23	663	162
24	708	158
25	753	154
26	799	150
27	844	146
28	889	142
29	934	138
30	527	176
31	572	172
32	617	168
33	663	164
34	708	160
35	753	156
36	799	152

Table 1 Sensitivity Gradient and Standard TC Output Default Values

Last 2 Digits of ATC Sensor Calibration Code	Sensitivity Gradient Value	Standard TC Output Default Value
37	844	148
38	889	144
39	934	140
40	527	178
41	572	174
42	617	170
43	663	166
44	708	162
45	753	158
46	799	154
47	844	150
48	889	146
49	934	142
50	526	179
51	572	176
52	617	172
53	663	168
54	708	164
55	753	160
56	799	156
57	844	152
58	889	148
59	934	144
60	526	181
61	572	178
62	617	174
63	663	170
64	708	166
65	753	162
66	799	158
67	844	154
68	889	150
69	934	146
70	526	183
71	572	180
72	617	176
73	663	172
74	708	168
75	753	164

Table 1 Sensitivity Gradient and Standard TC Output Default Values

Last 2 Digits of ATC Sensor Calibration Code	Sensitivity Gradient Value	Standard TC Output Default Value
76	799	160
77	844	156
78	889	152
79	934	148
80	526	185
81	572	182
82	617	178
83	663	174
84	708	170
85	753	166
86	799	162
87	844	158
88	889	154
89	934	150
90	526	187
91	572	184
92	617	180
93	663	176
94	708	172
95	753	168
96	799	164
97	844	160
98	889	156
99	934	152

Procedure to restore ATC Calibration values

Perform steps 1, 2, or 3 as appropriate if you need to restore ATC Sensor NVM calibration values:

1. If a known good Machine Settings floppy exists, use dC351 to restore Machine Settings.
2. If a known good floppy is not available, but the original (as delivered) ATC Sensors are still in the machine, check the NVM Setting Value List in the Tray 1 pocket. Go to **NVM Read/Write** and reenter the values for:
   - 752-069 through 752-072 (ATC Correction Factor, YMCK)
   - 752-073 through 752-076 (ATC Correction Offset, YMCK)
   - 752-709 through 752-712 (Gradient of Sensitivity of each SNR, YMCK)
   - 752-713 through 752-716 (Each SNR Output on Reference TC, YMCK)
3. If one or more ATC Sensors have been replaced, or if you are not sure of the replacement status, perform the following

NOTE: *If the ATC Sensor or Developer Housing was replaced per the procedure, the Calibration tags will have been installed as shown in REP 9.26. This will eliminate the need to remove the Developer Housings in the following step, to access the tag on the ATC Sensors.*

a. Remove the Developer Housings (REP 9.9).

b. Locate the ATC Sensor calibration code on the ATC Sensors. This is the 3-digit number in the 3rd line of text on the label (it will always start with a zero).

c. Enter Diagnostic Mode.

d. On the **Maintenance/Diagnostics** screen, select **Max Setup**.

e. Select the **ATC Sensor Setup** button.

f. Locate the ATC Sensor calibration code on the ATC Sensor. This is the 3-digit number in the 3rd line of text on the label (it will always start with a zero).

NOTE: *The boxes with white backgrounds on the ATC Sensor Setup screen (first and second columns) link to a data entry screen when selected, enabling the entry of Sensitivity Gradient Values and Standard TC Output Default Values.*

g. Go to Table 1 and locate the last 2 digits of the ATC Sensor Calibration Code.

h. Still in Table 1, locate the Sensitivity Gradient Value and the Standard TC Output Default Value that correspond to the ATC Sensor Calibration Code.

i. Select the boxes in columns 1 and 2 of the ATC Sensor Setup screen that correspond with the ATC Sensor or Developer Housing that was replaced, for example, Y or M or C or K, and enter the Sensitivity Gradient Value and the Standard TC Output Default Value from Table 1.

j. Select the **Close** button. The settings will be stored and the machine will reboot when the Diagnostic mode is exited.

ADJ 9.3 TRC Control/Toner Density Setup

Purpose

To check the output of the ATC Sensor and to determine if TC Control performs normally.

Allows manual adjustment of TC if control is not functioning.

Check

1. Enter the Diagnostic Mode.
2. From the **Maintenance/Diagnostics** screen, select **Max Setup**.
3. Select the **Tone Up/Down** button.
4. On the **Tone Up/Down** screen, select the **TRC Control** button. The **ToneUp/Down - TRC Control** screen will display (Figure 1).
5. Load letter size paper (8.5 x 11 or A4) in Tray 1.
6. Select the **Start** button. The machine will read the output of the ATC Sensor and display the results in the row labeled **ATC Average Detected Value**. If the routine is unable to read the ATC Sensor correctly, this information will be displayed in the row labeled **ATC Sensor - Failure Result**.
7. If the row labeled **ATC Sensor - Failure Result** displays **OK** for all colors, continue with the check. If any color is **not OK**, go to the appropriate RAP (009-380 for yellow, 009-381 for magenta, 009-382 for cyan, or 009-383 for black) to fix the problem before continuing with this procedure.
8. Compare the data in the row labeled **ATC Average Detected Value** with the data in the row labeled **ATC Control - Environmentally Adjusted Value**. If the measured value for any color is more than 50 bits higher or lower than the target (correction standard) value, perform the Adjustment.
9. If the Check is OK, proceed to ADJ 9.4, ADC Output Check.

Figure 1 Sample TRC Control Screen 1 of 2

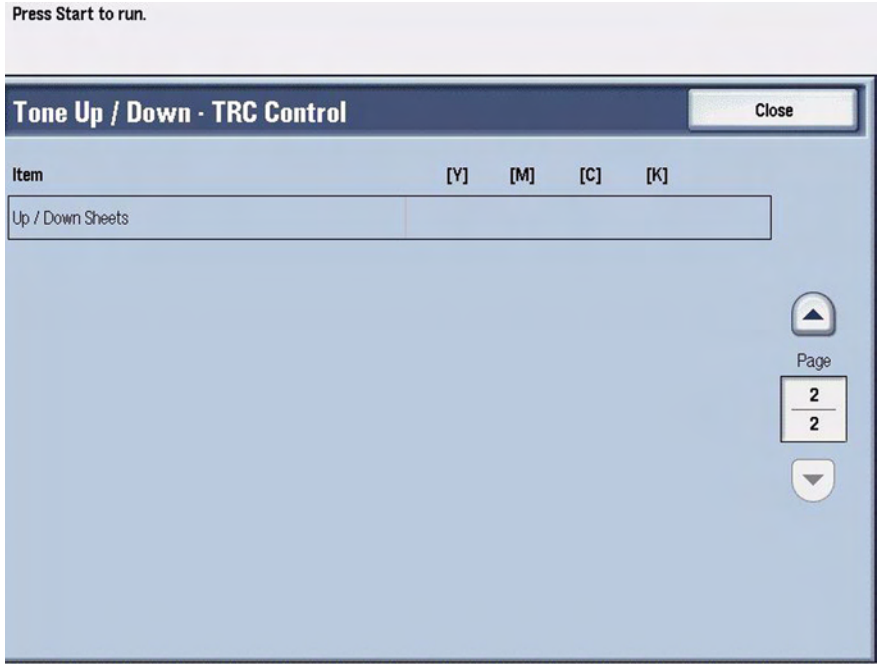


Figure 2 Sample TRC Control Screen 2 of 2

Adjustment

1. Press the **Close** button as many times as necessary to return to the screen labeled **Tone Up/Down**.
2. Select the **Adjust Toner Density** button. When the **Tone Up/Down - Adjust Toner Density** screen displays, each of the Y,M,C,K values that were displayed in the **Up/Down Sheets** row (refer to Figure 2) will display when the corresponding color button is selected.
3. Adjust each color individually by selecting the appropriate button (Y,M,C,K) and then selecting **Start**. The control logic will automatically tone up or tone down each color.

   NOTE: *It may be necessary to perform the Check and Adjustment several times to achieve an* ***OK*** *(0 Up/Down Sheets) status for all colors.*
4. When the tone up/down cycle is complete, repeat the Check.
5. Again compare the data in the row labeled **ATC Average Detected Value** with the data in the row labeled **ATC Control - Environmentally Adjusted Value**. If the measured value for any color continues to be unacceptable, that is, more than 50 bits higher or lower than the target (correction standard) value, replace the appropriate Developer Housing(s) and the Developer (PL 6.2).
6. Proceed to ADJ 9.4, AGC ADC Setup.

ADJ 9.4 ADC AGC Setup - ADC Measurement

Purpose

- To check the following functions
- ADC (2 gradation) patch for Potential Control on the IBT
- ADC Sensor output
- Laser Diode light output

Check

1. Enter Diagnostic Mode.
2. From the **Maintenance/Diagnostics** screen, select **Max Setup**.
3. Select the **ADC AGC Setup** button.

   NOTE: *Do not select or modify any of the settings in* ***Change ADC Target Value*** *unless directed to do so by a bulletin or Eureka notice.*

4. Select the **Measured ADC** button.
5. Select the **Start** button. The machine will read the output of the ADC Sensor, the Laser Diode, and Developer bias, and display the results on the screen (Figure 1) and (Figure 2).
   a. **Radc Target Value** - These values are stored in NVM locations 752-057 (Y), 752-058 (M), 752-059 (C), and 752-060 (K) (Radc Control Density Target Value). These settings are the same for all machines in the family.
   b. **Radc Measured Value** - These are the values of the ADC patches measured by the ADC Sensor. They should be within +/- 40 bits of the Radc Target Values.
      i. If the Radc Target Values are greater than +/- 40 bits and there is no Image Quality defects, the Radc Measured Value is not important. Continue at step 5c.
      ii. If the Radc Target Values are greater than +/- 40 bits and there is an Image Quality defect, complete the following:
         - ADC Sensor - clean or replace as necessary
         - IBT Belt - replace (if old)
         - Xerographic Drum - replace (if old)
   c. **ADC Shutter Failure Counter** and **ADC Sensor Failure Counter** are logs that record the cumulative number of detected ADC Shutter and ADC Sensor failures.
   d. **LD Illumination** measures the power needed by the Laser Diode (ROS) to develop an acceptable patch. The control logic adjusts the LD to achieve correct patch density.
   e. **Vbias Value** for this machine is a constant 887 for CMYK.

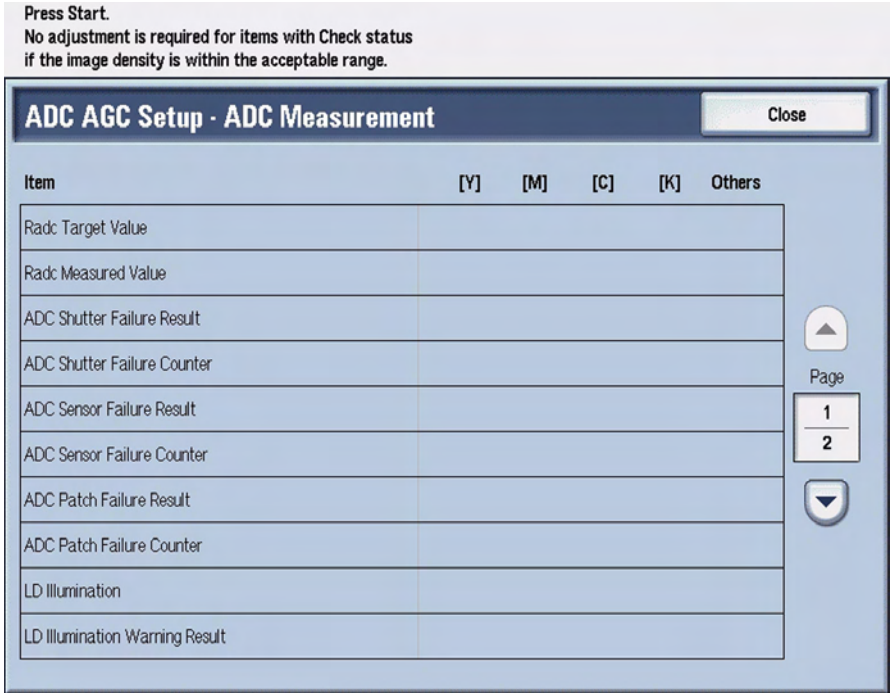


Figure 1 ADC AGC Setup - ADC Measurement screen 1 of 2

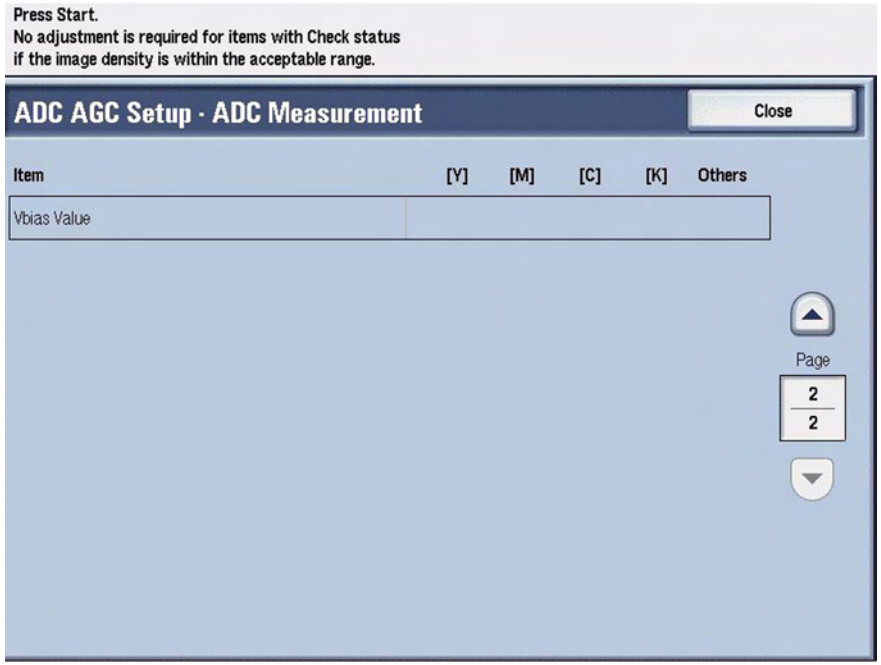


Figure 2 ADC AGC Setup - ADC Measurement screen 2 of 2

6. Check for unsatisfactory results:
   - If a fault code is declared, go to the RAP for that code. Resolve the problem, then repeat the Check.
   - If **ADC Shutter Failure Result** is NG, go to the 009-654 RAP and troubleshoot the shutter solenoid circuits
   - If **ADC Sensor Failure Result** is NG, go to the 009-654 RAP and troubleshoot the sensor circuits.
   - If **ADC Patch Failure Result** is NG, the ADC Sensor reads no difference between the IBT Belt surface and the patch, or the reading of the IBT Belt surface is higher than the patch. An NG also will be declared if there is a failure to read the ADC patch, or if the patch is not generated.
     – If there is no reading, check the ADC Sensor, the ADC Shutter, the associated wiring, and the MCU PWB.
     – If there is no patch generation, check the ROS Shutter, the Developer, the Drum, the 1st BTR, the IBT Belt, and the MCU PWB.
   - If **LD Illumination Warning Result** is NG, the result may be due to low toner concentration, long high area coverage jobs, changes in humidity, etc. The machine generally will recover when usage conditions return to normal. A failure to recover may be indicated by high background, extreme density problems, bead carry out, etc.

ADJ 9.5 TRC Adjust

Purpose

CAUTION

Perform this adjustment only to correct a strong customer complaint. Altering the setpoints will affect both Print and Copy modes. Also, there is quite a bit of overlap among the low, medium, and high densities. For these reasons, it is recommended that this procedure not be used unless absolutely necessary.

To adjust image quality (TRC) to meet the user's preference, by increasing or decreasing the center value of gradation correction for each (YMCK) color, in low density, medium density, and high density ranges.

Adjustment

1. Enter Diagnostic Mode.
2. From the **Maintenance/Diagnostics** screen, select **Max Setup**.
3. Select the **TRC Adjustment** button.
4. Select the button of the color whose density you wish to change, and then use the scroll buttons to display the desired value(s); the center of the range is 0, and the range is from -128 to +127 (Figure 1).

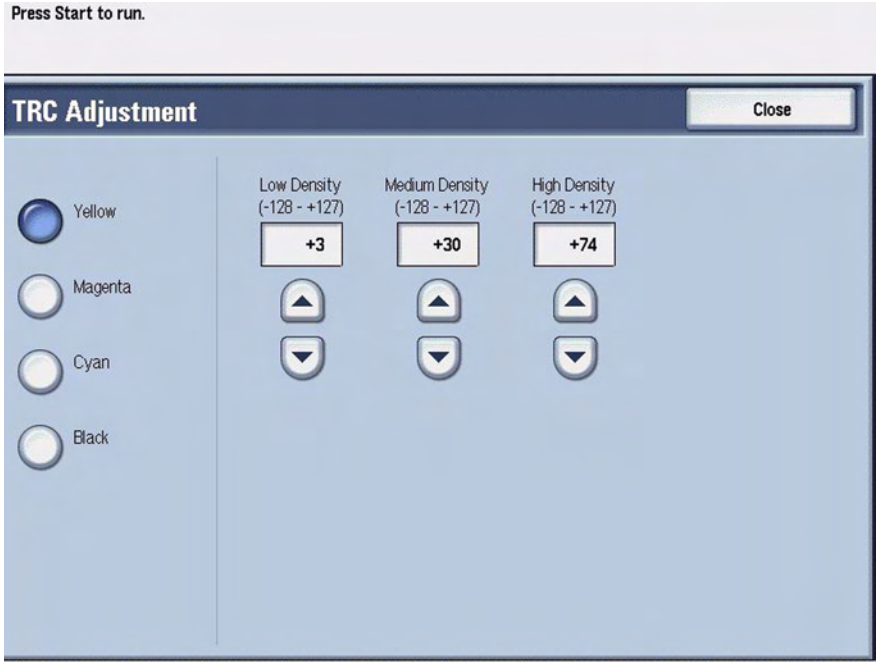


Figure 1 TRC Adjust sample screen

5. Select **Start**.
6. Exit the Diagnostics mode. The machine will reboot and save the changes.

7. Make 2 prints or copies; the changes are not implemented until the 2nd print is made.
8. Repeat steps 4 through 7 until the customer is satisfied with the image quality.

ADJ 9.6 Color Registration

Purpose

To establish correct horizontal and vertical positioning of the four primary color images

The procedure consists of the following steps, which must be performed in the listed sequence:

1. **Belt Edge Learn** - to align the Transfer Belt positioning system.
2. **Fine Skew Setup** - automatically performs horizontal and vertical alignment, and reports any skew in the various images caused by ROS misalignment. This skew must be corrected through manual adjustment
3. **IN/OUT Setup** - automatically performs magnification adjustment so that scan lines are the same length for all four colors. Also checks for skew.
4. **Center Setup** - Aligns the midpoints of scan lines for all colors, for magnification balance.

There is also a **Rough Skew Setup** for cases where the skew is outside the measurement parameters of the Fine Skew test.

This procedure is required if any of the following occur:

- ROS removal
- NVM Initialization
- An Image Quality RAP directed performance of this procedure.

Check

NOTE: *Excessive toner on the Transfer Belt will prevent completion of the adjustment. Make sure that there are no Image Quality problems, and that the IBT Cleaner is functioning correctly. Resolve any Image Quality problems before attempting this adjustment.*

1. Open the Front door and cheat the interlock.
2. Enter Diagnostic Mode.
3. From the **Maintenance/Diagnostics** screen, select the **Sub System** button.

Set the Belt Edge Alignment

1. Select the **Belt Edge Learn button.**
2. Select **Start**.
3. If Edge Learn fails, check:
   - Installation of IBT Belt Assembly (REP 9.15).
   - Installation of IBT Edge Sensor (PL 5.4).
   - Installation of IBT Home Sensor (PL 5.4).

   Perform Edge Learn again. If it fails, replace the IBT Edge Sensor (PL 5.4).

   If it fails again, replace IBT Home Sensor (PL 5.4).
4. When Edge Learn is successful, select **Close** twice and select the **Registration** button.

Check the Fine Skew Setup

1. Select the **Registration Control - Setup Cycle** button.
2. Select the **Fine Skew Setup** button.
3. Select **Start**.
4. Check the **Final Result** row. If NG is displayed, perform the Rough Skew Setup then repeat the Fine Skew check.

5. If **OK** is displayed in the **Final Result** item, check the **Skew Adjustment (Number of Rotations)** row. If a value greater than 1 is displayed for any color, press **Close**, and then perform the Adjustment, then perform the IN/OUT Setup check.

Check the IN/OUT Setup

1. Select the **IN/OUT Setup** button.
2. Select **Start**.
3. Check the **IN/OUT Setup** screen. If NG is displayed, perform the Adjustment, then perform the Center Registration check.
4. If IN/OUT Setup is **OK**, check the Center Registration.

Check the Center Registration

1. Remove the Waste Toner Bottle.
2. Move MOB sensor to the center position. Refer to Figure 1.

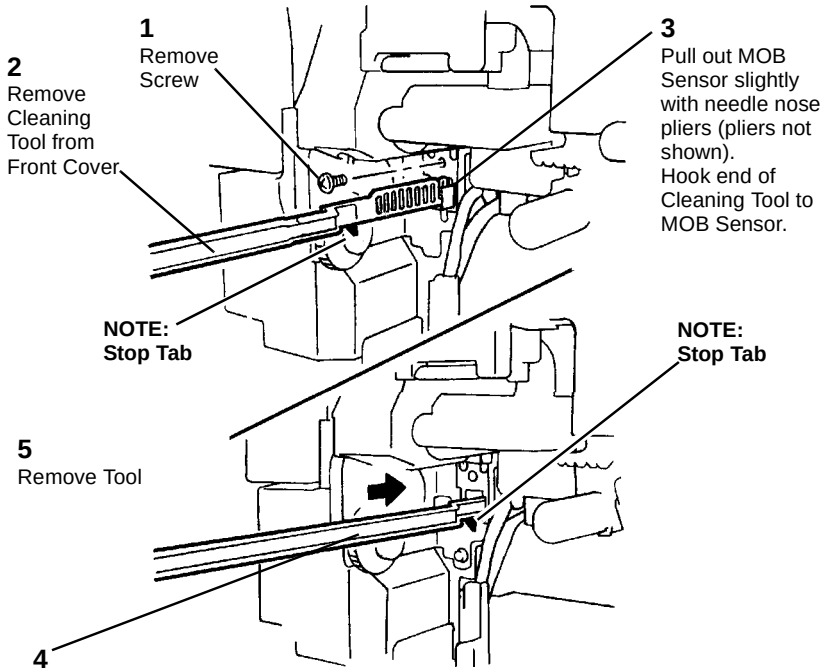


Figure 1 Moving MOB Sensor to Center Position

3. Reinstall the Waste Toner Bottle.
4. Select the **Center Setup** button.
5. Select **Start**.

CAUTION

Make sure not to hook the wiring harness when moving the MOB Sensor.

6. If Center Setup is OK, Color Registration is complete. Use the Cleaning Tool to pull the MOB Sensor back to the original position, and fasten the screw.

   If Center Setup fails, ensure MOB Sensor is positioned to the rear. Go back to step 1 of the Center check.

Check the Rough Skew Setup

1. Select the **Rough Skew Setup** button.
2. Select **Start**.
3. Check the **Rough Skew Setup** screen. If NG is displayed as the **Final Result**, set the values in NVM locations 760-019 through 760-022 NVM Read/Write to either the default value (236) or the value recorded on the NVM list in Tray 1 if available. Repeat steps 1 and 2.

   If NG is still displayed, there is a problem with the ROS, the IBT Assembly, or the MOB Sensor.
4. If **OK** is displayed as the **Final Result**, check the **Skew Adjustment (Number of Rotations)** row. If a value greater than 1 is displayed for any color, perform the Adjustment, then repeat the Fine Skew Setup check.

Adjustment

1. Record the value for each color in the **Skew Adjustment (Number of Rotations)** row. This is the required number of rotations of the adjustment screw.

WARNING

To avoid exposure to laser light, reinstall the Waste Bottle before attempting to recheck the adjustment.

2. Remove the Toner Waste Bottle (REP 9.4).
3. For each color, rotate the appropriate (CMYK) adjustment screw (Figure 2) in + (CW), or - (CCW) direction the number of clicks recorded in step 1.

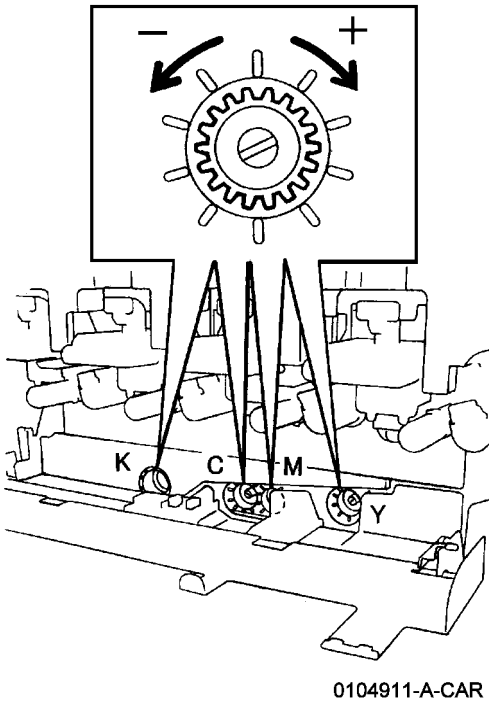


Figure 2 Adjusting Skew

4. Reinstall Waste Toner Bottle (REP 9.4).

Check IOT Lead Edge/Side Edge (ADJ 9.9) after performing this adjustment.

ADJ 9.7 IIT Calibration

Purpose

- To calculate and set up the White Reference Correction Coefficient.
- To correct the IIT sensitivity dispersion (CCD Calibration).

Adjustment

CAUTION

*Do not select the **Optical Axis Correction** button unless the Lens Kit was replaced.*

1. If the CCD Lens Assembly (PL 18.4) was replaced, go to ADJ 9.16.
2. Clean the Optics:
   a. Switch off the power and allow the Exposure Lamp to cool off.
   b. Using the optical Cleaning Cloth, clean the front and rear of the Document Glass, 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.
3. Enter the Diagnostic Mode.
4. From the **Maintenance/Diagnostics** screen, select **Max Setup**.
5. Select the **IIT Calibration** button.
6. Select the **White Reference Adjustment** button.
7. Press **Start**.
8. As prompted on the UI, place a minimum of 10 sheets of A3 or 11 x 17 in. Xerox Digital Color Xpressions+ paper (or equivalent 98 Brightness) on the Document Glass.
9. Press **Start**.
10. The setup values are displayed on the **White Reference Adjustment** screen (Figure 1).
    The White Reference Setup Values should be in the range from 130 to 145.
    If the setup values are substantially out of range:
    a. Ensure that NVM 715-052 NVM Read/Write Platen Glass Type is set to 2 (CVT).
    b. If the NVM 715-052 is set correctly, replace, as required, the Exposure Lamp, Lamp Ballast PWB, IIT/IPS PWB.

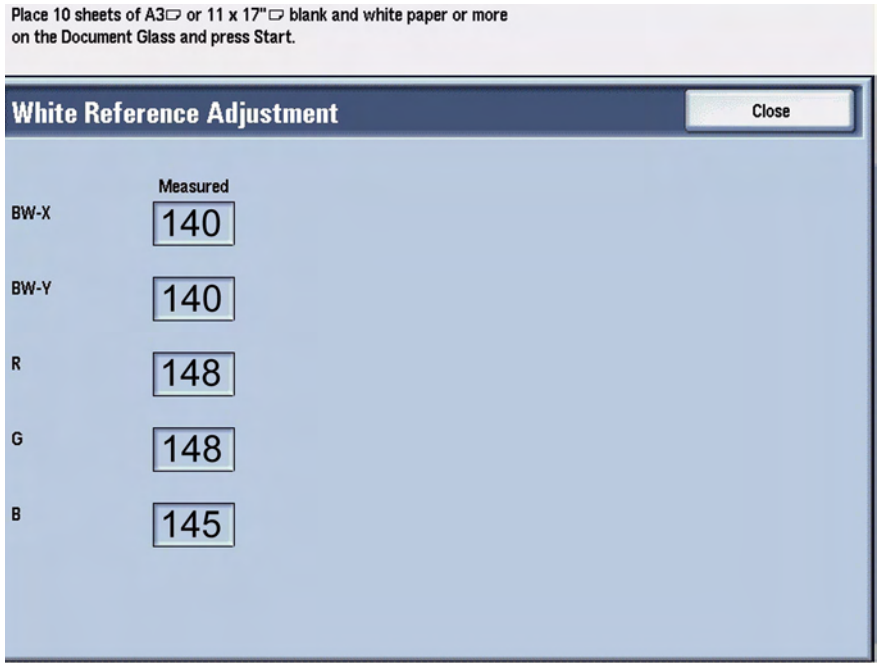


Figure 1 Sample White Reference Adjustment results

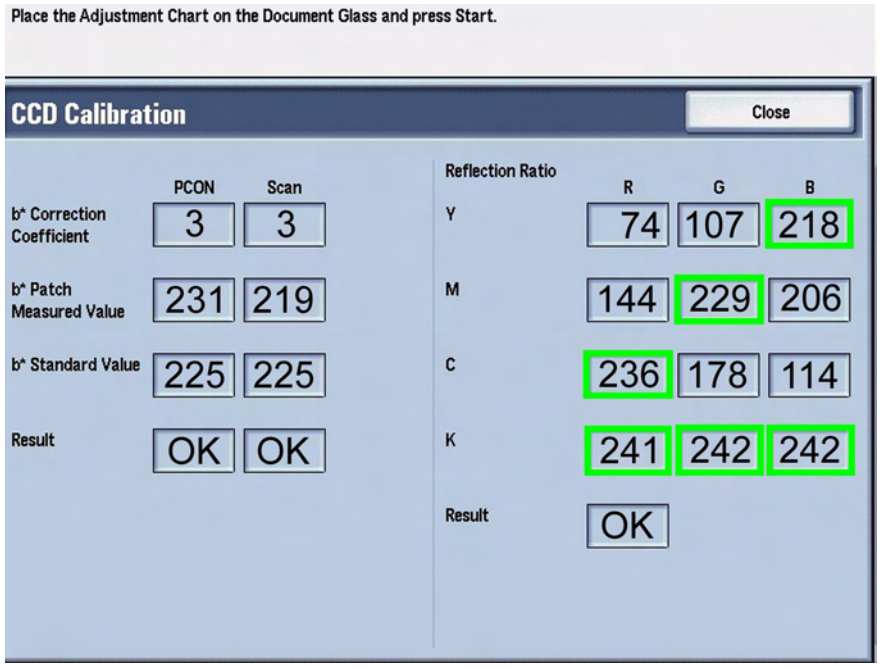


Figure 2 Sample CCD Calibration results

11. Repeat the White Reference Adjustment until the setup values fall within the correct range.
12. When White Reference setup is done, press the **Close** button, and then select the **CCD Calibration** button.
13. Place Test Pattern 82E13120 on the Document Glass, with the Lead Edge to the left.
14. Press **Start**.
15. The obtained data is displayed on the **CCD Calibration** screen (Figure 2).
16. The Reflection Ratio values for the highlighted items in Figure 2 should fall within a range of 200 to 250. If the values of the highlighted items are less than 200, perform the following, then repeat the CCD Calibration after each:
    a. Verify that the correct Test Pattern was used (82E13120) and that it is clean and free from defects.
    b. Ensure that the Test Pattern is positioned with the LE toward the left of the Platen Glass.
    c. If the values continue to fall outside of the correct range, replace, as required, the Exposure Lamp, the Lamp Ballast PWB, and/or the IIT/IPS PWB.
    d. If the values continue to fall outside of the correct range after replacing the item(s) cited in step c, replace the Lens Pan Assembly.
17. The **b* Patch Measured Value** should fall within +/- 10 bits of the **b* Standard Value**. If the **Result** is **NG**, perform the Reflection Ratio checks and replacements.
18. Select **Close** to return to the IIT Calibration screen.

ADJ 9.8 Hard Disk Diagnostics/Setup

Purpose

To perform diagnostics and setup (initialization) of the hard disk.

Introduction

The machine's diagnostic system provides tools for checking and initializing the hard drive; these include:

- The **Hard Disk Failure Prediction Test**.
- The **Initialize Hard Disk** selection that initializes Partition A on the hard disk.
- The **Delete All Data** selection that deletes all data stored on the hard disk.

Hard Disk Failure Prediction Test

Purpose

The Hard Disk Failure Prediction Test checks the Hard Disk to determine if it is operating correctly.

1. Enter the Diagnostics Mode.
2. From the **Maintenance/Diagnostics** screen, select **Sub System**.
3. Select the **Hard Disk Failure Prediction Test** button.
4. Select the **Start** button.
5. If the message 'No errors were detected' displays, the hard disk is OK.
   If the test result indicates a failure, replace the Hard Drive Assembly (REP 1.12.4)

Initialize Hard Disk

NOTE: *Perform this procedure only after obtaining the customer's approval. Check what kinds of data are stored in the partition according to the list below (Table 1) because the partition may store fonts, etc., that the customer has installed.*

Purpose

The **Initialize Hard Disk** selection initializes only Partition A on the hard disk.

Only perform the Adjustment when printing problems can not be traced to other causes. Typically, the routine should be run when spooling or print problems exist and the customer reports print jobs being lost or the machine locking up. Also note that the machine typically can be pinged successfully.

Adjustment

1. Enter the Diagnostics mode.
2. From the **Maintenance/Diagnostics** screen, select **Initialize Hard Disk**.
3. From the Initialize Hard Disk screen, select **Partition A**.
4. Select the **Start** button. Partition A will be initialized.

Table 1 Partition A Content

Partition	Size (GB)	Stored information and usages
Partition A	All	Font, Form/Logo, SMB Folder (config.txt, driver), Job Template

Delete All Data

CAUTION

Running this procedure will completely delete all of the current customer's stored settings. If the machine is to remain at its present location, obtain the customer's approval before running the procedure.

Purpose

Use the **Delete All Data** selection to completely clear the hard disk of all current customer settings (refer to Table 2).

NOTE: *This procedure should be performed prior to the installation of the machine in a new customer location.*

Adjustment

1. Enter the Diagnostics mode.
2. From the Maintenance/Diagnostics screen, select **Delete All Data**.
3. Select the **Start** button. The system will initialize all partitions on the hard disk, deleting all data kept by the machine.

Table 2 Partition Content

Partition	Purpose/ Type	Stored information and usages
Partition 1 (A) (ide0a)	Resource	Font, Form/Logo, SMB Folder (config.txt, driver), Job template
Partition 2 (B) (ide0b)	Print	[Spool cont.] EPC print, temporary data
Partition 3 (C) (ide0c)	FYO confidential	[Spool cont.] Expanded mailbox, Scan, iFAX, FAX, Report, Security print, Proof print, Delay print
Partition 4 (D) (ide0d)	PDL	PDL, MaillO temporary
Partition 5 (E) (ide0e)	Copy	[Spool cont.] EPC copy, temporary data
Partition 6 (F) (ide0f)	Scan	ScanToServer, ScanToPC, IFAX send, Mail send, JFS (SC8033) temporary data
Partition 7 (G) (ide0g)	DOMS (/ XDOD)	DOMS scan data XDOD FTP data

Table 2 Partition Content

Partition	Purpose/ Type	Stored information and usages
Partition 8 (H) (ide0h)	Administrative information	[Spool cont.] Spool Cont. Administrative information (PFlite User Document Store) [IDC] Job recovery data, Data transfer instruction [System] Job log, Error log, Monitor log, and Device authentication data

ADJ 9.9 IOT Image Registration

Purpose

The purpose is to adjust the position of the printed image on the page by controlling where the ROS writes the image. This is done by changing the value of the Lead Edge Registration and Side Edge Registration in UI Diagnostics. This adjustment must be completed prior to the IIT Lead Edge/Side Edge Registration, and the DADF Lead Edge Registration.

Specification

The specifications are as follows (Table 1):

Table 1 Specification

Item	Simplex	Duplex	Tray 5/Bypass
Lead Edge	21.6 +/-0.5mm	21.6 +/-0.5mm	21.6 +/-0.5mm
Side Edge	21.6 +/-0.5mm	21.6 +/-0.5mm	21.6 +/-0.5mm

Lead Edge Registration (Bond/Plain Paper)

Purpose

To correctly register the lead edge of the image in relation to the lead edge of the paper.

Check

Checking Lead Edge Registration

1. For machines equipped with the Tandem Tray module (TTM), load 11x17” or A3 bond, plain paper in Tray 1, Tray 2, and Tray 5 (Bypass). Load 8.5x11” or A4 bond, plain paper in Tray 3 and Tray 4.

   For machines equipped with the 3 Tray Module (3TM), load 11x17” or A3 bond, plain paper in Trays 1 - 4 and Tray 5 (Bypass).
2. Enter the Diagnostic mode.
3. Disconnect the Network cable from the machine.
4. From the Maintenance/Diagnostics screen, select **NVM Read/Write**.
5. Change the value for NVM location 870-207 to 6.
6. Change the value for NVM location 870-203 to 1.
7. Return to the Maintenance/Diagnostics screen.
8. From the Maintenance/Diagnostics screen, select **Print Test Pattern**.
9. Enter **3** as the **Pattern Number**.
10. Enter **5** as the **Quantity**.
11. Press the **Paper Supply** button, select **Tray 1**, and press **Save**.
12. Select the **Output Color** button, then select the Black **FC Mode** button to designate the color to be printed. Select the **Close** button.
13. Press **Start** on the numeric keypad. The specified test pattern will print and be delivered to the output tray.
14. Label each printed sheet with the number of the print (1 through 5), the words “Tray 1,” and “Side 1,” and the location of the Lead Edge of each sheet.

15. Take the third print and measure from the lead edge to point A (as shown on Figure 1). Point A is at the intersection of the 7th line from the side edge and the first line from the lead edge.
16. If the measured value is not 21.6 +/- 0.5mm, perform the Adjustment. If the Check is OK, repeat the **Check** for Trays 2 - 5.

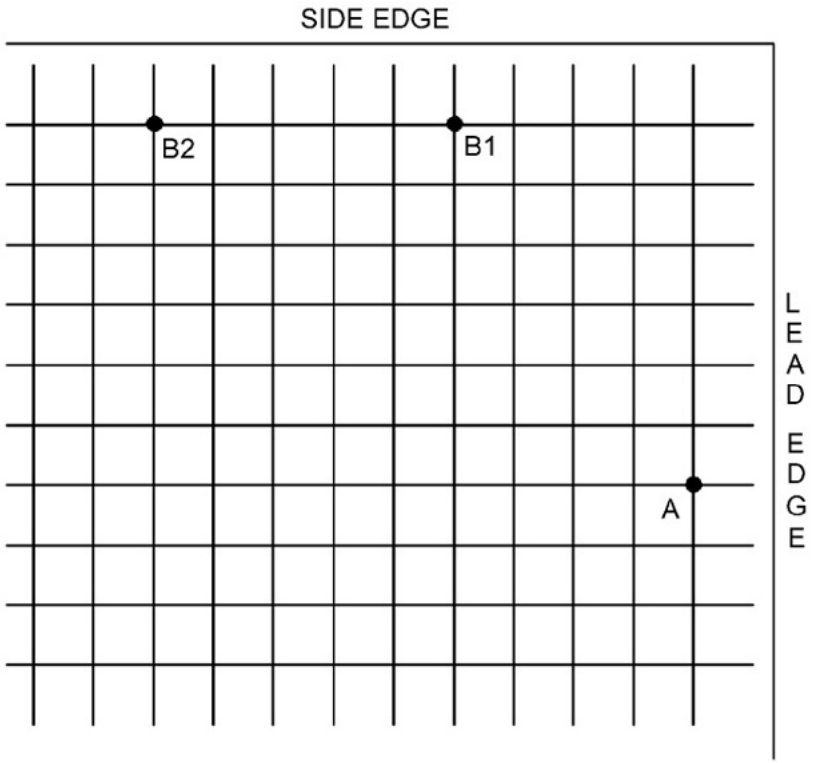


Figure 1 Test Pattern Measurement Points

Checking Side 2 Lead Edge Registration

NOTE: *The grid pattern for side 1 does not align with the side 2 grid pattern; do not attempt to set registration by aligning the grids.*

1. From the Maintenance/Diagnostics screen, select **NVM Read/Write**.
2. Change the value for NVM location 870-207 to 6.
3. Change the value for NVM location 870-203 to 1.
4. Return to the Maintenance/Diagnostics screen.
5. From the Maintenance/Diagnostics screen, select **Print Test Pattern**.
6. Enter **3** as the **Pattern Number**.
7. Enter **5** as the **Quantity**.
8. Press the **Paper Supply** button, select **Tray 1**, and press **Save**.
9. Select the **Output Color** button, then select the Black **FC Mode** button to designate the color to be printed. Select the **Close** button.

NOTE: *Side 2 will be face down in the output tray.*

10. Press the **Start** button on the screen (prints will be made from Tray 1). As the prints are made, flip the sheets from face down to face up while maintaining the lead edge to the right. Mark each to indicate the lead edge.
11. On the third print, check the Side 2 Lead Edge Registration (point **A** on Figure 1). If the measured value is not 21.6mm±0.5, perform the Adjustment.
12. If the Check is OK, proceed to **Checking Tray 5 Lead Edge Registration**.

Adjustment

NOTE: *You must exit Diagnostics in order for the NVM change for Lead Edge to take effect. When you reenter diagnostics to check the change, you will need to change NVM location 870-207 to 6, and NVM location 870-203 to 1.*

1. Select the appropriate NVM from Table 2 and adjust the Lead Edge registration. Increasing the NVM value moves the grid to the right decreasing the distance to the lead edge. Decreasing the NVM value moves the grid to the left increasing the distance to the lead edge.

Table 2 Lead Edge Registration

Description	NVM (dC131)	Default Setting	Range	Change per Step
ALL	742-028	15	0 - 40	0.2544mm (5 steps = 1mm)
Tray 1 - 4 Plain Paper Color	742-030	21	0 - 40	0.2544mm (5 steps = 1mm)
Tray 1 - 4 H/W Paper Color and B/W	742-120	20	0 - 40	0.2544mm (5 steps = 1mm)
Tray 1 - 4 Plain Paper B/W	742-158	20	0 - 40	0.2544mm (5 steps = 1mm)
Tray 5 (Bypass) Plain Paper Color	742-032	23	0 - 40	0.2544mm (5 steps = 1mm)
Tray 5 (Bypass) H/W 2 Paper Color and B/W	742-036	24	0 - 40	0.2544mm (5 steps = 1mm)
Tray 5 (Bypass) H/W 1 Paper Color and B/W	742-121	25	0 - 40	0.2544mm (5 steps = 1mm)
Tray 5 (Bypass) Plain Paper B/W	742-159	24	0 - 40	0.2544mm (5 steps = 1mm)

Table 2 Lead Edge Registration

Description	NVM (dC131)	Default Setting	Range	Change per Step
Duplex Plain Paper Color	742-038	21	0 - 40	0.2544mm (5 steps = 1mm)
Duplex H/W 1 Paper Color and B/W	742-122	21	0 - 40	0.2544mm (5 steps = 1mm)
Duplex Plain Paper B/W	742-160	20	0 - 40	0.2544mm (5 steps = 1mm)

2. Repeat the **Check** and **Adjustment** until the Lead Edge Registration is correct for all paper trays.

Side Edge Registration

Purpose

To correctly register the side edge of the image in relation to the outboard edge of the paper.

Check

1. From the Maintenance/Diagnostics screen, select **NVM Read/Write**.
2. Change the value for NVM location 870-207 to 6.
3. Change the value for NVM location 870-203 to 1.
4. Return to the Maintenance/Diagnostics screen.
5. From the Maintenance/Diagnostics screen, select **Print Test Pattern**.
6. With the appropriate size paper loaded in the paper trays (refer to the **Lead Edge Registration Check** procedure), select **Print Test Pattern** from the Maintenance/Diagnostics screen.
7. Enter **3** as the **Pattern Number**.
8. Enter **5** as the **Quantity**.
9. Press the **Paper Supply** button, select **Tray 1**, and press **Save**.
10. Select the **Output Color** button, then select the **Black (K)** button to designate the color to be printed. Select the **Close** button.
11. Press **Start** on the numeric keypad. The specified test pattern will print and be delivered to the output tray.
12. Label each printed sheet with the number of the print (1 through 5), the words “Tray 1,” and “Side 1,” and the location of the Lead Edge of each sheet.
13. Take the third print and measure from the side edge to points B1 and B2 (as shown on Figure 1). Point B1 is at the intersection of the 5th line from the lead edge and the first line from the lead edge. Point B2 is at the intersection of the 10th line from the lead edge and the first line from the lead edge.
14. If the measured value is not 21.6 +/- 0.5mm, perform the Adjustment. If the Check is OK, repeat the **Check** for Trays 2 - 5.

Adjustment

1. Select the appropriate NVM from Table 3 and adjust the Side Edge registration NVM Read/Write.

   NOTE: *The item **SRA3 Size Set** in Table 3 is used when oversize (greater than A3 width) paper is loaded in Tray 5 (Bypass). This information enables the control logic to correctly print the test pattern grid on the paper. The Side Edge adjustment for oversize paper fed from Tray 5 (Bypass) is the item **Tray 5 SRA3 Size Adjustment**.*

Table 3 Side Edge Registration

Description	NVM (dC131)	Default Setting	Range	Change per Step
ALL	742-025	25	0 - 50	0.211mm (4 steps = 1mm)
Tray 5 (Bypass)	742-026	20	0 - 50	0.211mm (4 steps = 1mm)
Duplex	742-027	22	0 - 50	0.211mm (4 steps = 1mm)
Tray 1	742-053	22	0 - 50	0.211mm (4 steps = 1mm)
Tray 2	742-076	20	0 - 50	0.211mm (4 steps = 1mm)
Tray 3	742-077	20	0 - 50	0.211mm (4 steps = 1mm)
Tray 4	742-078	20	0 - 50	0.211mm (4 steps = 1mm)
TTM (Tray 3,4)	742-079	25	0 - 50	0.211mm (4 steps = 1mm)
SRA3 size set (Tray 5 only)	742-297	2160 (216mm)	0 - 3200	SRA3 = 3200 (320mm)
Tray 5 SRA3 Size Adjustment	742-298	32	0 - 50	1 step = 0.211mm (4 steps = 1mm)

2. Repeat the **Check** and **Adjustment** until the Side Edge Registration is correct for all paper trays.

Lead Edge Registration (Heavy Weight Paper)

Purpose

1. For the 3TM, if heavyweight paper is available, load all trays (1 - 4 and Tray 5/Bypass) with A3 Heavyweight paper.

   For the TTM, if heavyweight paper is available, load Trays 1 and 2, and Tray 5 (Bypass), with A3 Heavyweight paper. Load Trays 3 and 4 with A4 Heavyweight paper.

NOTE: *If heavyweight paper is not available, use the same Bond/Plain paper that was used to check and adjust registration for Bond/Plain paper.*

NOTE: *Setting up the registration for* ***Heavyweight 1*** *will automatically set up the registration for* ***Plain Gloss*** *media.*

2. Ensure that all paper trays are set to a **Heavyweight paper type** (regardless of the actual weight of paper installed in the trays).
3. Repeat procedure for Lead Edge Registration (Bond/Plain Paper).

ADJ 9.10 IIT Lead Edge Registration

Purpose

To adjust the IIT scan timing in the Slow Scan direction and to correct the copy position.

Check

CAUTION

Perform this adjustment only if absolutely required; the IIT Lead Edge Registration affects the precision of the document size detection.

NOTE: *Before performing this procedure, make sure that the IOT Lead Edge Registration is correct. Refer to ADJ 9.9, IOT Side/Lead Edge Registration.*

1. Place the Geometric Test Pattern (82E8220) on the Platen Glass correctly and make copies with the following settings:
   - Copy Mode: Black
   - Paper Size: 11 x 17 in or A3
   - Magnification: 100%
   - No. of Copies: 2
2. On the 2nd copy, check that the distance from the lead edge to the top of Step 3 on the LE2 scale is 10.0mm +/- 2.1mm (Figure 1).

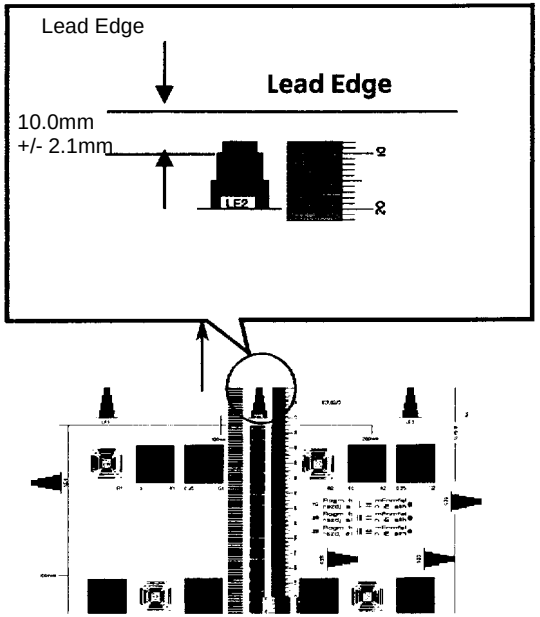


Figure 1 Checking IIT Lead Registration

3. If the value is not within the specified range, Perform the Adjustment:

Adjustment

1. Enter Diagnostic mode.
2. From the **Maintenance/Diagnostics** screen, select **NVM Read/Write** [715-050].
3. Change the value:
   - Each bit represents 0.036 mm
   - Increase the value to move the image toward the lead edge.
   - Decrease the value to move the image away from the lead edge.

ADJ 9.11 IIT Side Edge Registration

Purpose

To adjust the IIT scan timing in the Fast Scan direction and to correct the copy position.

Check

CAUTION

Perform this adjustment only if absolutely required; the IIT Side Edge Registration affects the precision of the document size detection.

NOTE: *Before performing this procedure, make sure that the IOT Side Edge Registration is correct. (Refer to ADJ 9.9, IOT Side/Lead Edge Registration.)*

1. Load 11 x 17 in. or A3 paper into Tray 2.
2. Place the Geometric Test Pattern (82E8220) on the Platen Glass correctly and make copies with the following settings:
   - Copy Mode: Black
   - Paper Tray: Tray 2
   - Magnification: 100%
   - No. of Copies: 2
3. On the 2nd copy, check that the distance from the lead edge to the top of Step 3 on the SE2 and SE3 scales is 10.0mm +/- 1.6mm (Figure 1).

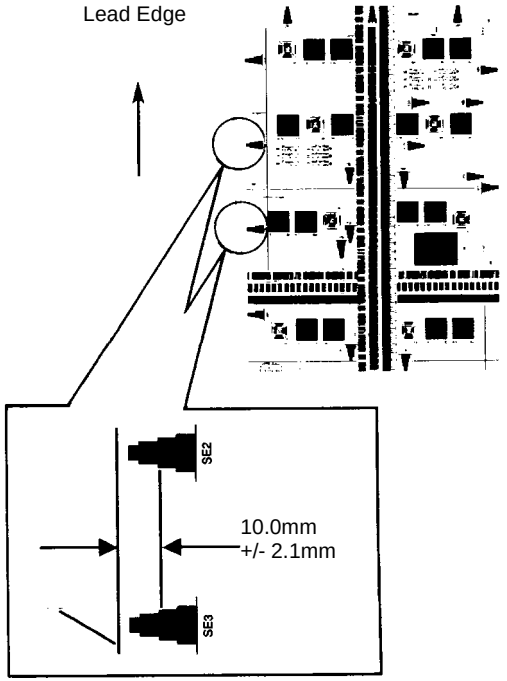


Figure 1 Checking IIT Side Edge Registration

4. If the value is not within the specified range, perform the Adjustment:

Adjustment

1. Enter Diagnostic mode.
2. From the **Maintenance/Diagnostics** screen, select **NVM Read/Write** [715-053].
3. Change the value:
   - Each bit represents 0.0846 mm
   - Increase the value to move the image toward the edge.
   - Decrease the value to move the image away from the edge.

ADJ 9.12 IIT Vertical/Horizontal Magnification

Purpose

To correct the horizontal (fast scan)/vertical (slow scan) magnification ratio for a 100% copy.

Check

CAUTION

Perform this procedure only if absolutely required; changing IIT magnification may adversely affect resolution due to ASIC shift, and may cause a color shift.

1. Place the Geometric Test Pattern (82E8220) on the Platen Glass and make a copy using the following copy mode settings:
   - Copy Mode: Black
   - Document Type: Text/Photo
   - Paper: 11 x17 in. or A3
   - Magnification: 100%
   - No. of Copies: 2
2. Check the 2nd copy for the following:
3. **Check horizontal magnification** (Figure 1):

   Measure the 200mm line running from near LE1 to near LE3. If the dimension is not 200mm ±1.2mm, perform the Adjustment.

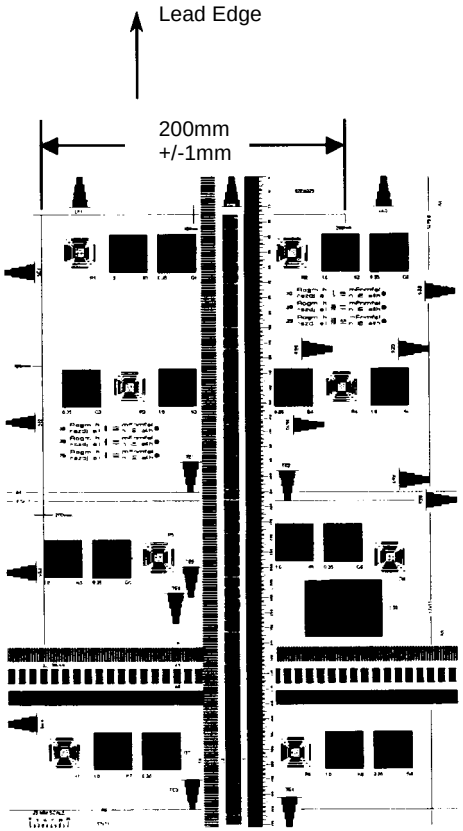


Figure 1 Checking Horizontal Magnification

4. **Check vertical magnification** (Figure 2):

   Measure the 300mm line running from near LE1 to the trail edge of the 1.8lp ladder. If the dimension is not 300mm ±1.8mm, perform the Adjustment.

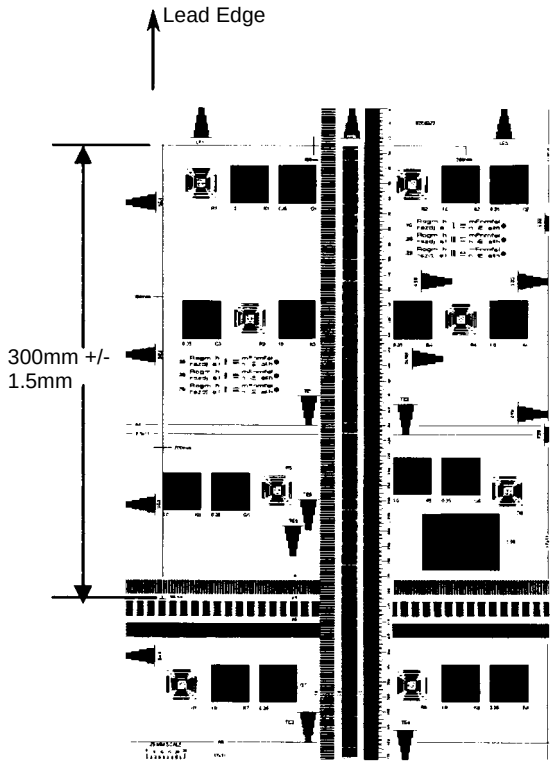


Figure 2 Checking Vertical Magnification

Adjustment

1. **Horizontal Magnification Adjustment**
   - Enter Diagnostics mode and select **NVM Read/Write** from the **Maintenance/Diagnostics** screen.
   - Enter Chain-Link: [715-702] and press **Confirm**.
   - Enter the correction value and press **Save**.

     Each bit represents 0.1% change:

     Increase the value to lengthen the line

     Decrease the value to shorten the line
2. Vertical Magnification Adjustment
   - Enter Chain-Link [715-051] and press **Confirm**.
   - Enter the correction value and press **Save**.

     Each bit represents 0.1% change:

     Increase the value to lengthen the line

     Decrease the value to shorten the line

ADJ 9.13 UI Display Calibration

Purpose

Adjust the display by making the buttons on the display correspond to the Touch Panel, so that users can correctly select the content indicated on the display.

Perform this adjustment when UI PWB or the Control Panel is replaced.

Adjustment

NOTE: *Use a tapered stylus. Care should be taken not to scratch the UI surface.*

1. Switch off the power.
2. Switch on the power while simultaneously holding down the numerical keys **0**, **1**, and **3** on the Control Panel.

   The Calibration Screen 1 will display (Figure 1).

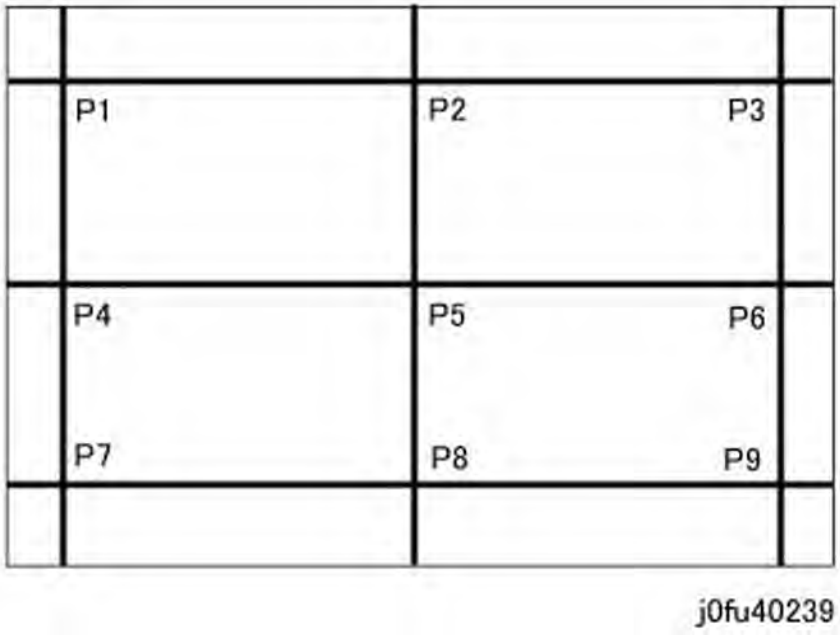


Figure 1 Calibration Screen 1

3. In numeric sequence (P1 to P9), touch the intersections of the vertical and horizontal lines with the stylus.

   The machine will calculate the deviation and the correction value on the coordinates. This automatic calculation takes about 1.0 second.
4. Calibration Screen 2 will display (Figure 2).
5. Apply the stylus to each of the four line intersections. A black square should appear at the point of contact, and a beep should sound.
   - If four beeps are heard, adjustment is OK.
   - If you don't hear four beeps, repeat the adjustment from step 1.

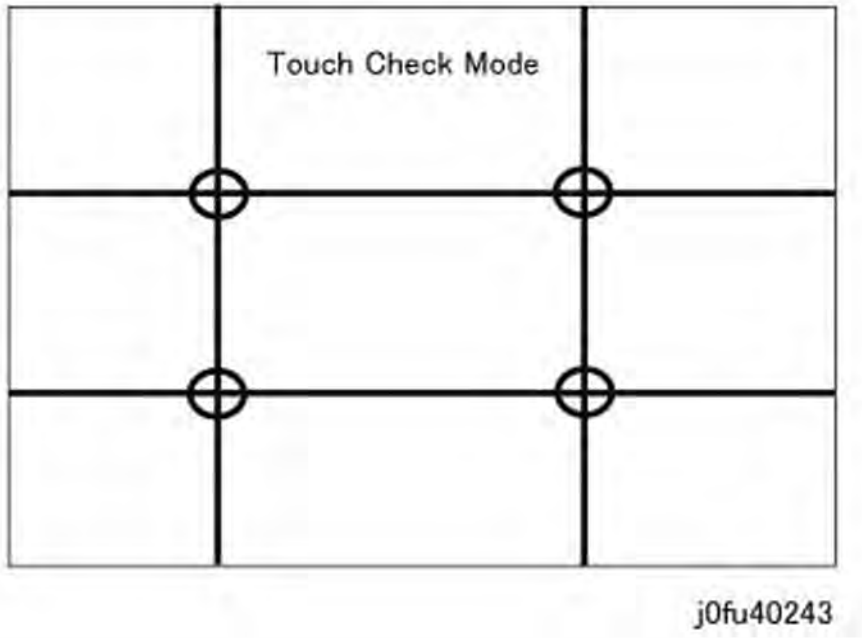


Figure 2 Adjustment Screen #2

6. Switch the power off and then on.

ADJ 9.14 Inboard/Outboard Density

Purpose

CAUTION

Perform this adjustment only to correct a customer complaint. Altering settings to correct for a specific condition may have unintended effects in other situations. Make as small a correction as possible to satisfy the complaint.

To perform the ROS In/Out light quantity correction with this adjustment, when IN/Out densities are different but the parameters other than ROS light quantity judges that all is normal.

Adjustment

1. Load 8.5 x 11” or A4 (LEF) paper into Tray 1.
2. Enter Diagnostic mode.
3. From the **Maintenance/Diagnostics** screen, select **Print Test Pattern.**
4. Select the Test Pattern as follows:.
   - Pattern: 2 (IOT Halftone)
   - Cin (%): 30 or 40%; whichever shows the greatest density variation
   - Print Count: 1
   - Tray: Tray 1
   - Paper Type: Normal
   - Resolution: None
   - Paper: Simplex
   - Color Mode: You will print one or more test patterns of each color (C, Y, M, and K)
5. Select **B/W** and print out the test pattern. Analyze the density variation as follows:

NOTE: *The terms **Inboard** and **Outboard** refer to the orientation of the sheet as fed into the facedown tray. When the sheet is flipped over and rotated so that the lead edge is at the top, **Outboard** will be to the left and **Inboard** will be to the right.*

- Divide the print into four zones from outboard to inboard
- Determine the relative density between the four zones. Qualify the density on a 1-to-five scale with 5 being good density, and 1 being “very light” density. This is a relative comparison - you are comparing one area of the page to another, not to a standard density
- Refer to Figure 1. This example shows two different conditions. The solid line represents the condition where the density is light on both inboard and outboard edges, and darker in the center. The dotted line indicates a non-linear condition wherein the density is darker at the outboard edge, and is light for the rest of the sheet.

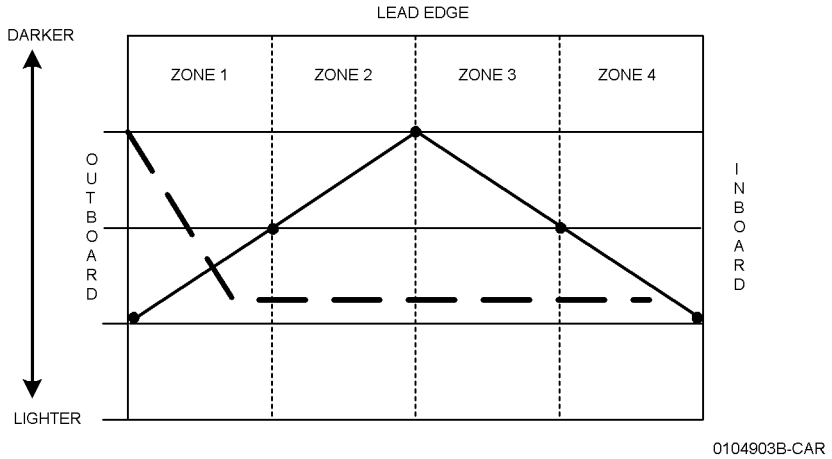


Figure 1 Density Pattern Example

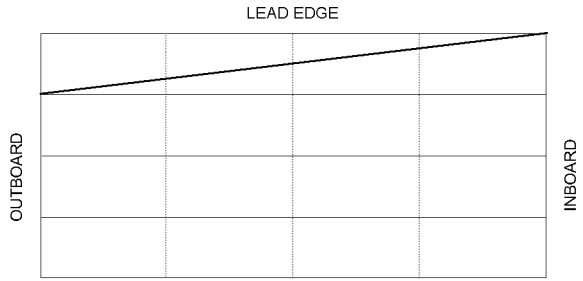
- Compare the results of the printed test pattern with the 19 patterns in Figures 2~20. Pick the pattern that most closely represents the printed pattern.
  - For conditions where the density is darker on the inboard edge and becomes progressively lighter towards the outboard edge, choose between Figure 2, Figure 3, Figure 4, or Figure 5.
  - For conditions where the density is darker on the outboard edge and becomes progressively lighter towards the inboard edge, choose between Figure 6, Figure 7, Figure 9, or Figure 10.
  - For conditions where the density is darker in the center and becomes progressively darker towards both edges, choose between Figure 14, Figure 15, Figure 16, or Figure 17.
  - For conditions where the density is light in the center and becomes progressively darker towards both edges, choose between Figure 18, Figure 19, or Figure 20.
  - For non-linear density variations choose between Figure 10, Figure 11, Figure 12, or Figure 13.

CAUTION

Use only the values listed in the tables. Do not try to interpolate values!

NOTE: *Use this routine with caution. The routine works by lowering the density of the area determined to be darker; it cannot darken light areas. It is possible to get the density even, but objectionably light.*

6. Change the values in the appropriate NVM NVM Read/Write locations to the values listed for that pattern.
7. Print the test pattern again and confirm the change. Repeat as necessary until the density is even from inboard to outboard.
8. Repeat Steps 3~6 for Cyan, Magenta, then Yellow.
9. Verify the solution using the images that caused the customer complaint.

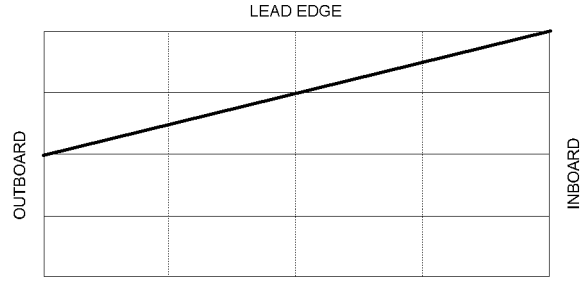


DESCRIPTION:
DENSITY IS "SLIGHTLY LIGHT" AT OUTBOARD EDGE;BECOMES DARKER TOWARDS INBOARD EDGE. TO LIGHTEN THE INBOARD SIDE,SET THE NVM AS FOLLOWS:

COLOR	ADDRESS	VALUE	ADDRESS	VALUE
YELLOW	753-801	973	753-805	1
MAGENTA	753-802	973	753-806	1
CYAN	753-803	1024	753-807	1
BLACK	753-804	1024	753-808	1

0104904B-CAR

Figure 2 Pattern #1

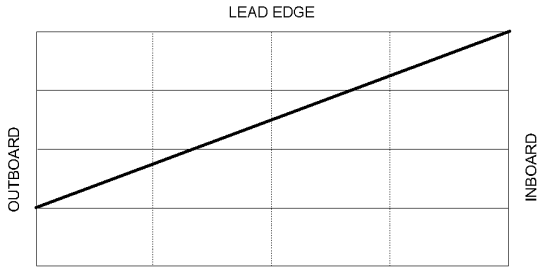


DESCRIPTION: DENSITY IS "LIGHT" AT OUTBOARD EDGE;BECOMES DARKER TOWARDS INBOARD EDGE. TO LIGHTEN THE INBOARD SIDE,SET THE NVM AS FOLLOWS:

COLOR	ADDRESS	VALUE	ADDRESS	VALUE
YELLOW	753-801	922	753-805	2
MAGENTA	753-802	922	753-806	2
CYAN	753-803	1024	753-807	2
BLACK	753-804	1024	753-808	2

0104905B-CAR

Figure 3 Pattern #2

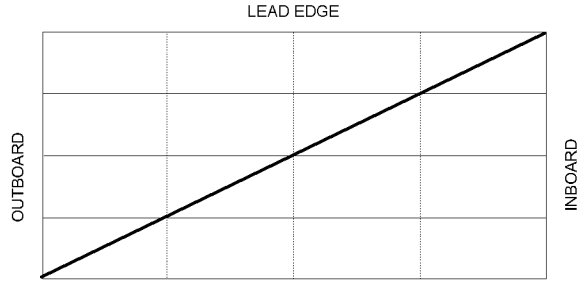


DESCRIPTION: DENSITY IS "LIGHTER" AT OUTBOARD EDGE;BECOMES DARKER TOWARDS INBOARD EDGE. TO LIGHTEN THE INBOARD SIDE,SET THE NVM AS FOLLOWS:

COLOR	ADDRESS	VALUE	ADDRESS	VALUE
YELLOW	753-801	922	753-805	2
MAGENTA	753-802	922	753-806	2
CYAN	753-803	1024	753-807	2
BLACK	753-804	1024	753-808	2

0104906A-CAR

Figure 4 Pattern #3

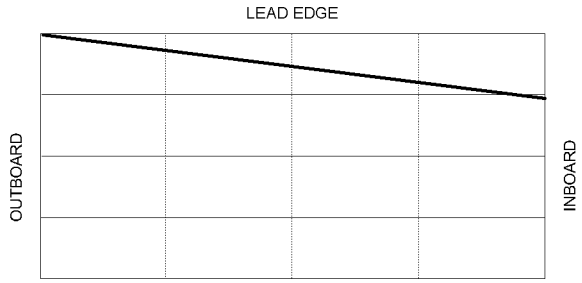


DESCRIPTION: DENSITY IS MUCH LIGHTER AT OUTBOARD EDGE;THAN AT INBOARD EDGE. TO LIGHTEN THE INBOARD SIDE,SET THE NVM AS FOLLOWS:

COLOR	ADDRESS	VALUE	ADDRESS	VALUE
YELLOW	753-801	819	753-805	4
MAGENTA	753-802	819	753-806	4
CYAN	753-803	1024	753-807	4
BLACK	753-804	1024	753-808	4

0104907A-CAR

Figure 5 Pattern #4

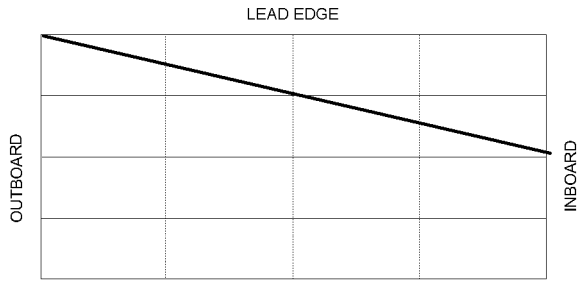


DESCRIPTION:DENSITY IS OK AT OUTBOARD EDGE; "SLIGHTLY LIGHT" AT INBOARD EDGE. TO LIGHTEN THE OUTBOARD SIDE,SET THE NVM AS FOLLOWS::

COLOR	ADDRESS	VALUE	ADDRESS	VALUE
YELLOW	753-801	1024	753-805	5
MAGENTA	753-802	1024	753-806	5
CYAN	753-803	973	753-807	5
BLACK	753-804	973	753-808	5

0104908A-CAR

Figure 6 Pattern #5

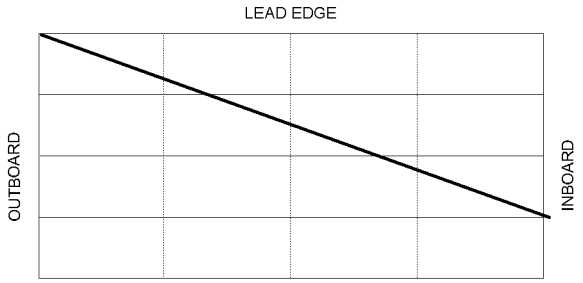


DESCRIPTION:
DENSITY IS OK AT OUTBOARD EDGE; "LIGHT" AT INBOARD EDGE. TO LIGHTEN THE OUTBOARD SIDE, SET THE NVM AS FOLLOWS:

COLOR	ADDRESS	VALUE	ADDRESS	VALUE
YELLOW	753-801	1024	753-805	6
MAGENTA	753-802	1024	753-806	6
CYAN	753-803	922	753-807	6
BLACK	753-804	922	753-808	6

0104939A-CAR

Figure 7 Pattern #6

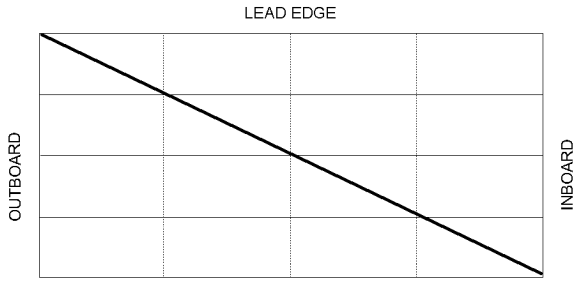


DESCRIPTION:
DENSITY IS MUCH LIGHTER AT INBOARD EDGE THAN AT OUTBOARD EDGE. TO LIGHTEN THE OUTBOARD SIDE,SET THE NVM AS FOLLOWS:

COLOR	ADDRESS	VALUE	ADDRESS	VALUE
YELLOW	753-801	1024	753-805	7
MAGENTA	753-802	1024	753-806	7
CYAN	753-803	870	753-807	7
BLACK	753-804	870	753-808	7

0104940A-CAR

Figure 8 Pattern #7

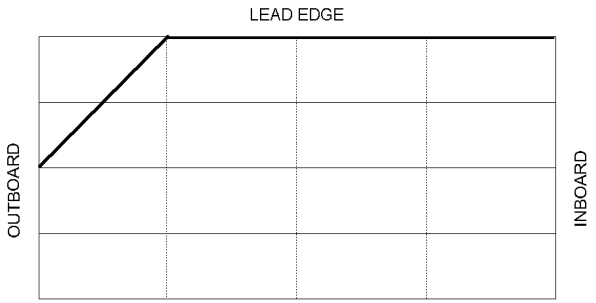


DESCRIPTION:
DENSITY IS VERY MUCH LIGHTER AT INBOARD EDGE THAN AT OUTBOARD EDGE. TO LIGHTEN THE OUTBOARD SIDE,SET THE NVM AS FOLLOWS:

COLOR	ADDRESS	VALUE	ADDRESS	VALUE
YELLOW	753-801	1024	753-805	8
MAGENTA	753-802	1024	753-806	8
CYAN	753-803	819	753-807	8
BLACK	753-804	819	753-808	8

0104941A-CAR

Figure 9 Pattern #8

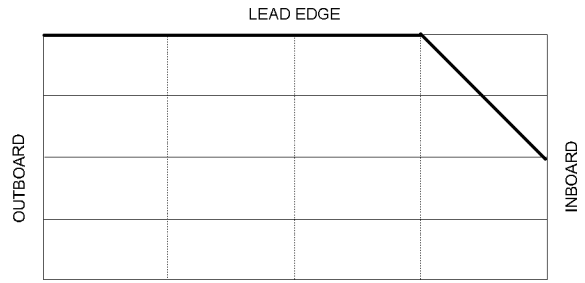


DESCRIPTION:
DENSITY IS "LIGHT" AT OUTBOARD EDGE; DARKER FROM ZONE 2 TO INBOARD EDGE. SET THE NVM AS FOLLOWS TO CORRECT:

COLOR	ADDRESS	VALUE	ADDRESS	VALUE
YELLOW	753-801	922	753-805	9
MAGENTA	753-802	922	753-806	9
CYAN	753-803	1024	753-807	9
BLACK	753-804	1024	753-808	9

0104942A-CAR

Figure 10 Pattern #9

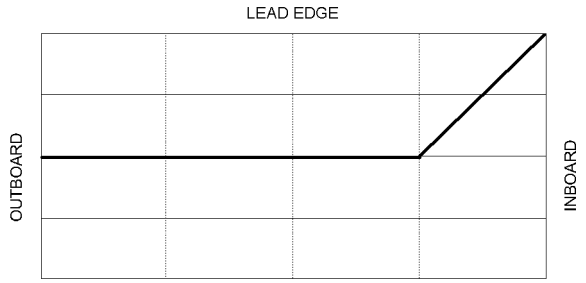


DESCRIPTION:
DENSITY IS "LIGHT" AT INBOARD EDGE, DARKER FROM OUTBOARD EDGE THROUGH ZONE 3. SET THE NVM AS FOLLOWS TO CORRECT:

COLOR	ADDRESS	VALUE	ADDRESS	VALUE
YELLOW	753-801	1024	753-805	10
MAGENTA	753-802	1024	753-806	10
CYAN	753-803	922	753-807	10
BLACK	753-804	922	753-808	10

0104943A-CAR

Figure 11 Pattern #10

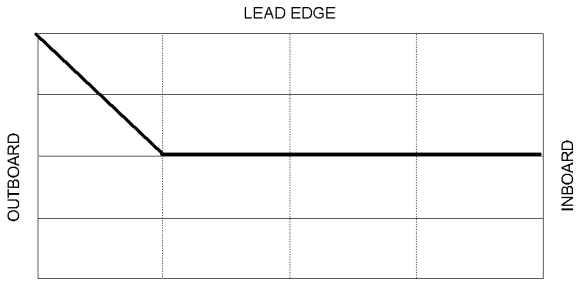


DESCRIPTION:
DENSITY IS LIGHT AT OUTBOARD EDGE THROUGH ZONE 3; THEN BECOMES DARKER NEAR INBOARD EDGE. SET THE NVM AS FOLLOWS TO CORRECT:

COLOR	ADDRESS	VALUE	ADDRESS	VALUE
YELLOW	753-801	922	753-805	11
MAGENTA	753-802	922	753-806	11
CYAN	753-803	1024	753-807	11
BLACK	753-804	1024	753-808	11

0104944A-CAR

Figure 12 Pattern #11

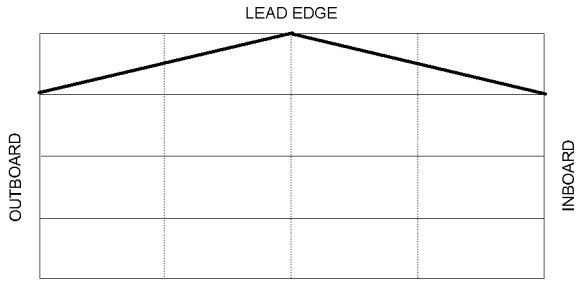


DESCRIPTION:
DENSITY IS DARKER AT OUTBOARD EDGE; LIGHT FROM ZONE 2 TO INBOARD EDGE. SET THE NVM AS FOLLOWS TO CORRECT:

COLOR	ADDRESS	VALUE	ADDRESS	VALUE
YELLOW	753-801	1024	753-805	12
MAGENTA	753-802	1024	753-806	12
CYAN	753-803	922	753-807	12
BLACK	753-804	922	753-808	12

0104945A-CAR

Figure 13 Pattern #12

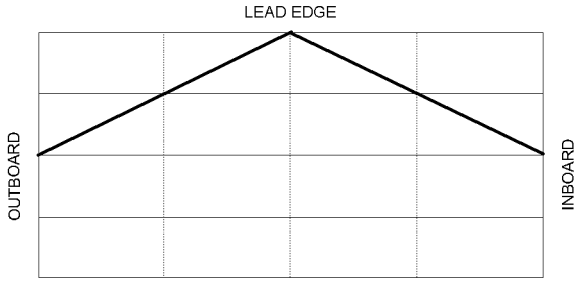


DESCRIPTION:
DENSITY IS DARKER IN CENTER, "SLIGHTLY LIGHT" AT BOTH OUTBOARD AND INBOARD EDGES. SET THE NVM AS FOLLOWS LIGHTEN THE CENTER:

COLOR	ADDRESS	VALUE	ADDRESS	VALUE
YELLOW	753-801	1024	753-805	13
MAGENTA	753-802	1024	753-806	13
CYAN	753-803	1024	753-807	13
BLACK	753-804	1024	753-808	13

0104946A-CAR

Figure 14 Pattern #13

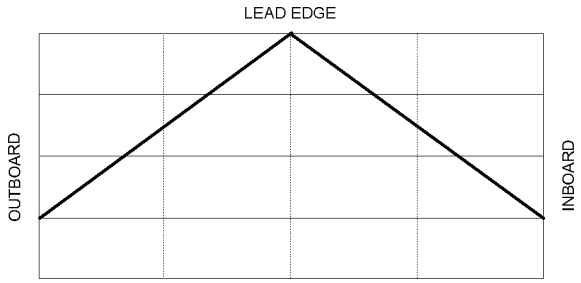


DESCRIPTION:
DENSITY IS DARKER IN CENTER, "LIGHT" AT BOTH OUTBOARD AND INBOARD EDGES. SET THE NVM AS FOLLOWS LIGHTEN THE CENTER:

COLOR	ADDRESS	VALUE	ADDRESS	VALUE
YELLOW	753-801	1024	753-805	14
MAGENTA	753-802	1024	753-806	14
CYAN	753-803	1024	753-807	14
BLACK	753-804	1024	753-808	14

0104947A-CAR

Figure 15 Pattern #14

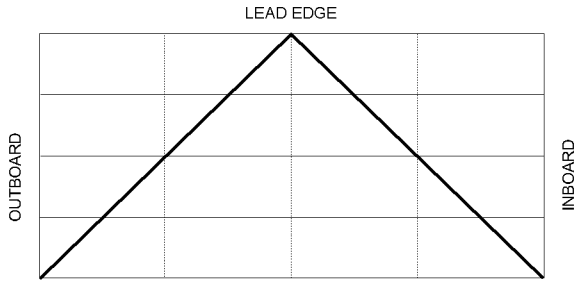


DESCRIPTION:
DENSITY IS DARKER IN CENTER, MUCH LIGHTER AT BOTH OUTBOARD AND INBOARD EDGES. SET THE NVM AS FOLLOWS LIGHTEN THE CENTER:

COLOR	ADDRESS	VALUE	ADDRESS	VALUE
YELLOW	753-801	1024	753-805	15
MAGENTA	753-802	1024	753-806	15
CYAN	753-803	1024	753-807	15
BLACK	753-804	1024	753-808	15

0104948A-CAR

Figure 16 Pattern #15

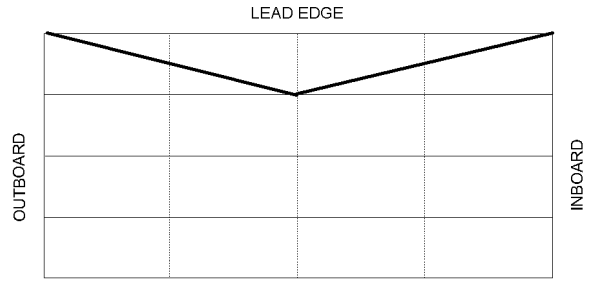


DESCRIPTION:
DENSITY IS DARKER IN CENTER, VERY MUCH LIGHTER AT BOTH OUTBOARD AND INBOARD EDGES. SET THE NVM AS FOLLOWS LIGHTEN THE CENTER:

COLOR	ADDRESS	VALUE	ADDRESS	VALUE
YELLOW	753-801	1024	753-805	16
MAGENTA	753-802	1024	753-806	16
CYAN	753-803	1024	753-807	16
BLACK	753-804	1024	753-808	16

0104949A-CAR

Figure 17 Pattern #16

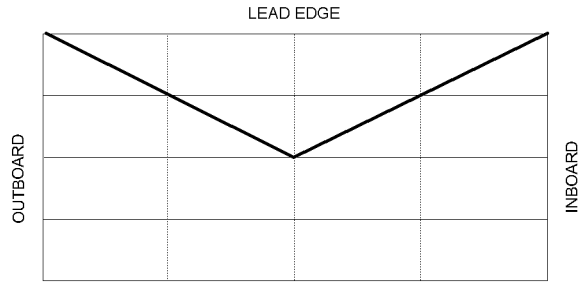


DESCRIPTION:
DENSITY IS "SLIGHTLY LIGHT" IN CENTER, DARKER AT BOTH OUTBOARD AND INBOARD EDGES. TO LIGHTEN THE INBOARD AND OUTBOARD SIDES, SET THE NVM AS FOLLOWS:

COLOR	ADDRESS	VALUE	ADDRESS	VALUE
YELLOW	753-801	973	753-805	17
MAGENTA	753-802	973	753-806	17
CYAN	753-803	973	753-807	17
BLACK	753-804	973	753-808	17

0104950A-CAR

Figure 18 Pattern #17

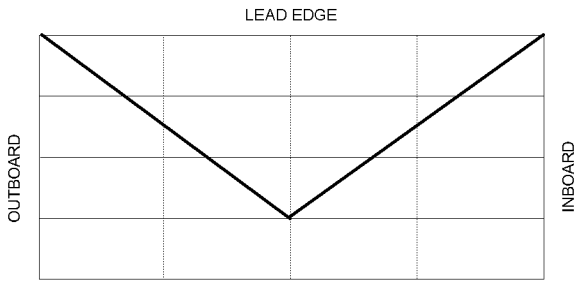


DESCRIPTION:
DENSITY IS "LIGHT" IN CENTER, DARKER AT BOTH OUTBOARD AND INBOARD EDGES. TO LIGHTEN THE INBOARD AND OUTBOARD SIDES, SET THE NVM AS FOLLOWS:

COLOR	ADDRESS	VALUE	ADDRESS	VALUE
YELLOW	753-801	922	753-805	18
MAGENTA	753-802	922	753-806	18
CYAN	753-803	922	753-807	18
BLACK	753-804	922	753-808	18

0104951A-CAR

Figure 19 Pattern #18



DESCRIPTION:
DENSITY IS MUCH LIGHTER IN CENTER THAN AT BOTH OUTBOARD AND INBOARD EDGES. TO LIGHTEN THE INBOARD AND OUTBOARD SIDES, SET THE NVM AS FOLLOWS:

COLOR	ADDRESS	VALUE	ADDRESS	VALUE
YELLOW	753-801	870	753-805	19
MAGENTA	753-802	870	753-806	19
CYAN	753-803	870	753-807	19
BLACK	753-804	870	753-808	19

0104952A-CAR

Figure 20 Pattern #19

ADJ 9.15 Light Image Setup

Purpose

CAUTION

Perform this adjustment only to correct a customer complaint. Altering settings to correct for a specific condition may have unintended effects in other situations. Make as small a correction as possible to satisfy the complaint.

The following procedure addresses the issue of “light” copies and / or prints.

Check

1. If the reported problem involves print mode only (“**Case 1**”), perform step 3. If the reported problem involves copy mode only (“**Case 2**”), perform Step 2. If both modes are affected (“**Case 3**”), perform both steps.
2. Recopy the customer's job. If customer copy job is not available, make initial copies of the 82E13120 test pattern on the specified paper (XC - Digital Color Expression; XE - ColorTech+) 24lb A3/11” x 17” paper. Compare copy output samples to the original.
3. Re-send customers print job. Observe the print(s) for density mottle defects or “washed out” densities.
4. If either or both jobs exhibit density mottle defects or “washed out” densities, perform the Verification and Adjustment.

Verify/record machine settings

1. Check that IOT, ESS, IIT, etc., are at the most recent software revision levels. Upgrade if necessary.
2. Print a system setting list from the UI.
3. Record the IIT serial number.
4. Check the following NVM NVM Read/Write values:
   - 700-397 = 44 for inch size paper; 5 for metric (A size) paper
   - 701-912 = 1 (ADC Gradation Compensation Validity for A,B)
   - 701-924 = 1 (Auto Gradation Compensation Validity for A,B)
   - 701-929 = 1 (Auto Gradation Compensation Validity for E,F)
   - 715-144 = 2 (XC - Digital Color Xpression); 4 (XE - ColorTech+)
   - 715-400 = 1 (ADF INSTALLED)
5. Record machine meter count.
6. For **Case 1**, check that all settings in print driver are correct (paper type, image quality…)

Adjustment

1. (**Case 1 only**:) Calibrate the controller (refer to ADJ 9.17 Auto Gradation).
2. (**Case 2 and Case 3**:) Check/clean the White Reference strip located to the left of the Registration Edge.
3. (**All**:) Perform ADJ 9.1 (Max Setup). Observe the special requirements listed below:
   - ADJ 9.7 (IIT Calibration)
     - White Reference - use the paper which is specified for the market. White Reference result values should be in the range of 130 ~ 145. If values are not in range, clean/repair the IIT and white reference strip as required and repeat the step.
     - CCD Calibration - Use the correct color test pattern (82E13120).The Reflection values for YMCK vs. RGB marked “X” in Table 1 should be between 200 and 250. if not, perform procedure to clean IIT optics and repeat the step.

Table 1 CCD Calibration

	R	G	B
Y:			X
M:		X	
C:	X		
K:	X	X	X

   - ADJ 9.3 TRC Control/Toner Density Setup
     - For each color, check that the values for **ATC Average Detected Value** are within 50 bits of the values for **ATC Control Environmentally Adjusted Value**. If the values are not within 50 bits, perform ADJ 9.3 TRC Control again. If values still are not within 50 bits, exit diagnostics and run approximately 60 ~ 100, full color A4 copies of the 82E13120 test pattern, then repeat ADJ 9.3. If values are not within 50 bits, tone up or down, if the tone interval is <15.
   - ADJ 9.4 ADC AGC Setup - ADC Measurement
     - For each color, check that the values for **Radc Measured Value** are within 40 bits of the values for **Radc Target Value** (for each of the colors Y, M, C, K). If values are not within 40 bits, perform ADJ 9.4 again.
   - ADJ 9.5 TRC Adjust
     - Ensure that all values for Low Density, Medium Density, and High Density (Y, M, C, K) are set to at mid-range (0).
4. Repeat the **Check**.
   - If the problem remains for print mode only, go to step 5.
   - If the problem remains for copy mode only, go to step 6.
   - If the density is too low in both modes, go to step 7.
5. Check that all of the settings in the print driver are correct (paper type, image quality…).

   Calibrate the controller (refer to ADJ 9.17 Auto Gradation).
6. (Light Copies only:) Perform ADJ 9.17 Auto Gradation for Copy Job-Text and Copy Job-Photo only. If copies do not improve do the following:
   - Adjust the Color Balance on the UI until the copies in default/walk-up modes are acceptable to the customer. Start the adjustment with the settings in Table 2:

Table 2 Color Balance

	Low	Medium	High
Y:	0	+1	+1
M:	0	+1	+1
C:	0	+1	+1
K:	0	+1	+2

   - Set the desired Color Balance final settings as defaults in Tools mode.

NOTE: *These settings will affect copies only and not prints. Performing Auto Gradation will NOT change the Color Balance default settings. The customer can continue to manually change the Color Balance settings on the UI.*

7. Perform ADJ 9.17 Auto Gradation for Copy Job-Text, Copy Job-Photo, Print Job-Text and Print Job-Photo. Check for the following:
   - Prints improved but copies did not - Adjust Color Balance as described in step 6 above.
   - Copies improved but prints did not - Recheck all print driver settings. Calibrate the controller (refer to ADJ 9.17 Auto Gradation).
   - If both modes are still too light, go to ADJ 9.5 TRC Adjust and adjust the TRC adjustment values until the output is acceptable to the customer. Start the adjustment with the settings in Table 3:

Table 3 TRC Settings

	Low	Medium	High
Y:	0	+10	+15
M:	0	+10	+15
C:	0	+10	+15
K:	0	+10	+15

   - Performing TRC ADjust will affect both copies and prints. Check output of the prints and copies in Photo modes; if the output is too dark, perform a Print-Text, Print-Photo, and/or Copy-Photo Auto Gradation adjustment.

     NOTE: *Performing a Copy Job-Text Auto Gradation will automatically reset the TRC adjustments for the walk-up mode copies back to zero (0). If an Auto Gradation is performed after this point, the output prints and/or copies may be perceived "light" in density. Please instruct the customer not to perform a Copy-Text Auto Gradation adjustment, or disable the Copy mode (Copy Job-Text and Copy Job-Photo) Auto Gradation LUTs by setting NVM 701-929 = 0*

8. After completing the above procedure print a new machine system settings list using the UI. Store this new list in tray #1 with the machine service log.

ADJ 9.16 Optical Axis Alignment

Purpose

The purpose of this adjustment is to align the CCD with the Lens. This procedure should only be performed if the Lens or CCD is replaced, or if the documentation specifically directs.

Check

1. Reinstall the Platen Glass (REP 11.3.1).

CAUTION

Stray light will adversely affect the check. If there is significant ambient light around the machine (especially fluorescent light), open the platen cover as little as required to start the scan, in order to keep as much stray light as possible away from the Lens and CCD.

2. Select the **Optical Axis Correction** button on the **IIT Calibration** screen. Raise the platen cover or DADF. Press **Start**.
3. Check the results on the **Optical Axis Correction** screen (Figure 1). If OK is displayed in the **Result** row, the check is good. Reinstall the Platen Glass. Adjust the IIT Calibration (ADJ 9.7).
4. If the screen displays **NG**, perform the Adjustment.

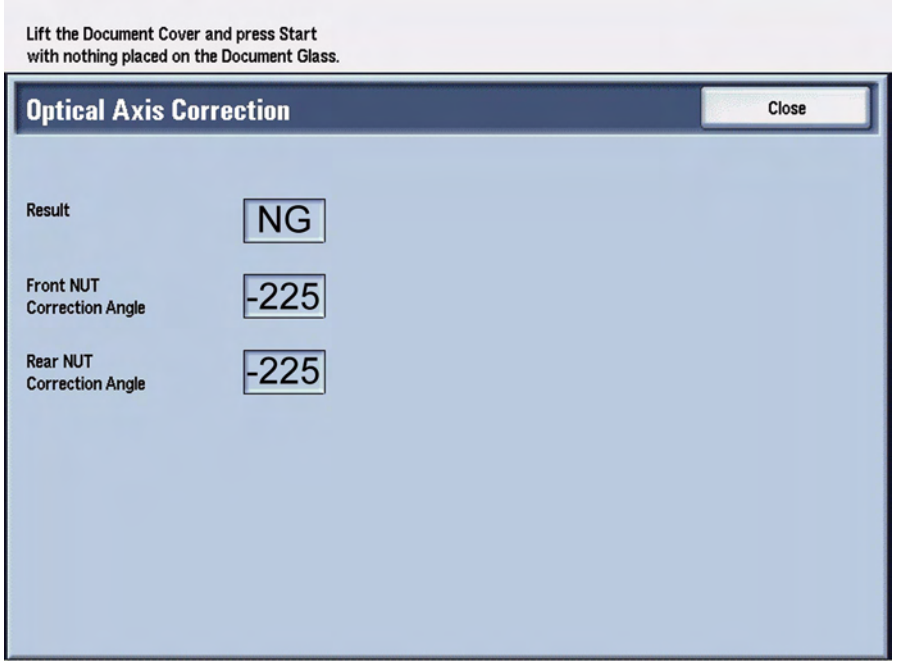


Figure 1 Sample Optical Axis Correction results

Adjustment

1. Remove the Platen Glass (REP 11.3.1).
2. Remove the Lens Cover (PL 18.4).

3. Place an index mark on the barrel of a 5.5mm nut driver. Figure 2 shows the tool and the adjusting nuts.

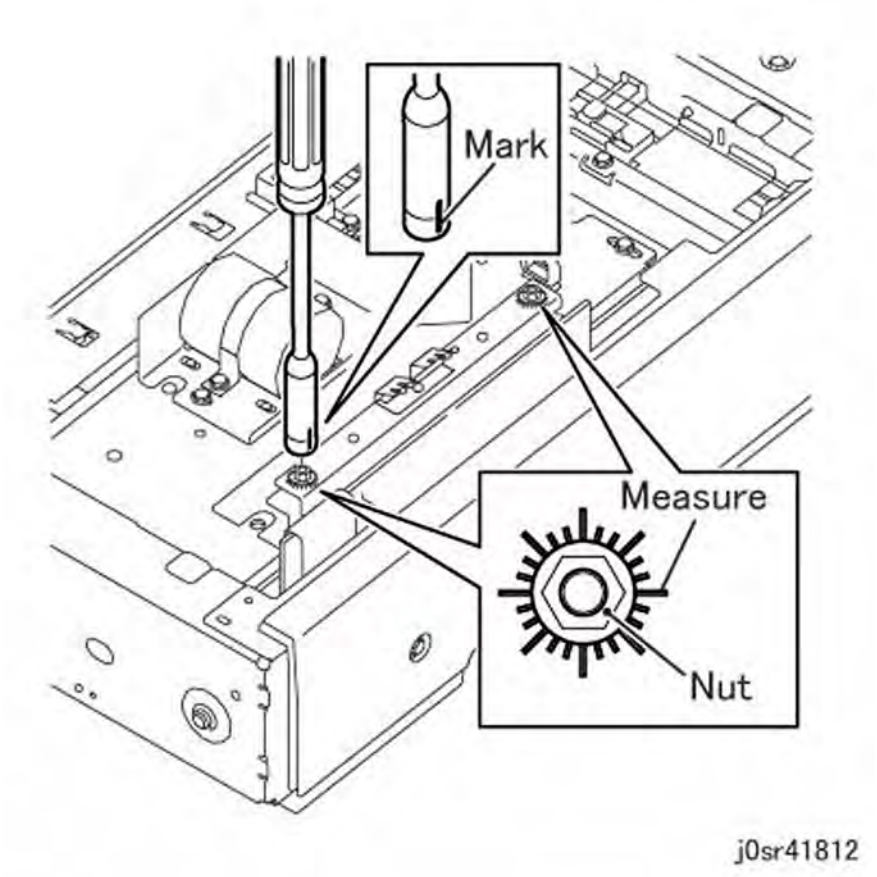


Figure 2 Adjustment

4. Check the results in the **Front NUT Correction Angle** box and the **Rear NUT Correction Angle** box. The values displayed indicate the amount and direction of the correction required:
   - + means rotate clockwise
   - - means rotate counterclockwise
   - The amount of correction is displayed in degrees. Each division around the nut represents 15 degrees (divide the displayed value by 15 to get the number of divisions). If a value higher than 990 is displayed, this may indicate that insufficient light is entering the CCD. Make sure that the Lens and Platen Glass are clean.
5. Make the indicated correction for both the front and rear screws,
6. Reinstall the Lens Cover and the Platen Glass, and then click on the **Start** button.
7. Repeat steps 2 and 3 until **OK** is displayed
8. Adjust the IIT Calibration (ADJ 9.7).

ADJ 9.17 Auto Gradation

Purpose

To perform automatic color correction using internal Calibration Charts.

Adjustment

NOTE: *The customer also can access and perform the Auto Gradation functions by logging on as System Administrator.*

1. Enter the Diagnostic mode.
2. From the Common Settings screen, select **Image Quality Adjustment**.
3. Select **Calibration**.
4. Select the button of the Screen Type to be calibrated, that is, **Copy Job - Text**, **Copy Job - Photo**, **Print Job - Text**, or **Print Job - Photo**.
5. Press the **Target** button and then select the type of jobs to be calibrated, that is, **Copy & Print Jobs**, **Copy Jobs Only**, or **Print Jobs Only**.
6. **WC 72XX only:** Load A4 paper in the Tray 5 (Bypass). Press **Save**.

   WC73XX only: Select a paper size and type using the **paper supply** button
7. Press **Start**. The auto gradation routine will run and a message will display upon completion.
8. Take the print from the output tray. Follow the instructions on the screen to complete the color correction.

ADJ 9.19 Regi Measuring Cycle

Purpose

To measure the color registration of the four colors and to display the status by indicating OK or NG.

This cycle performs the color registration measurement that includes the detection of AC components to determine the condition of AC control (Drum Drive, Belt Drive, and Belt Steering, etc.), which is one of the color registration components.

- Performs registration measurement to determine the condition of the AC control.
- Checks that the Belt control, etc., is operating normally.
- Measures/displays the amount of color shift relative to Black in the Fast Scan/Slow Scan directions.
- Displays the result of comparing OK/NG (Check or Adjustment) with the target value.

Adjustment

1. Enter the **Diagnostic Mode**.
2. On the Maintenance/Diagnostics screen, select **Registration**.
3. On the Registration screen, select **Regi Measuring Cycle**.
4. Select the **Start** button.

ADJ 9.20 Registration Control Sensor Check Cycle

Purpose

This is a self-diagnostic cycle for checking that the misregistration detection system (MOB Sensor) is operating normally. The color shift amount is detected using a Cyan patch. Any misregistration detected in the MOB sensor is displayed on the screen.

This detection result is compared again with the target value to determine the pass/fail (OK/NG) status. Correction is not performed.

Adjustment

1. Enter the **Diagnostic Mode**.
2. On the Maintenance/Diagnostics screen, select **Registration**.
3. On the Registration screen, select **Registration Control Sensor Check Cycle**.
4. Select the **Start** button.

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 activities with the power switch on or electrical power applied to the machine.

CAUTION

To prevent data loss when the power is turned off, please note the following.

*Press the [Job Status] button and check the **Current and Pending Jobs** tab to ensure that there are no jobs in progress or pending.*

CAUTION

The DADF is heavy component. Take care when lifting the DADF.

***NOTE:** Adjust the positions of the Front and Rear Full/Half Rate Carriages separately.*

1. Remove the DADF Assembly. (REP 15.1.1)
2. (Platen models) Remove the Platen Cover. (Figure 1)
   1. Remove the Platen Cover.

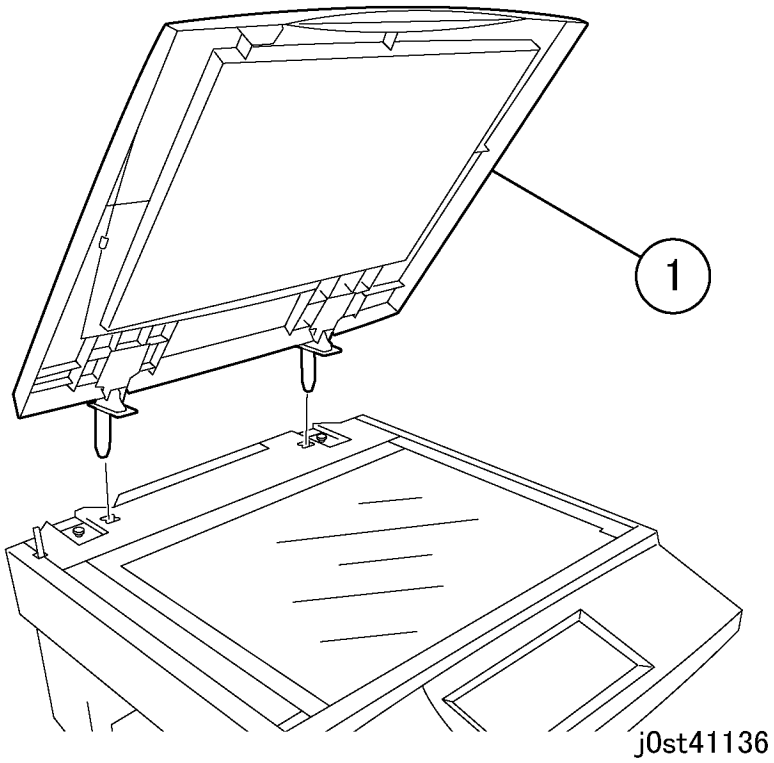


Figure 1 Removing the Platen Cover (j0st41136)

3. Remove the Platen Glass. (REP 11.3.1)
4. Prepare the tools (x2) for setting the positions. (Figure 2)
   1. Remove the Lens Cover (PL 18.4).
   2. Remove the red screws and lift out the tools (x2).

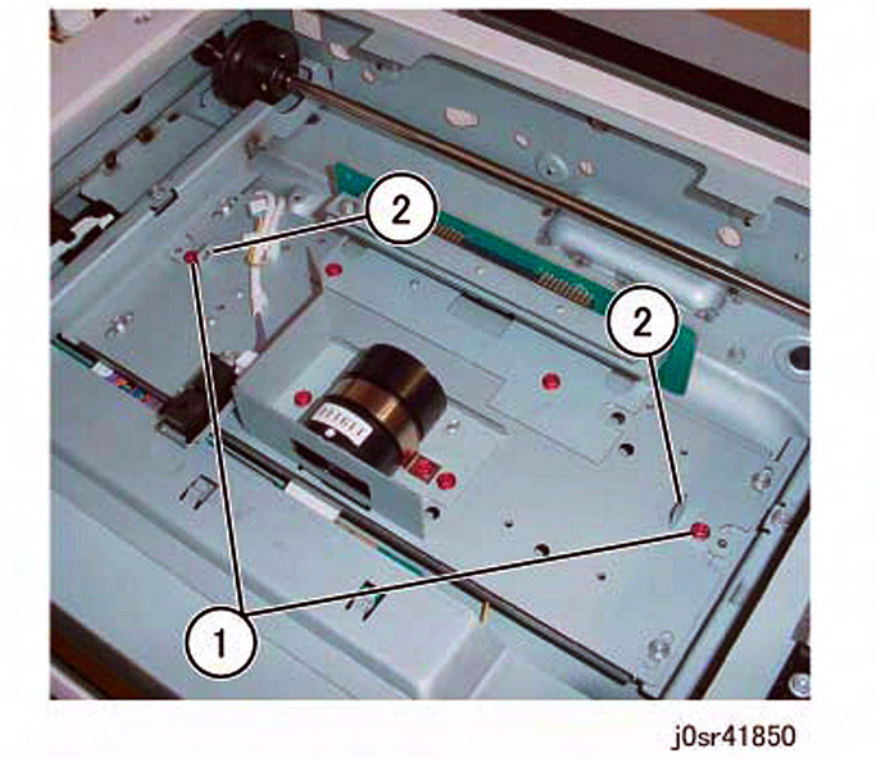


Figure 2 Taking out the tools (j0sr41850)

5. Align the tool hole in the Half Rate Carriage with the tool hole of the rail (Front/Rear). (Figure 3)

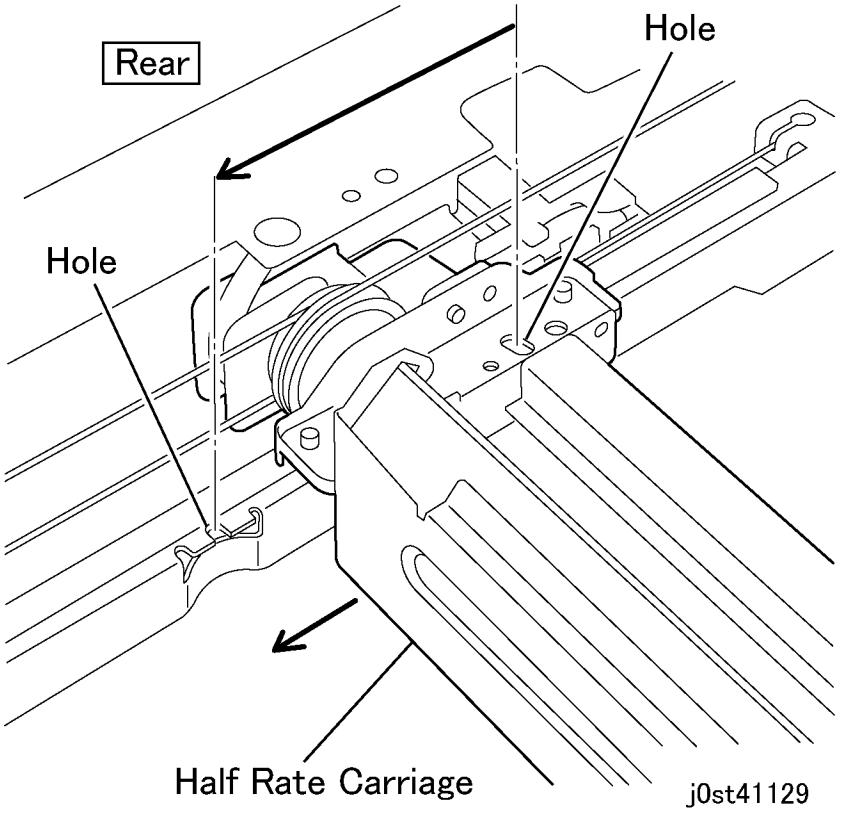


Figure 3 Position Adjustment of Half Rate Carriage 1/3 (j0st41129)

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.

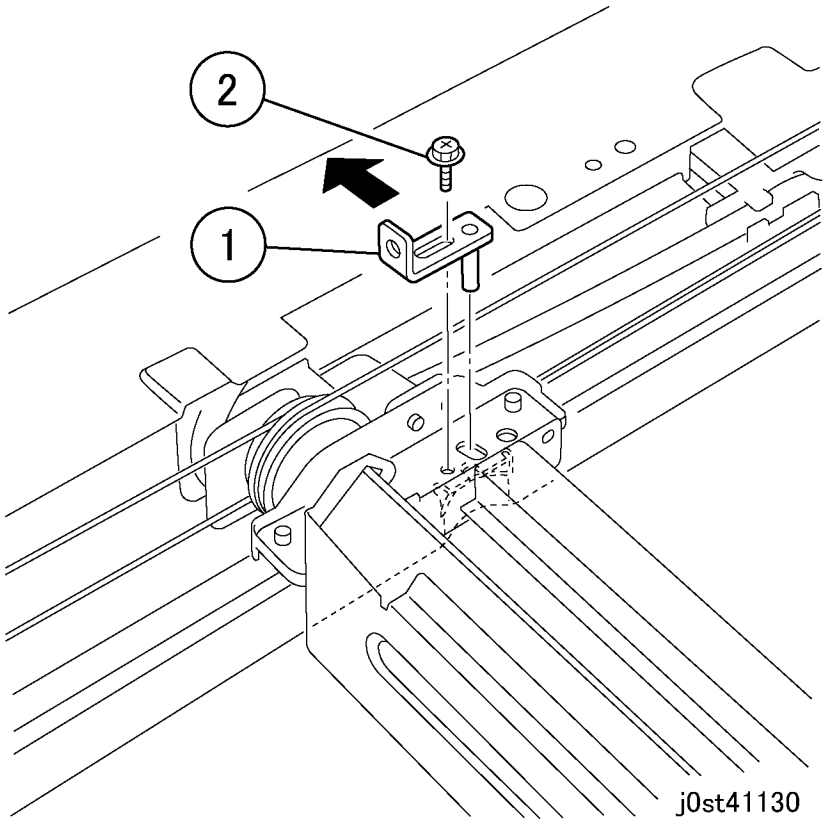


Figure 4 Position Adjustment of Half Rate Carriage 2/3 (j0st41130)

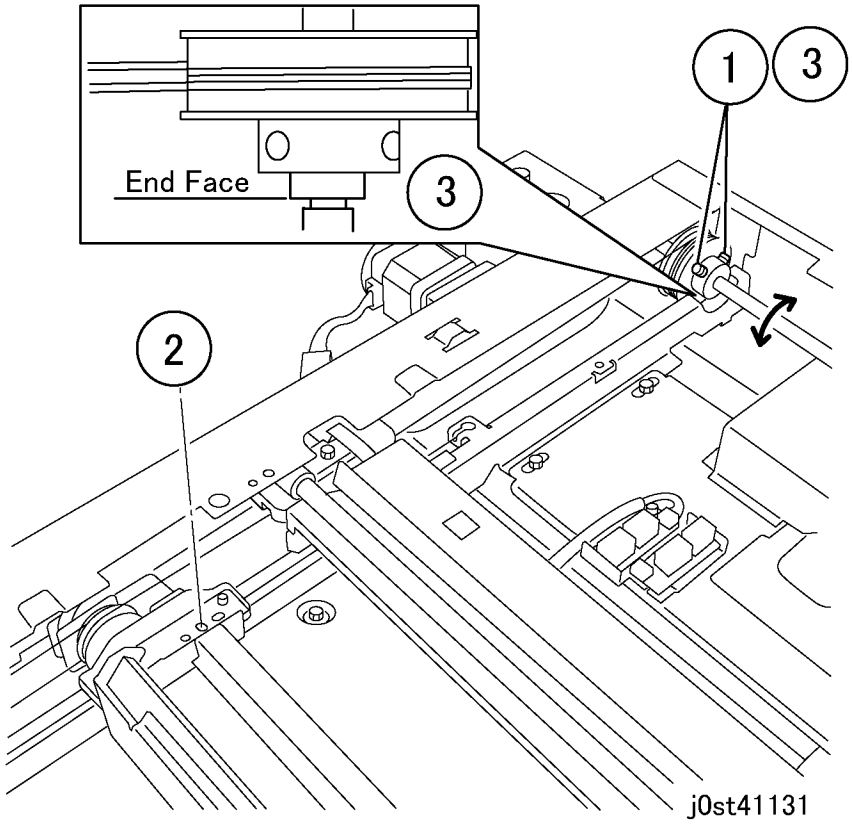


Figure 5 Position Adjustment of Half Rate Carriage 3/3 (j0st41131)

NOTE: *The position of the pulley can be changed if the tool holes in the Half Rate Carriage and the rail do not align and the tool cannot be inserted correctly. (Figure 5)*

1. Loosen the screws (x2).
2. Turn the Pulley until the tool holes align.
3. Align the shaft concave with the Pulley end face and tighten the screws (x2).

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, do so with the rear tool for Half Rate Carriage installed.*

1. Fix the tool.
2. Secure it with a screw.

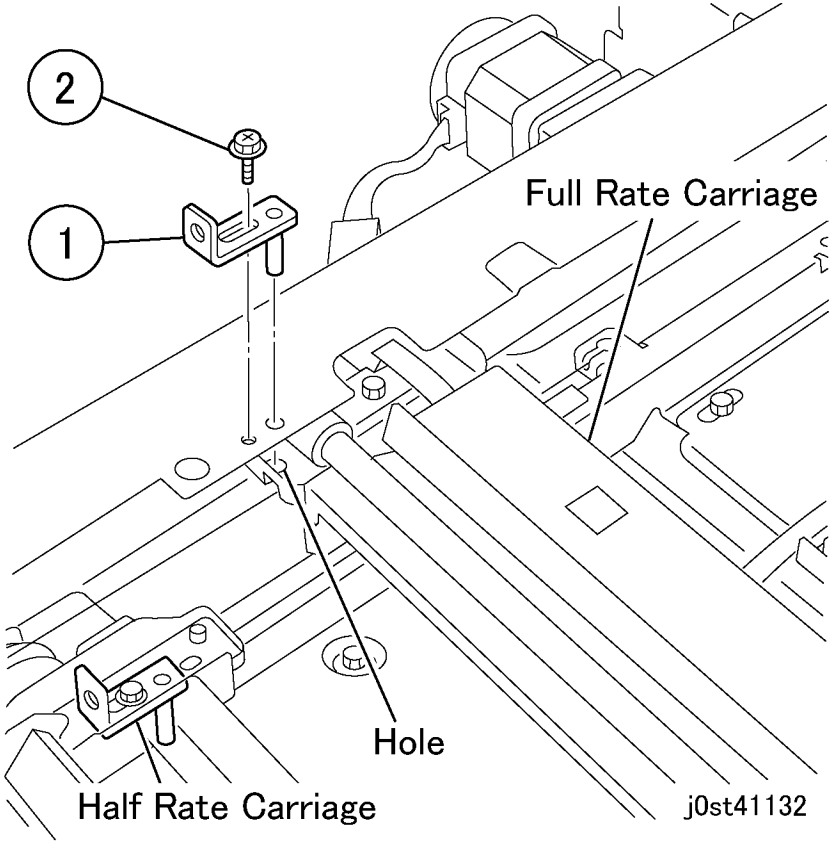


Figure 6 Position Adjustment of Full Rate Carriage 1/2 (j0st41132)

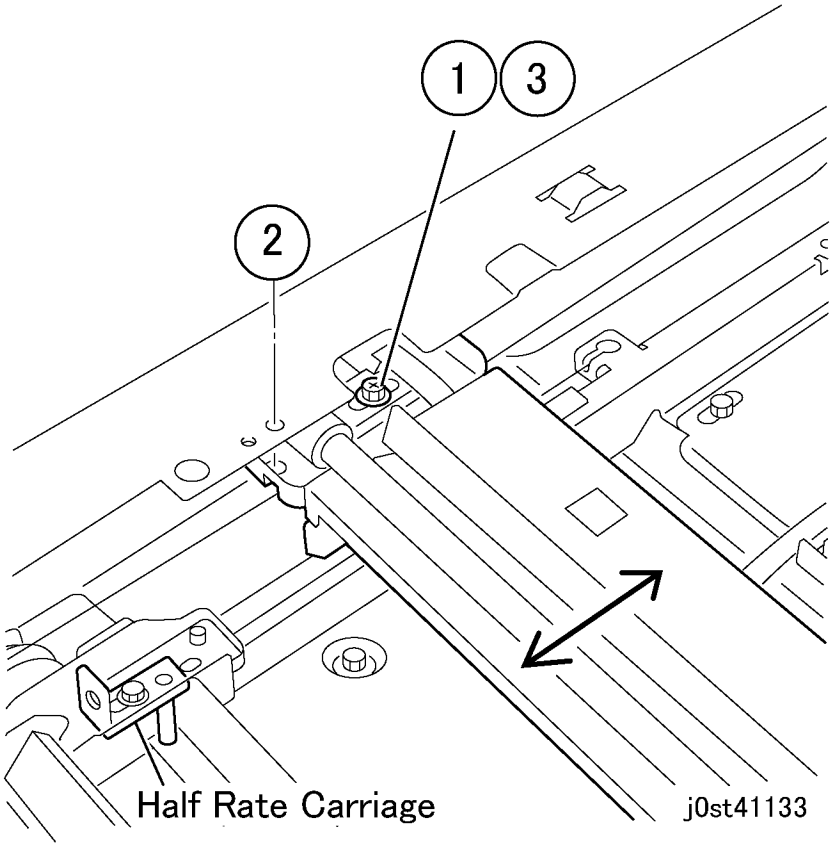


Figure 7 Position Adjustment of Full Rate Carriage 2/2 (j0st41133)

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.
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.
9. Remove the tools and reinstall them in the original locations.
10. Install the Lens Cover (PL 18.4), the Platen Glass, and the Platen Cover or DADF.

ADJ 12.1 Office Finisher Alignment

Purpose

Align IOT copy output with entrance to Finisher H Transport.

Adjustment

WARNING

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

1. Ensure H Transport is set correctly (Figure 1) and (Figure 2).

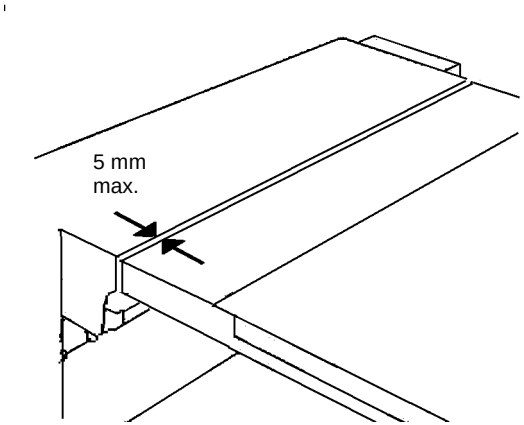


Figure 1 H Transport Clearance

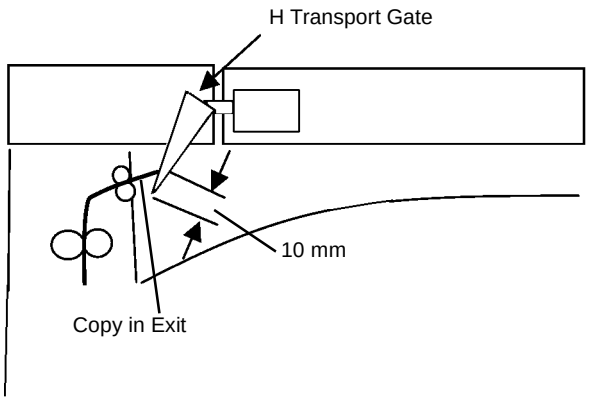


Figure 2 H Transport Gate Clearance

ADJ 12.2 A/P Finisher Leveling

Purpose

The Finisher level should be checked if the machine has been moved to a new location or if the machine is having Booklet Quality issues or entrance jams.

Adjustment

WARNING

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

1. Verify that the Finisher is properly latched and secured to the IOT (Figure 1).

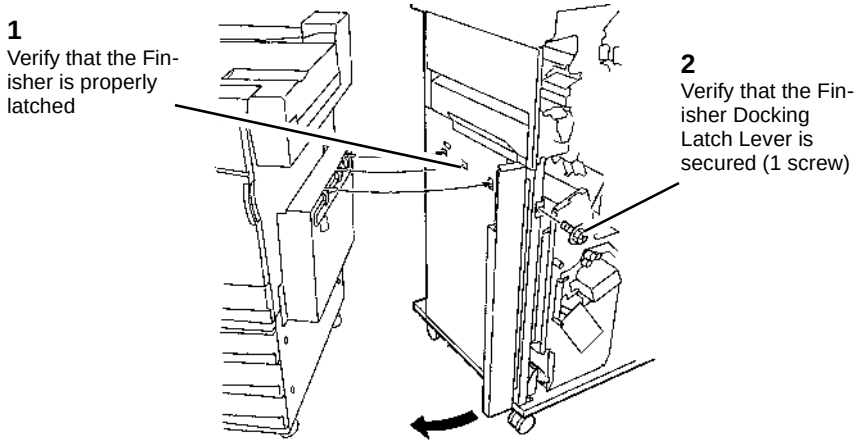
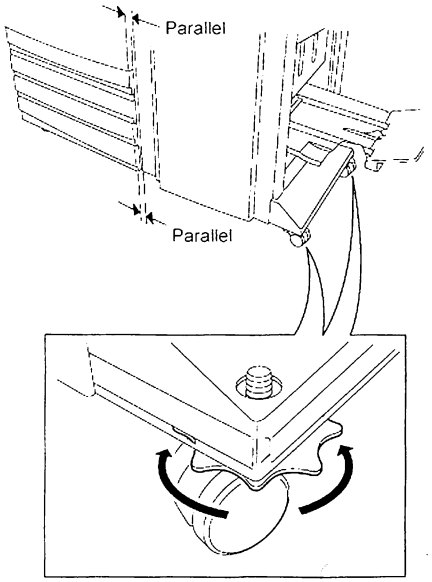


Figure 1 Securing Finisher to the IOT

2. Adjust the Finisher Level so that it is parallel with the IOT (Figure 2).



Turn the casters CW to tilt the Finisher against the IOT and CCW to tilt the Finisher away from the IOT.

Figure 2 Leveling the Finisher

3. When Finisher is parallel to the IOT, verify that the H-Transport does not interfere with the Finisher Entrance Gate.

ADJ 12.4 (Professional) Booklet Fold Skew

Purpose

To adjust the Booklet Maker so that the fold is square.

Check

WARNING

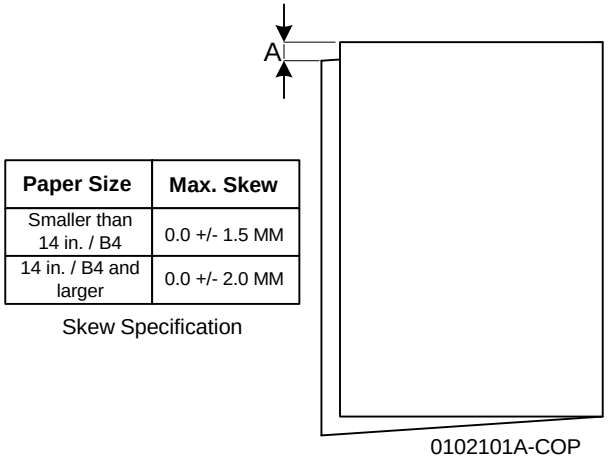
To avoid personal injury or shock, do not perform repair or adjustment activities with the power switch on or electrical power applied to the machine.

1. Set machine up according to instructions in Table 1 and run a set of each Booklet job. Label each booklet.

Table 1 Booklet Jobs

Job	Select Paper Supply	Select Booklet Creation Mode	Originals in DADF	Booklet Size
1	8.5 x 11 / A4 SEF	Booklet Layout, 2 sided originals / Booklet Fold Only	6 sheets of 8.5 x 11 / A4 LEF	3 sheet
2	11 x 17 / A3 SEF	Booklet Layout, 2 sided originals / Booklet Fold Only	6 sheets of 8.5 x 11 / A4 LEF	3 sheet

2. Measure the skew (A) on all sheets of paper and verify against the Skew Specification table in Figure 1.



Paper Size	Max. Skew
Smaller than 14 in. / B4	0.0 +/- 1.5 MM
14 in. / B4 and larger	0.0 +/- 2.0 MM

Skew Specification

Figure 1 Skew Specification

3. If the fold is within specification on all sheets, go to ADJ 12.5 Booklet Fold Position. If any of the sheets are out of specification, go to the adjustment.

Adjustment

1. Determine the type of Fold Skew:

a. Set machine up according to instructions in Table 2.

Table 2 Booklet Jobs

Job	Select Paper Supply	Select Booklet Creation Mode	Originals in DADF	Booklet Size
1	11 x 17 / A3 SEF	Booklet Layout, 2 sided originals / Booklet Fold Only	6 sheets of 8.5 x 11 / A4 LEF	3 sheet

b. Observe the booklet as it comes out on to the Booklet Tray (Figure 2) and determine the type of skew.

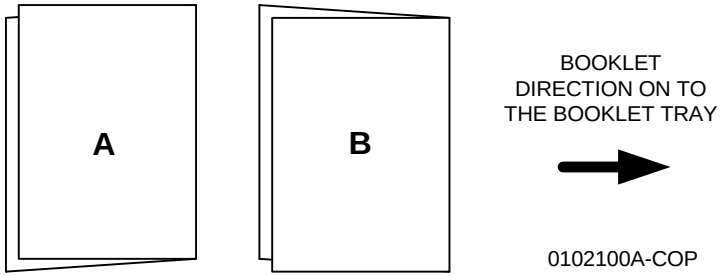
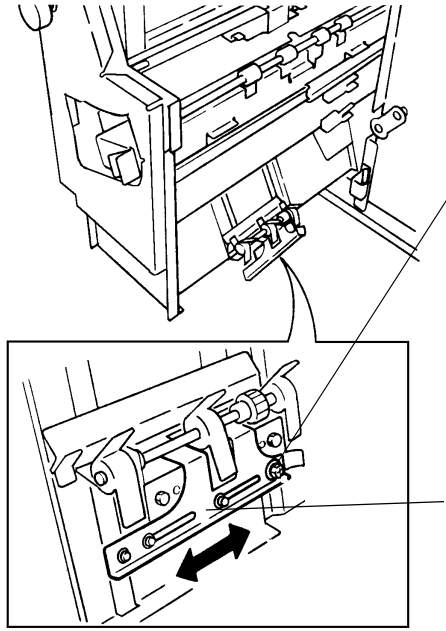


Figure 2 Type of skew

2. Adjust the Booklet skew (Figure 3).

1
Open the Front Door and slide out the Booklet Maker



2
Loosen screw

3
For A-type skew, move the End Guide to the Left. For B-type skew, move the End Guide to the Right.

Figure 3 Adjusting the Fold Skew

3. Set machine up according to instructions in Table 2 and run a sample job. Repeat steps 1 - 2 until the Fold Skew setup meets specification or customer request.
4. After adjustment is done, go to ADJ 12.5 Booklet Fold Position.

ADJ 12.5 (Professional) Booklet Fold Position

Purpose

The purpose with this adjustment is to set up the Booklet Maker so that the fold is in the center of the booklet. Several setups are needed depending on paper size, set size, unstapled or stapled sets.

Check

1. Ensure that the trays used are correctly programmed.
2. Ensure that the Fold Skew is within specification (ADJ 12.4).
3. Set machine up according to instructions in Table 1 and run 1 set of each Booklet job. Label each booklet.

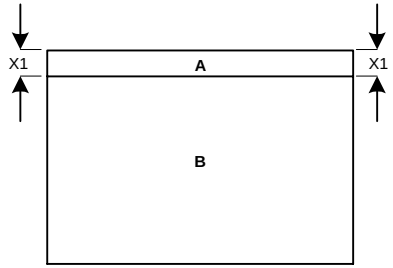
Table 1 Booklet Jobs

Job	Select Paper Supply	Select Booklet Creation Mode	Originals in DADF	Output Booklet Size
1	11 x 17 / A3 SEF	Booklet Layout, 2 sided originals / Booklet Fold Only	2 sheets of 8.5 x 11 / A4 LEF	1 sheet
2	8.5 x 11 / A4 SEF	Booklet Layout, 2 sided originals / Booklet Fold Only	2 sheets of 8.5 x 11 / A4 LEF	1 sheet
3	11 x 17 / A3 SEF	Booklet Layout, 2 sided originals / Booklet Fold Only	4 sheets of 8.5 x 11 / A4 LEF	2 sheets
4	11 x 17 / A3 SEF	Booklet Layout, 2 sided originals / Booklet Fold Only	10 sheets of 8.5 x 11 / A4 LEF	5 sheets
5	11 x 17 / A3 SEF	Booklet Layout, 2 sided originals / Booklet Fold and Staple	4 sheets of 8.5 x 11 / A4 LEF	2 sheets
6	8.5 x 11 / A4 SEF	Booklet Layout, 2 sided originals / Booklet Fold and Staple	4 sheets of 8.5 x 11 / A4 LEF	2 sheets

4. Measure X1 and verify Fold Position on each job against the Fold Specification table in Figure 1.

Paper Size	X1
Smaller than 14 in. / B4	0.0 +/- 1.5 MM
14 in. / B4 and larger	0.0 +/- 2.0 MM

Fold Position Specification



Note: *Example showing A-side longer than B-side*

NOTE: TO DETERMINE WHICH SIDE IS "A" AND WHICH SIDE IS "B", OPEN THE BOOKLET AS IT COMES OUT ON THE BOOKLET TRAY. THE "A"-SIDE IS TO THE LEFT AND THE "B"-SIDE IS TO THE RIGHT.

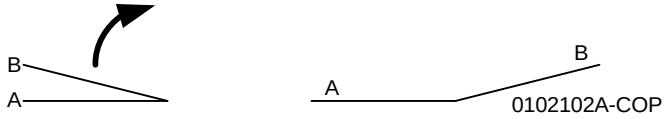


Figure 1 Fold Specification

5. If the fold is within specification on each job, go to the Booklet Staple Position (Staple on Fold) (ADJ 12.6). If any of the booklets are out of specification, go to the Adjustment procedure.

Adjustment

1. Enter NVM Read/Write.
2. Perform adjustment using the NVM locations in Table 2.

NOTE: *If the "A"-side is longer than the "B"-side, the current NVM value should be increased. If the "B"-side is longer than the "A"-side, the current NVM value should be decreased.*

Table 2 NVM locations

Job #	NVM	Default	Range	Remark
1	763-106	0	0 ~ 1	1 count = 0.1 mm. Target amount to be adjusted is half the amount of the total Fold Misalignment.
2	763-107	100	0 ~ 200	1 count = 0.1 mm. Target amount to be adjusted is half the amount of the total Fold Misalignment.
3	763-133	100	0 ~ 200	1 count = 0.1 mm. Target amount to be adjusted is half the amount of the total Fold Misalignment.
4	763-134	100	0 ~ 200	1 count = 0.1 mm. Target amount to be adjusted is half the amount of the total Fold Misalignment.
5	763-108	100	0 ~ 200	1 count = 0.1 mm. Target amount to be adjusted is half the amount of the total Fold Misalignment.
6	763-109	100	0 ~ 200	1 count = 0.1 mm. Target amount to be adjusted is half the amount of the total Fold Misalignment.

3. Set up and run the job/s that were subject to adjustment (Table 1).
4. Check output against specifications in Figure 1. Repeat steps 4 - 8 until the Fold Position meets specification or customer request.
5. After adjustment is done, go to ADJ 12.6 Booklet Staple Position (Staple on Fold).

ADJ 12.6 (Professional) Booklet Staple Position (Staple on Fold)

Purpose

To set up the machine so that the Staples are within specification on the folded booklet.

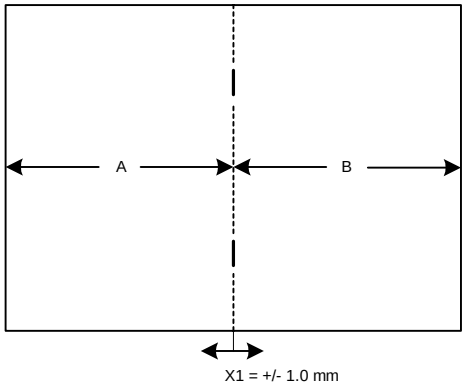
Check

1. Ensure that the trays used are correctly programmed.
2. Ensure that the Fold Skew is within specification (ADJ 12.4).
3. Ensure that the Fold Position is within specification (ADJ 12.5).
4. Set machine up according to instructions in Table 1 and run 1 set of each Booklet job. Label each booklet.

Table 1 Booklet Jobs

Job	Select Paper Supply	Select Booklet Creation Mode	Originals in DADF	Output Booklet Size
1	11 x 17 / A3 SEF	Booklet Layout, 2 sided originals / Booklet Fold and Staple	4 sheets of 8.5 x 11 / A4 LEF	2 sheets
2	8.5 x 11 / A4 SEF	Booklet Layout, 2 sided originals / Booklet Fold and Staple	4 sheets of 8.5 x 11 / A4 LEF	2 sheets

5. Measure A and B on both Booklet jobs and verify X1 against specification in Figure 1.



NOTE: TO DETERMINE WHICH SIDE IS "A" AND WHICH SIDE IS "B", OPEN THE BOOKLET AS IT COMES OUT ON THE BOOKLET TRAY. THE "A"-SIDE IS TO THE LEFT AND THE "B"-SIDE IS TO THE RIGHT.

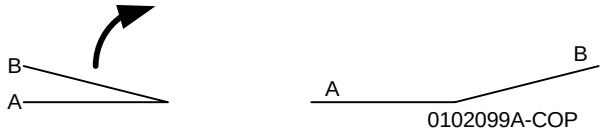


Figure 1 Staple Position

6. If X1 is within specification, go to the Booklet Staple Alignment (ADJ 12.7). If X1 is out of specification, go to the Adjustment procedure.

Adjustment

1. Enter NVM Read/Write.
2. Perform the X1 adjustment using the NVM locations in Table 2.

   NOTE: *If the "A"-side is longer than the "B"-side, the current NVM value should be decreased. If the "B"-side is longer than the "A"-side, the current NVM value should be increased.*

Table 2 NVM locations

Job #	NVM	Default	Range	Remark
1	763-110	100	0 ~ 200	1 count = 0.1 mm. Target amount to be adjusted is half the amount of the total Fold Misalignment.
2	763-111	100	0 ~ 200	1 count = 0.1 mm. Target amount to be adjusted is half the amount of the total Fold Misalignment.

3. Set up and run the job/s that were subject to adjustment (Table 1).
4. Check output against specifications in Figure 1. Repeat steps 4 - 8 until the Staple Position meets specification or customer request.
5. After adjustment is done, go to ADJ 12.9 Booklet Fold Position (Fine Adjustment).

ADJ 12.7 (Professional) Booklet Staple Alignment

Purpose

To center the Staple Position on the fold in the SE direction.

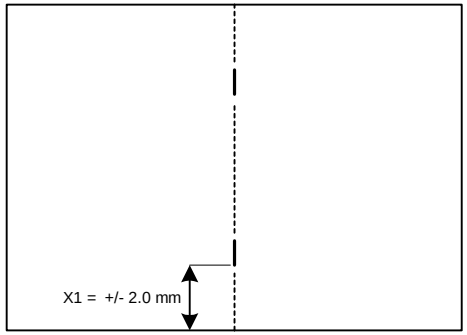
Check

1. Ensure that the trays used are correctly programmed.
2. Ensure that the Fold Skew is within specification (ADJ 12.4).
3. Ensure that the Fold Position is within specification (ADJ 12.5).
4. Ensure that the Staple Position is within specification (ADJ 12.6).
5. Set machine up according to instructions in Table 1 and run the Booklet job.

Table 1 Booklet Jobs

Select Paper Supply	Select Booklet Creation Mode	Originals in DADF	Output Booklet Size
11 x 17 / A3 SEF	Booklet Layout, 2 sided originals / Booklet Fold and Staple	4 sheets of 8.5 x 11 / A4 LEF	2 sheets

6. Measure X1 and verify against specification in Figure 1.



PAPER SIZE / ORIENTATION	X1
8.5 X 11 / SEF	42.5 mm
8.5 X 13 / SEF	42.5 mm
8.5 X 14 / SEF	42.5 mm
11 X 17 / SEF	74.2 mm
8 K / SEF	68 mm
A4 / SEF	39.5 mm
A3 / SEF	83 mm
B4 / SEF	63 mm

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Figure 1 Staple Specification

7. If X1 is out of specification, go to the Adjustment procedure.

Adjustment

1. Enter NVM Read/Write.
2. Perform the X1 adjustment using the NVM locations in Table 2.

NOTE: *To increase X1, the current NVM value should be decreased. To decrease X1, the current NVM value should be increased.*

Table 2 NVM location

Job #	NVM	Default	Range	Remark
1	763-115	30	0 ~ 50	1 count = 0.26 mm.

3. Set up and run the job that were subject to adjustment (Table 1).
4. Check output against specifications in Figure 1. Repeat steps 4 - 8 until the Staple Alignment meets specification or customer request.

ADJ 12.8 (Professional) Finisher Booklet Wrinkle

Purpose

To prevent the Booklet Cover from getting wrinkled.

Check

WARNING

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

- Verify that the customer is not running jobs that are out of specification.
- Check Fold Rollers for wear or contamination.

Adjustment

1. Remove the Booklet Maker Unit (REP 12.55).
2. Remove KL-clip (Figure 1).

Figure 1 Removing the KL-clip

3. Remove the Booklet Maker Front Cover (Figure 2).

Figure 2 Removing the Booklet Maker Front Cover

4. Adjust the front Spring tension (Figure 3).

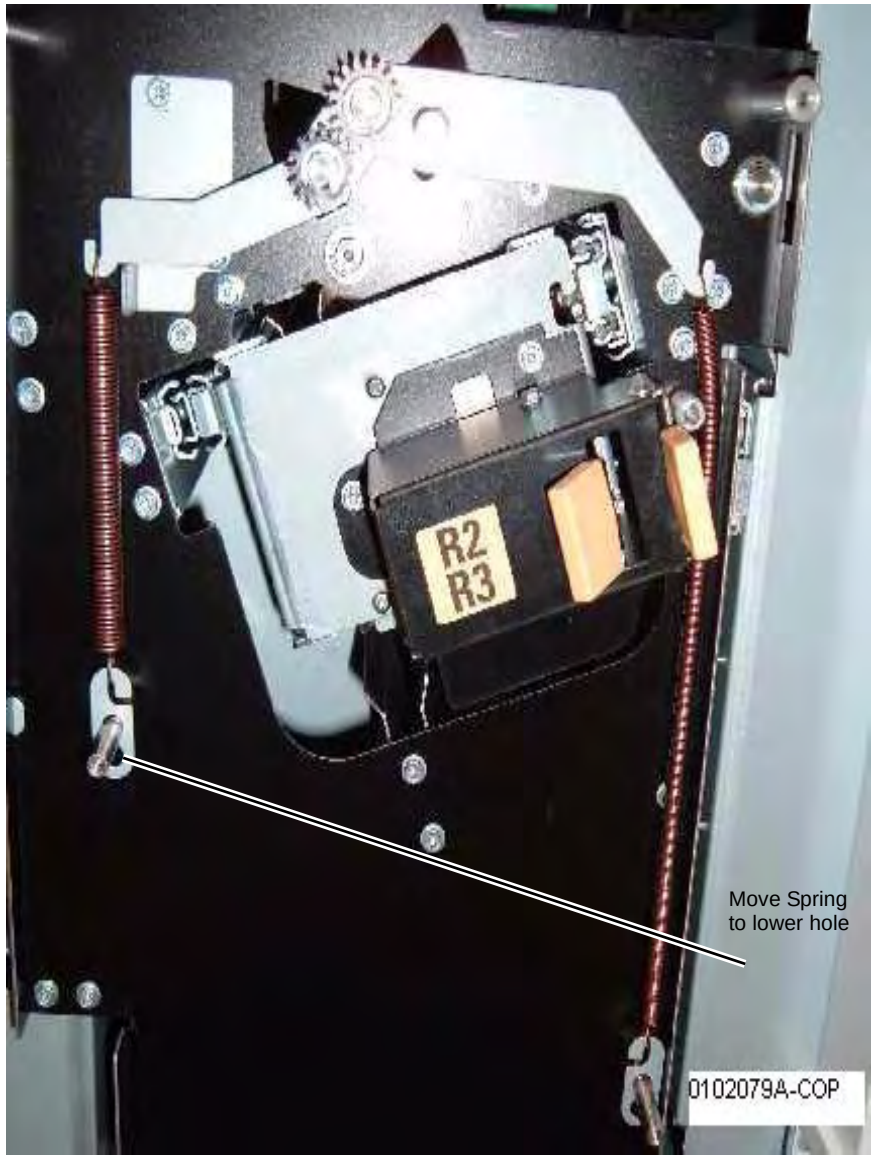


Figure 3 Adjust the front Spring tension

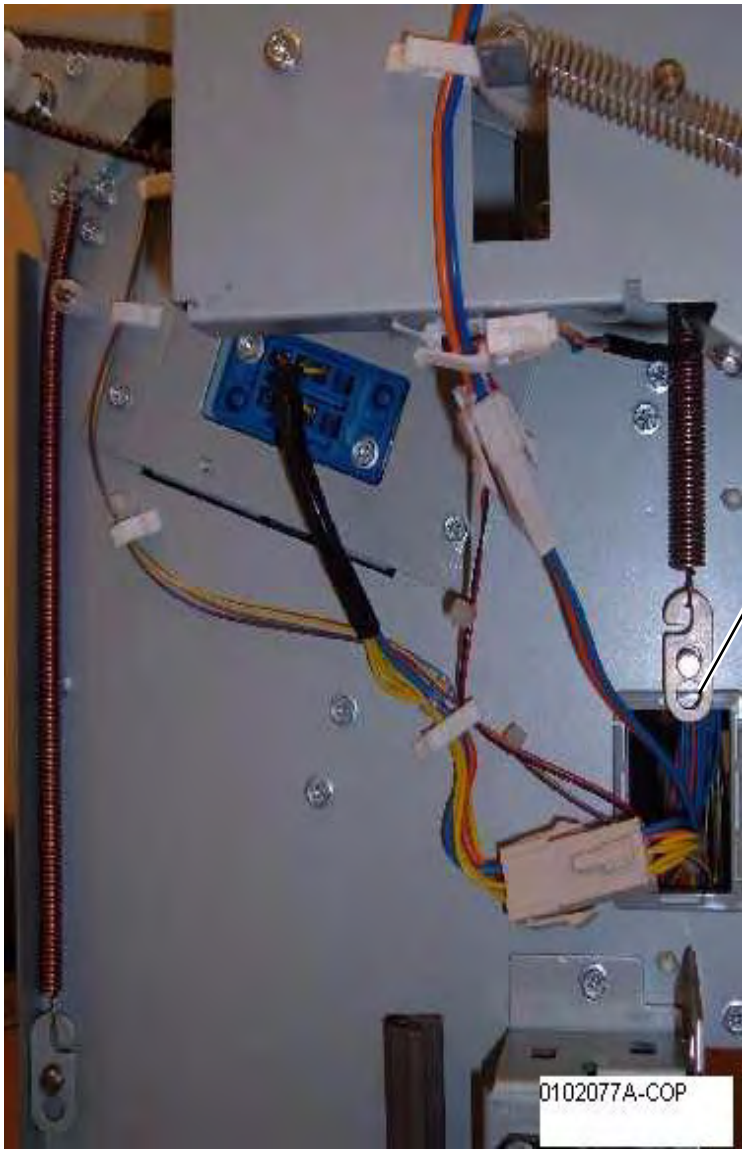


Figure 4 Adjusting the rear Spring tension

5. Adjust the rear Spring tension (Figure 4).

ADJ 12.9 (Professional) Booklet Fold Position (Fine Adjustment)

Purpose

The purpose with this adjustment is to set up the Booklet Maker so that the fold is in the center of the booklet. Several setups are needed depending on paper size, set size, unstapled or stapled sets.

Check

1. Ensure that the trays used are correctly programmed.
2. Ensure that the Fold Skew is within specification (ADJ 12.4).
3. Ensure that the Fold Position is within specification (ADJ 12.5).
4. Ensure that the Staple Position is within specification (ADJ 12.6).
5. Set machine up according to instructions in Table 1 and run 1 set of each job. Label each booklet.

Table 1 Fine Adjustment

Job	Select Paper Supply	Select Booklet Creation Mode	Originals in DADF	Output Booklet Size
1	8.5 x 11 / A4 SEF	Booklet Layout, 2 sided originals / Booklet Fold and Staple	6 sheets of 8.5 x 11 / A4 LEF	3 sheets
2	8.5 x 11 / A4 SEF	Booklet Layout, 2 sided originals / Booklet Fold and Staple	8 sheets of 8.5 x 11 / A4 LEF	4 sheets
3	8.5 x 11 / A4 SEF	Booklet Layout, 2 sided originals / Booklet Fold and Staple	10 sheets of 8.5 x 11 / A4 LEF	5 - 7 sheets (setup is for 5 - 7 sheets)
4	8.5 x 11 / A4 SEF	Booklet Layout, 2 sided originals / Booklet Fold and Staple	16 sheets of 8.5 x 11 / A4 LEF	8 - 14 sheets (setup is for 8 - 14 sheets)
5	11 x 17 / A3 SEF	Booklet Layout, 2 sided originals / Booklet Fold and Staple	6 sheets of 8.5 x 11 / A4 LEF	3 sheets
6	11 x 17 / A3 SEF	Booklet Layout, 2 sided originals / Booklet Fold and Staple	8 sheets of 8.5 x 11 / A4 LEF	4 sheets
7	11 x 17 / A3 SEF	Booklet Layout, 2 sided originals / Booklet Fold and Staple	10 sheets of 8.5 x 11 / A4 LEF	5 - 7 sheets (setup is for 5 - 7 sheets)
8	11 x 17 / A3 SEF	Booklet Layout, 2 sided originals / Booklet Fold and Staple	16 sheets of 8.5 x 11 / A4 LEF	8 - 14 sheets (setup is for 8 - 14 sheets)
9	11 x 17 / A3 SEF	Booklet Layout, 2 sided originals / Booklet Fold and Staple	30 sheets of 8.5 x 11 / A4 LEF	15 sheets

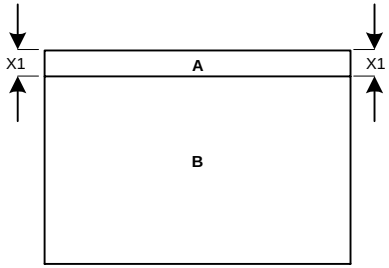
Table 1 Fine Adjustment

Job	Select Paper Supply	Select Booklet Creation Mode	Originals in DADF	Output Booklet Size
10	8.5 x 11 / A4 SEF	Booklet Layout, 2 sided originals / Booklet Fold and Staple	30 sheets of 8.5 x 11 / A4 LEF	15 sheets

6. Measure X1 and verify Fold Position on each job against the Fold Specification table in Figure 1.

Paper Size	X1
Smaller than 14 in. / B4	0.0 +/- 1.5 MM
14 in. / B4 and larger	0.0 +/- 2.0 MM

Fold Position Specification



Note: *Example showing A-side longer than B-side*

NOTE: TO DETERMINE WHICH SIDE IS "A" AND WHICH SIDE IS "B", OPEN THE BOOKLET AS IT COMES OUT ON THE BOOKLET TRAY. THE "A"-SIDE IS TO THE LEFT AND THE "B"-SIDE IS TO THE RIGHT.

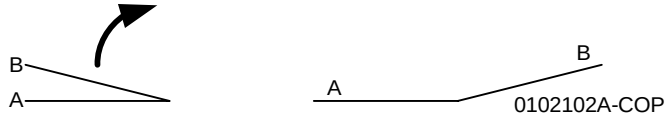


Figure 1 Fold Specification

7. If the fold is within specification on each job, go to the Booklet Staple Position (Staple on Fold Fine Adjustment) (ADJ 12.10). If any of the booklets are out of specification, go to the Adjustment procedure.

Adjustment

1. Enter NVM Read/Write.
2. Perform adjustment using the NVM locations in Table 2.

NOTE: *If the "A"-side is longer than the "B"-side, the current NVM value should be increased. If the "B"-side is longer than the "A"-side, the current NVM value should be decreased.*

Table 2 Fine Adjustment NVM locations

Job #	NVM	Default	Range	Remark
1	763-141	100	0 ~ 200	1 count = 0.1 mm. Target amount to be adjusted is half the amount of the total Fold Misalignment.
2	763-142	100	0 ~ 200	1 count = 0.1 mm. Target amount to be adjusted is half the amount of the total Fold Misalignment.
3	763-143	100	0 ~ 200	1 count = 0.1 mm. Target amount to be adjusted is half the amount of the total Fold Misalignment.
4	763-144	100	0 ~ 200	1 count = 0.1 mm. Target amount to be adjusted is half the amount of the total Fold Misalignment.
5	763-152	100	0 ~ 200	1 count = 0.1 mm. Target amount to be adjusted is half the amount of the total Fold Misalignment.
6	763-153	100	0 ~ 200	1 count = 0.1 mm. Target amount to be adjusted is half the amount of the total Fold Misalignment.
7	763-154	100	0 ~ 200	1 count = 0.1 mm. Target amount to be adjusted is half the amount of the total Fold Misalignment.
8	763-155	100	0 ~ 200	1 count = 0.1 mm. Target amount to be adjusted is half the amount of the total Fold Misalignment.
9	763-145	100	0 ~ 200	1 count = 0.1 mm. Target amount to be adjusted is half the amount of the total Fold Misalignment.
10	763-146	100	0 ~ 200	1 count = 0.1 mm. Target amount to be adjusted is half the amount of the total Fold Misalignment.

3. Set up and run the job/s that were subject to adjustment (Table 1).
4. Check output against specifications in Figure 1. Repeat steps 4 - 8 until the Fold Position meets specification or customer request.
5. After adjustment is done, go to ADJ 12.10 Booklet Staple Position (Staple on Fold Fine Adjustment.

ADJ 12.10 (Professional) Booklet Staple Position (Staple on Fold Fine Adjustment)

Purpose

To set up the machine so that the Staples are within specification on the folded booklet.

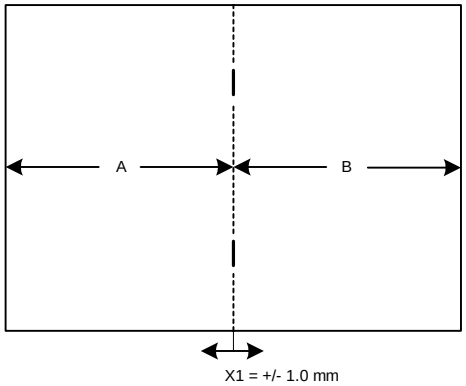
Check

1. Ensure that the trays used are correctly programmed.
2. Ensure that the Fold Skew is within specification (ADJ 12.4).
3. Ensure that the Fold Position is within specification (ADJ 12.5).
4. Ensure that the Staple Position (Staple on Fold) is within specification (ADJ 12.6).
5. Ensure that the Fold Position (Fine Adjust) is within specification (ADJ 12.9).
6. Set machine up according to instructions in Table 1 and run 1 set of each Booklet job. Label each booklet.

Table 1 Booklet Jobs

Job	Select Paper Supply	Select Booklet Creation Mode	Originals in DADF	Output Booklet Size
1	8.5 x 11 / A4 SEF	Booklet Layout, 2 sided originals / Booklet Fold and Staple	6 sheets of 8.5 x 11 / A4 LEF	3 sheets
2	8.5 x 11 / A4 SEF	Booklet Layout, 2 sided originals / Booklet Fold and Staple	8 sheets of 8.5 x 11 / A4 LEF	4 sheets
3	8.5 x 11 / A4 SEF	Booklet Layout, 2 sided originals / Booklet Fold and Staple	10 sheets of 8.5 x 11 / A4 LEF	5 sheets (setup is for 5 - 7 sheets)
4	8.5 x 11 / A4 SEF	Booklet Layout, 2 sided originals / Booklet Fold and Staple	16 sheets of 8.5 x 11 / A4 LEF	8 sheets (setup is for 8 - 14 sheets)

7. Measure A and B on both Booklet jobs and verify X1 against specification in Figure 1.



NOTE: TO DETERMINE WHICH SIDE IS "A" AND WHICH SIDE IS "B", OPEN THE BOOKLET AS IT COMES OUT ON THE BOOKLET TRAY. THE "A"-SIDE IS TO THE LEFT AND THE "B"-SIDE IS TO THE RIGHT.

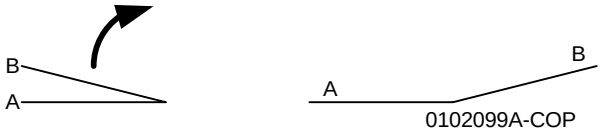


Figure 1 Staple Position

8. If X1 is within specification, the complete Booklet Maker setup is done. If X1 is out of specification, go to the Adjustment procedure.

Adjustment

1. Enter NVM Read/Write.
2. Perform adjustment using the NVM locations in Table 2.

   NOTE: *If the "A"-side is longer than the "B"-side, the current NVM value should be increased. If the "B"-side is longer than the "A"-side, the current NVM value should be decreased.*

Table 2 NVM locations

Job #	NVM	Default	Range	Remark
1	763-147	100	0 ~ 200	1 count = 0.1 mm. Target amount to be adjusted is half the amount of the total Fold Misalignment.
2	763-148	100	0 ~ 200	1 count = 0.1 mm. Target amount to be adjusted is half the amount of the total Fold Misalignment.
3	763-149	100	0 ~ 200	1 count = 0.1 mm. Target amount to be adjusted is half the amount of the total Fold Misalignment.
4	763-150	100	0 ~ 200	1 count = 0.1 mm. Target amount to be adjusted is half the amount of the total Fold Misalignment.

3. Set up and run the job/s that were subject to adjustment (Table 1).
4. Check output against specifications in Figure 1. Repeat steps 4 - 8 until the Staple Position meets specification or customer request.

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 Registration Series (ADJ 9.9)*
- *IIT Lead Edge Registration Adjustment (ADJ 9.10)*
- *IIT Side Edge Registration Adjustment (ADJ 9.11)*
- *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 the DADF Test Pattern, (see Table 1 Product Tools and Test Patterns) on the DADF with the scan side as Side 1. Make copies using the following settings.

   - A3 SEF or 11x17”
   - 100%
   - 1->1 Sided
   - 5 copies

2. Side 2 (Side 2 of 2 Sided):

   Place DADF Test Pattern (see Table 1 Product Tools and Test Patterns) on the DADF with the scan side as Side 2. Make copies using the following settings.

   - A3 SEF or 11x17”
   - 100%
   - 2->2 Sided
   - 5 copies

3. Fold the third copy in half. Measure the distance (**A** in Figure 1) between the folding line and the center line. The distance should be within ±2.9mm for simplex, and within ±3.2mmfor duplex. If the measurement is not within specification, perform the **Adjustment**.

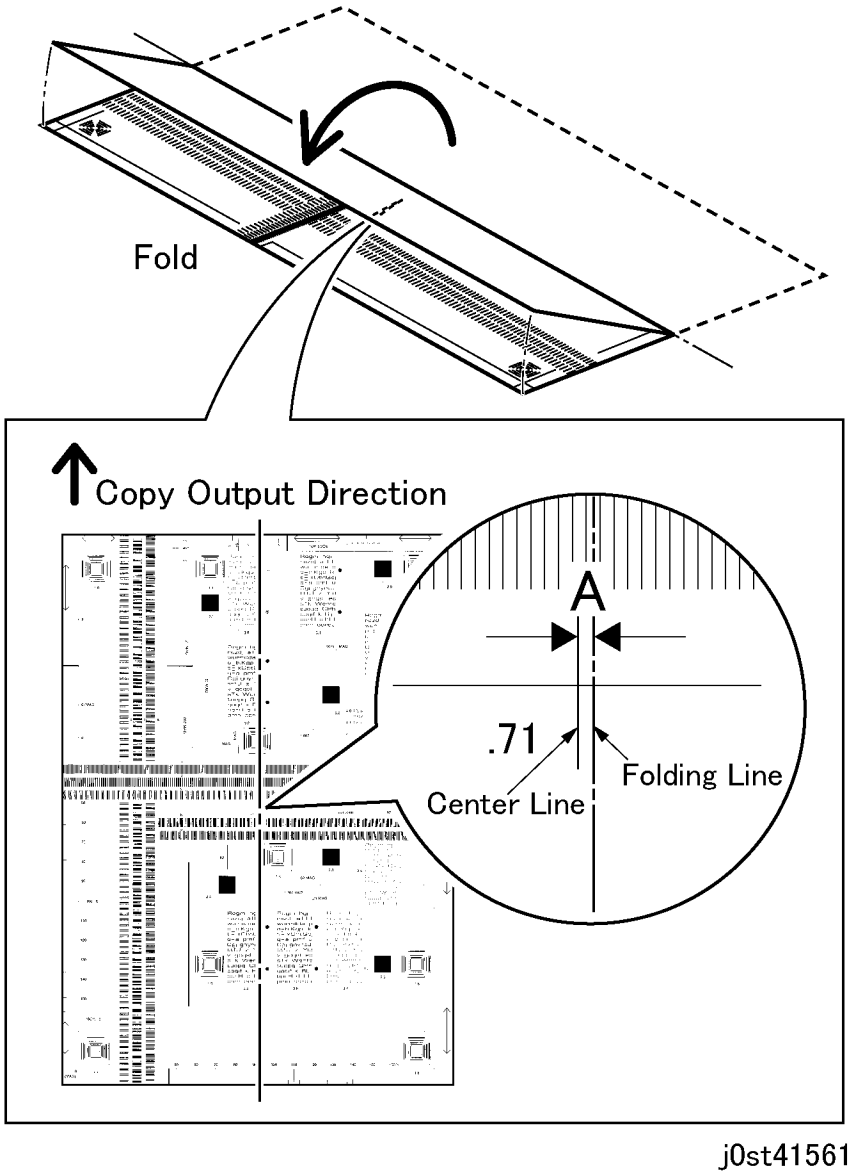


Figure 1 DADF Side Edge Registration

Adjustment

1. Access UI Diagnostics (Accessing UI Diagnostics).
2. Select **NVM Read/Write**.

3. Adjust the NVM in Table 1 so that the distance between the fold line and the test pattern center line is within the specifications.

   If the fold line is to the right of the center line, increase the value.

   If the fold line is to the left of the central line, decrease the value.

Table 1 NVM List

Chain Link	Name	Min.	Initial	Max	Increment
711-272	CVT FS Offset **Side1** Replace All	0	120	240	2 dot
711-274	CVT FS Offset **Side2** Replace All	0	120	240	2 dot

4. Exit Diagnostics mode.
5. Repeat the Check/Adjust until the distance between the fold line and the test pattern center line falls within the specifications.
6. Enter NVM Read/Write. Ensure 715-110 is the same value as 711-272 and 715-111 is the same value as 711-274.

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.

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 ADF 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 Registration Series (ADJ 9.9)*
- *IIT Lead Edge Registration Adjustment (ADJ 9.10)*
- *IIT Side Edge Registration Adjustment (ADJ 9.11)*
- *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 the DADF Test Pattern (Table 1) on the DADF with scan side as Side 1. Make a copy using the following settings.

   - A3 SEF/11x17”
   - 100%
   - 1->1 Sided
   - 5 copies
2. Side 2 (Side 2 of 2 Sided):

   Place the DADF Test Pattern (Table 1) on the DADF with scan side as Side 2 (i.e., Side B is Side 1). Make a copy using the following settings.

   - A3 SEF or 11x17”
   - 100%
   - 2->2 Sided
   - 5 copies
3. Measure the dimension **A** (Figure 1) of the third copy.

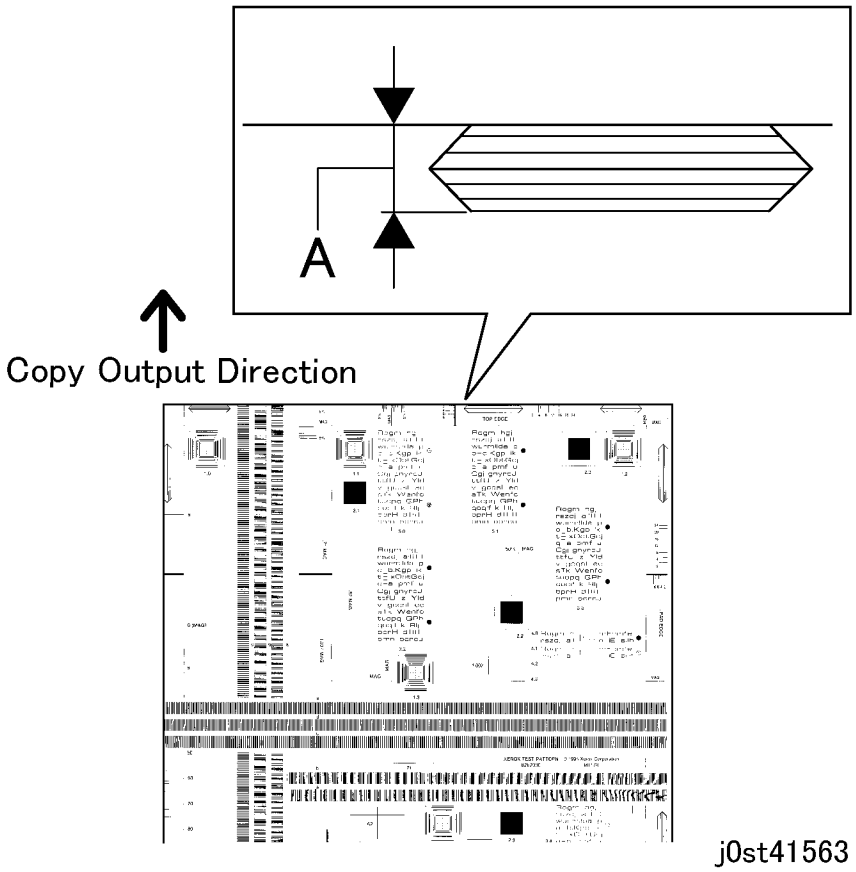


Figure 1 DADF Lead Edge Registration (j0st41563)

4. Check that the Lead Edge (A) is within 5 ± 2.2mm for simplex, and 5 ± 3.0mm for duplex. If the measurement is not within specification, perform the **Adjustment**

Adjustment

1. Enter UI Diagnostics (Accessing UI Diagnostics).
2. Select **NVM Read/Write**.
3. Adjust the NVM shown in Table 1 so that the Lead Edge (A) dimension falls within the specifications.

To increase the distance, decrease the NVM value; to decrease the distance, increase the NVM value.

Table 1 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. Repeat the Check/Adjust 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.

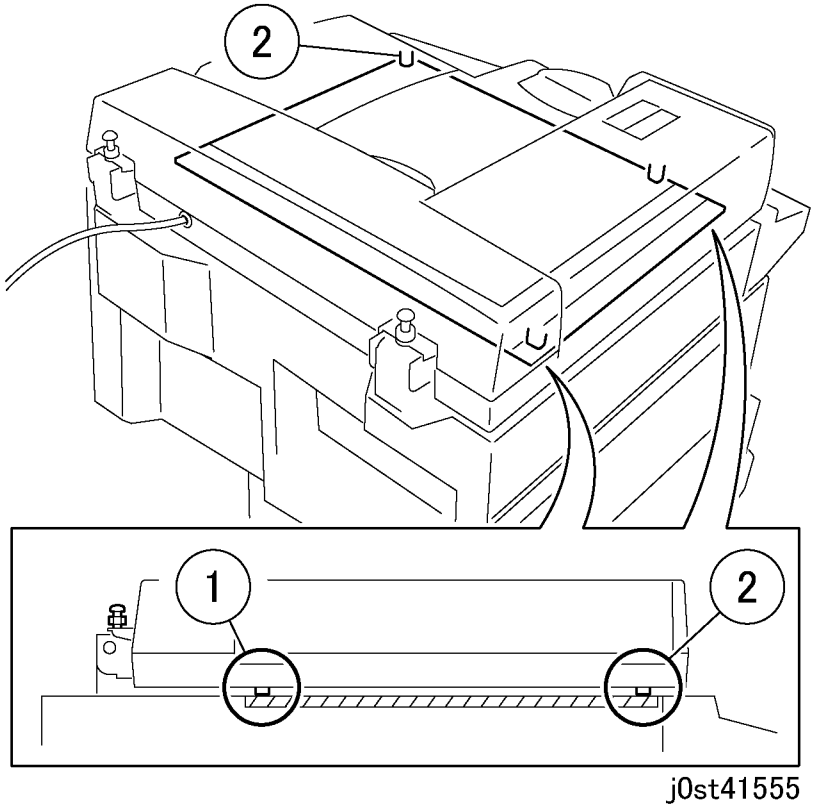


Figure 1 Checking the gap between the DADF Platen Guide and the Platen Glass

Adjustment

NOTE: *DADF height adjustment is basically carried out using the Left Counter Balance. In cases where such adjustment is not possible, adjustment is carried out using the Right Counter Balance.*

1. Loosen the nut of the Left/Right Counter Balance and turn the screw to adjust the height and slant of the DADF. (Figure 2)
   - Turning the screw in direction A will cause the front of the DADF to rise and the rear to fall. (Direction of arrow A)
   - Turning the screw in direction B will cause the front of the DADF to fall and the rear to rise. (Direction of arrow B)

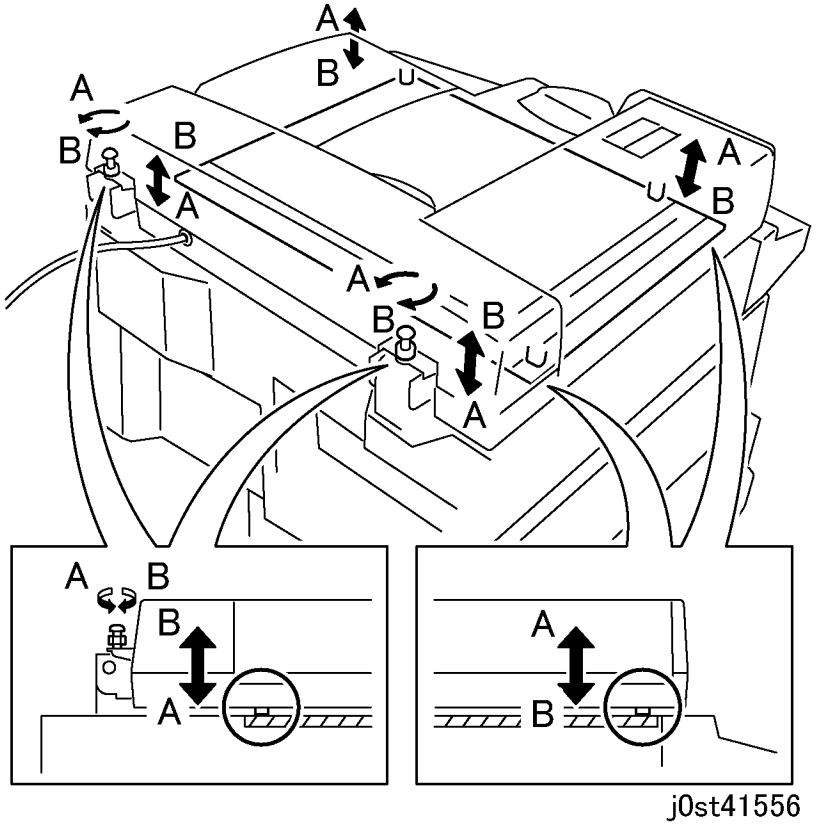


Figure 2 Adjusting the DADF Height

NOTE: *Ensure that the nut is securely tightened after adjustment.*

ADJ 15.1.6 DADF Position (Skew) Adjustment

Purpose

To correct DADF Lead Skew, Orthogonality

Check

1. Place the DADF Test Pattern (Table 1) on the DADF.
2. Make a copy using the following settings in Copy mode.
   - Paper Tray: “A3 SEF or 11x17”
   - Reduce/Enlarge: “100%”
   - Number of copies: “3”
3. Check that the difference between measurement A and measurement B (Figure 1) is within 0.5mm for all 3 copies. If the measurement difference is not within specifications, perform the Adjustment.

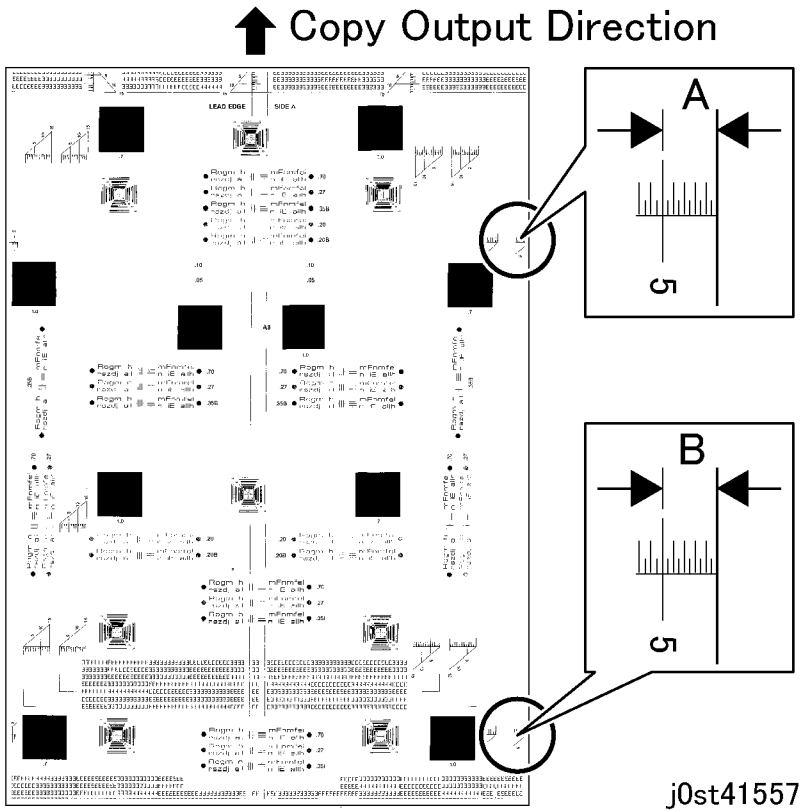


Figure 1 Checking the Lead Skew in the original

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 if **A** measurement greater than **B** measurement) or in B direction if **B** measurement greater than **A** measurement.
   3. Tighten the screws (x5).

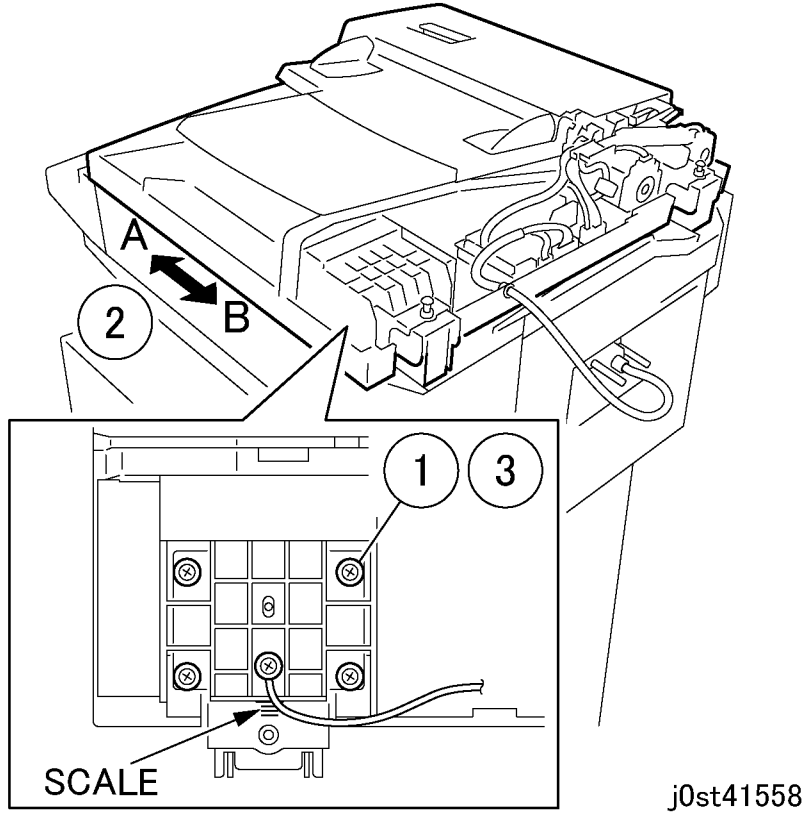
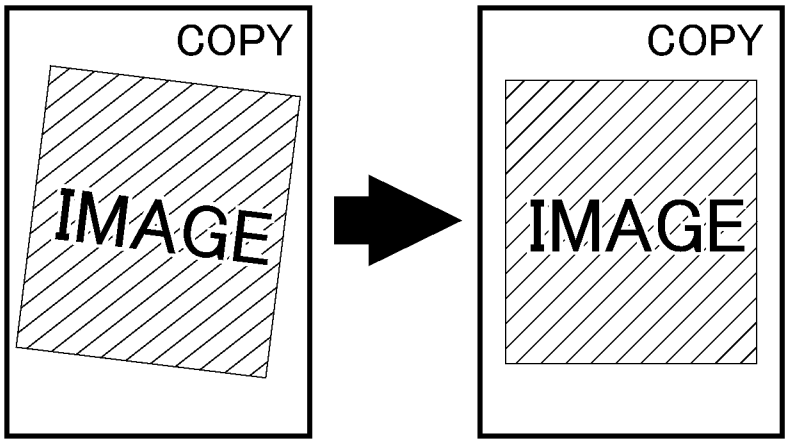


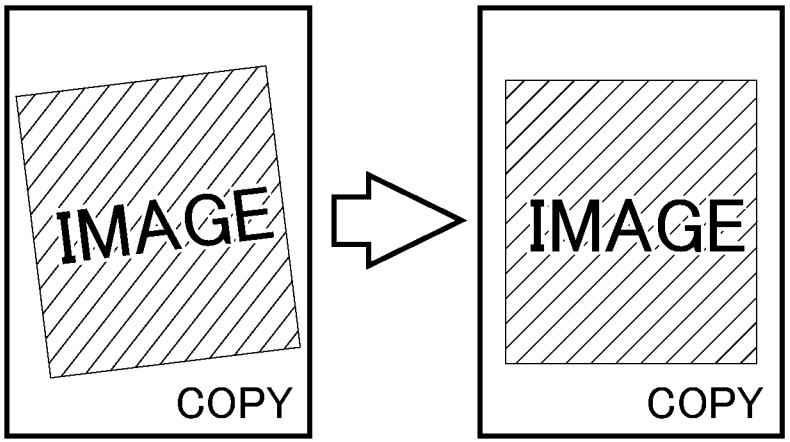
Figure 2 Adjusting the DADF Position

- The DADF moved in direction A. (Figure 3)



j0st41559

Figure 3 Output copy after adjustment (j0st41559)



j0st41560

Figure 4 Output copy after adjustment

- The DADF moved in direction B. (Figure 4)

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

Office Finisher

IIT

Rack, Rear Wall

DADF

A/P 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

Abbreviation	Meaning
A3	297 x 594 Millimeters
A4	210 x 297 Millimeters
A5	148 x 210 Millimeters
AD	Auto Duplex
AWG	American Wire Gauge
EMI	Electro Magnetic Induction
GB	Giga Byte
KB	Kilo Byte
MB	Mega Byte
MM	Millimeters
MOD	Magneto Optical Drive
NOHAD	Noise Ozone Heat Air Dirt
PL	Parts List
P/O	Part of

Table 1

Abbreviation	Meaning
R/E	Reduction/Enlargement
REF:	Refer to
SCSI	Small Computer Systems Interface
W/	With
W/O	Without

Table 2

	Operating Companies
Abbreviation	**Meaning**
AO	Americas Operations
NASG - US	North American Solutions Group - US
NASG - Canada	North American Solutions Group - Canada
XE	Xerox Europe

Symbology

Symbology used in the Parts List section is identified in the Symbology section.

Service Procedure Referencing

If a part or assembly has an associated repair or adjustment procedure, the procedure number will be listed at the end of the part description in the parts lists e.g. (REP 5.1, ADJ 5.3)

Subsystem Information

Use of the Term “Assembly”

The term “assembly” will be used for items in the part number listing that include other itemized parts in the part number listing. When the word “assembly” is found in the part number listing, there will be a corresponding item number on the illustrations followed by a bracket and a listing of the contents of the assembly.

Brackets

A bracket is used when an assembly or kit is spared, but is not shown in the illustration. The item number of the assembly or kit precedes the bracket; the item numbers of the piece parts follow the bracket.

Tag

The notation “W/Tag” in the parts description indicates that the part configuration has been updated. Check the change Tag index in the General Information section of the Service Data for the name and purpose of the modification.

In some cases, a part or assembly may be spared in two versions: with the Tag and without the Tag. In those cases, use whichever part is appropriate for the configuration of the machine on which the part is to be installed. If the machine does not have a particular Tag and the only replacement part available is listed as “W/Tag”, install the Tag kit or all of the piece parts. The Change Tag Index tells you which kit or piece parts you need.

Whenever you install a Tag kit or all the piece parts that make up a Tag, mark the appropriate number on the Tag matrix.

Symbology

A Tag number within a circle pointing to an item number shows that the part has been changed by the tag number within the circle (Figure 1). Information on the modification is in the Change Tag Index.

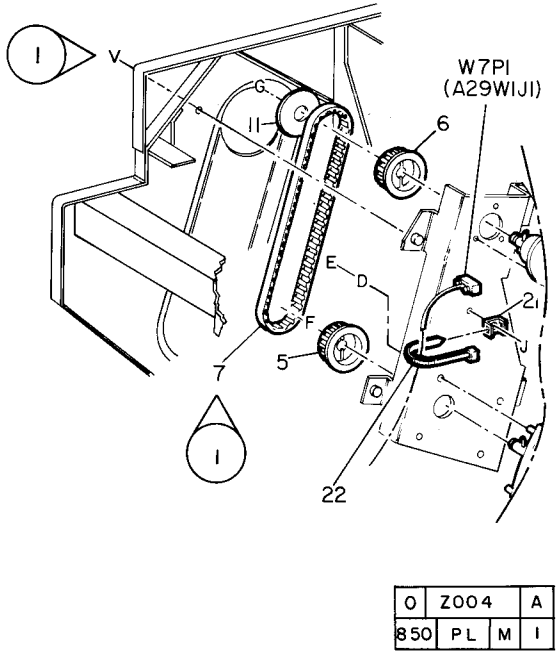


Figure 1 With Tag Symbol

A Tag number within a circle having a shaded bar and pointing to an item number shows that the configuration of the part shown is the configuration before the part was changed by the Tag number within the circle (Figure 2).

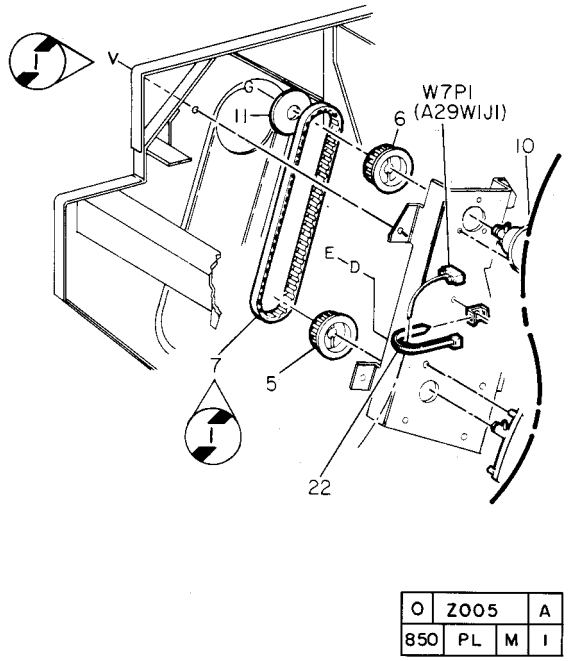


Figure 2 Without Tag Symbol

A tag number within a circle with no apex shows that the entire drawing has been changed by the tag number within the circle (Figure 3). Information on the modification is in the Change Tag Index.

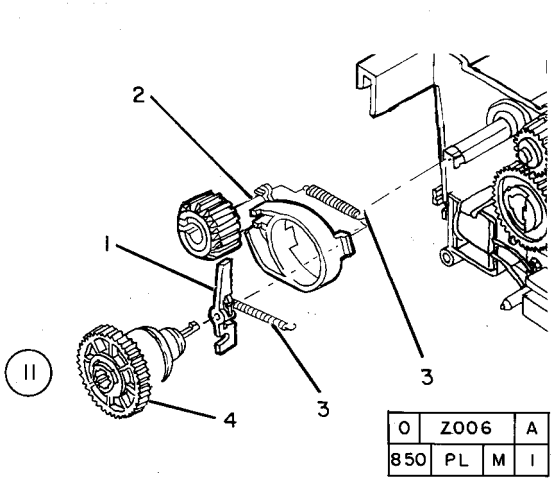


Figure 3 Entire Drawing With Tag Symbol

A tag number within a circle with no apex and having a shaded bar shows that the entire drawing was the configuration before being changed by the tag number within the circle (Figure 4).

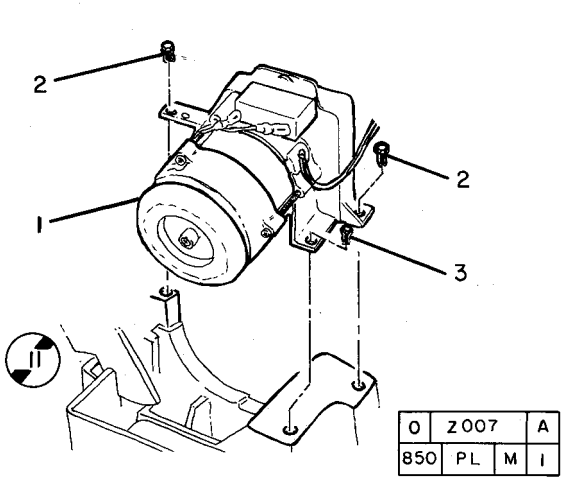
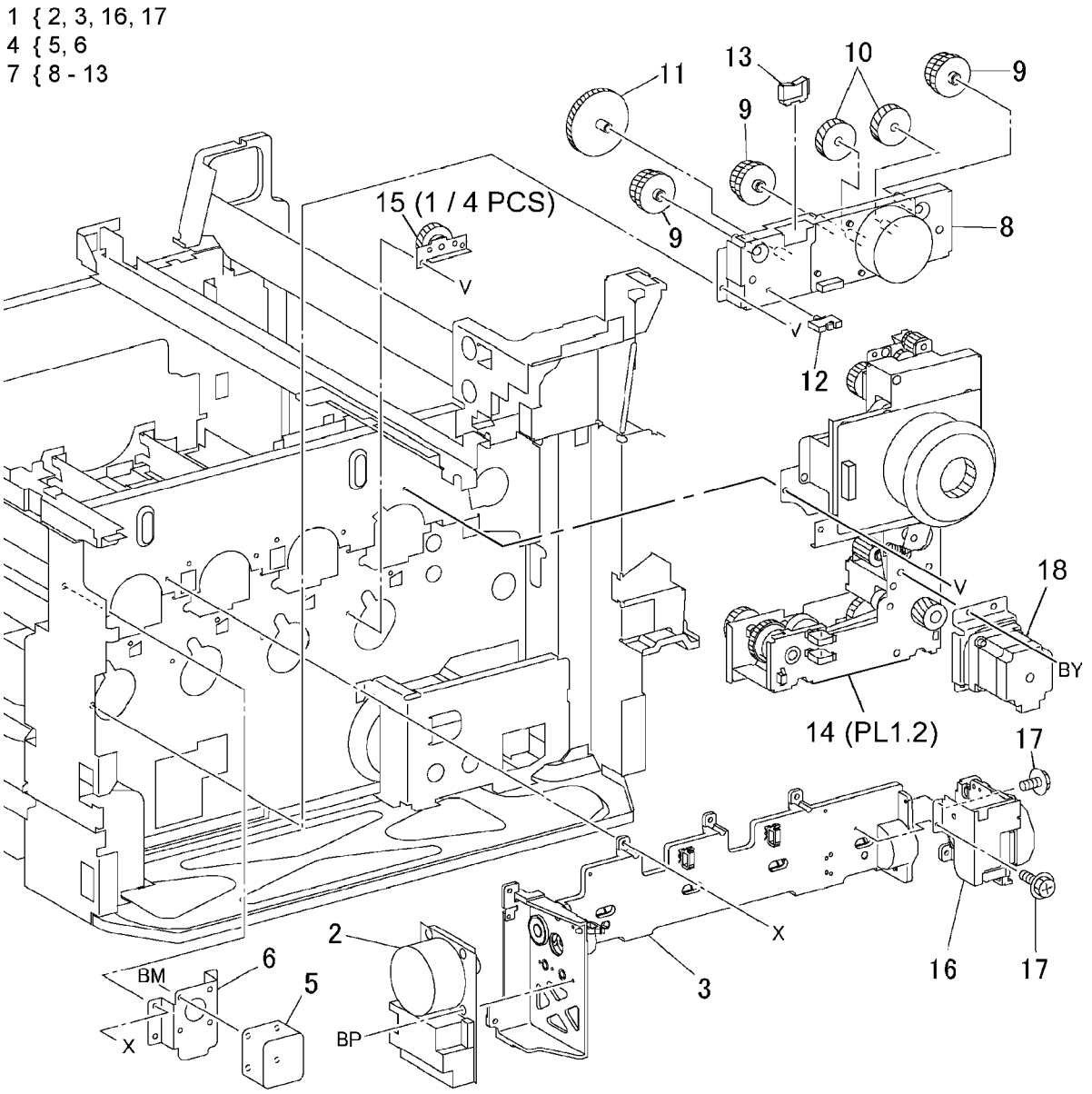


Figure 4 Entire Drawing Without Tag Symbol

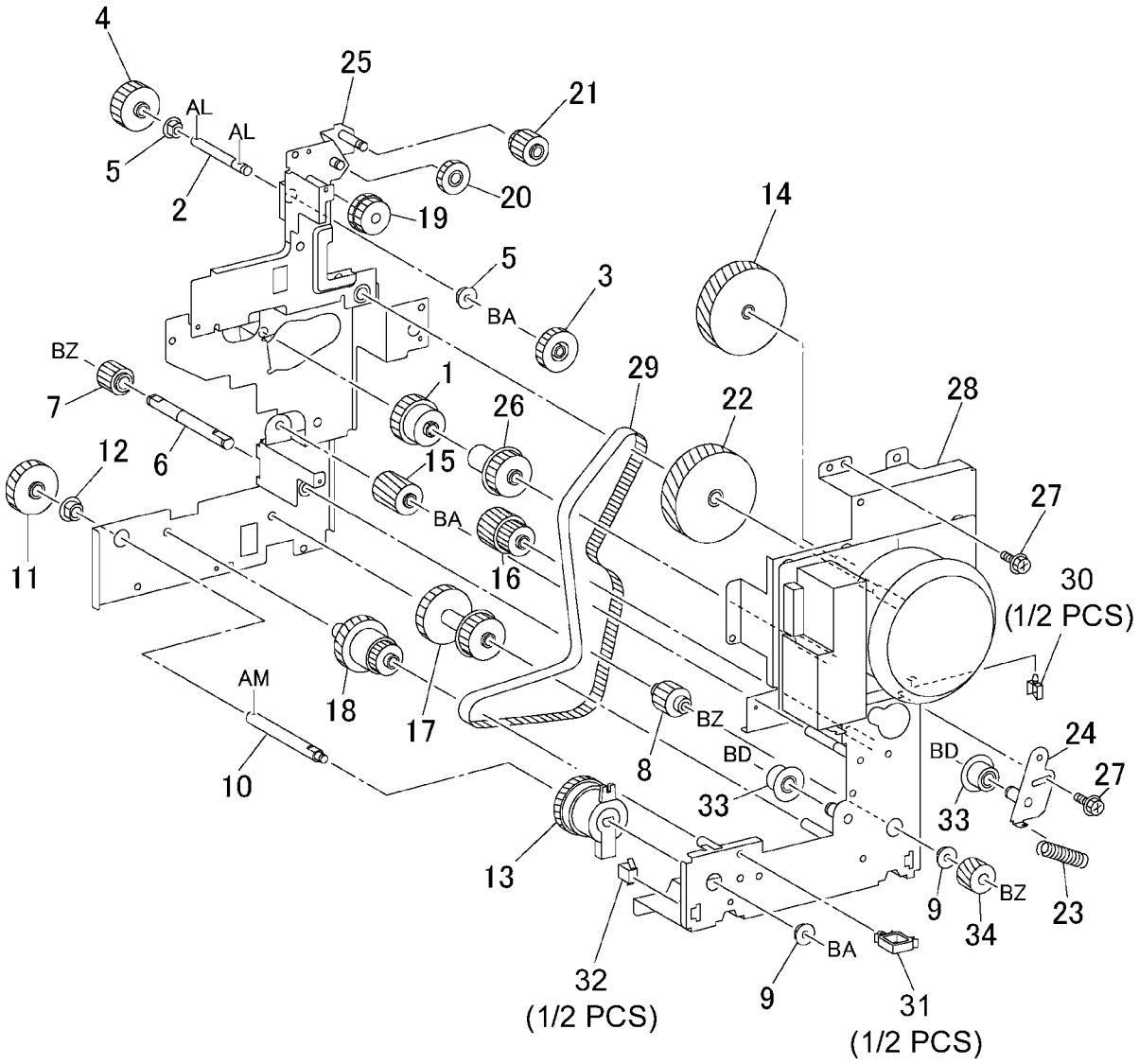
PL 1.1 Drive Unit

Item	Part	Description
1	007K88604	Drum Motor Assembly (REP 4.4)
2	–	Drum Motor (Y, M, C) (P/O PL 1.1 Item 1)
3	–	Gear Bracket (P/O PL 1.1 Item 1)
4	007K87601	IBT Motor Assembly (REP 4.2)
5	–	IBT Motor (P/O PL 1.1 Item 4)
6	–	Gear Bracket (P/O PL 1.1 Item 4)
7	007K88661	Developer Drive Motor Assembly (WC7228/7235/7245/7328/7335/7345 Only) (REP 4.3)
–	007K97770	Developer Drive Motor Assembly (WC7346 Only)
8	–	Developer Drive Motor (P/O PL 1.1 Item 7)
9	–	Gear (47/38T) (P/O PL 1.1 Item 7)
10	–	Gear (51/25T) (P/O PL 1.1 Item 7)
11	–	Gear (P/O PL 1.1 Item 7) (76T)
12	–	Clamp (P/O PL 1.1 Item 7)
13	–	Edge Saddle (P/O PL 1.1 Item 7)
14	007K88114	Main Motor Assembly (REP 4.1)
15	007K87221	Developer Gear
16	–	Drum Motor (K) (P/O PL 1.1 Item 1)
17	–	Screw (P/O PL 1.1 Item 1)
18	127K38881	Takeaway Motor



PL 1.2 Main Drive Motor Assembly

Item	Part	Description
1	–	Friction Clutch (P/O PL 1.1 Item 14)
2	–	Shaft (P/O PL 1.1 Item 14)
3	–	Gear (32T) (P/O PL 1.1 Item 14)
4	–	Gear (28T) (P/O PL 1.1 Item 14)
5	–	Bearing (P/O PL 1.1 Item 14)
6	–	Shaft (P/O PL 1.1 Item 14)
7	–	Gear (20T) (P/O PL 1.1 Item 14)
8	–	Gear (25T) (Not Spared)
9	–	Bearing (P/O PL 1.1 Item 14)
10	–	Shaft (P/O PL 1.1 Item 14)
11	–	Gear (39T) (P/O PL 1.1 Item 14)
12	–	Bearing (P/O PL 1.1 Item 14)
13	121K23270	Developer K Clutch
14	–	Gear (69/27T) (P/O PL 1.1 Item 14)
15	–	Gear (23T) (P/O PL 1.1 Item 14)
16	–	Gear (28/22T) (P/O PL 1.1 Item 14)
17	–	Gear (45/30T) (P/O PL 1.1 Item 14)
18	–	Gear (41/25T) (P/O PL 1.1 Item 14)
19	–	Gear (24/20T) (P/O PL 1.1 Item 14)
20	–	Gear (19T) (P/O PL 1.1 Item 14)
21	–	Gear (18T) (P/O PL 1.1 Item 14)
22	–	Gear (73/23T) (P/O PL 1.1 Item 14)
23	–	Spring (P/O PL 1.1 Item 14)
24	–	Tension Bracket (P/O PL 1.1 Item 14)
25	–	Bracket (P/O PL 1.1 Item 14)
26	–	Pulley (P/O PL 1.1 Item 14)
27	–	Screw (P/O PL 1.1 Item 14)
28	–	Main Motor (P/O PL 1.1 Item 14)
29	–	Belt (P/O PL 1.1 Item 14)
30	–	Clamp (P/O PL 1.1 Item 14)
31	–	Clamp (P/O PL 1.1 Item 14)
32	–	Connector (P/O PL 1.1 Item 14)
33	–	Pulley (P/O PL 1.1 Item 14)
34	–	Gear (30T) (P/O PL 1.1 Item 14)

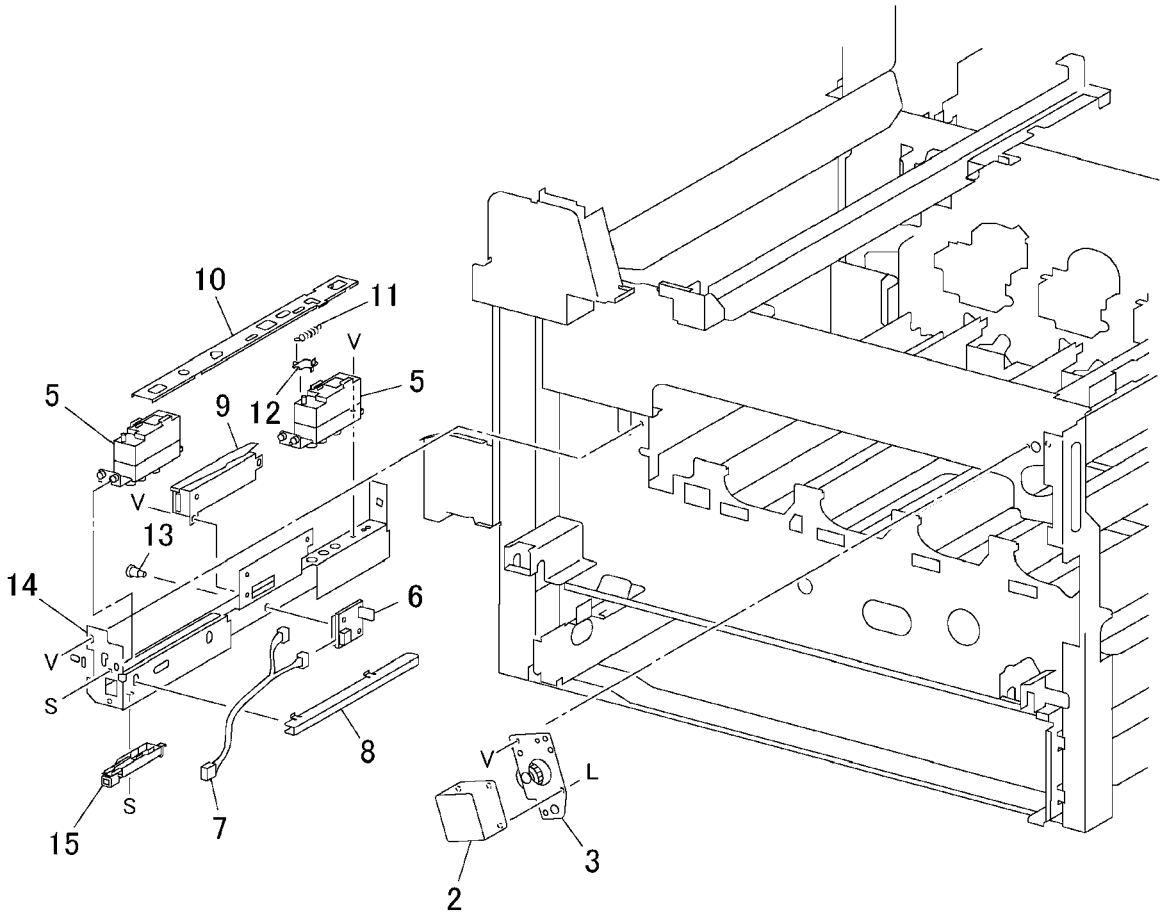


0501002A-COP

PL 1.3 IBT Steering Motor and MOB Sensor

Item	Part	Description
1	007K85582	IBT Steering Drive Assembly (REP 9.12)
2	–	IBT Steering Motor (P/O PL 1.3 Item 1)
3	–	Plate (P/O PL 1.3 Item 1)
4	130K60868	MOB Sensor Assembly (REP 9.14)
5	–	MOB Sensor (P/O PL 1.3 Item 4)
6	–	Environment Sensor (P/O PL 1.3 Item 4)
7	–	Wire Harness (P/O PL 1.3 Item 4)
8	–	Cover (P/O PL 1.3 Item 4)
9	–	ADC Sensor (P/O PL 1.3 Item 4)
10	–	Shutter (P/O PL 1.3 Item 4)
11	–	Spring (P/O PL 1.3 Item 4)
12	–	Link (P/O PL 1.3 Item 4)
13	–	Spacer (P/O PL 1.3 Item 4)
14	–	MOB Bracket (P/O PL 1.3 Item 4)
15	–	Slide (P/O PL 1.3 Item 4)

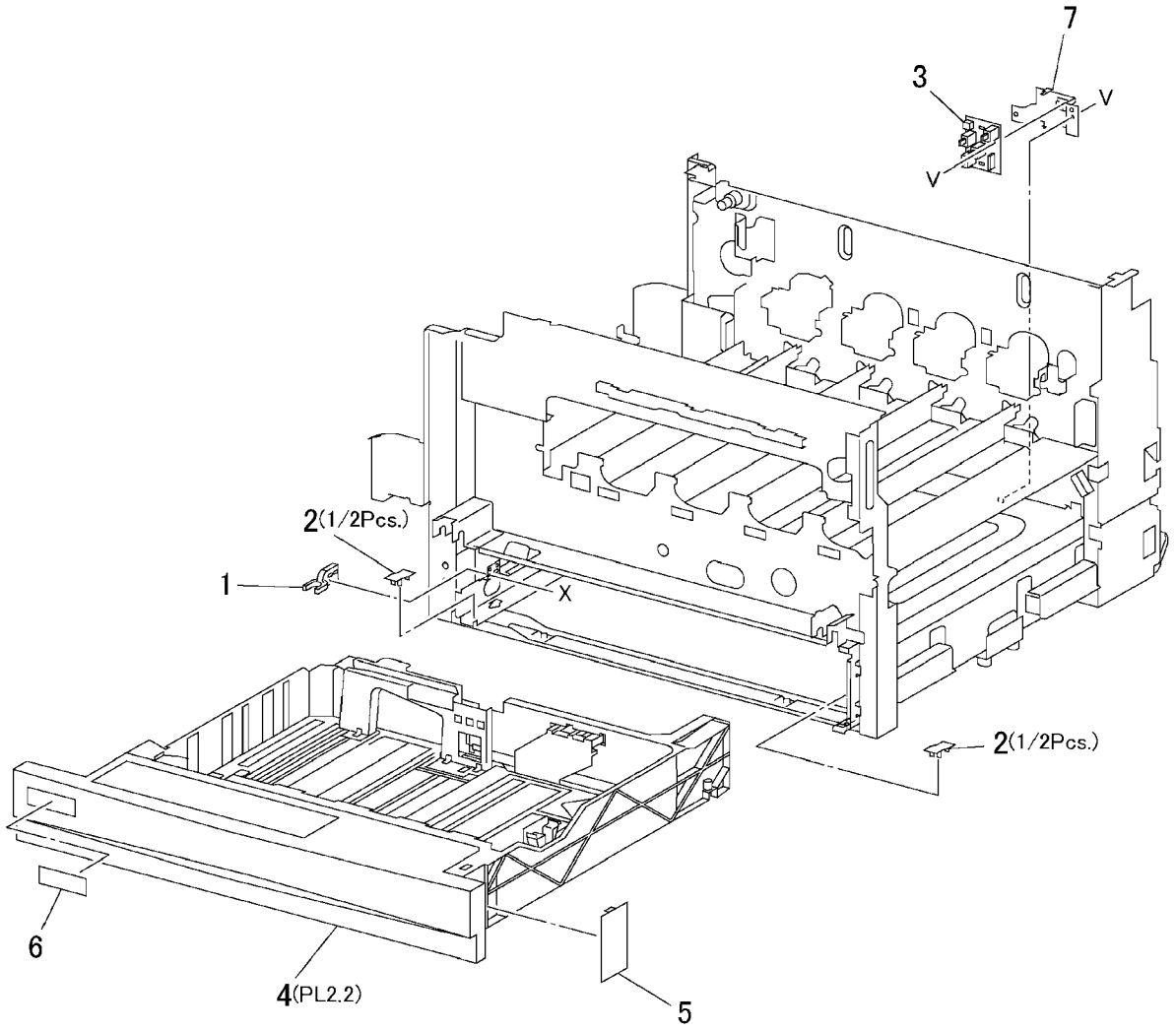
1 { 2, 3
4 { 5 - 15



0501003A-SPD

PL 2.1 Tray 1: 1 of 2

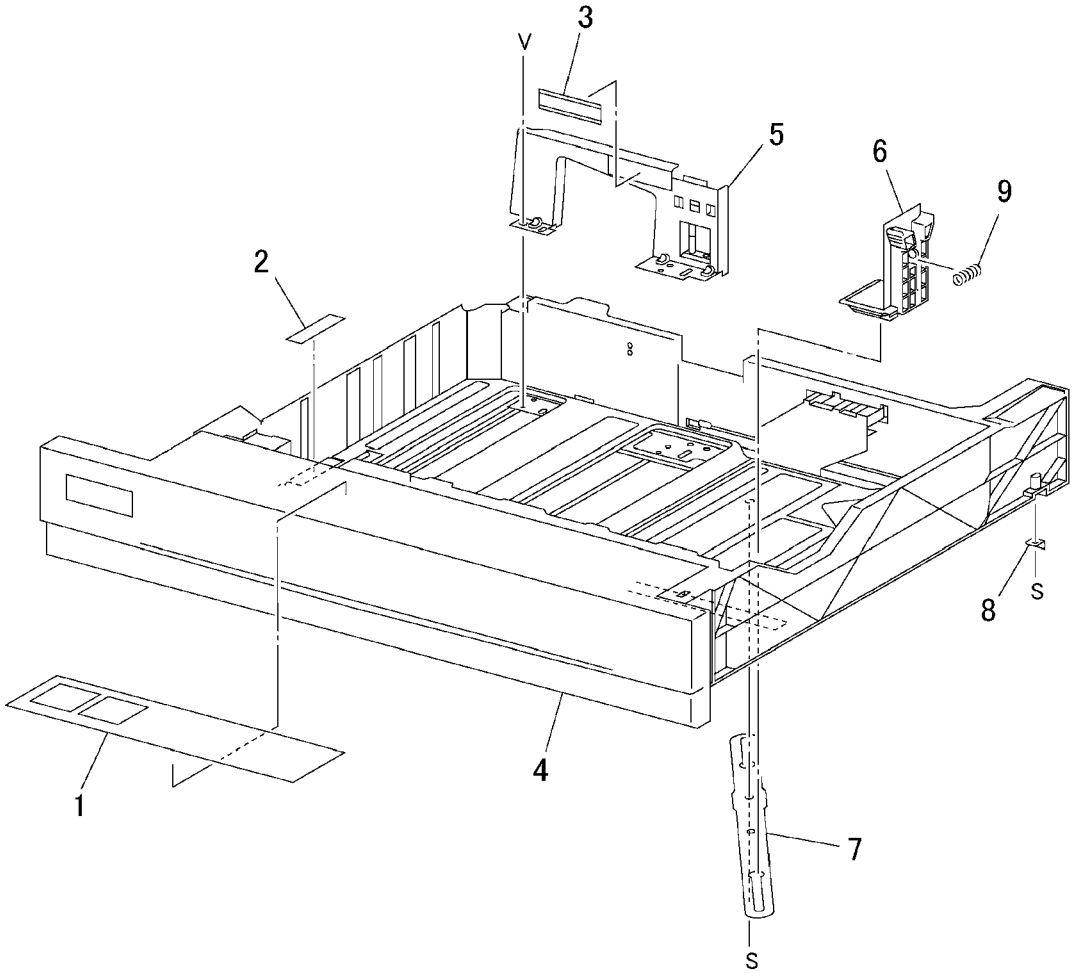
Item	Part	Description
1	003E23672	Stop
2	014E42850	Spacer
3	110K14920	Tray 1 Paper Size Sensor (REP 7.5)
4	050K49613	Tray 1 (REP 7.8)
5	–	Cover (Not Spared)
6	892E82830	Label (1)
7	–	Bracket (Not Spared)



0502001A-SPD

PL 2.2 Tray 1: 2 of 2

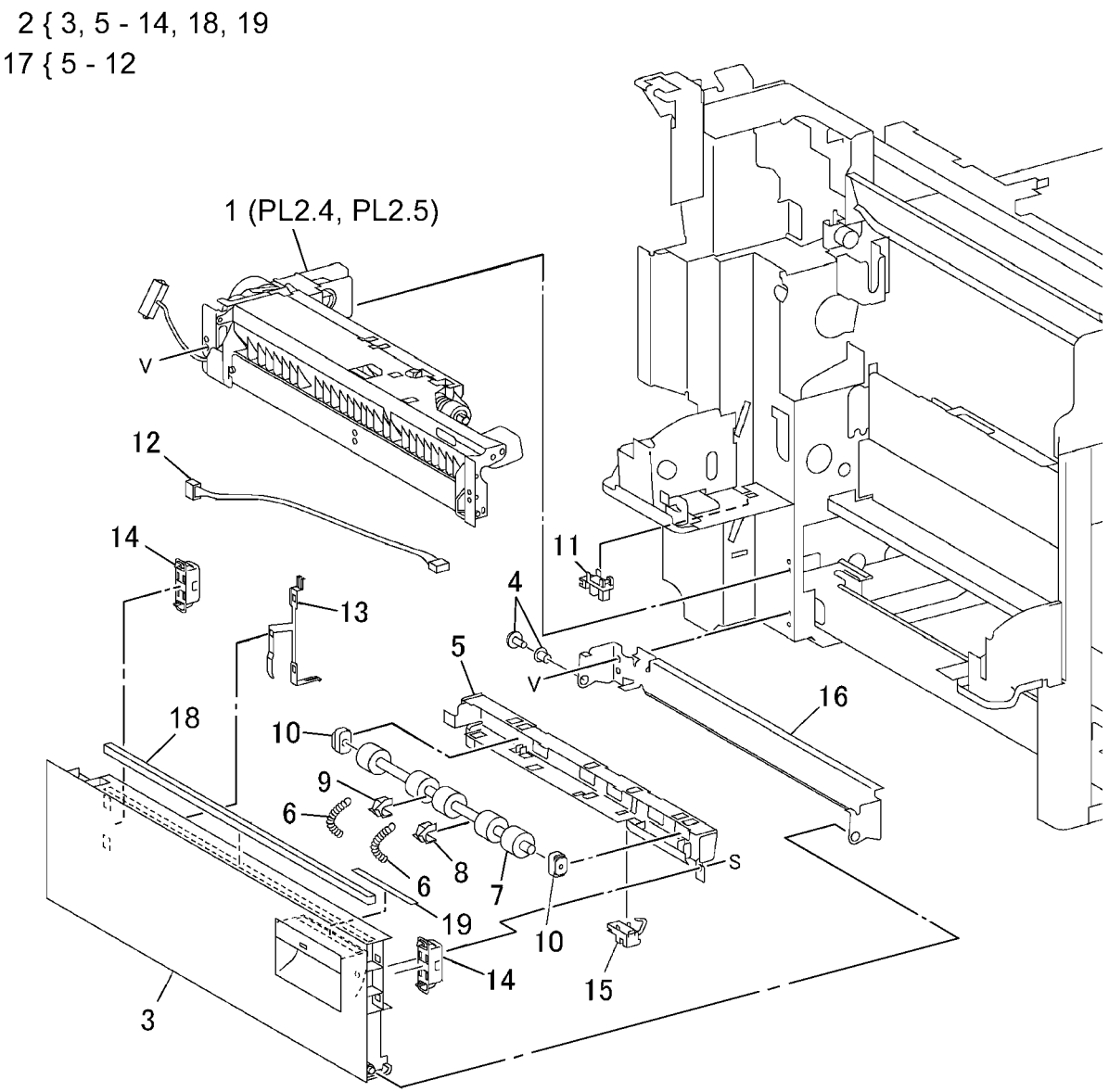
Item	Part	Description
1	892E90351	Instruction Label (110V)
–	892E97560	Instruction Label (220V)
2	–	Pad (P/O PL 2.1 Item 4)
3	–	Max Label (P/O PL 2.1 Item 4)
4	–	Tray (P/O PL 2.1 Item 4)
5	–	Side Guide (P/O PL 2.1 Item 4)
6	–	End Guide (P/O PL 2.1 Item 4)
7	–	Link (P/O PL 2.1 Item 4)
8	–	Stop (P/O PL 2.1 Item 4)
9	–	Spring (P/O PL 2.1 Item 4)



0502002A-SPD

PL 2.3 Tray 1 Feeder and Left Lower Cover Assembly

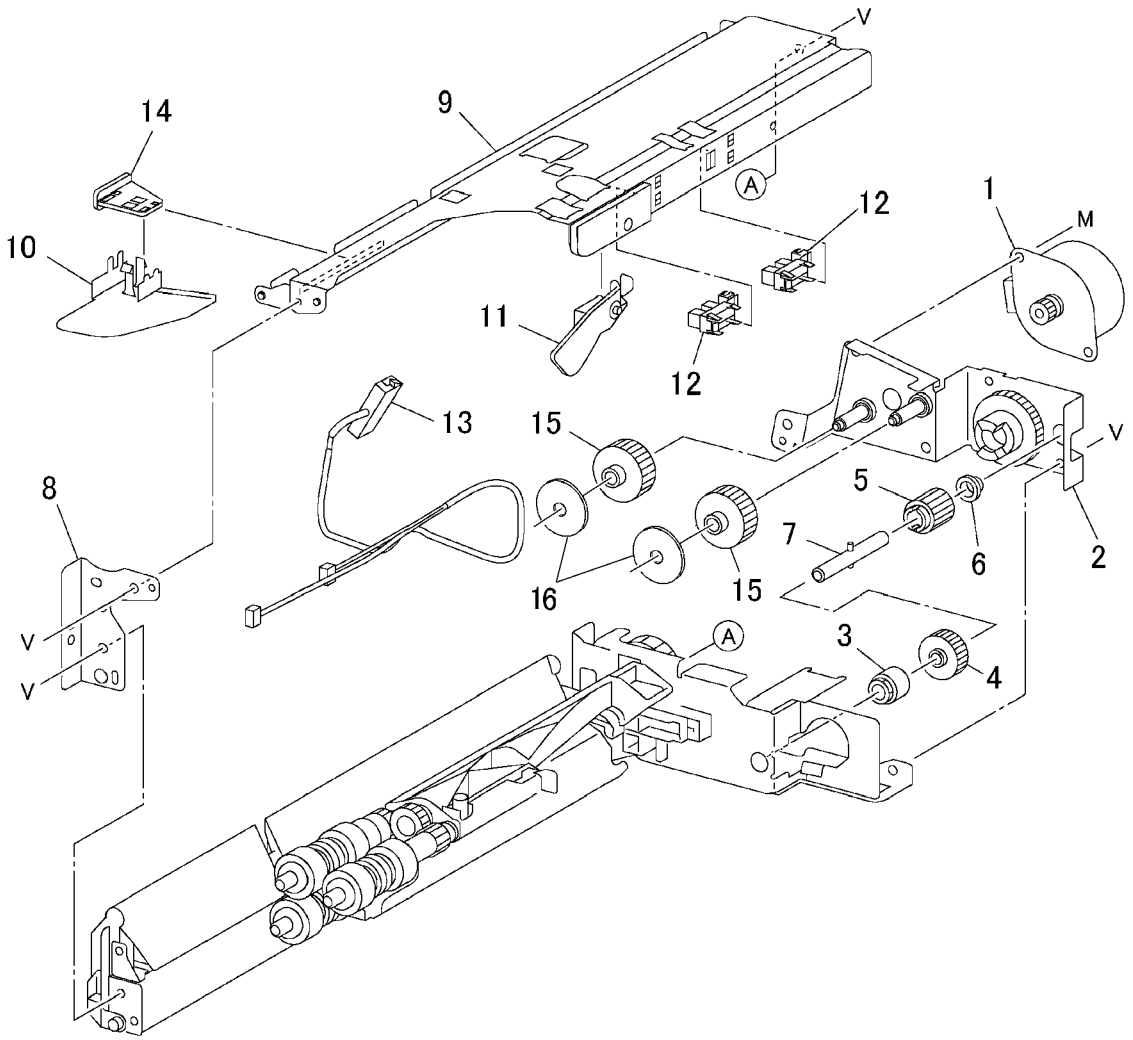
Item	Part	Description
1	059K15577	Tray 1 Feeder (REP 7.3)
2	802K56394	Left Lower Cover Assembly (REP 14.6)
3	–	Left Lower Cover (P/O PL 2.3 Item 2)
4	029E31600	Pivot
5	–	Bracket (P/O PL 2.3 Item 2, PL 2.3 Item 17)
6	–	Spring (P/O PL 2.3 Item 2, PL 2.3 Item 17)
7	–	Pinch Roll (P/O PL 2.3 Item 2, PL 2.3 Item 17)
8	–	Bearing (P/O PL 2.3 Item 2, PL 2.3 Item 17)
9	–	Bearing (P/O PL 2.3 Item 2, PL 2.3 Item 17)
10	–	Bearing (P/O PL 2.3 Item 2, PL 2.3 Item 17)
11	130E82190	LH Lower Cover Interlock Switch
12	–	Wire Harness (P/O PL 2.3 Item 2, PL 2.3 Item 17)
13	–	Ground Plate (P/O PL 2.3 Item 2)
14	–	Magnet (P/O PL 2.3 Item 2)
15	130K60851	Tray 1 Feed Out Sensor
16	–	Bracket (Not Spared)
17	–	Pinch Roll Assembly
18	–	Seal (P/O PL 2.3 Item 2)
19	–	Seal (P/O PL 2.3 Item 2)



0502003A-C

PL 2.4 Tray 1 Feeder: 1 of 2

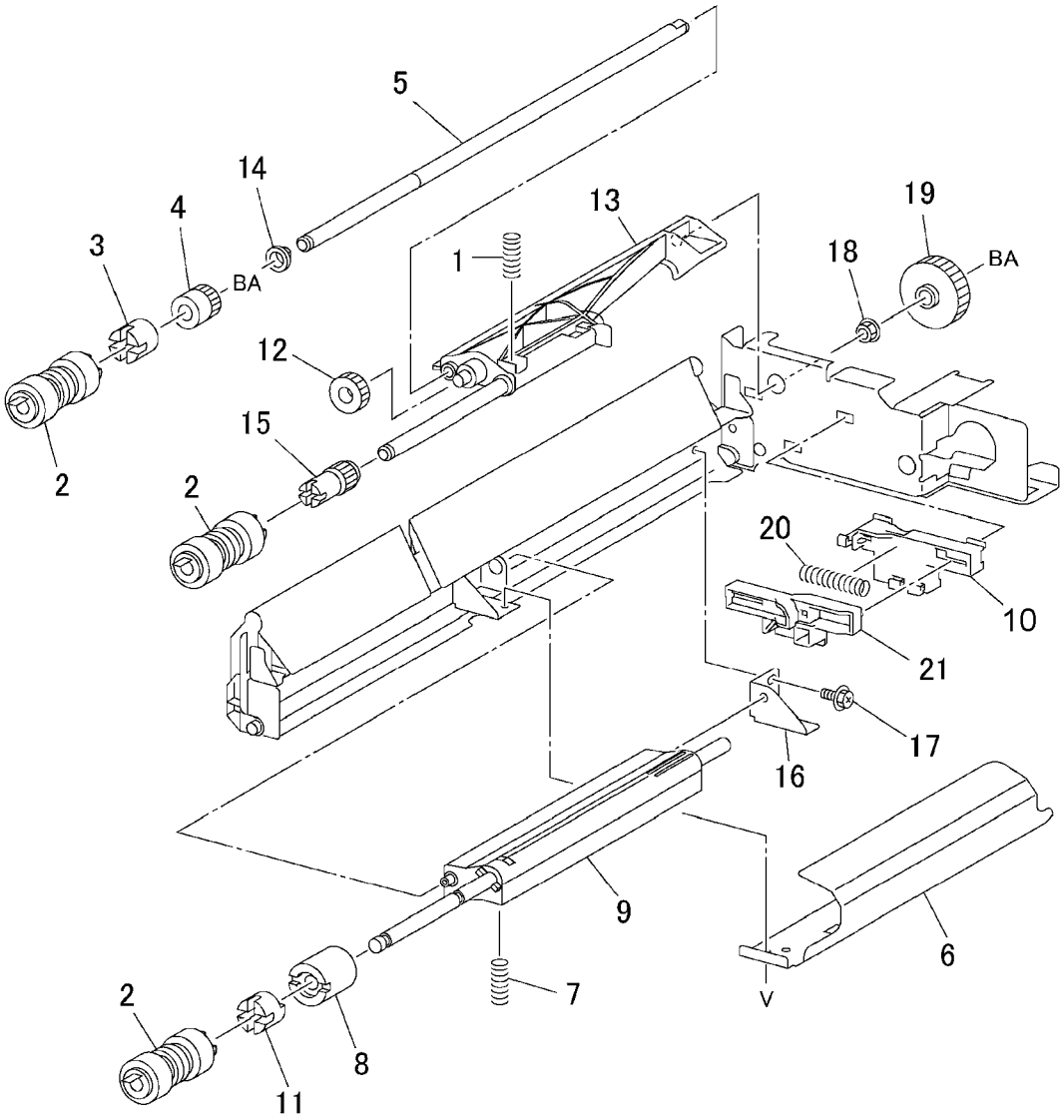
Item	Part	Description
1	127K23231	Tray 1 Feed/Lift Motor (REP 7.4)
2	–	Bracket (P/O PL 2.3 Item 1)
3	005K83081	One-way Clutch
4	007K85730	One-way Gear
5	–	Gear (13T) (P/O PL 2.3 Item 1)
6	–	Bearing (P/O PL 2.3 Item 1)
7	–	Shaft (P/O PL 2.3 Item 1)
8	–	Front Frame (P/O PL 2.3 Item 1)
9	–	Upper Frame (P/O PL 2.3 Item 1)
10	–	Front Chute (P/O PL 2.3 Item 1)
11	120E18141	Actuator
12	130E82190	Tray 1 Level / No Paper Sensor
13	–	Wire Harness (P/O PL 2.3 Item 1)
14	–	Support (P/O PL 2.3 Item 1)
15	–	Gear (15T) (P/O PL 2.3 Item 1)
16	–	Washer (P/O PL 2.3 Item 1)



0502004A-SPD

PL 2.5 Tray 1 Feeder: 2 of 2

Item	Part	Description
1	–	Spring (P/O PL 2.3 Item 1)
2	600K78460	Roll Kit (3 Rolls/Kit)
3	005K05890	One-way Clutch
4	–	Gear (P/O PL 2.3 Item 1)
5	–	Shaft (P/O PL 2.3 Item 1)
6	–	Chute (P/O PL 2.3 Item 1)
7	–	Spring (P/O PL 2.3 Item 1)
8	–	Friction Clutch (P/O PL 2.3 Item 1)
9	–	Support (P/O PL 2.3 Item 1)
10	–	Holder (P/O PL 2.3 Item 1)
11	–	Spacer (P/O PL 2.3 Item 1)
12	–	Gear (31T) (P/O PL 2.3 Item 1)
13	–	Support (P/O PL 2.3 Item 1)
14	–	Bearing (P/O PL 2.3 Item 1)
15	–	Gear (P/O PL 2.3 Item 1)
16	–	Support (P/O PL 2.3 Item 1)
17	–	Screw (P/O PL 2.3 Item 1)
18	–	Bearing (P/O PL 2.3 Item 1)
19	–	Gear (35T) (P/O PL 2.3 Item 1)
20	–	Spring (P/O PL 2.3 Item 1)
21	–	Lever (P/O PL 2.3 Item 1)

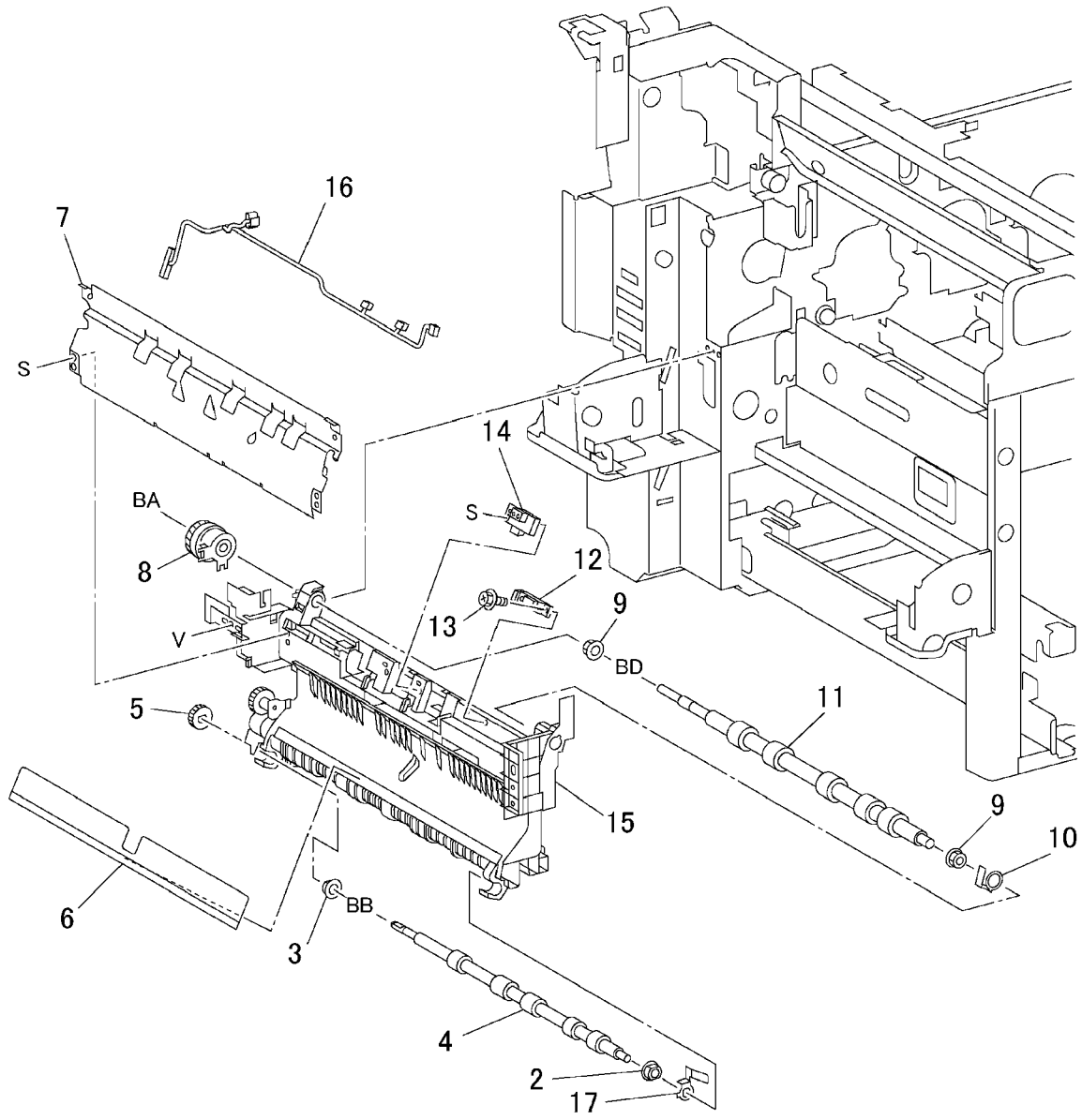


0502005B-SPD

PL 2.6 Registration Transport

Item	Part	Description
1	059K26794	Registration Transport Assembly (REP 8.6)
2	–	Bearing (P/O PL 2.6 Item 1)
3	–	Bearing (P/O PL 2.6 Item 1)
4	–	Takeaway Roll (P/O PL 2.6 Item 1)
5	–	Gear (22T) (P/O PL 2.6 Item 1)
6	–	Paper Guide (P/O PL 2.6 Item 1)
7	–	Registration Chute (P/O PL 2.6 Item 1)
8	121K22220	Registration Clutch
9	–	Bearing (P/O PL 2.6 Item 1)
10	–	Ground Plate (P/O PL 2.6 Item 1)
11	–	Registration Roll (P/O PL 2.6 Item 1)
12	130E87400	Registration Sensor
13	–	Screw (P/O PL 2.6 Item 1)
14	960K16660	OHP Sensor
15	–	Registration Support (P/O PL 2.6 Item 1)
16	–	Wire Harness (P/O PL 2.6 Item 1)
17	–	Ground Plate (P/O PL 2.6 Item 1)

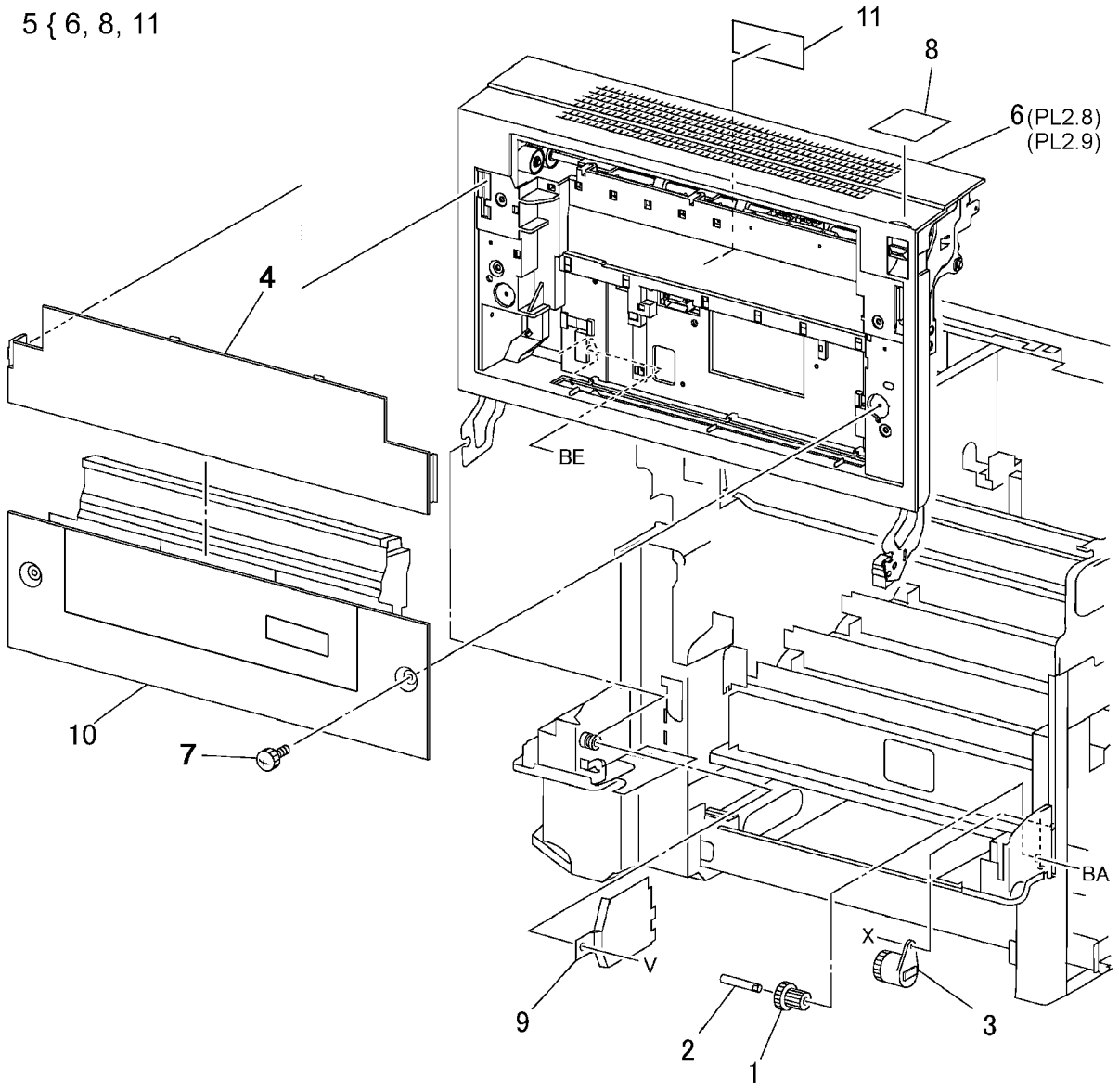
1 { 2 - 17



0502006A-COP

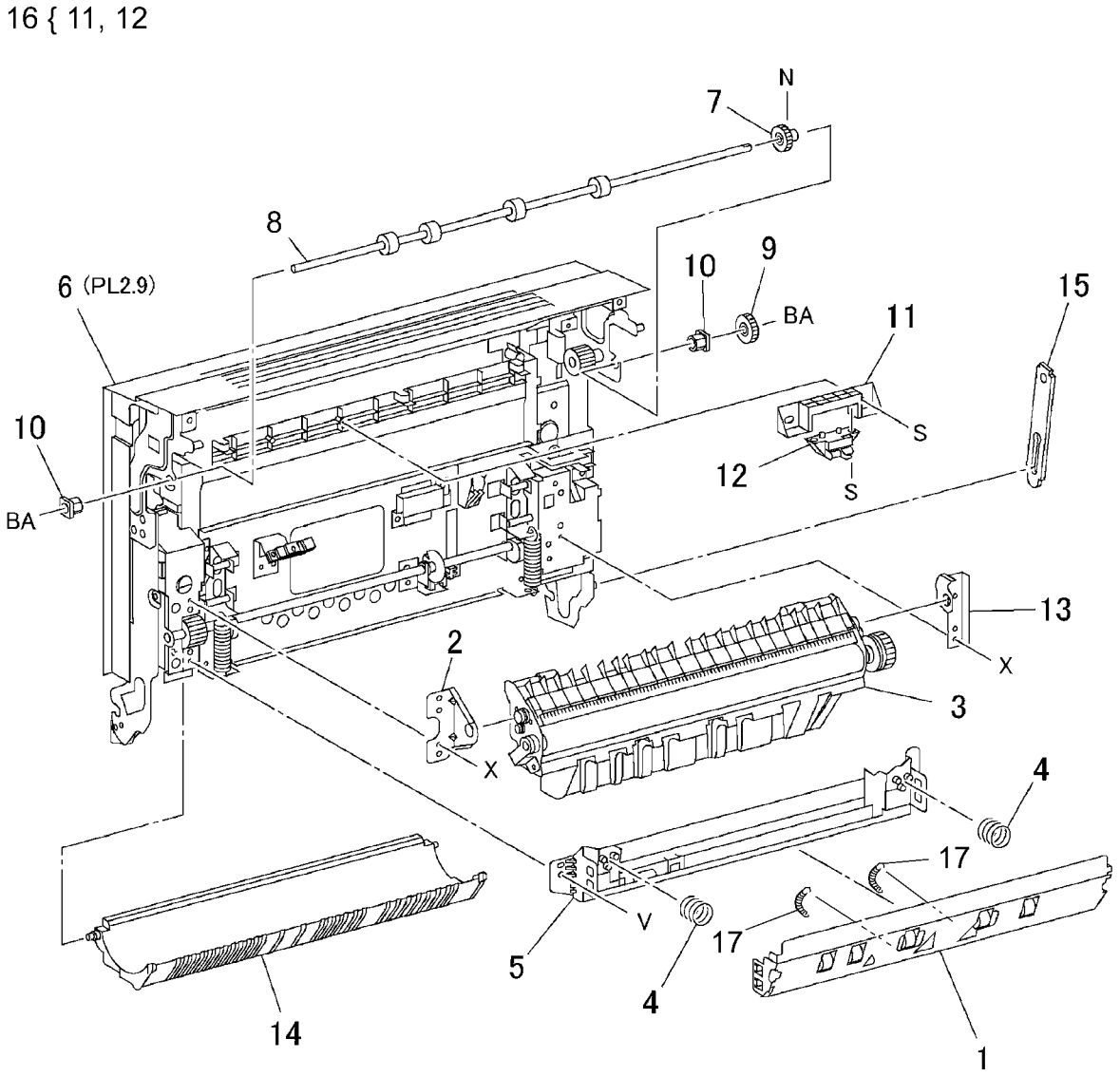
PL 2.7 Left Cover Unit

Item	Part	Description
1	007E64740	Damper Gear (11/23T)
2	–	Stud (Not Spared)
3	004E11831	Damper (White)
4	–	Left Upper Cover (Not Spared)
5	802K67624	Left Cover Assembly (REP 8.1)
6	–	Left Cover (P/O PL 2.7 Item 5)
7	–	Screw (Not Spared)
8	–	Label (P/O PL 2.7 Item 5)
9	–	Cover (Not Spared)
10	–	Lower Cover (Not Spared)
11	–	Label (P/O PL 2.7 Item 5)



PL 2.8 Left Cover Assembly: 1 of 2

Item	Part	Description
1	054K22411	Registration Chute
2	–	Holder (P/O PL 2.7 Item 1)
3	604K19991	2nd BTR (REP 9.24)
4	809E29620	Spring
5	015K48383	Support
6	–	Left Cover (P/O PL 2.7 Item 1)
7	007E62630	Gear (22T)
8	059K15613	Exit Roll
9	007E79480	Gear (22T)
10	–	Bearing (P/O PL 2.7 Item 1)
11	–	Holder (P/O PL 2.8 Item 16)
12	110K10651	Fuser Exit Switch
13	–	Holder (P/O PL 2.7 Item 1)
14	054K16131	Duplex Chute (REP 8.2)
15	–	Stop (P/O PL 2.7 Item 1)
16	–	Fuser Exit Switch Assembly (P/O PL 2.7 Item 1)
17	809E26070	Extension Spring



0502008A-COP

PL 2.9 Left Cover Assembly: 2 of 2

Item	Part	Description
1	–	Bearing (P/O PL 2.7 Item 1)
2	007K85522	Gear Assembly
3	127K29513	2nd BTR Retract Motor
4	130E82190	2nd BTR Retract Sensor
5	–	Bracket (P/O PL 2.7 Item 1)
6	130E84300	POB Sensor
7	–	Bracket (Not Spared)
8	–	Spring (P/O PL 2.7 Item 1)
9	–	Bracket (P/O PL 2.7 Item 1)
10	802K27076	Left Cover Assembly
11	–	Left Cover (P/O PL 2.9 Item 10)
12	–	Lever (P/O PL 2.9 Item 10)
13	–	Bracket (P/O PL 2.9 Item 10)
14	–	Gear (21T) (P/O PL 2.9 Item 10)
15	–	Connector Assembly (P/O PL 2.7 Item 1)
16	–	Spring (P/O PL 2.9 Item 10)
17	604K22880	Damper Gear (45T)

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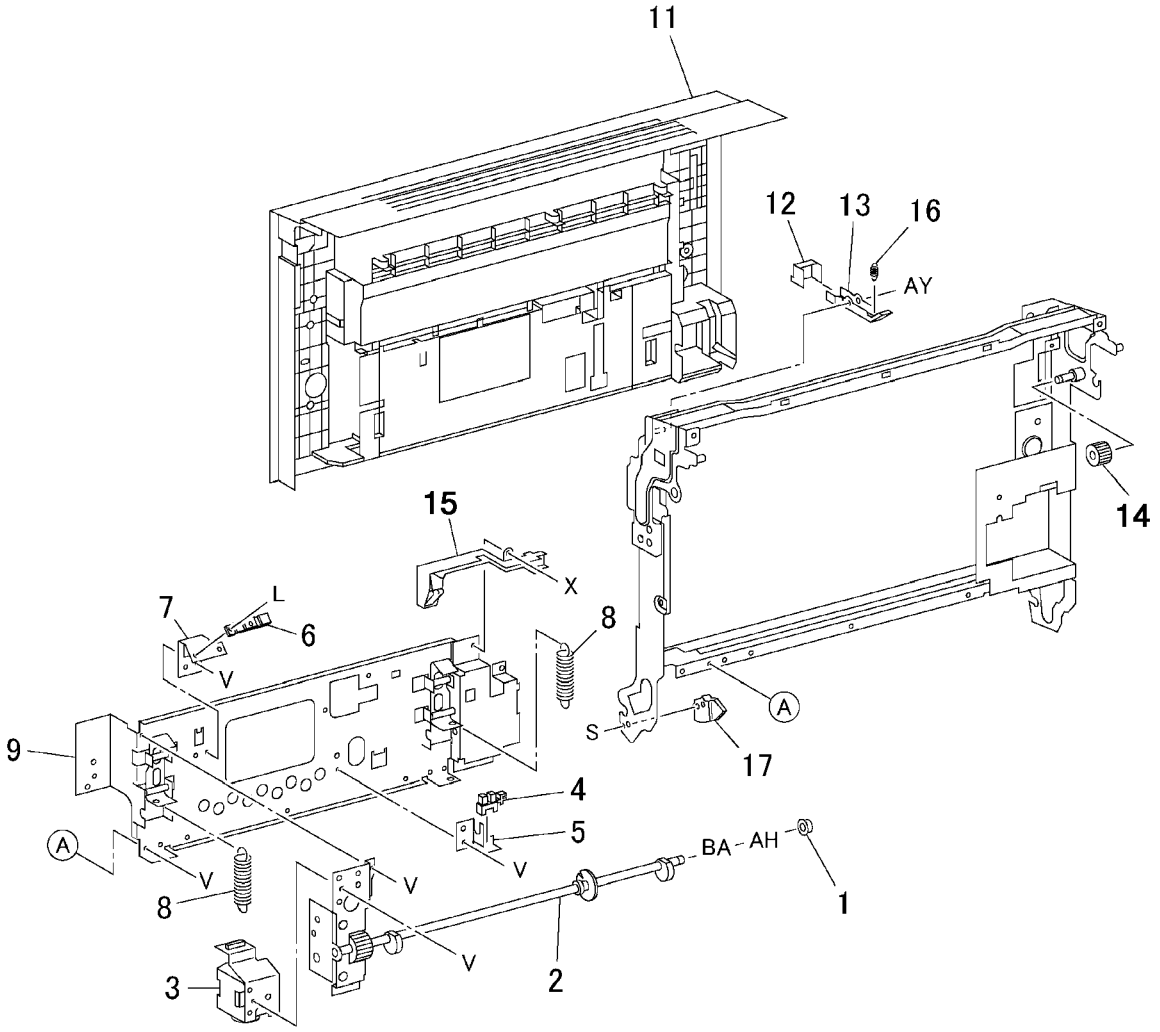
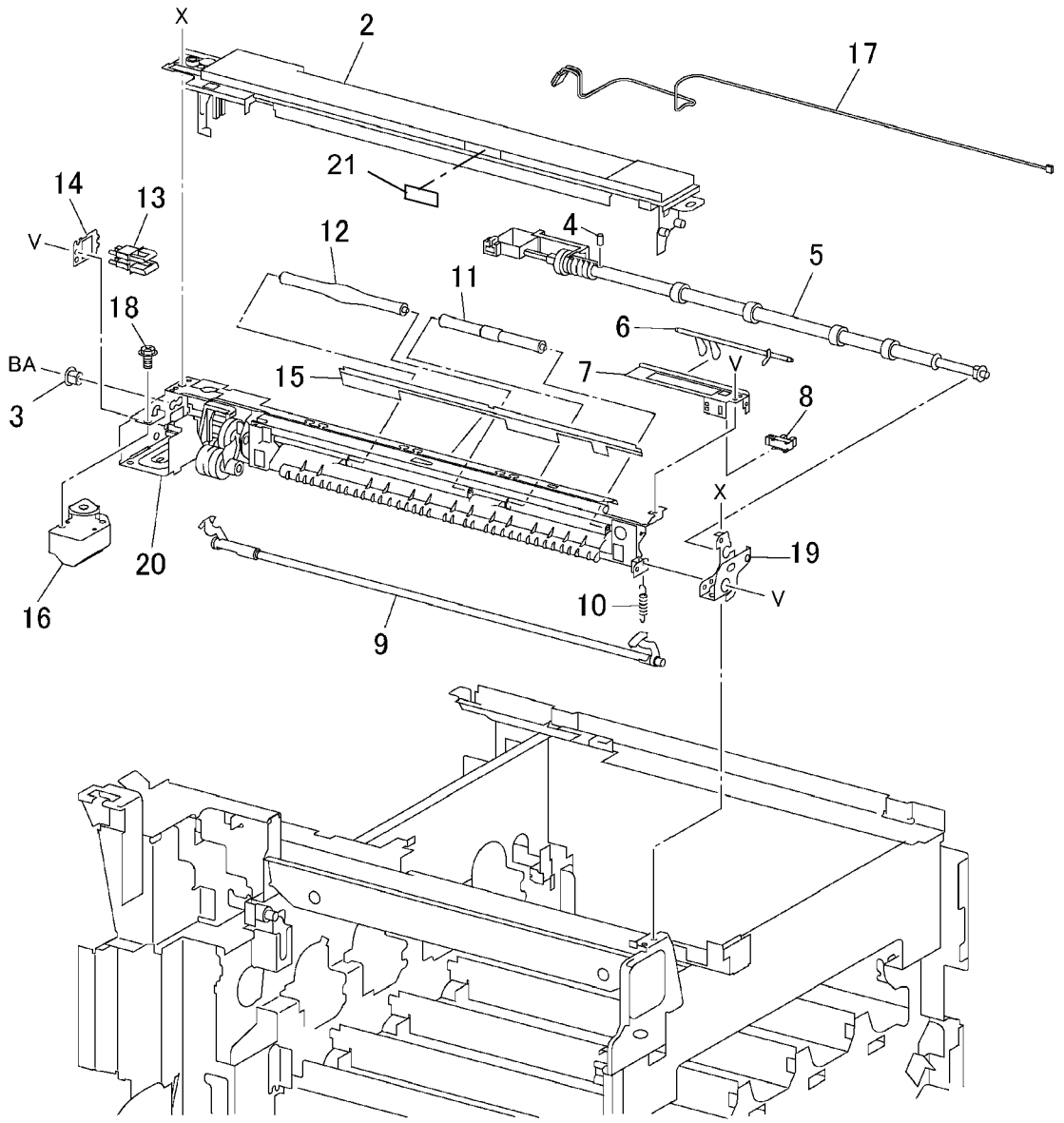


0502009A-SPD

PL 2.10 Exit Transport Assembly

Item	Part	Description
1	059K27188	Exit Transport Assembly (REP 8.7)
2	–	Exit Transport Cover (P/O PL 2.10 Item 1)
3	–	Bearing (P/O PL 2.10 Item 1)
4	–	Pin (P/O PL 2.10 Item 1)
5	–	Exit Roll (P/O PL 2.10 Item 1)
6	120E18162	Actuator
7	–	Bracket (P/O PL 2.10 Item 1)
8	130E82190	Full Paper Stack Sensor
9	–	Latch (P/O PL 2.10 Item 1)
10	–	Spring (P/O PL 2.10 Item 1)
11	–	Pinch Roll (P/O PL 2.10 Item 1)
12	–	Pinch Roll (P/O PL 2.10 Item 1)
13	–	LH Cover Interlock Switch (P/O PL 2.10 Item 1)
14	–	Bracket (P/O PL 2.10 Item 1)
15	–	Static Eliminator (P/O PL 2.10 Item 1)
16	–	Offset Motor (P/O PL 2.10 Item 1)
17	–	Wire Harness (P/O PL 2.10 Item 1)
18	–	Screw (P/O PL 2.10 Item 1)
19	–	Front Bracket (P/O PL 2.10 Item 1)
20	–	Frame (P/O PL 2.10 Item 1)
21	–	Label (Not Spared)

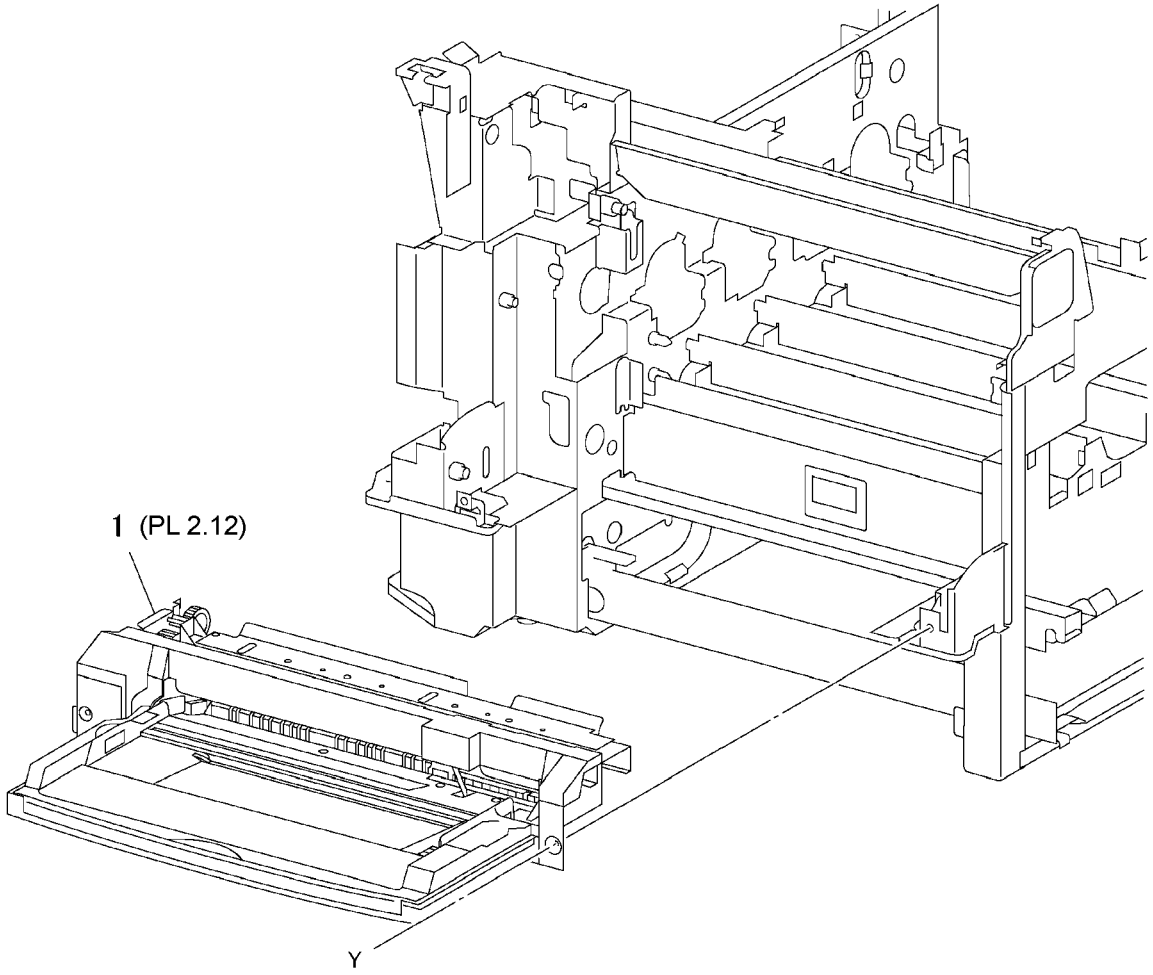
1 { 2 - 20



0502010A-COP

PL 2.11 Tray 5 (1 of 2)

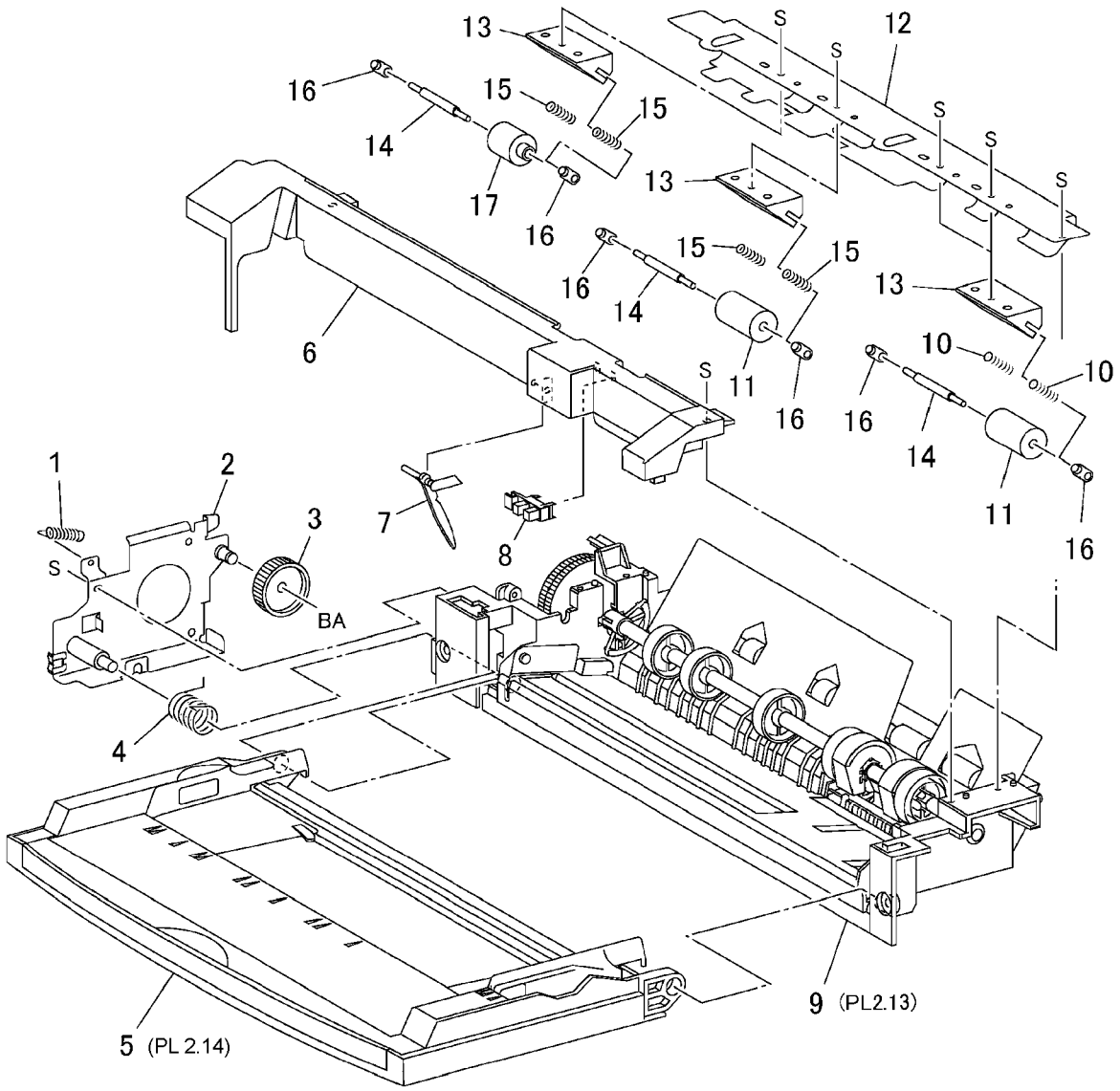
Item	Part	Description
1	059K36764	Tray 5 (110V)
–	059K47111	Tray 5 (220V)



0502011A-SPD

PL 2.12 Tray 5 (2 of 2)

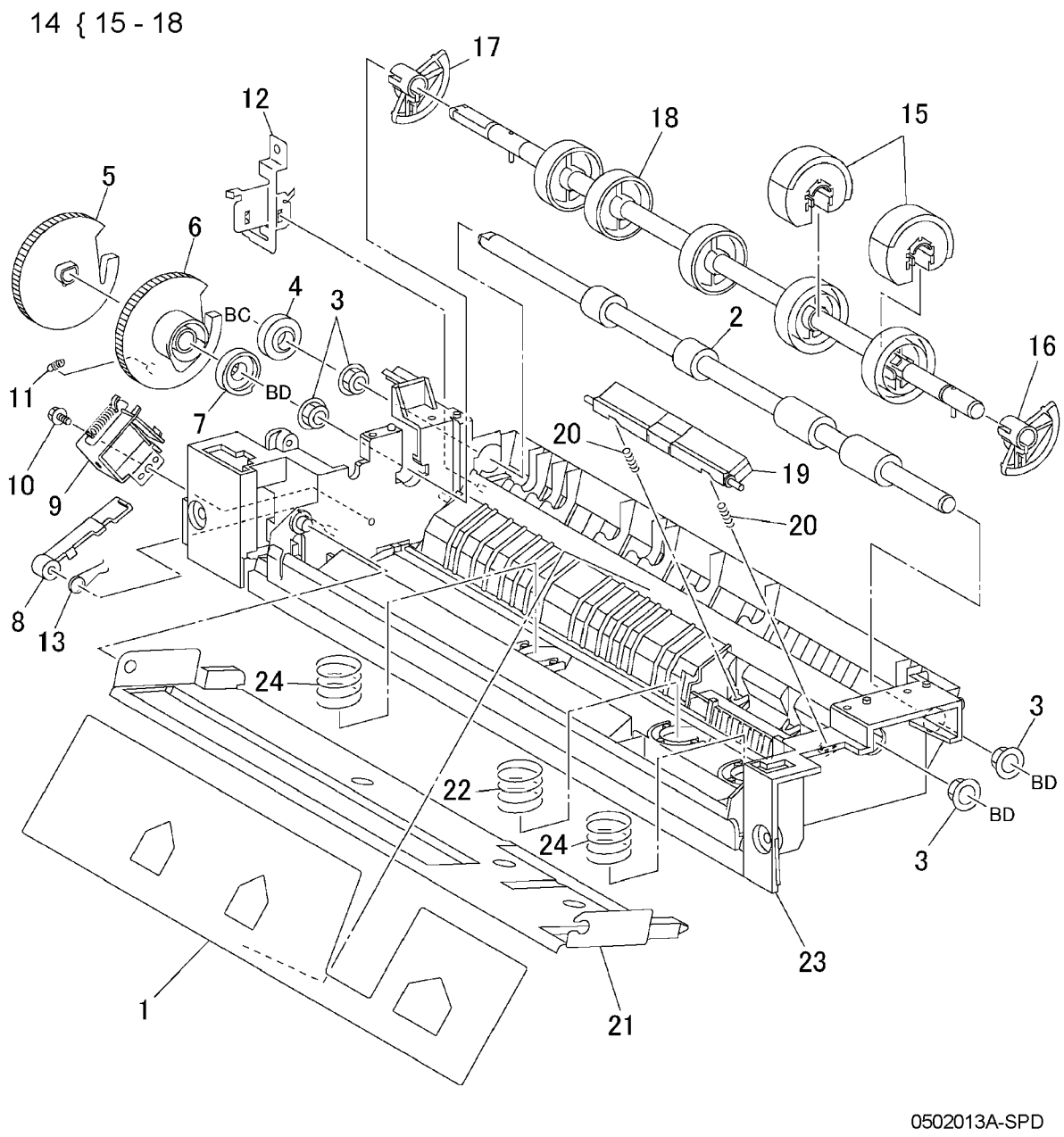
Item	Part	Description
1	–	Spring (P/O PL 2.11 Item 1)
2	–	Bracket (P/O PL 2.11 Item 1)
3	–	Gear (P/O PL 2.11 Item 1)
4	–	Spring (P/O PL 2.11 Item 1)
5	050K51322	Tray 5 Assembly
6	–	Upper Frame (P/O PL 2.11 Item 1)
7	120E11971	Actuator
8	130E82190	Tray 5 No Paper Sensor
9	–	Tray 5 Feed Assembly (P/O PL 2.11 Item 1)
10	–	Spring (P/O PL 2.11 Item 1)
11	–	Pinch Roll 1/2 (P/O PL 2.11 Item 1)
12	–	Chute (P/O PL 2.11 Item 1)
13	–	Guide (P/O PL 2.11 Item 1)
14	–	Shaft (P/O PL 2.11 Item 1)
15	–	Spring (P/O PL 2.11 Item 1)
16	–	Spacer (P/O PL 2.11 Item 1)
17	–	Pinch Roll 3 (P/O PL 2.11 Item 1)



0502012C - SPD

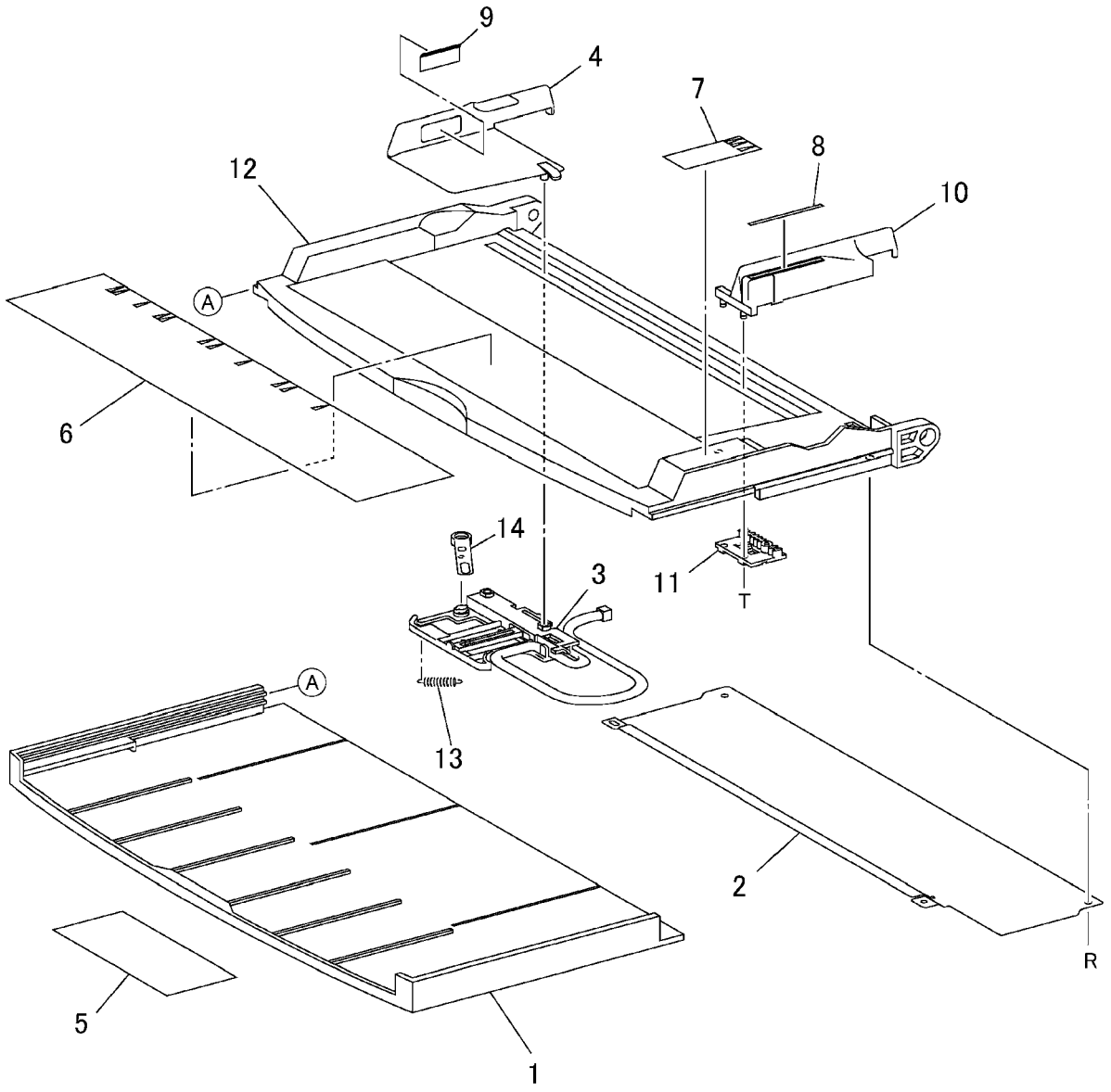
PL 2.13 Tray 5 Feed Assembly

Item	Part	Description
1	038E23560	Paper Guide
2	–	Takeaway Roll (P/O PL 2.12 Item 1)
3	–	Bearing (P/O PL 2.12 Item 1)
4	–	Gear (P/O PL 2.12 Item 1)
5	–	Pick-up Gear (P/O PL 2.12 Item 1)
6	–	Cam Gear (P/O PL 2.12 Item 1)
7	–	Stop Lever (P/O PL 2.12 Item 1)
8	–	Gear Lever (P/O PL 2.12 Item 1)
9	121E92780	Tray 5 Feed Solenoid
10	–	Screw (P/O PL 2.12 Item 1)
11	–	Spring (P/O PL 2.12 Item 1)
12	–	Ground Plate (P/O PL 2.12 Item 1)
13	–	Spring (P/O PL 2.12 Item 1)
14	059K24020	Feed Roll Assembly
15	059K24010	Feed Roll (REP 7.2)
16	–	Cam (P/O PL 2.13 Item 14)
17	–	Cam (P/O PL 2.13 Item 14)
18	–	Shaft (P/O PL 2.13 Item 14)
19	019K08650	Retard Pad
20	–	Spring (P/O PL 2.12 Item 1)
21	–	Bottom Plate (P/O PL 2.12 Item 1)
22	–	Spring (P/O PL 2.12 Item 1)
23	–	Lower Frame (P/O PL 2.12 Item 1)
24	–	Spring (P/O PL 2.12 Item 1)



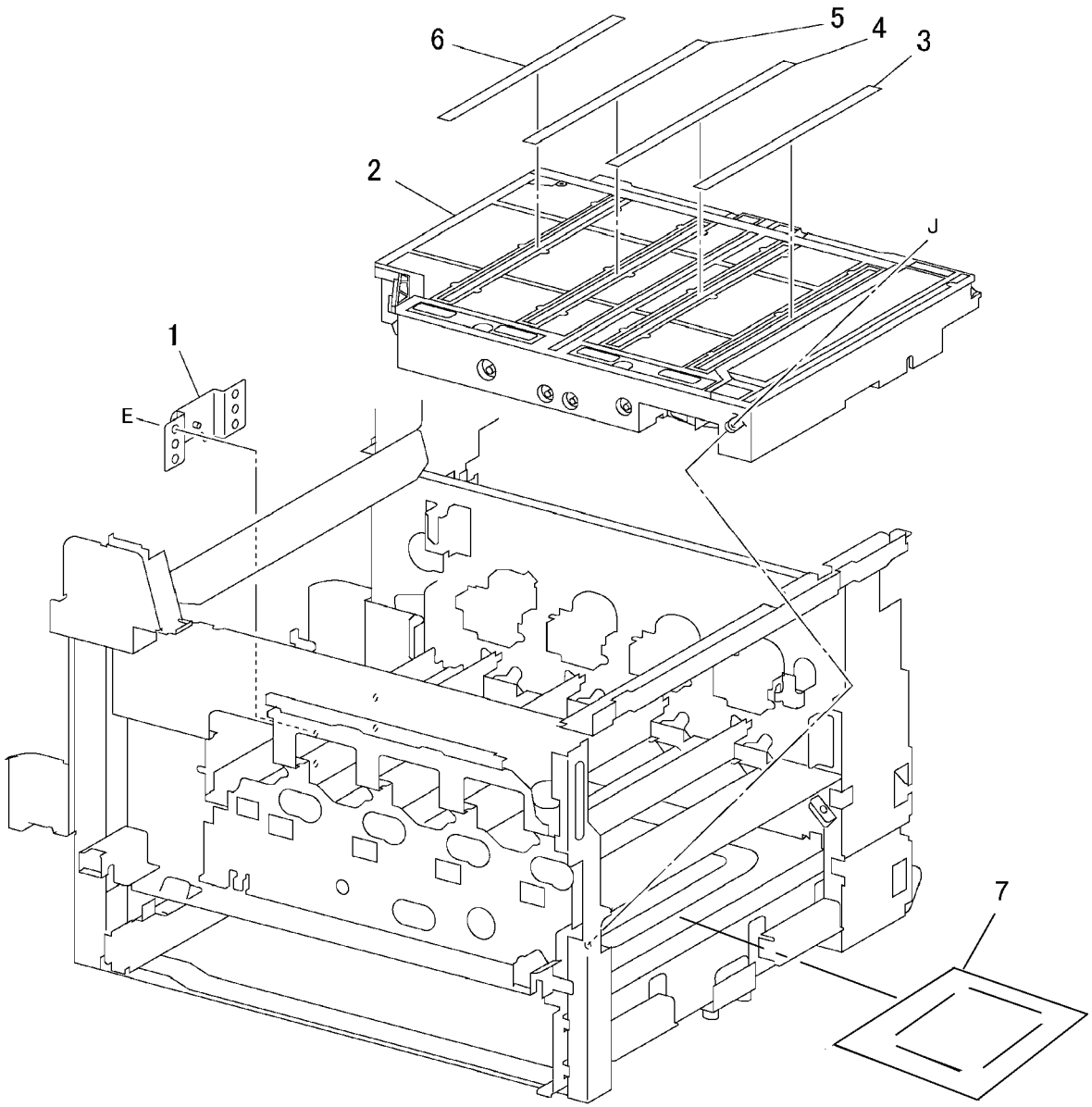
PL 2.14 Tray 5 Assembly

Item	Part	Description
1	–	Lower Tray (P/O PL 2.12 Item 5)
2	–	Cover (P/O PL 2.12 Item 5)
3	–	Paper Size Sensor (P/O PL 2.12 Item 5)
4	–	Side Guide (P/O PL 2.12 Item 5)
5	–	Attention Label (P/O PL 2.12 Item 5)
6	–	Instruction Label (P/O PL 2.12 Item 5)
7	–	Label (P/O PL 2.12 Item 5)
8	–	Label (P/O PL 2.12 Item 5)
9	–	Max Label (P/O PL 2.12 Item 5)
10	–	Registration Guide (P/O PL 2.12 Item 5)
11	–	Holder (P/O PL 2.12 Item 5)
12	–	Tray (P/O PL 2.12 Item 5)
13	–	Spring (P/O PL 2.12 Item 5)
14	–	Link (P/O PL 2.12 Item 5)



PL 3.1 ROS Assembly

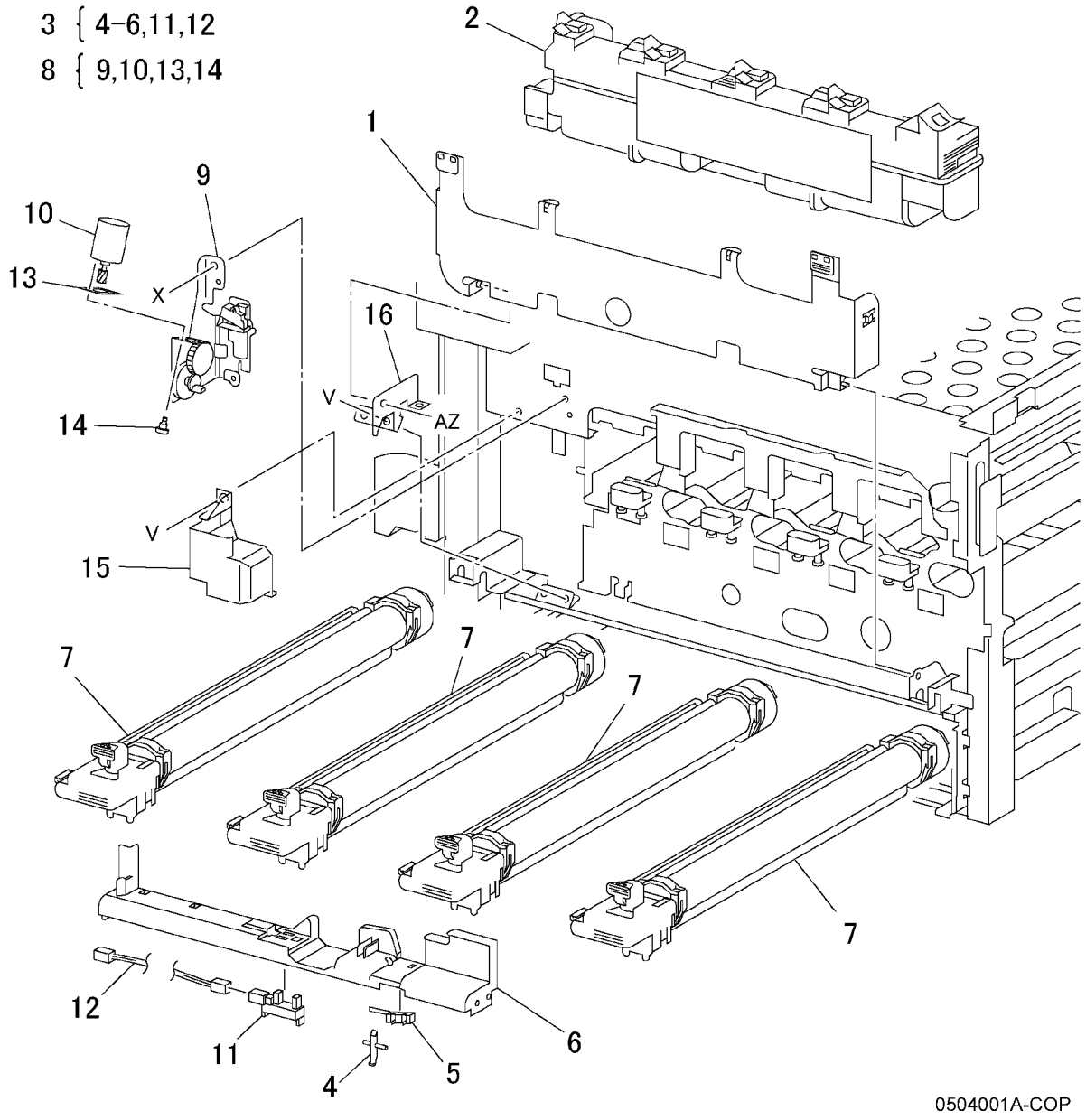
Item	Part	Description
1	–	Bracket (Not Spared)
2	062K16911	ROS Assembly (REP 6.1)
3	–	Seal Glass (Y) (Not Spared)
4	–	Seal Glass (M) (Not Spared)
5	–	Seal Glass (C) (Not Spared)
6	–	Seal Glass (K) (Not Spared)
7	–	M/C Heater (Not Spared)



0503001A-COP

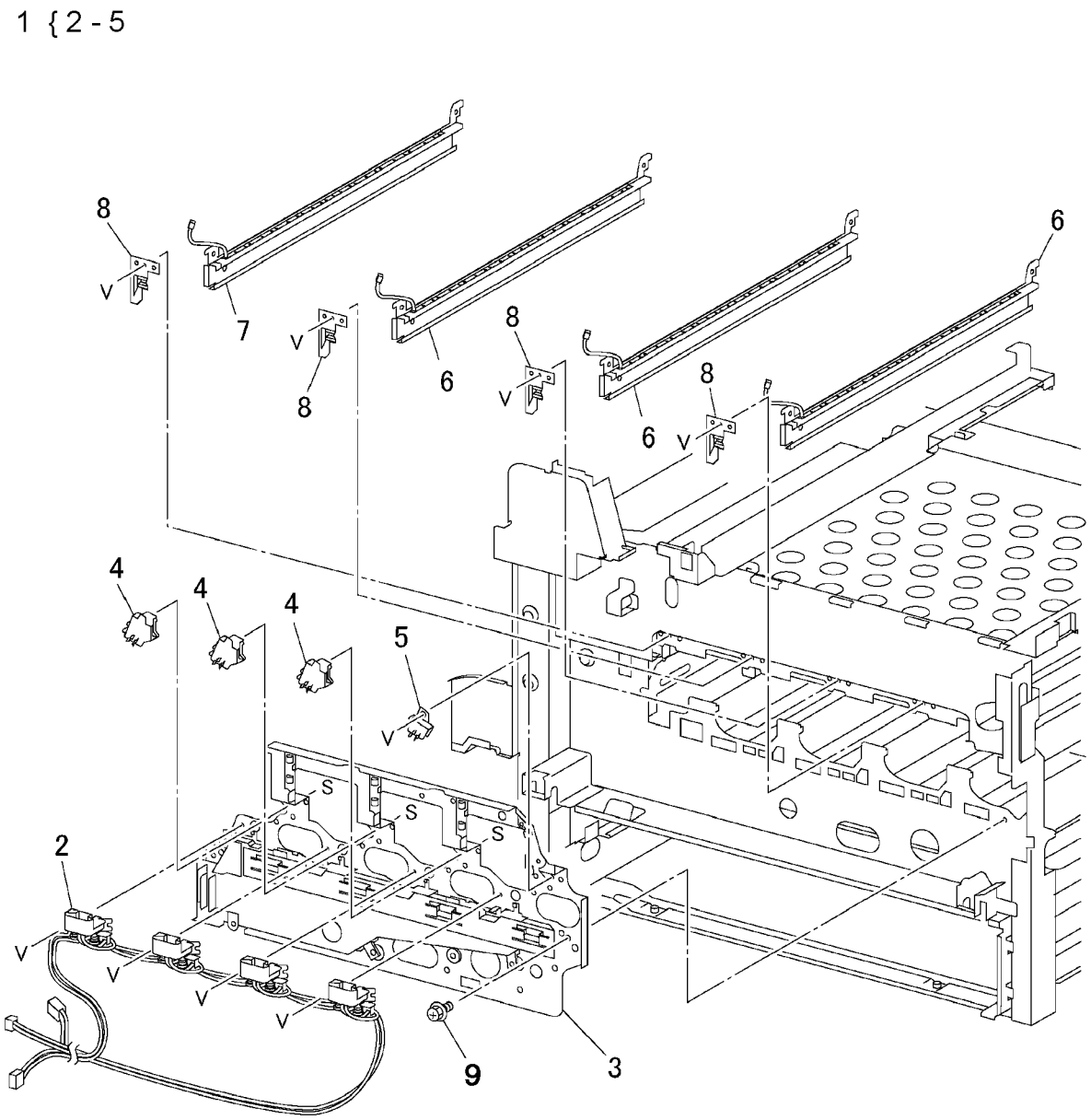
PL 4.1 Xerographic Module: 1 of 2

Item	Part	Description
1	802K47090	Waste Toner Cartridge Cover (REP 9.3)
2	008R12903	Waste Toner Cartridge (REP 9.4)
3	003K86123	Sensor Holder Assembly
4	–	Lever (P/O PL 4.1 Item 3)
5	–	Waste Toner Cartridge Interlock Switch (P/O PL 4.1 Item 3)
6	–	Holder (P/O PL 4.1 Item 3)
7	013R00624	Drum Cartridge (REP 9.1)
8	127K29244	Agitator Motor Assembly (REP 9.13)
9	–	Bracket (P/O PL 4.1 Item 8)
10	–	Agitator Motor (P/O PL 4.1 Item 8)
11	130E91010	Full Toner Sensor (REP 9.5)
12	–	Wire Harness (P/O PL 4.1 Item 3)
13	–	Damper (P/O PL 4.1 Item 8)
14	–	Screw (P/O PL 4.1 Item 8)
15	–	Inner Cover (Not Spared)
16	–	Bracket (Not Spared)



PL 4.2 Xerographic Module: 2 of 2

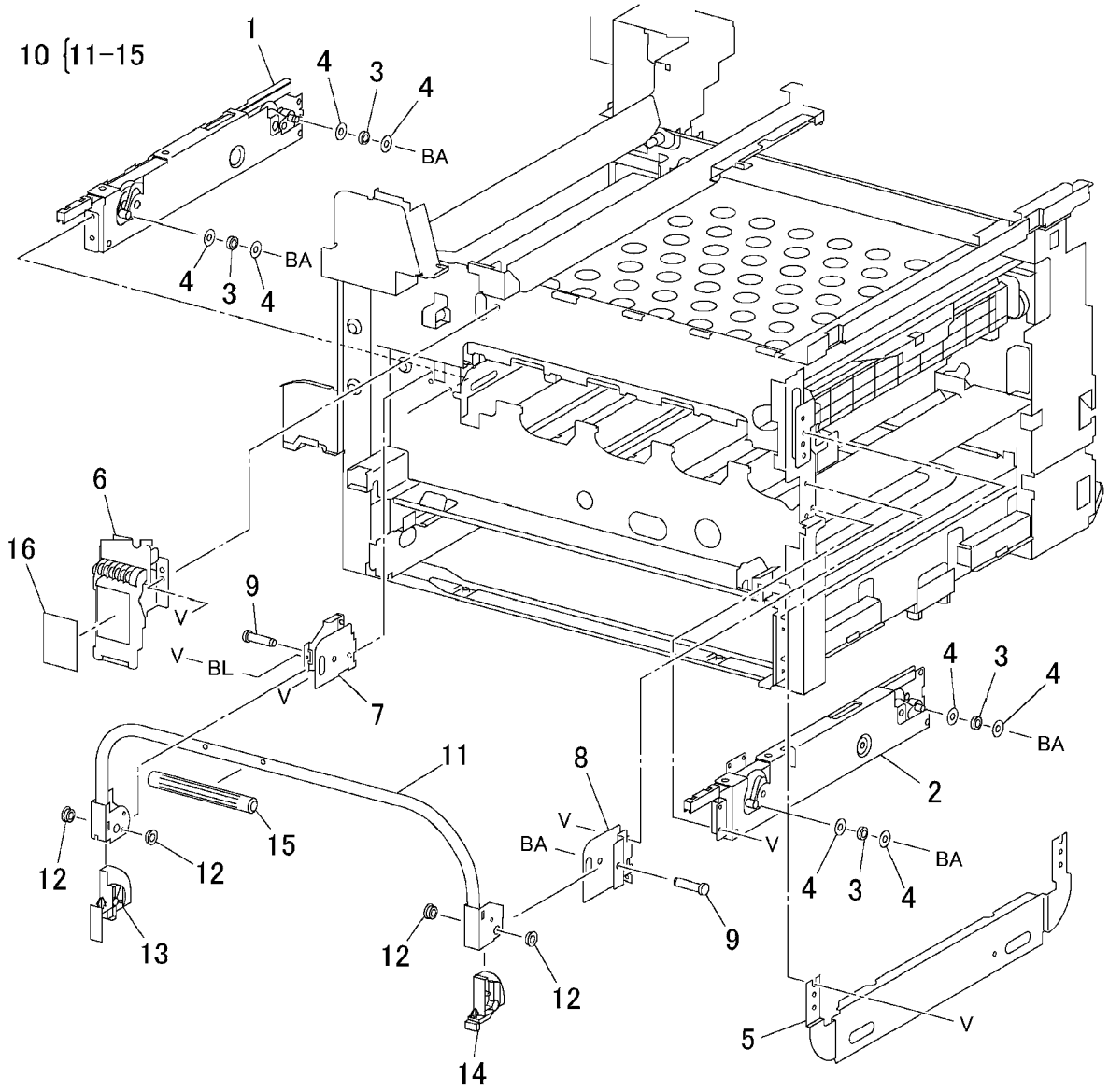
Item	Part	Description
1	015K52324	Plate Assembly (REP 9.8)
2	–	Wire Harness (P/O PL 4.2 Item 1)
3	–	Xero Plate (P/O PL 4.2 Item 1)
4	–	Block (M, C, K) (P/O PL 4.2 Item 1)
5	–	Block (Y) (P/O PL 4.2 Item 1)
6	122K93331	Erase Lamp w/Rail (Y, M, C) (REP 9.25)
7	122K93341	Erase Lamp w/Rail (K)
8	–	Bracket (Not Spared)
9	–	Screw (Not Spared)



0504002A-SPD

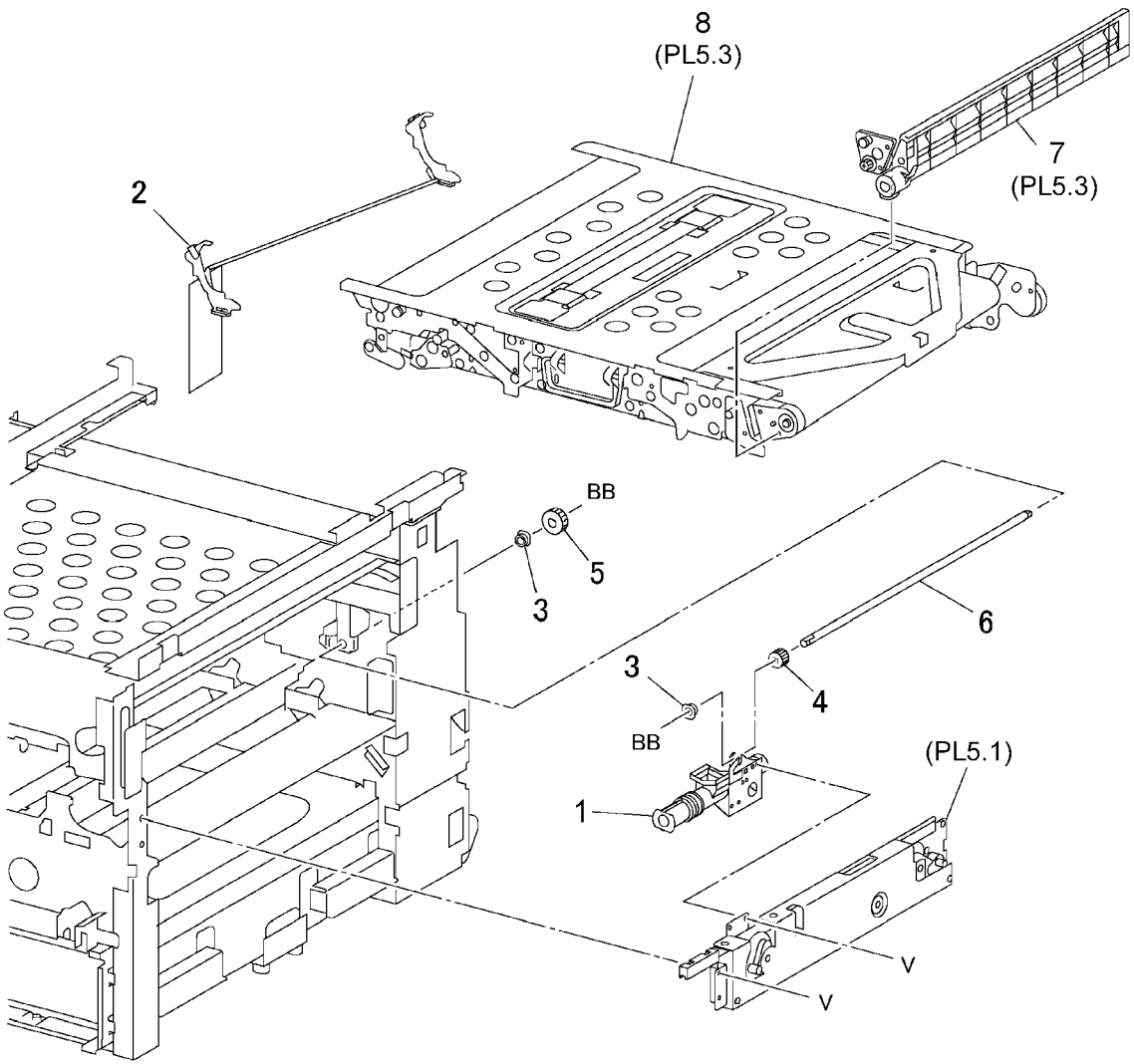
PL 5.1 Lift Unit

Item	Part	Description
1	001K70543	Left Lift Assembly (REP 9.21)
2	001K70552	Right Lift Assembly (REP 9.20)
3	–	Bearing (Not Spared)
4	–	Washer (Not Spared)
5	–	Plate (Not Spared)
6	003K12882	Latch Assembly
7	003E52291	Left Hinge (REP 9.19)
8	003E52301	Right Hinge (REP 9.19)
9	006E71740	Shaft
10	011K94970	Lever Assembly (REP 9.18)
11	–	IBT Cam Lever (P/O PL 5.1 Item 10)
12	–	Bearing (P/O PL 5.1 Item 10)
13	–	Left Cap (P/O PL 5.1 Item 10)
14	–	Right Cap (P/O PL 5.1 Item 10)
15	–	Grip (P/O PL 5.1 Item 10)
16	–	Label (Not Spared)



PL 5.2 IBT Unit

Item	Part	Description
1	802K12951	Auger Assembly (REP 9.17)
2	003K12650	Removal Support
3	–	Bearing (Not Spared)
4	007E61910	Gear (14T)
5	007E61890	Gear (18T)
6	–	Shaft (Not Spared)
7	042K92445	IBT Belt Cleaner Assembly
8	604K20892	IBT Belt Assembly (REP 9.15)



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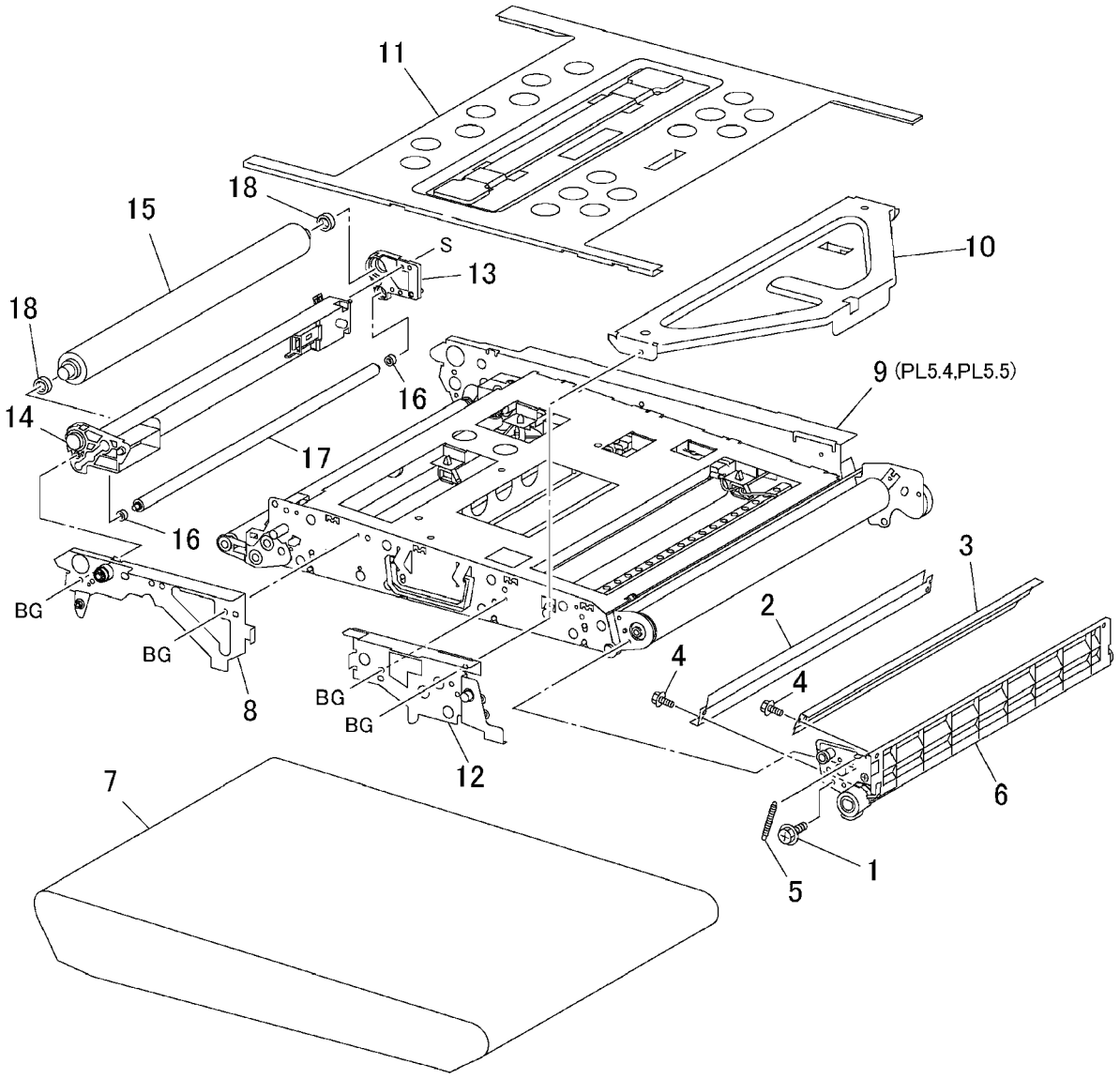
PL 5.3 IBT Belt Assembly

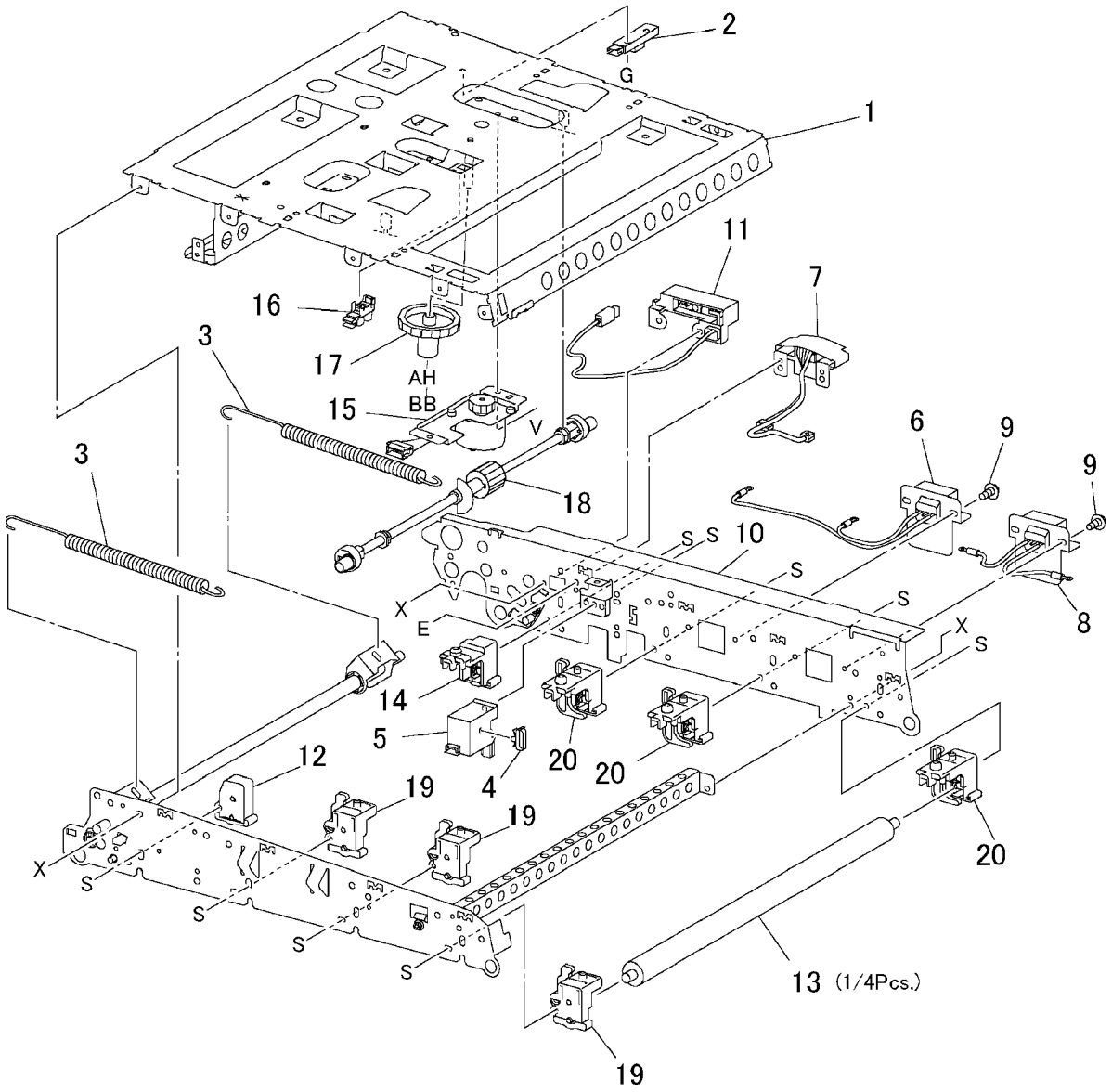
Item	Part	Description
1	–	Screw (P/O PL 5.2 Item 7) (REP 9.16)
2	–	Blade (P/O PL 5.2 Item 7)
3	–	Seal (P/O PL 5.2 Item 7)
4	–	Screw (P/O PL 5.2 Item 7)
5	–	Spring (P/O PL 5.2 Item 7)
6	–	Housing (P/O PL 5.2 Item 7)
7	064K91451	Transfer Belt (REP 9.22)
8	–	Support (P/O PL 5.2 Item 7)
9	–	IBT Frame (P/O PL 5.2 Item 7)
10	–	Right Handle (P/O PL 5.2 Item 7)
11	–	Left Handle (P/O PL 5.2 Item 7)
12	–	Bracket (P/O PL 5.2 Item 7)
13	–	Housing (P/O PL 5.2 Item 7)
14	–	Housing (P/O PL 5.2 Item 7)
15	059K23150	Backup Roll
16	–	Bearing (P/O PL 5.2 Item 7)
17	–	Pre Roll (P/O PL 5.2 Item 7)
18	013E18980	Bearing



0505003A-IMP

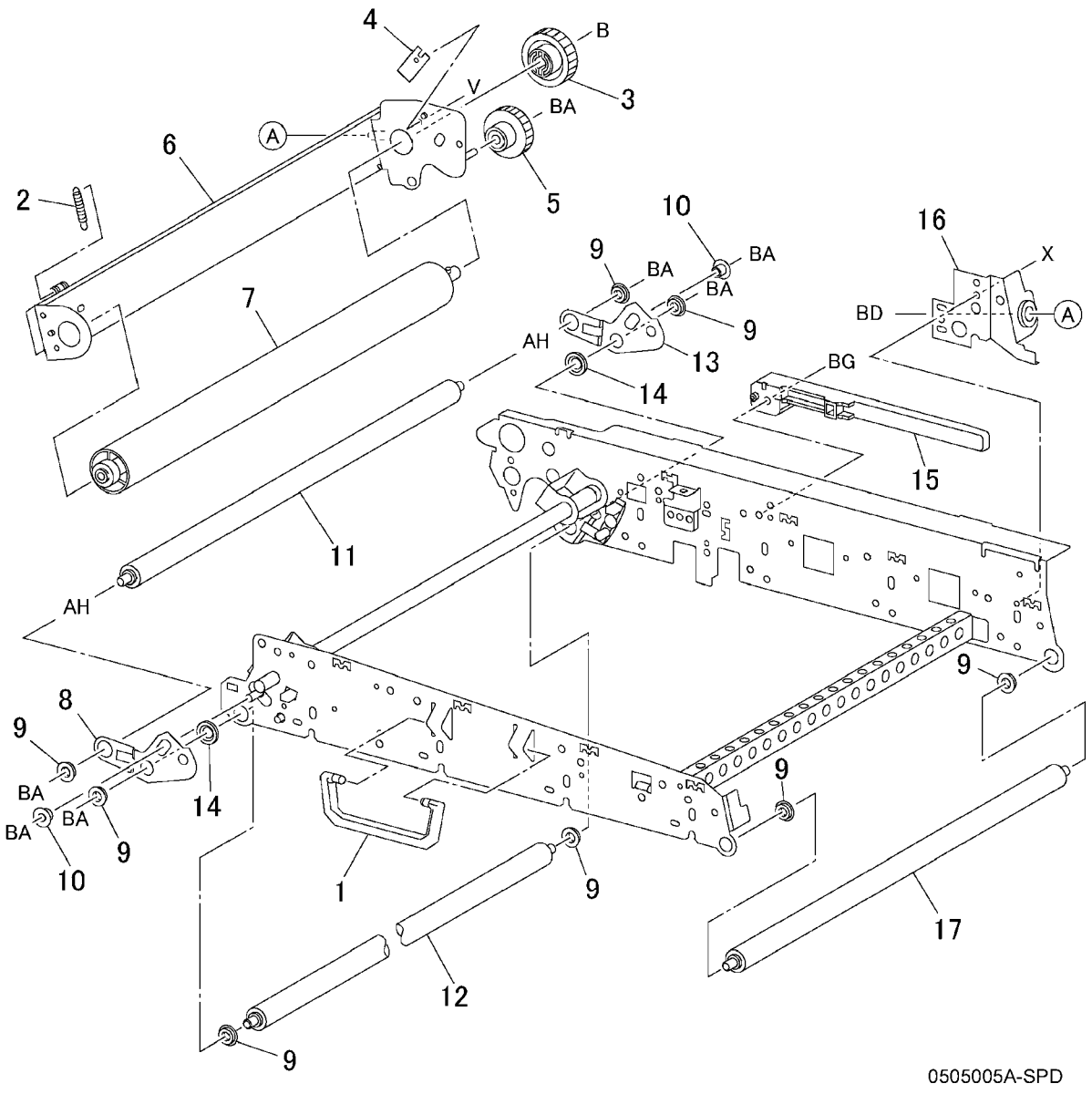
PL 5.4 IBT Frame Assembly: 1 of 2

Item	Part	Description
1	–	Frame (P/O PL 5.2 Item 7)
2	130E84270	IBT Home Sensor
3	–	Spring (P/O PL 5.2 Item 7)
4	–	Clamp (P/O PL 5.2 Item 7)
5	130K60830	IBT Edge Sensor
6	962K35480	Connector (C, K)
7	–	Connector (P/O PL 5.2 Item 7)
8	962K35490	Connector (Y, M)
9	–	Screw (P/O PL 5.2 Item 7)
10	–	Rear Frame (P/O PL 5.2 Item 7)
11	–	Connector (P/O PL 5.2 Item 7)
12	019K98201	Front Holder
13	059K36250	1st BTR Roll (REP 9.23)
14	019K98941	Rear Holder
15	127K33950	Retract Motor
16	130E82190	Retract Sensor
17	–	Worm Gear (P/O PL 5.2 Item 7)
18	–	Retract Shaft (P/O PL 5.2 Item 7) (REP 9.27)
19	019K97550	Front Holder
20	019K98931	Rear Holder



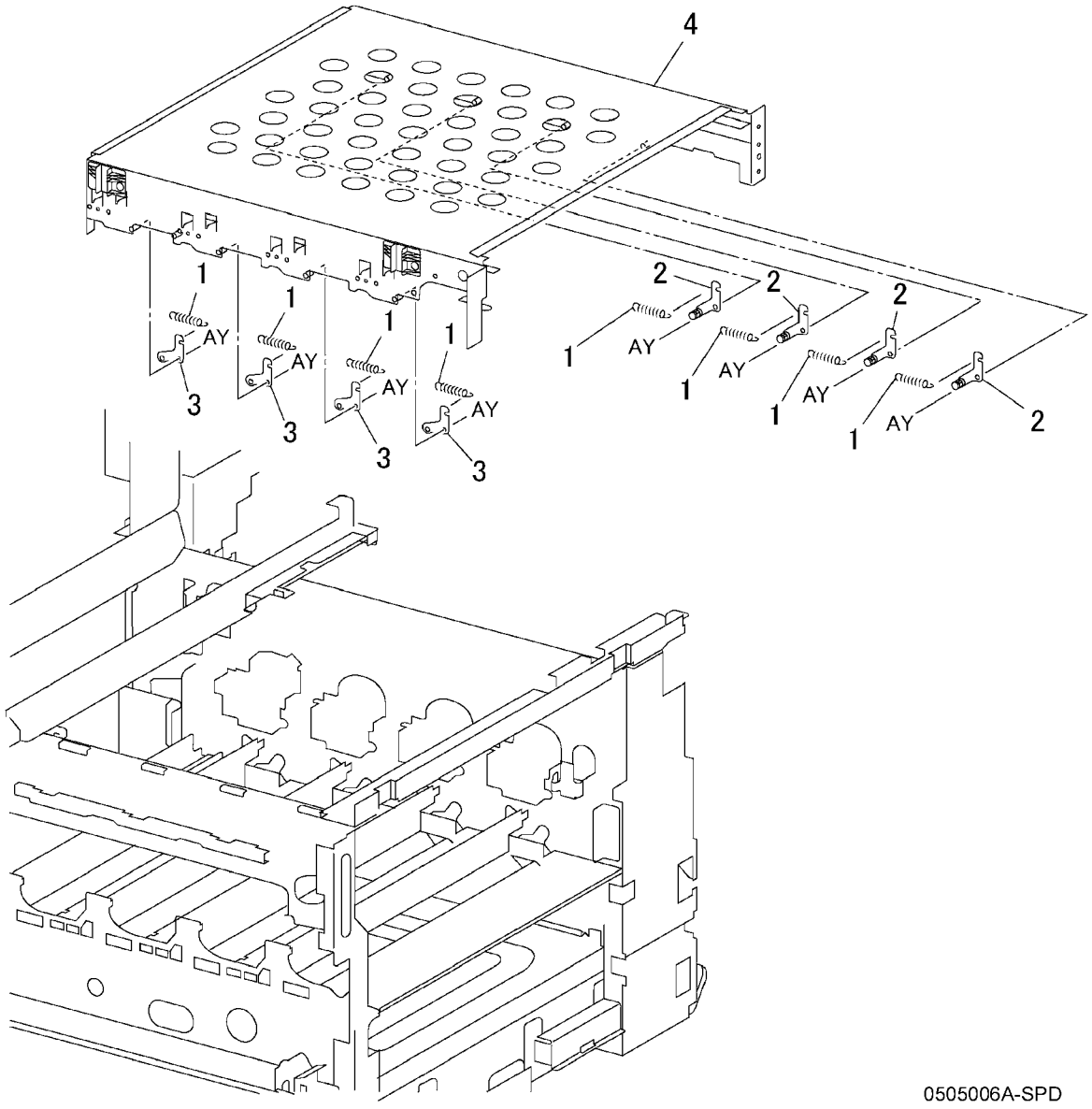
PL 5.5 IBT Frame Assembly: 2 of 2

Item	Part	Description
1	–	Handle (P/O PL 5.2 Item 7)
2	–	Spring (P/O PL 5.2 Item 7)
3	–	Gear (P/O PL 5.2 Item 7)
4	–	Plate (P/O PL 5.2 Item 7)
5	–	Gear (P/O PL 5.2 Item 7)
6	–	Bracket (P/O PL 5.2 Item 7)
7	–	Top Roll (P/O PL 5.2 Item 7)
8	–	Front Bracket (P/O PL 5.2 Item 7)
9	–	Bearing (P/O PL 5.2 Item 7)
10	–	Bearing (P/O PL 5.2 Item 7)
11	–	Roll (P/O PL 5.2 Item 7)
12	–	Roll (P/O PL 5.2 Item 7)
13	–	Rear Bracket (P/O PL 5.2 Item 7)
14	–	Collar (P/O PL 5.2 Item 7)
15	–	Latch (P/O PL 5.2 Item 7)
16	–	Bracket (P/O PL 5.2 Item 7)
17	–	Roll (P/O PL 5.2 Item 7)



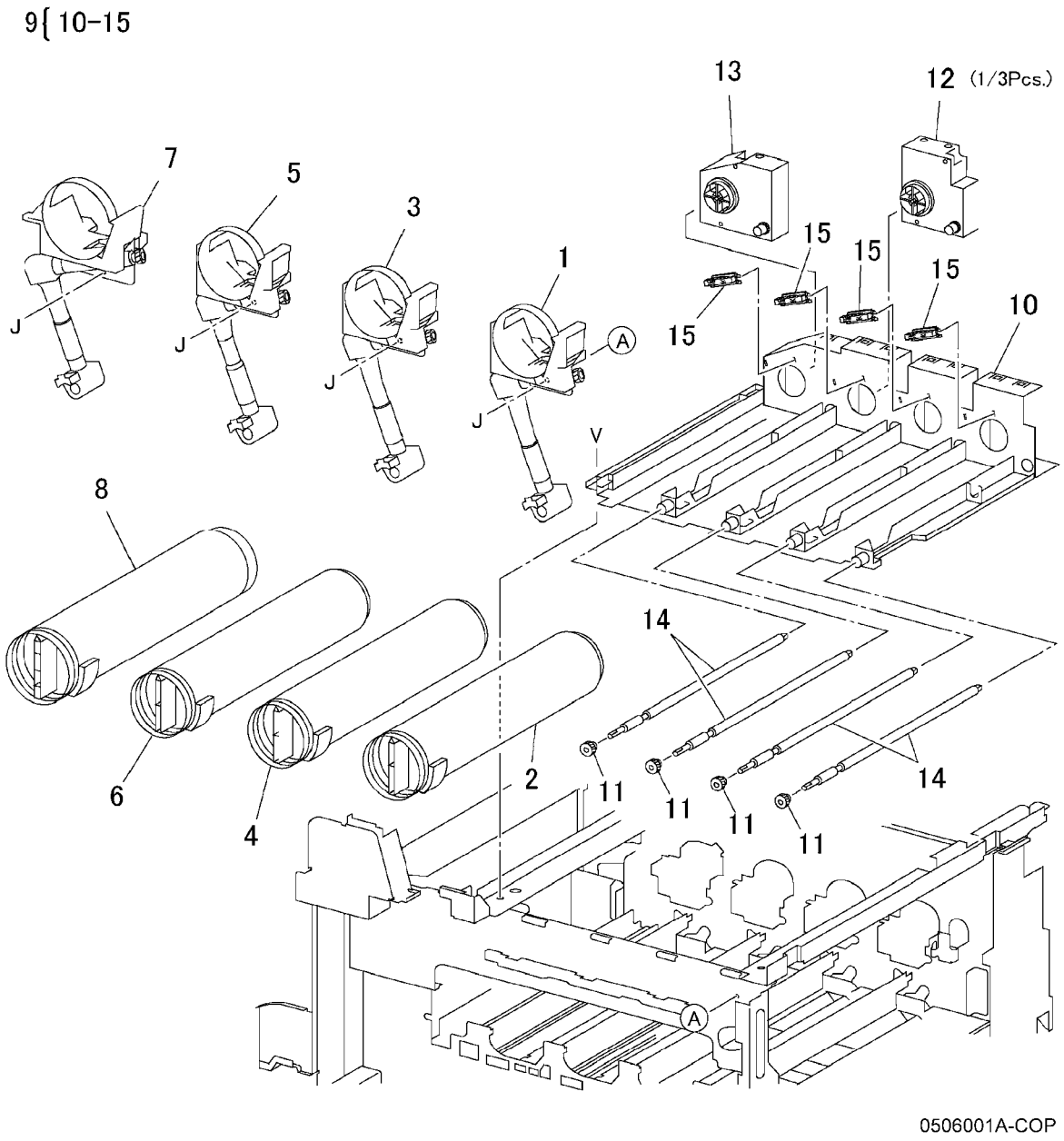
PL 5.6 IBT Elevator

Item	Part	Description
1	809E26330	Spring
2	015K49481	Rear Plunger
3	015K49311	Front Plunger
4	–	Frame (Not Spared)



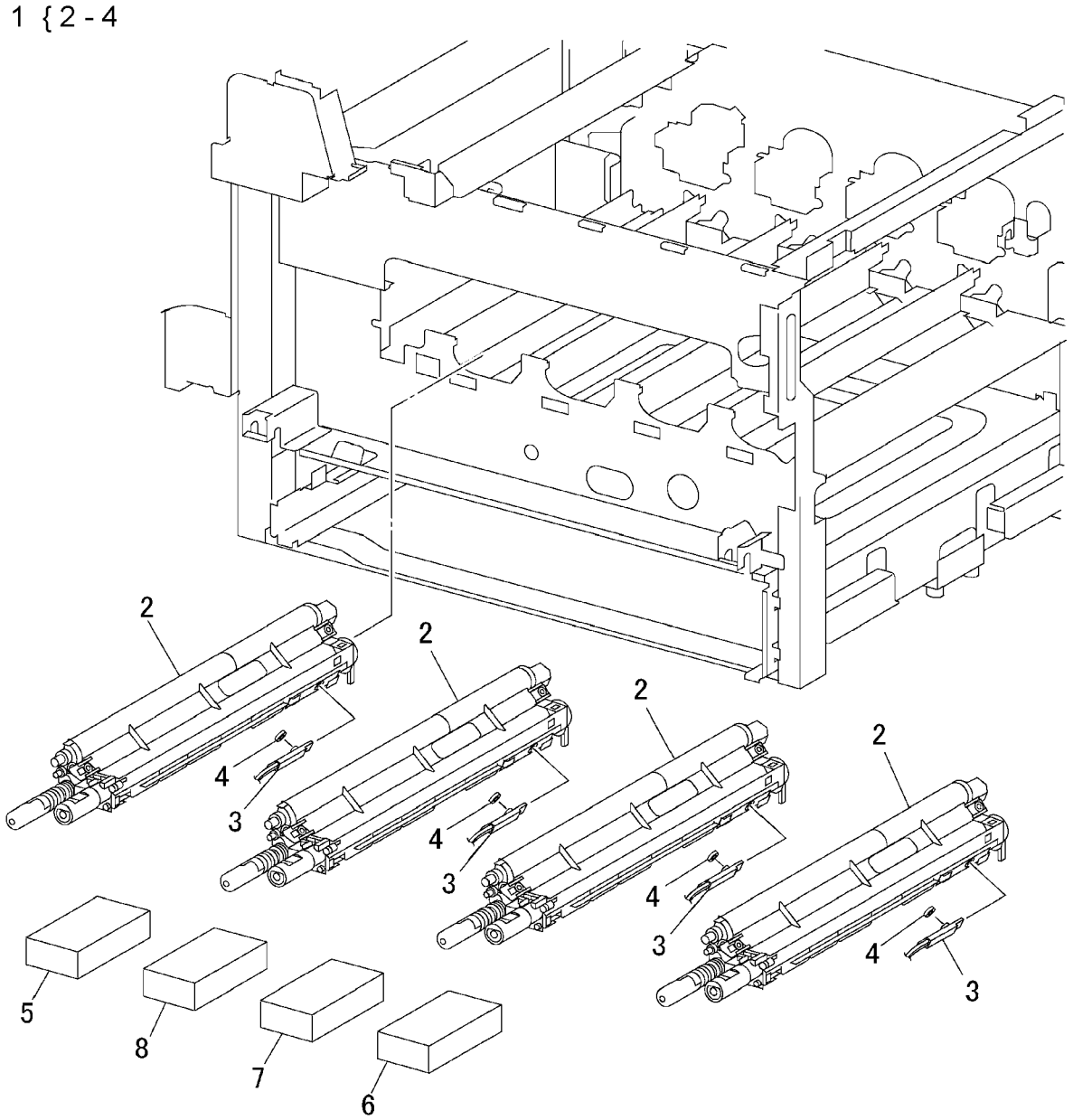
PL 6.1 Developer Unit: 1 of 2

Item	Part	Description
1	802K63551	Dispenser Assembly (Y) (110V) (WC7446 Only)
–	802K67651	Dispenser Assembly (Y) (WC7228/7235/7245/7328/7335/7345 Only) (REP 9.7)
2	006R01178	Toner Cartridge (Y) (220V)
–	006R01283	Toner Cartridge (Y) (110V)
3	802K63561	Dispenser Assembly (M) (110V) (WC7446 Only)
–	802K67661	Dispenser Assembly (M) (WC7228/7235/7245/7328/7335/7345 Only) (REP 9.7)
4	006R01177	Toner Cartridge (M) (110V)
–	006R01282	Toner Cartridge (M) (110V)
5	802K63571	Dispenser Assembly (C) (110V) (WC7346 Only)
–	802K67671	Toner Dispenser (C) (220V) (REP 9.7)
6	006R01176	Toner Cartridge (C) (220V)
–	006R01281	Toner Cartridge (C) (110V)
7	802K63581	Dispenser Assembly (K) (110V) (WC7346 Only)
–	802K67681	Dispenser Assembly (K) (220V) (REP 9.7)
8	006R01175	Toner Cartridge (K) (220V)
–	006R01280	Toner Cartridge (K) (110V)
9	802K33094	Toner Dispenser Base Assembly (110V) (WC7328/7335/7345 ONLY) (REP 9.11)
–	802K89081	Toner Dispenser Base Assembly (220V) (REP 9.11)
10	–	Toner Dispenser Base (P/O PL 6.1 Item 9)
11	007E64500	Gear
12	127K33932	Toner Dispenser Motor (Y, M, C)
13	127K33942	Toner Dispenser Motor (K)
14	–	Shaft (P/O PL 6.1 Item 9)
15	116K90811	New Cartridge Detect Switch



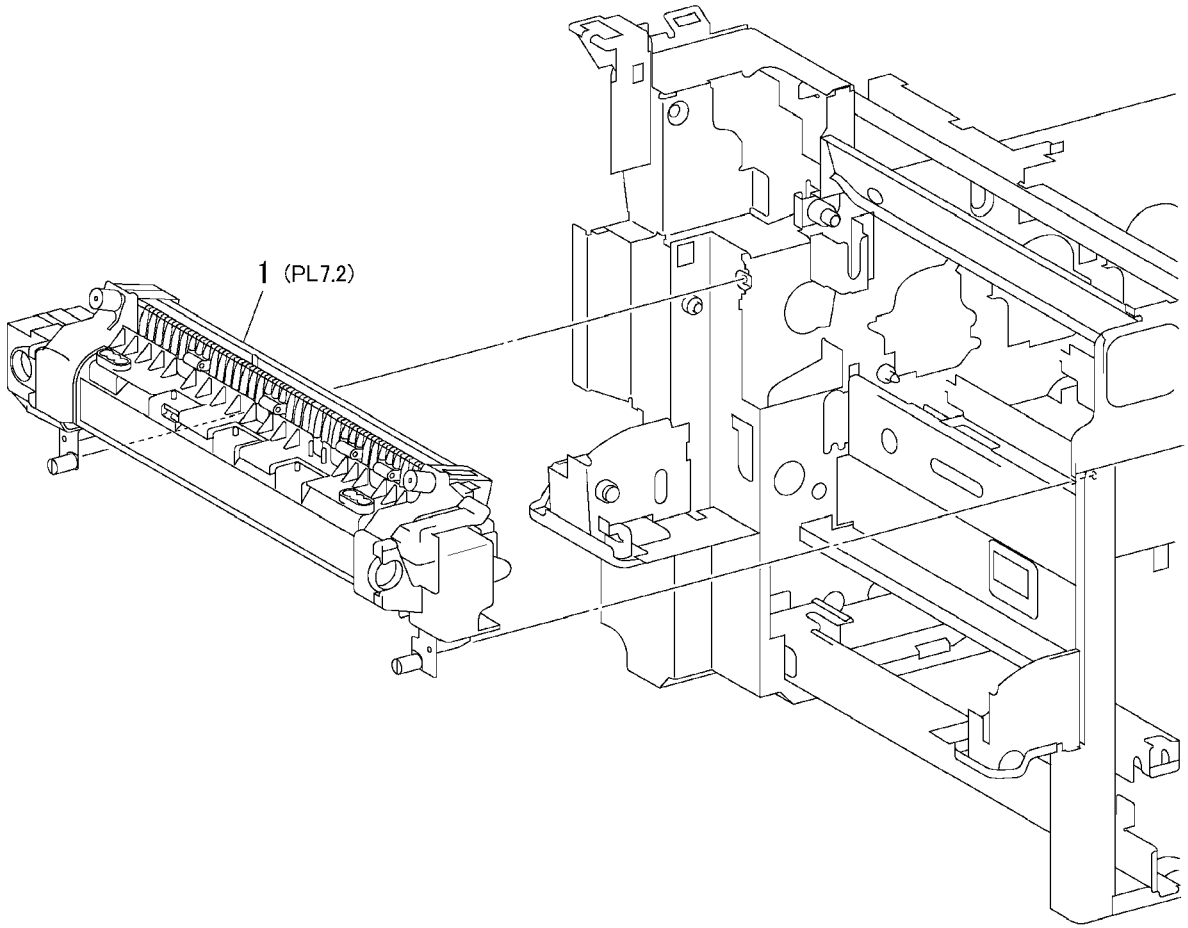
PL 6.2 Developer Unit: 2 of 2

Item	Part	Description
1	802K60194	Developer Housing (Y, M, K, C) (WC7228/7235/7245/7328/7335/7345 Only) (REP 9.9)
–	848K06690	Developer Housing (WC7346 Only)
2	–	Developer Housing (P/O PL 6.2 Item 1)
3	130K63000	ATC Sensor (Y, M, K, C) (REP 9.26)
4	035E65010	Seal
5	604K22550	Developer (K) (REP 9.10)
6	604K22520	Developer (Y) (REP 9.10)
7	604K22530	Developer (M) (REP 9.10)
8	604K22540	Developer (C) (REP 9.10)



PL 7.1 Fuser Assembly: 1 of 2

Item	Part	Description
1	008R13028	Fuser Assembly (220V) (WC7228/7235/7245/7328/7335/7345 Only) (REP 10.1)
–	008R13040	Fuser Assembly (110V) (WC7328/7335/7345 Only) (REP 10.1)
–	008R13055	Fuser Assembly (110V) (WC7346 Only) (REP 10.1)
–	008R13056	Fuser Assembly (220V) (WC7346 Only) (REP 10.1)



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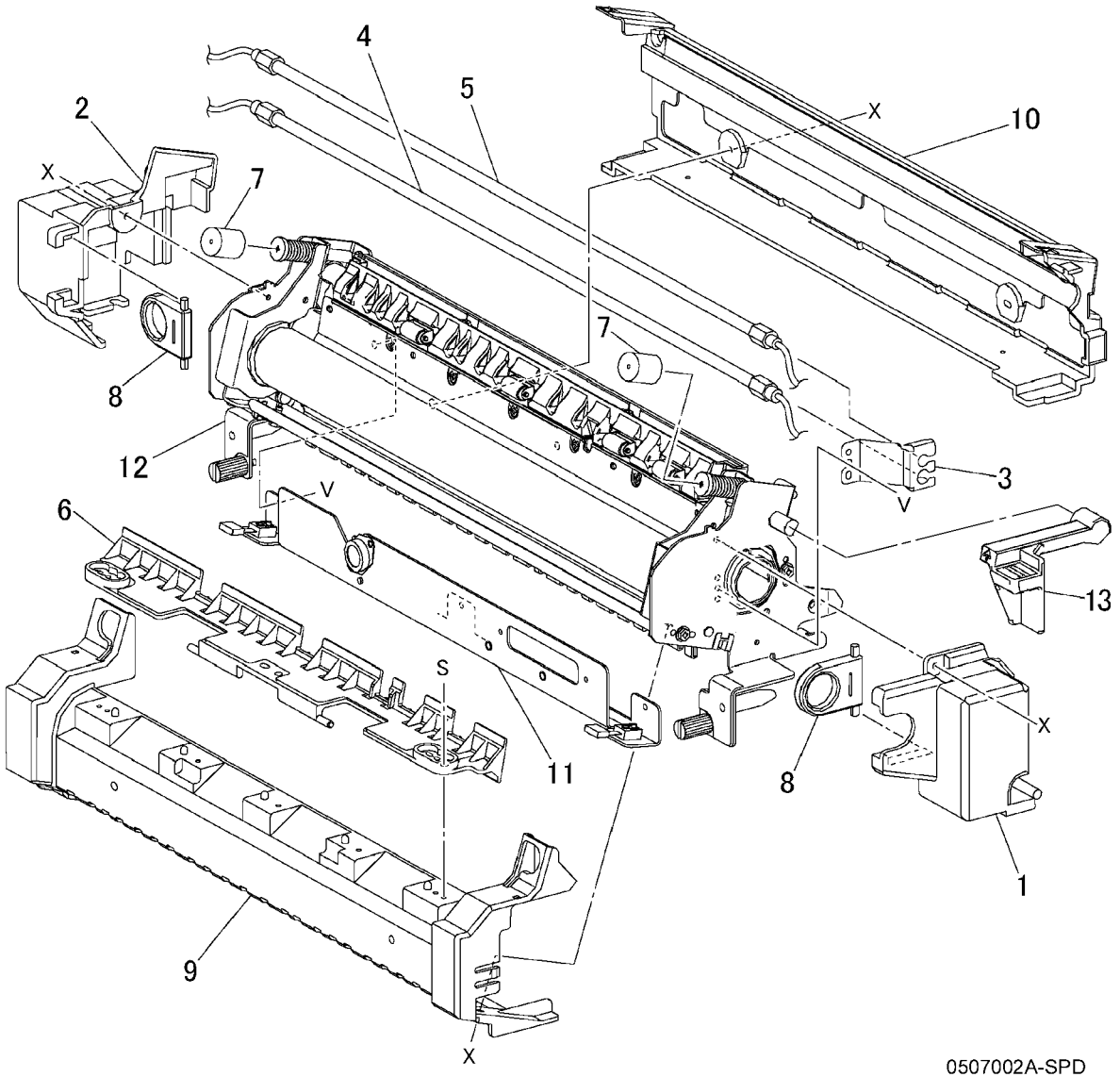
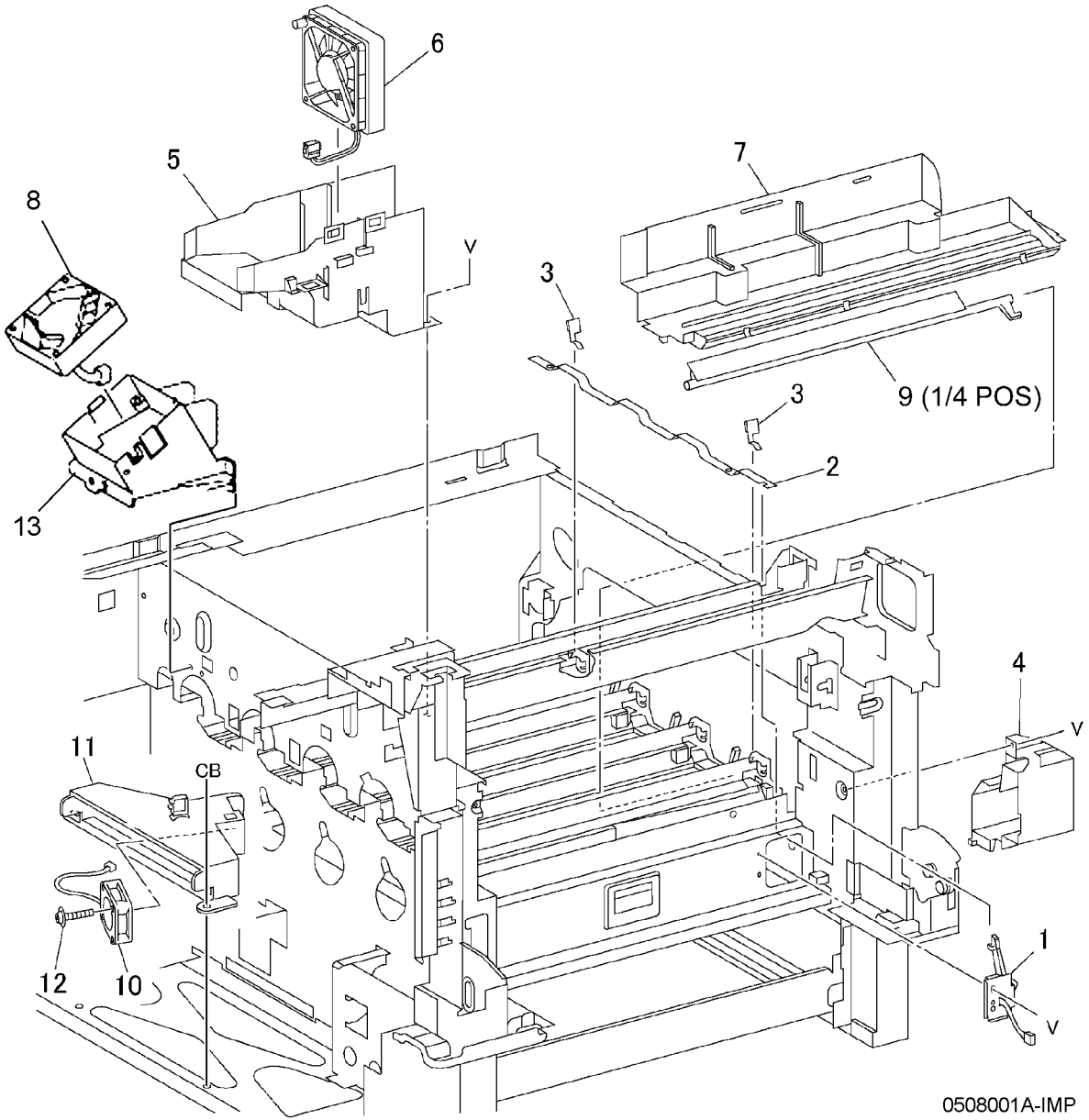
PL 7.2 Fuser Assembly: 2 of 2

Item	Part	Description
1	–	Front Cover (P/O PL 7.1 Item 1)
2	–	Rear Cover (P/O PL 7.1 Item 1)
3	–	Front Lamp Bracket (P/O PL 7.1 Item 1)
4	126K13950	Main Heater Rod (110V) (WC7328/7335/7345 ONLY)
–	126K25410	Main/Sub Heater Rod (220V) (WC7346 Only)
–	126K25400	Main/Sub Heater Rod (110V) (WC7346 Only)
–	126K13980	Main Heater Rod (220V) (WC7228/7235/7245/7328/7335/7345 ONLY) (REP 10.3)
5	126K13960	Sub Heater Rod (110V) (WC7328/7335/7345 ONLY) (REP 10.3)
–	126K13990	Sub Heater Rod (220V) (WC7228/7235/7245/7328/7335/7345 ONLY) (REP 10.3)
6	–	Exit Chute (P/O PL 7.1 Item 1)
7	–	Cap (P/O PL 7.1 Item 1)
8	–	Handle (P/O PL 7.1 Item 1)
9	–	Upper Cover (P/O PL 7.1 Item 1)
10	–	Lower Cover (P/O PL 7.1 Item 1)
11	130K61021	Sensor Assembly
12	–	Fuser Module (P/O PL 7.1 Item 1)
13	003E61390	Fuser Nip Handle



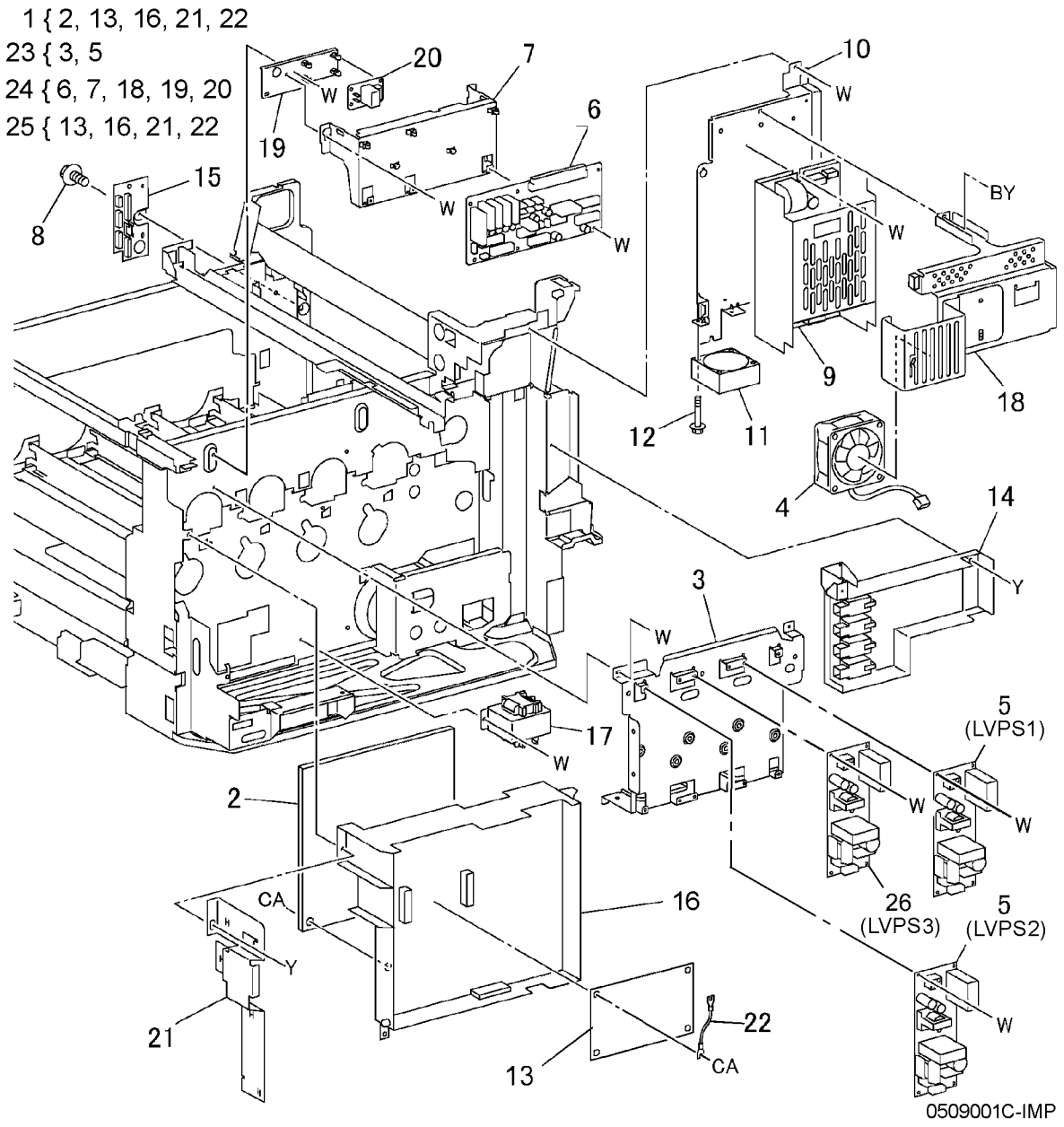
PL 8.1 Air System

Item	Part	Description
1	127K32731	ROS Shutter Motor (REP 9.2)
2	–	Link (Not Spared)
3	–	Spring (Not Spared)
4	–	Inner Cover (Not Spared) (REP 14.10)
5	–	Duct (Not Spared)
6	127K29342	Fuser Fan (110V) (REP 10.2)
–	127K50240	Fuser Fan (220V) (REP 10.2)
7	–	Duct (Not Spared)
8	127K36642	Rear Fan (110V)
–	127K50250	Rear Fan (220V)
9	–	BCR Cleaning Cam (Not Spared)
10	054K26141	Bottom Fan
11	–	Duct (Not Spared)
12	–	Screw (Not Spared)
13	054E21700	Rear Far Duct



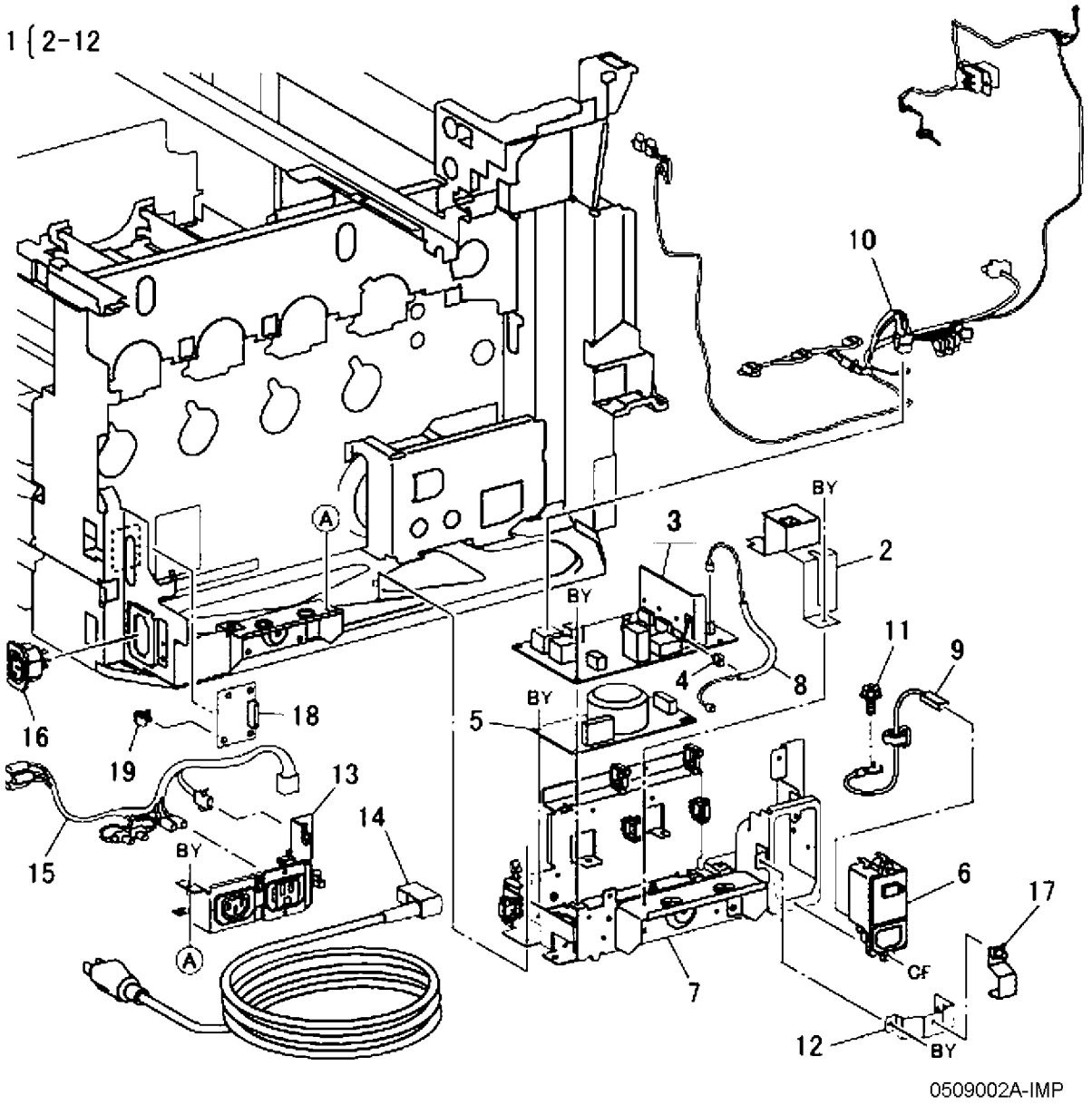
PL 9.1 Electrical Components: 1 of 4

Item	Part	Description
1	105K23140	HVPS Assembly (REP 1.7)
2	105E11972	BCR HVPS (WC7228/7235/7245 ONLY) (REP 1.7)
–	105E17690	BCR HVPS (WC7328/7335/7345 ONLY)
3	–	LVPS Bracket (Not Spared) (REP 1.1)
4	127K49040	Developer Fan
5	105E16280	+5V LVPS1, LVPS2, LVPS3 (220V) (REP 1.4)
6	160K97332	I/F PWB (110V) (WC7328/7335/7345 ONLY) (REP 1.8)
–	960K15800	I/F PWB (MDD) (WC7228/7235/7245/7328/7335/7345/7346) (REP 1.8)
7	–	Bracket Assembly (P/O PL 9.1 Item 24)
8	–	Screw (Not Spared)
9	105E15191	24V LVPS (REP 1.5)
10	–	+24V LVPS Bracket Assembly (Not Spared) (REP 1.9)
11	127K29331	LVPS Fan (110V)
–	127K50280	LVPS Fan (220V)
12	–	Screw (Not Spared)
13	–	HVPS Control PWB (P/O PL 9.1 Item 1)
14	105E11982	BTR1 HVPS (REP 1.10)
15	–	Connector Chassis (Not Spared)
16	105E17820	HVPS Chassis T13 (With Item 13) (REP 1.6)
17	104E94220	Resistor (220V)
18	–	Bracket
19	–	Plate (Not Spared)
20	160K88292	Interlock Relay PWB
21	–	Plate (P/O PL 9.1 Item 1)
22	–	Wire Harness (P/O PL 9.1 Item 1)
23	–	LVPS Assembly (Not Spared)
24	–	MDD I/F PWB Assembly (Not Spared)
25	–	DEV/BTR2/DTS HVPS Assembly (Not Spared)
26	105E16270	+5V LVPS1, LVPS2, LVPS3 (110V) (WC7328/7335/7345/7346 ONLY) (REP 1.7)



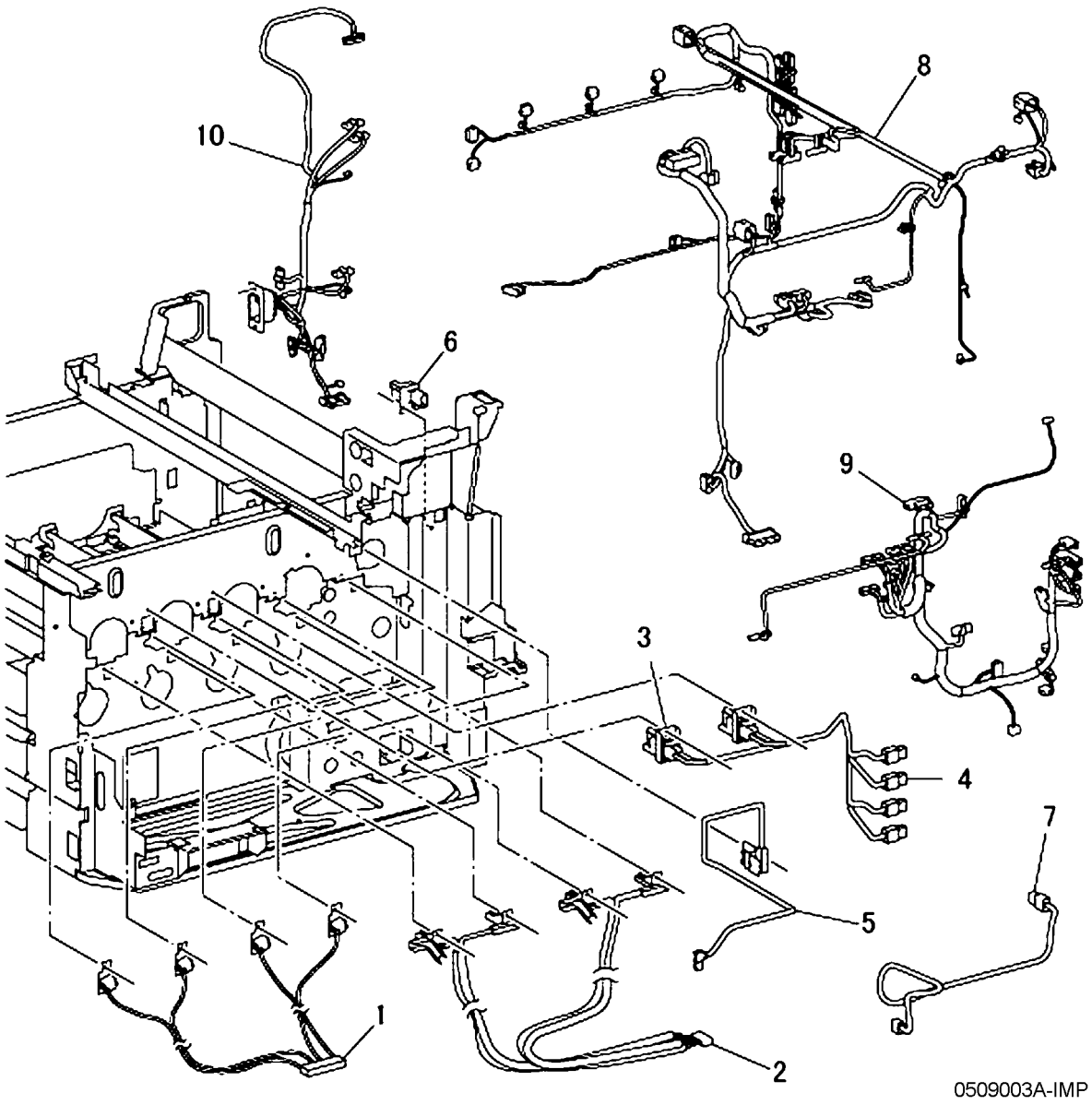
PL 9.2 Electrical Components: 2 of 4

Item	Part	Description
1	101K52403	AC Power Chassis Assembly (110V)
–	101K53982	AC Power Chassis Assembly (220V)
2	–	Bracket (P/O PL 9.2 Item 1)
3	960K28901	AC Drive PWB (110V) (REP 1.11)
–	960K28911	AC Drive PWB (220V) (REP 1.11)
4	–	Clamp (P/O PL 9.2 Item 1)
5	160K97661	Noise Filter PWB (110V)
–	960K28921	Noise Filter PWB (110V) (Alternate)
–	960K17650	Noise Filter PWB (220V)
6	908W01201	GFI Breaker
7	–	AC Power Chassis (P/O PL 9.2 Item 1)
8	–	Wire Harness (P/O PL 9.2 Item 1)
9	962K41680	Wire Harness
10	–	Wire Harness 110V (P/O PL 9.2 Item 1)
–	962K59601	Wire Harness (220V)
11	–	Screw (P/O PL 9.2 Item 1)
12	–	Bracket (P/O PL 9.2 Item 1)
13	074K97292	Outlet Panel
14	117E16210	Power Cord (220V)
–	152S05108	Power Cord (220V, 10A) (WC7228/7235/7245 Only)
–	117K31400	Power Cord (110V)
15	–	Wire Harness (Not Spared)
16	–	Outlet (Not Spared)
17	–	Holder (Not Spared)
18	105E16620	DC Converter PWB
19	–	PWB Support (Not Spared)



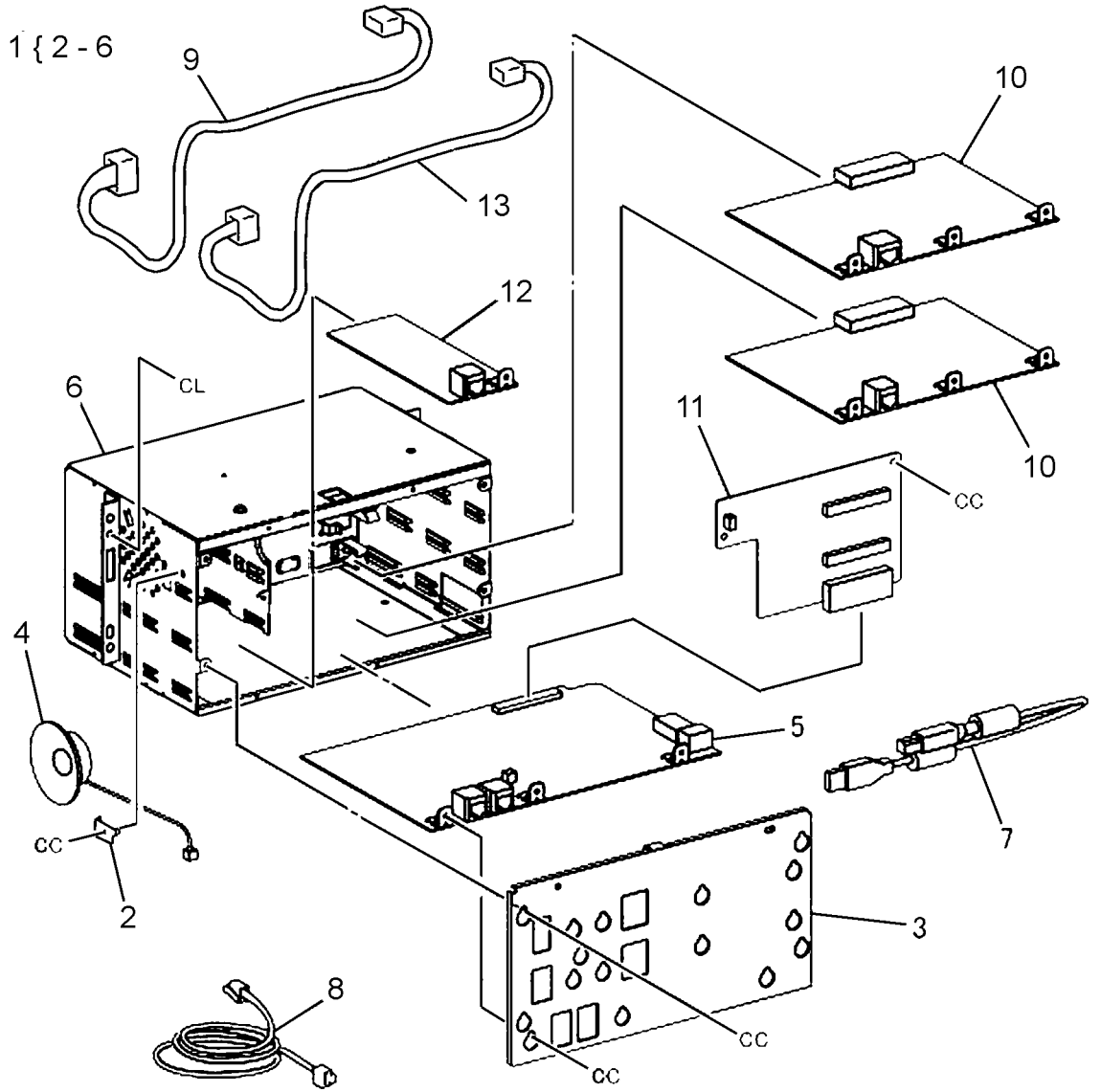
PL 9.3 Electrical Components: 3 of 4

Item	Part	Description
1	014K81604	Developer Block Assembly
2	162K62113	Wire Harness (Xero)
3	162K55941	Developer Wire Harness (Y, M)
4	162K55971	Developer Wire Harness (C, K)
5	162K56000	2nd Wire Harness
6	113K82310	DTS Connector
7	162K56031	DTS Wire Harness
8	962K37974	DC Main Harness
9	962K37980	Wire Harness (LH)
10	962K37991	Wire Harness (RH)



PL 9.4 Electrical Components: 4 of 4

Item	Part	Description
1	–	Fax Box Assembly (Not Spared)
2	–	Bracket (P/O PL 9.4 Item 1)
3	–	Cover (P/O PL 9.4 Item 1)
4	–	Speaker
5	960K24963	Fax PWB (South America Only) (220V)
–	960K32180	Fax PWB (110V)
–	960K32190	Fax PWB (220V)
6	–	Box (P/O PL 9.4 Item 1)
7	117K36340	USB Cable
8	–	Data Cable (Not Spared)
9	962K52300	Wire Harness
10	–	G3 PWB (Not Spared)
11	–	Riser PWB (Not Spared)
12	–	EXT PWB (Not Spared)
13	962K52290	DC Fax 1 Cable



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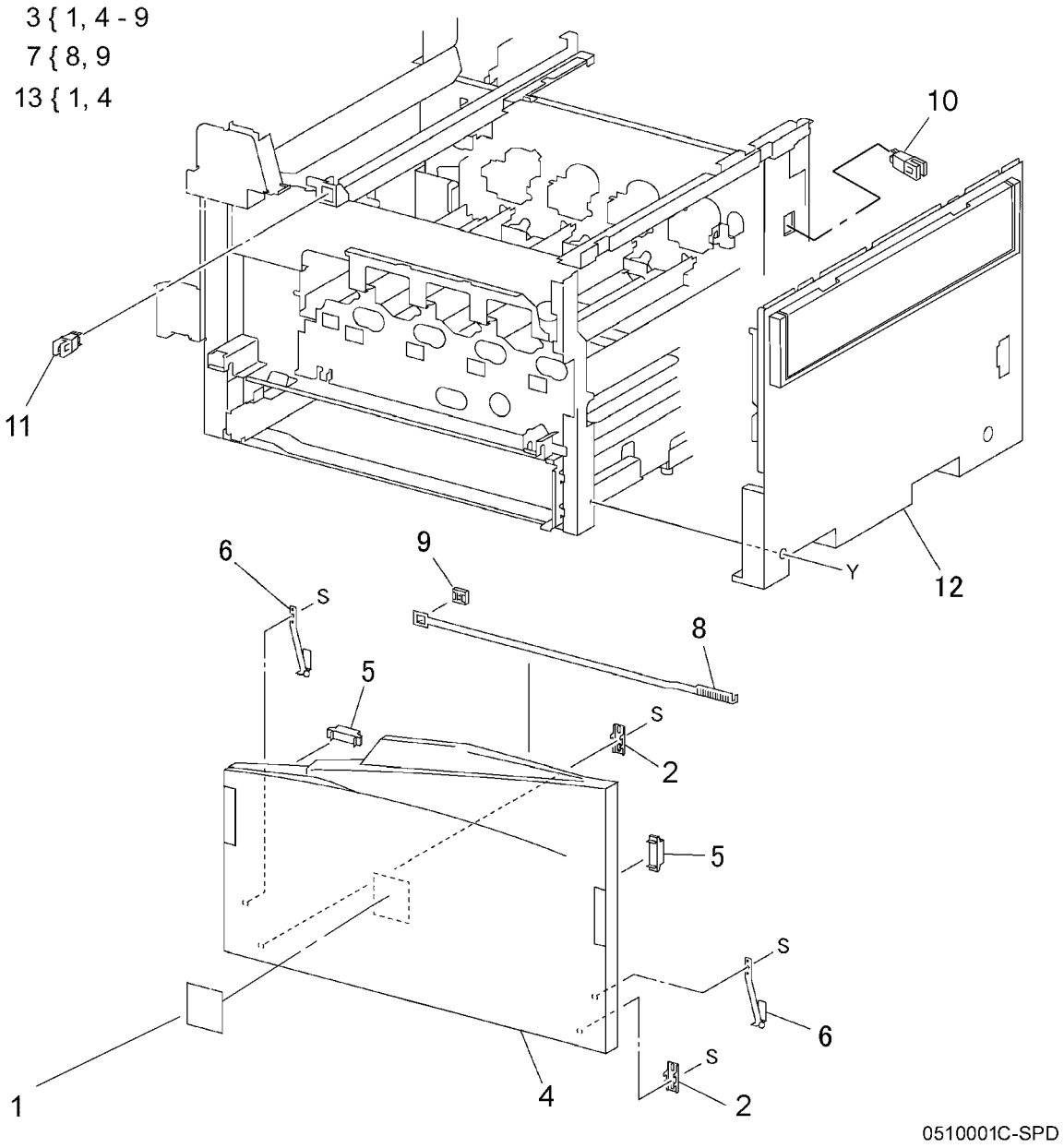
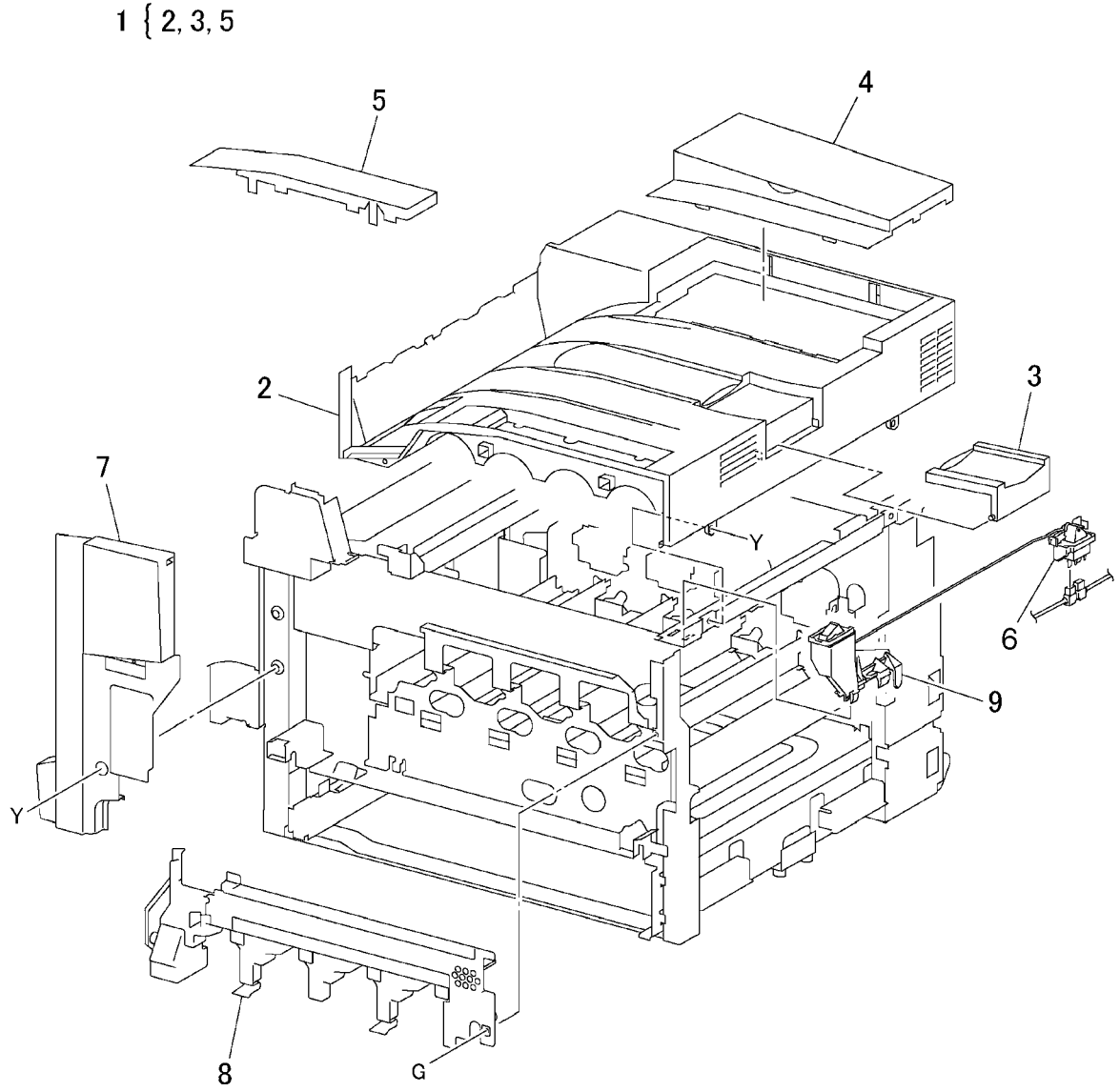
PL 10.1 Front Cover

Item	Part	Description
1	848K06221	Logo Plate
2	–	Hinge (Not Spared)
3	802K52452	Front Cover Assembly (110V) (WC7328/7335/7345 ONLY) (REP 14.7)
–	802K92611	Front Cover Assembly (220V) (WC7228/7235/7245 ONLY) (REP 14.7)
4	–	Front Cover (P/O PL 10.1 Item 3)
5	–	Magnet (P/O PL 10.1 Item 3)
6	–	Strip (P/O PL 10.1 Item 3)
7	042K91990	ROS Cleaner Assembly
8	–	ROS Cleaner (P/O PL 10.1 Item 7)
9	–	Cleaner Base (P/O PL 10.1 Item 7)
10	110E94770	Right Interlock Switch
11	110E97990	Front Interlock Switch
12	802K50161	Right Cover (REP 14.3)
13	848K05500	Front Cover Assembly



PL 10.2 Top Covers and Inner Covers

Item	Part	Description
1	802K49803	Top Cover Assembly (110V) (REP 14.1)
–	802K84701	Top Cover Assembly (220V) (REP 14.1)
2	–	Top Cover (P/O PL 10.2 Item 1)
3	–	Stop (P/O PL 10.2 Item 1)
4	802E12400	Connector Cover (110V)
–	802E90050	Connector Cover (220V)
5	–	Panel (P/O PL 10.2 Item 1)
6	110K11211	Main Power Switch (220V)
–	110K11540	Main Power Switch (110V)
7	802E12432	Fuser Cover (REP 14.8)
8	802K46071	Inner Cover (REP 9.6)
9	012K94760	Link Assembly



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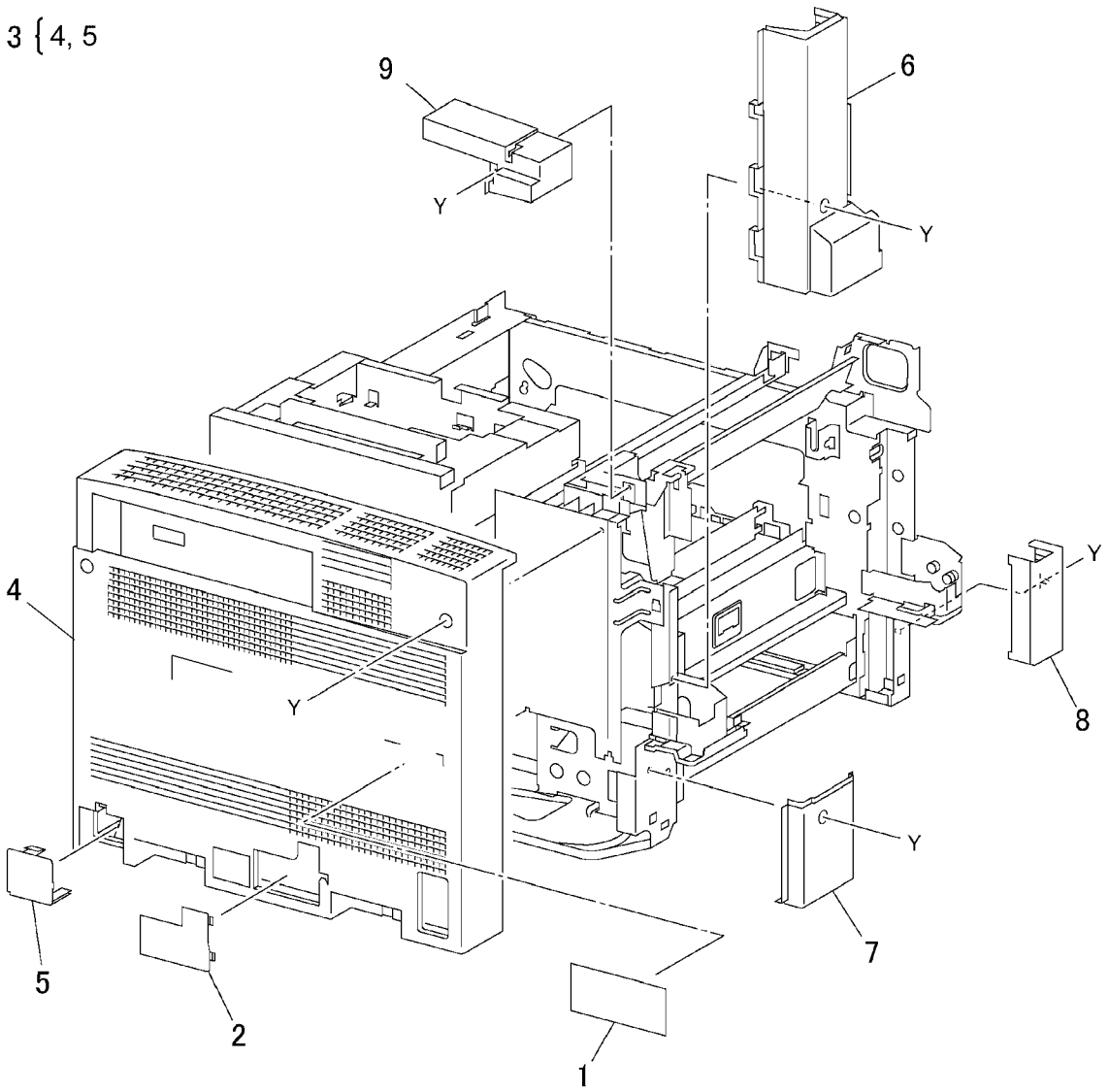
PL 10.3 Rear Cover

Item	Part	Description
1	–	Data Plate (Not Spared)
2	802E33910	Blind Cover
3	848K06660	Rear Cover Assembly (110V)
–	802K93180	Rear Cover Assembly (220V)
4	–	Rear Cover (P/O PL 10.3 Item 3) (REP 14.2)
5	802E12490	Blind Cover
6	802E12501	Rear Left Middle Cover (REP 14.4)
7	–	Rear Left Lower Cover (Not Spared)
8	–	Front Left Cover (Not Spared)
9	802E27861	Rear Left Upper Cover (REP 14.5)



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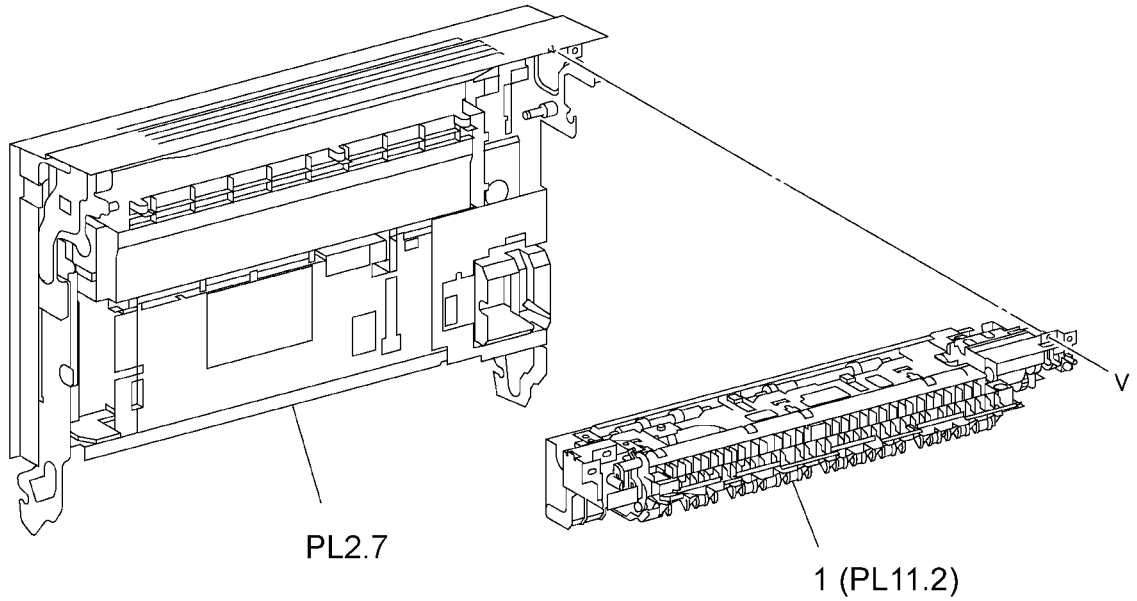
PL 11.1 Inverter Transport: 1 of 2

Item	Part	Description
1	059K36873	Inverter Transport (REP 8.5)



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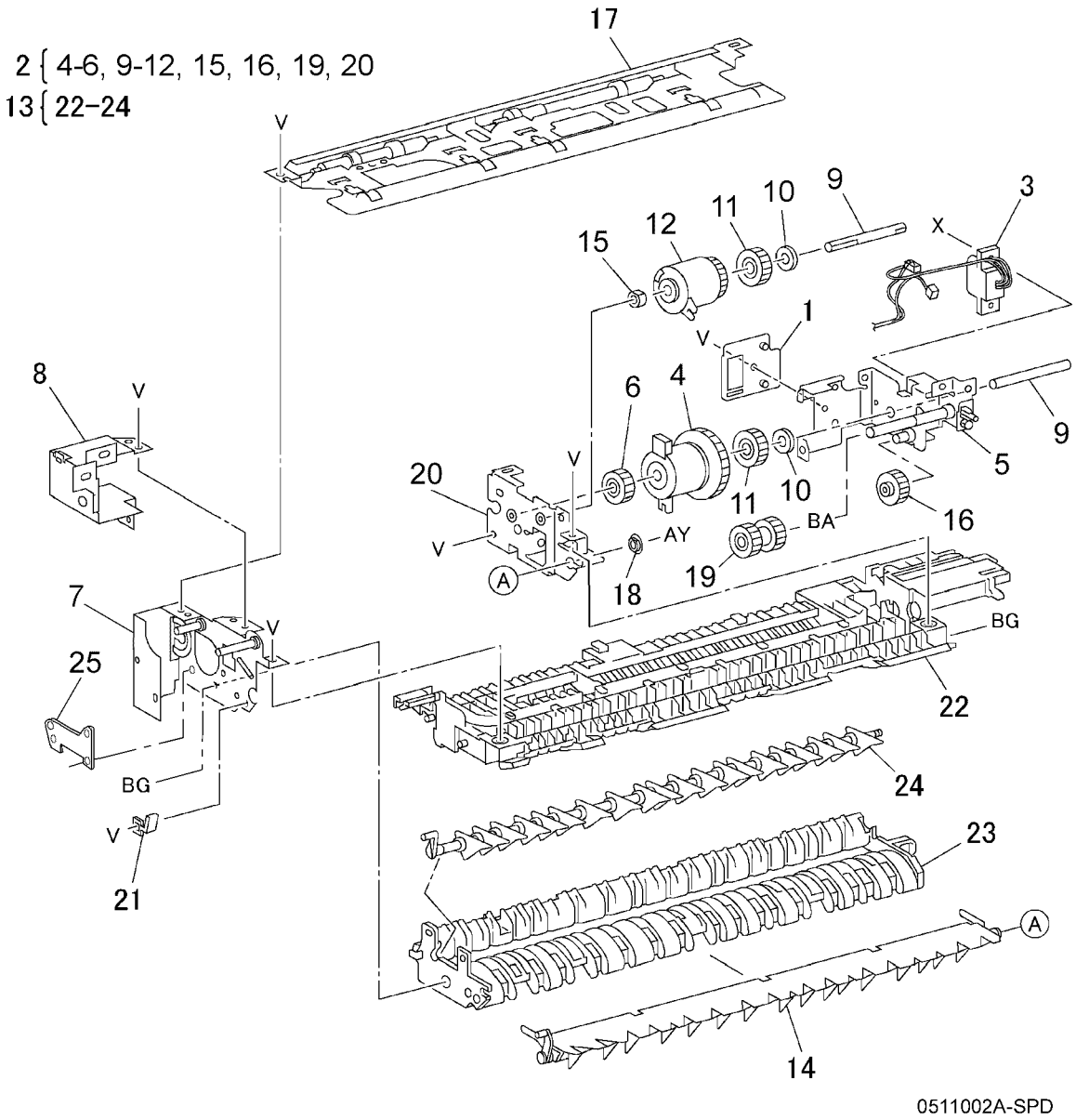
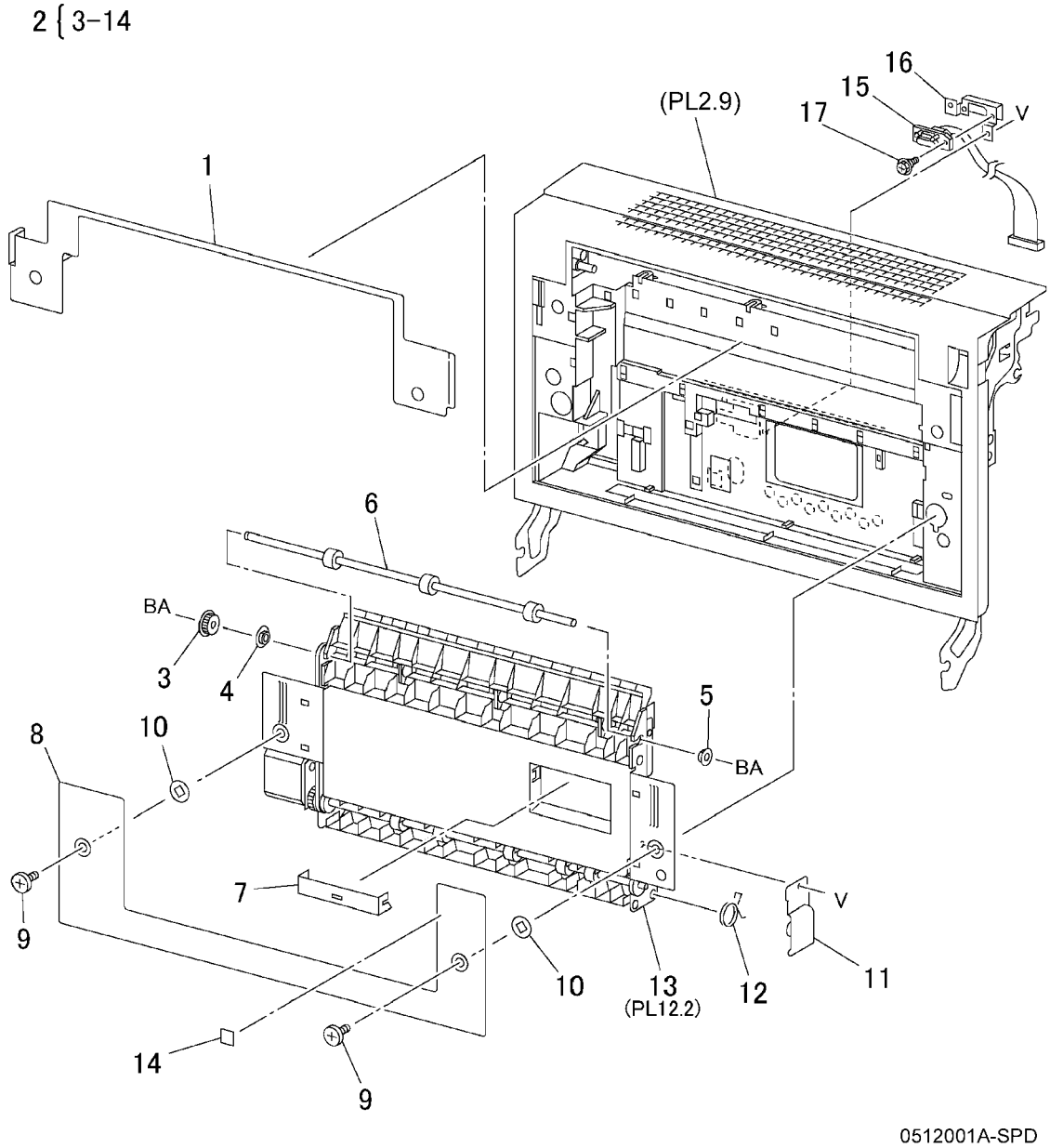
PL 11.2 Inverter Transport: 2 of 2

Item	Part	Description
1	–	Data Plate (P/O PL 11.1 Item 1)
2	015K61321	Clutch Assembly
3	–	Wire Harness (P/O PL 11.1 Item 1)
4	121K22870	Reverse Clutch
5	011E10711	Interlock Actuator
6	–	Gear (23T) (P/O PL 11.2 Item 2)
7	–	Bracket (P/O PL 11.1 Item 1)
8	–	Bracket (P/O PL 11.1 Item 1)
9	–	Shaft (P/O PL 11.2 Item 2)
10	–	Bearing (P/O PL 11.2 Item 2)
11	–	Gear (23T) (P/O PL 11.2 Item 2)
12	121K22860	Forward Clutch
13	054K17242	Inverter Chute Assembly
14	–	Exit Gate (P/O PL 11.1 Item 1)
15	–	Spacer (P/O PL 11.2 Item 2)
16	–	Gear (P/O PL 11.2 Item 2)
17	–	Tie Plate (P/O PL 11.1 Item 1)
18	–	Bearing (P/O PL 11.1 Item 1)
19	–	Gear (P/O PL 11.2 Item 2)
20	–	Bracket (P/O PL 11.2 Item 2)
21	–	Holder (P/O PL 11.1 Item 1)
22	–	Upper Chute (P/O PL 11.2 Item 13)
23	–	Lower Chute (P/O PL 11.2 Item 13)
24	–	Duplex Gate (P/O PL 11.2 Item 13)
25	830E97760	Gate Plate



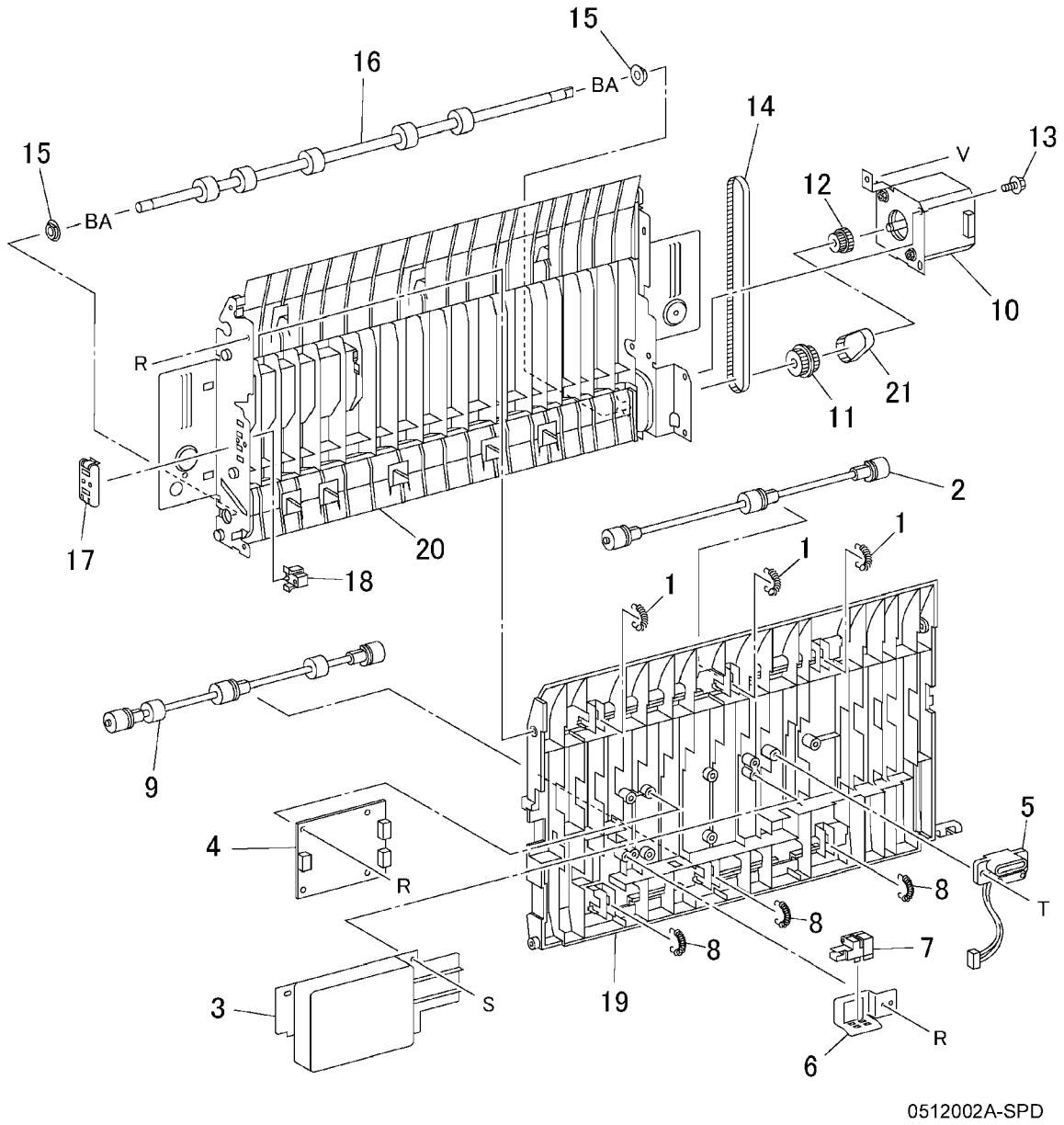
PL 12.1 Duplex Transport Assembly: 1 of 2

Item	Part	Description
1	–	Duplex Transport Upper Cover (Not Spared)
2	059K36903	Duplex Transport Assembly (REP 8.3)
3	–	One-way Pulley (P/O PL 12.1 Item 2)
4	–	Bearing (P/O PL 12.1 Item 2)
5	–	Bearing (P/O PL 12.1 Item 2)
6	059K23960	Duplex Transport Roll
7	–	Handle (P/O PL 12.1 Item 2)
8	–	Lower Cover (P/O PL 12.1 Item 2)
9	–	Screw (P/O PL 12.1 Item 2)
10	–	Nylon Washer (P/O PL 12.1 Item 2)
11	–	Cover (P/O PL 12.1 Item 2)
12	–	Spring (P/O PL 12.1 Item 2)
13	–	Duplex Transport (P/O PL 12.1 Item 2)
14	–	Label (P/O PL 12.1 Item 2)
15	–	Wire Harness (Not Spared)
16	–	Bracket (Not Spared)
17	–	Screw (Not Spared)



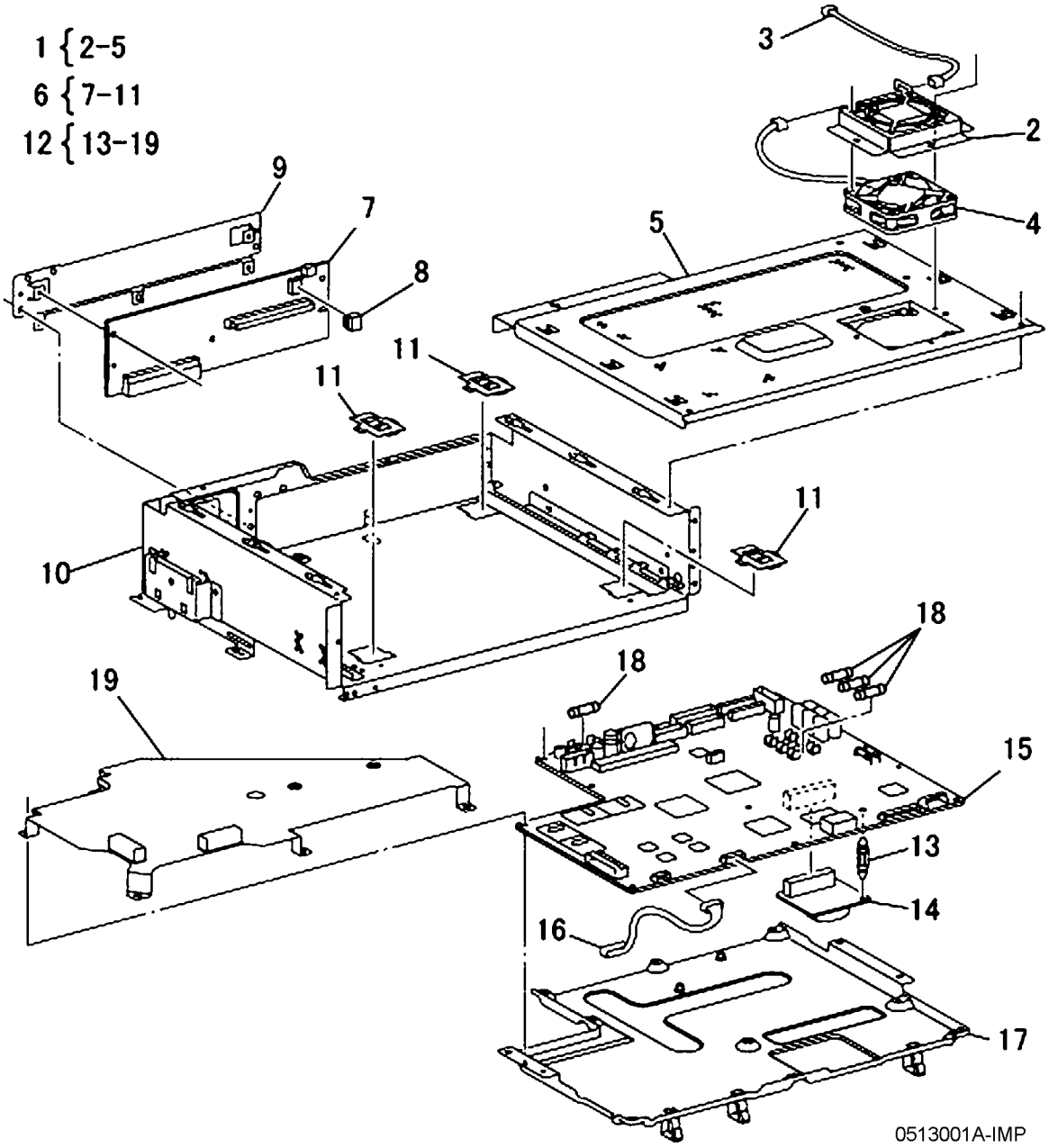
PL 12.2 Duplex Transport Assembly: 2 of 2

Item	Part	Description
1	–	Spring (P/O PL 12.1 Item 2)
2	059K23470	Pinch Roll
3	–	Cover (P/O PL 12.1 Item 2)
4	160K97412	Duplex Transport PWB
5	–	Wire Harness (P/O PL 12.1 Item 2)
6	–	Bracket (P/O PL 12.1 Item 2)
7	130K61250	Duplex Transport Wait Sensor
8	–	Spring (P/O PL 12.1 Item 2)
9	059K23980	Pinch Roll
10	127K38020	Duplex Transport Motor
11	–	Pulley (20/21T) (P/O PL 12.1 Item 2)
12	–	Pulley (15T) (P/O PL 12.1 Item 2)
13	–	Screw (P/O PL 12.1 Item 2)
14	–	Belt (P/O PL 12.1 Item 2)
15	–	Bearing (P/O PL 12.1 Item 2)
16	059K23970	Wait Roll
17	–	Cover (P/O PL 12.1 Item 2)
18	110E93440	Interlock Switch
19	–	Inner Chute (P/O PL 12.1 Item 2)
20	–	Outer Chute (P/O PL 12.1 Item 2)
21	–	Belt (P/O PL 12.1 Item 2)



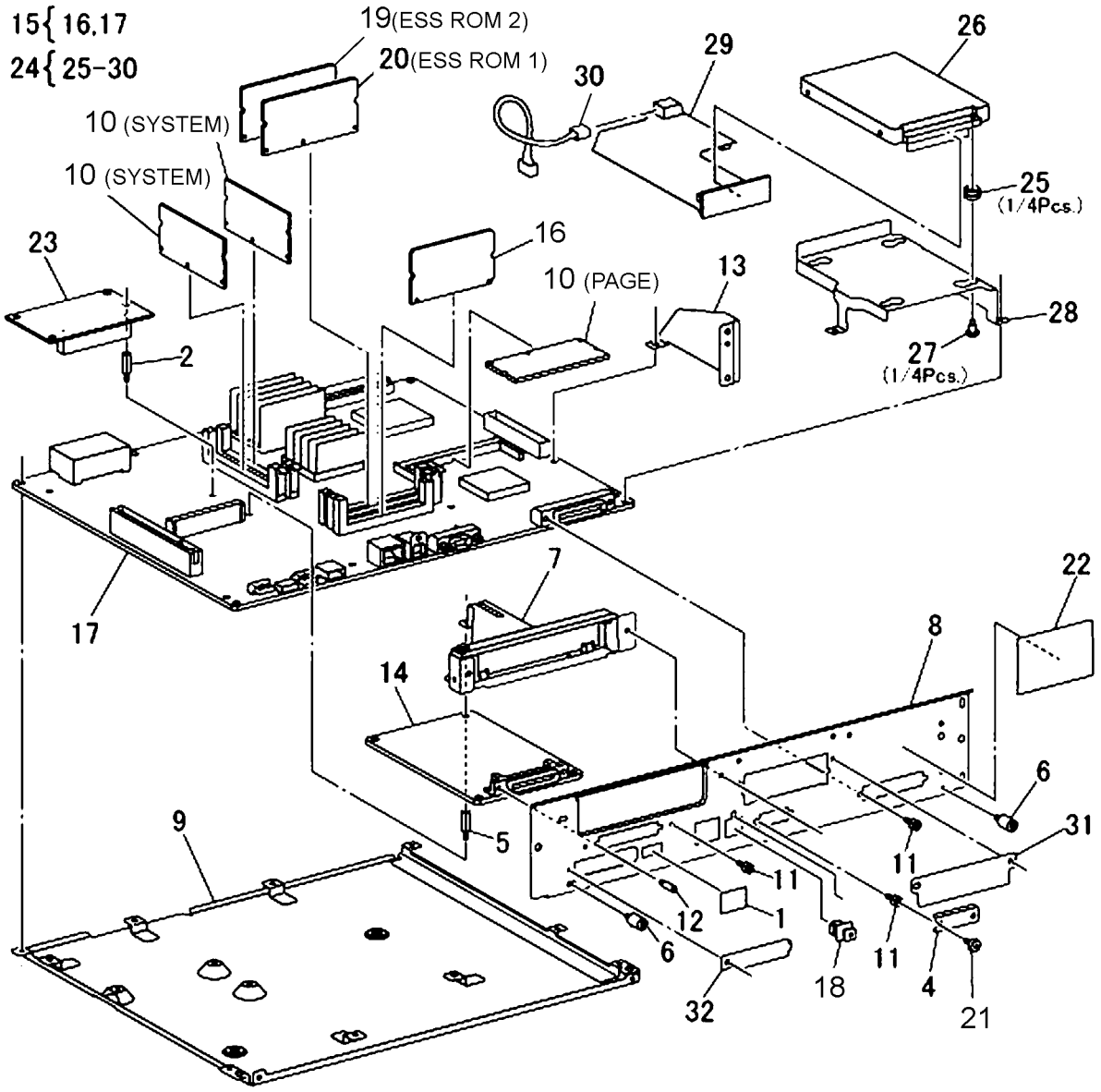
PL 13.1 ESS Box Assembly

Item	Part	Description
1	–	ESS Cover Assembly (Not Spared)
2	–	Bracket (P/O PL 13.1 Item 1)
3	–	Wire Harness (P/O PL 13.1 Item 1)
4	127K49440	ESS Fan
5	–	Cover (P/O PL 13.1 Item 1)
6	–	Chassis Assembly (Not Spared)
7	960K22830	BP PWB (REP 1.13)
8	–	SEEP ROM (P/O PL 13.1 Item 6)
9	–	Plate (P/O PL 13.1 Item 6)
10	–	Chassis (P/O PL 13.1 Item 6)
11	–	Spring (P/O PL 13.1 Item 6)
12	–	MCU PWB Assembly (P/O PL 13.1 Item 6)
13	–	Spacer (P/O PL 13.1 Item 12)
14	160K76652	MCU NVM PWB (REP 1.2.1)
15	960K23015	MCU PWB (WC7228/7235/7245 ONLY) (REP 1.2)
–	960K42891	MCU PWB (WC7346 Only)
–	960K31353	MCU PWB (WC7328/7335/7345 ONLY) (REP 1.2)
16	–	Wire Harness (P/O PL 13.1 Item 12)
17	–	Shield (P/O PL 13.1 Item 12)
18	–	Fuse (4A) (P/O PL 13.1 Item 12)
19	–	MCU Cover (P/O PL 13.1 Item 12)



PL 13.2 ESS Chassis Assembly (WC7228/7235/7245 ONLY)

Item	Part	Description
1	–	Seal (Not Spared)
2	–	Spacer (Not Spared)
3	–	Cap (Not Spared)
4	–	Optional Cover (Not Spared)
5	–	Spacer (Not Spared)
6	–	Knurled Screw (Not Spared)
7	–	Bracket (Not Spared)
8	–	Panel (Not Spared) (WC7228/7235/7245 ONLY)
–	101K52281	Rear Panel (WC7328/7335/7345/7346 ONLY)
9	–	Chassis (Not Spared)
10	133K23691	System Memory (256MB) (WC7228/7235/7245 ONLY) (REP 1.12.7)
–	133K23811	System Memory (512MB) (WC7228/7235/7245 ONLY) (REP 1.12.7)
11	–	Lock Screw (Not Spared)
12	–	Screw (Not Spared)
13	–	Support (Not Spared)
14	960K16750	UI PWB (REP 1.12.5, ADJ 9.13)
15	960K26553	ESS PWB Assembly (REP 1.12)
16	160K99202	ESS NVM PWB (REP 1.12.2)
17	–	ESS PWB (P/O PL 13.2 Item 15) (REP 1.12.1)
18	–	Plug (Not Spared)
19	540K04024	ESS ROM2
20	540K04015	ESS ROM1
21	–	Screw (Not Spared)
22	–	Label (Caution) (Not Spared)
23	960K16120	JPEG PWB (REP 1.12.6)
24	960K29230	HDD Assembly
25	–	Bumper (P/O PL 13.2 Item 24)
26	–	HDD (P/O PL 13.2 Item 24)
27	–	Screw (P/O PL 13.2 Item 24)
28	–	Bracket (P/O PL 13.2 Item 24)
29	962K57440	Flat Cable
30	962K23070	Wire Harness
31	–	Plate (Not Spared)
32	–	Plate (Not Spared)

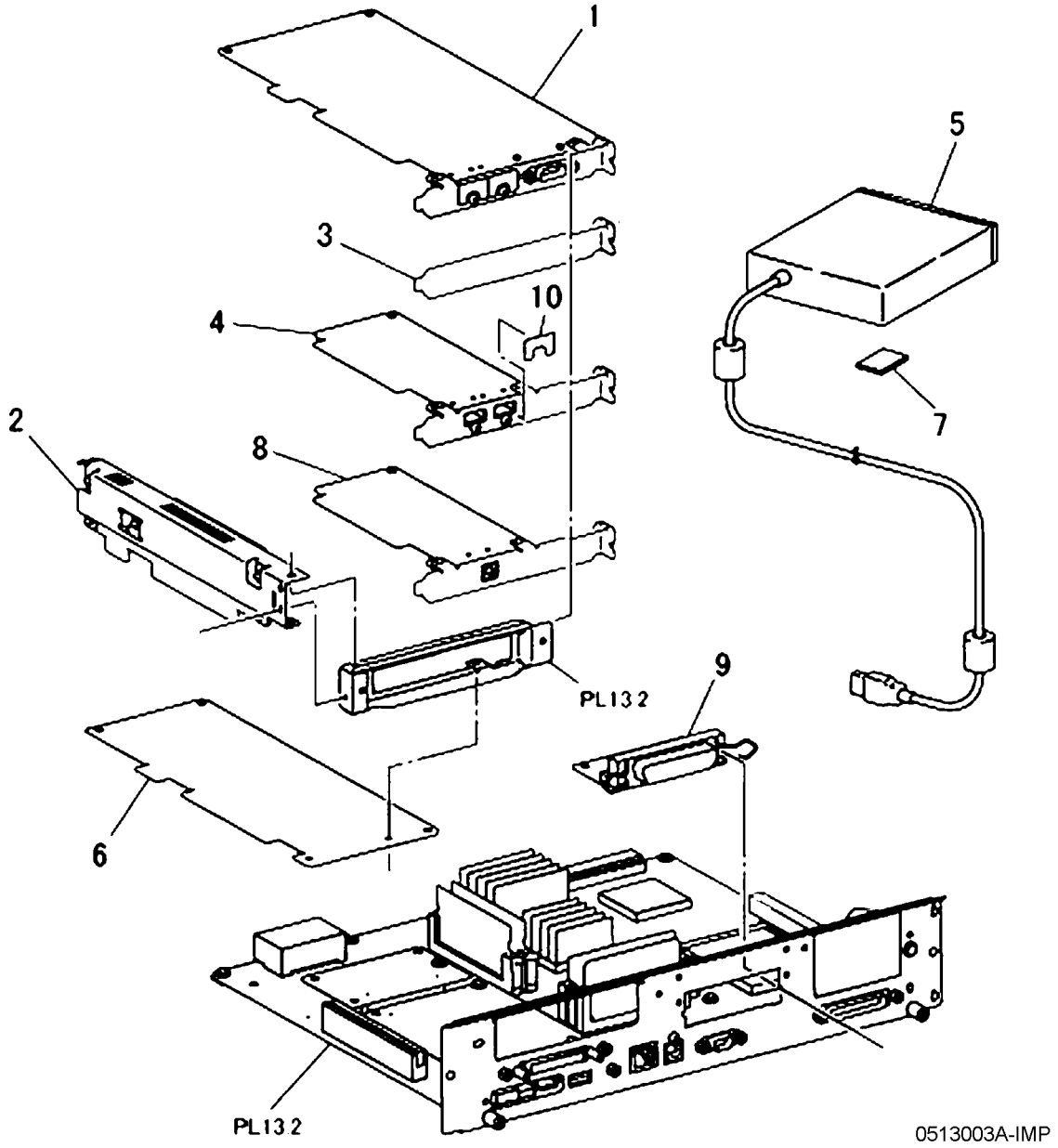


WC7328/7335/7345 EXPLODED ON PL13.4

0513002C-IMP

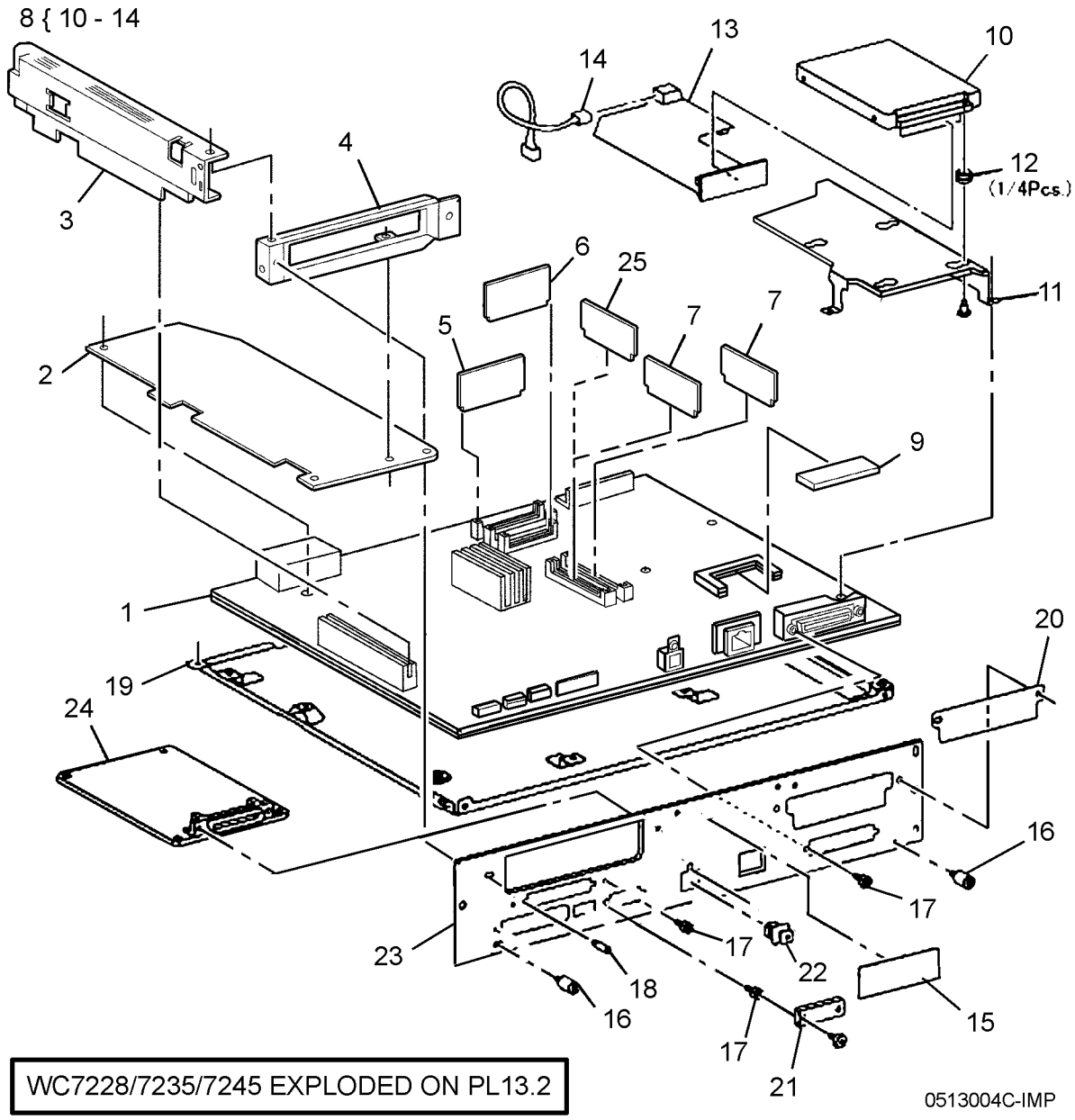
PL 13.3 ESS Option

Item	Part	Description
1	960K18180	Image Comp PWB
2	960K18190	Riser PWB
3	–	Plate (Not Spared)
4	960K18140	Media Card I/F PWB
5	–	Media Card Reader (Not Spared)
6	960K16201	Thumbnail Preview PWB
7	–	Sticky Back Velcro Fastener (4) (Not Spared)
8	960K18150	USB Print PWB
9	–	Parallel Print PWB (Not Spared)
10	–	Label (Not Spared)



PL 13.4 ESS Chassis Assembly (WC7328/7335/7345/7346 Only)

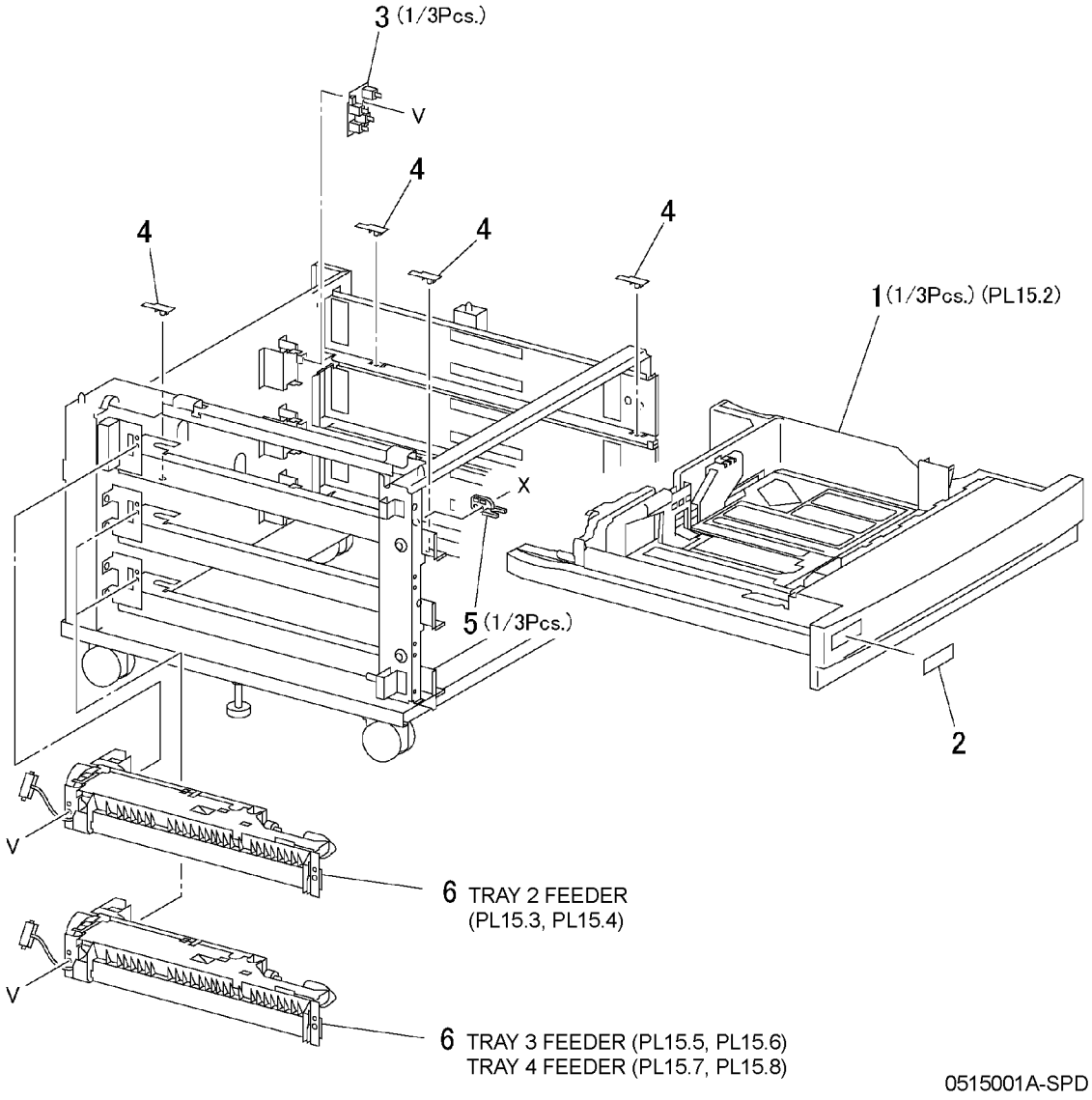
Item	Part	Description
1	960K25996	PWB Assembly
2	960K16120	JPEG PWB
3	–	PWB Riser Assembly
4	–	Bracket (Not Spared)
5	540K06952	ESS MN1 EPROM (220V) (WC7328/7335/7345 Only)
–	540K09870	PS EPROM (110V) (WC7346 ONLY)
–	540K09960	PS EPROM (WC7346 Only)
–	540K09880	PCL EPROM (220V) (WC7346 Only)
–	540K06962	ESS MN1 EPROM (110V) (WC7328/7335/7345 Only)
6	160K99202	ESS NVM PWB (REP 1.12.2)
7	133K24760	512MB DIMM
8	960K29230	HDD Assembly
9	–	128MB DIMM (Not Spared)
10	–	HDD (P/O item 8)
11	–	Bracket (P/O PL 13.4 Item 8)
12	–	Bumper (P/O PL 13.4 Item 8)
13	962K57440	Flat Cable
14	962K23070	Wire Harness
15	–	Caution Label (Not Spared)
16	–	Knurled Screw (Not Spared)
17	–	Lock Screw (Not Spared)
18	–	Screw (Not Spared)
19	–	Chassis (Not Spared)
20	–	Panel (Not Spared)
21	–	EPSV Panel (Not Spared)
22	–	USB Cap (Not Spared)
23	101K52281	Rear Panel
24	960K16750	UI PWB (REP 1.12.5, ADJ 9.13)
25	133K25810	1GB System Memory (WC7346 Only)



WC7228/7235/7245 EXPLODED ON PL13.2

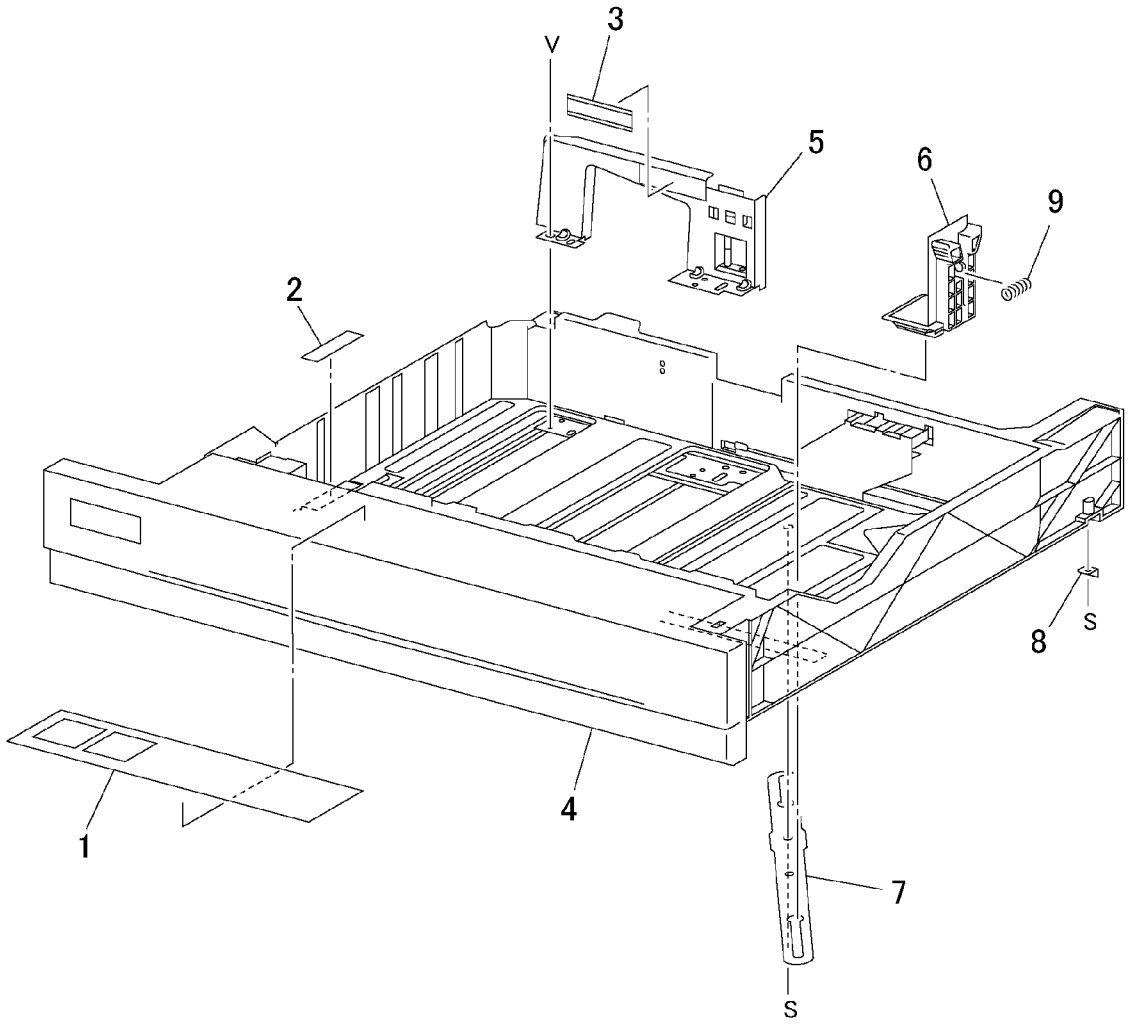
PL 15.1 Tray 2/3/4 Feeders & Paper Trays (3TM)

Item	Part	Description
1	050K49613	Tray 2/3/4 (REP 7.13, REP 7.14, REP 7.15)
2	892E82840	Label (Tray 2)
–	892E82860	Label (Tray 4)
–	892E82850	Label (Tray 3)
3	110K12990	Paper Size Sensor (Tray 2/3/4)
4	–	Spacer (Not Spared)
5	003E23672	Stop
6	059K15577	Feeder (Tray 2/3/4) (REP 7.16, REP 7.17, REP 7.18)



PL 15.2 Tray Assembly (3TM)

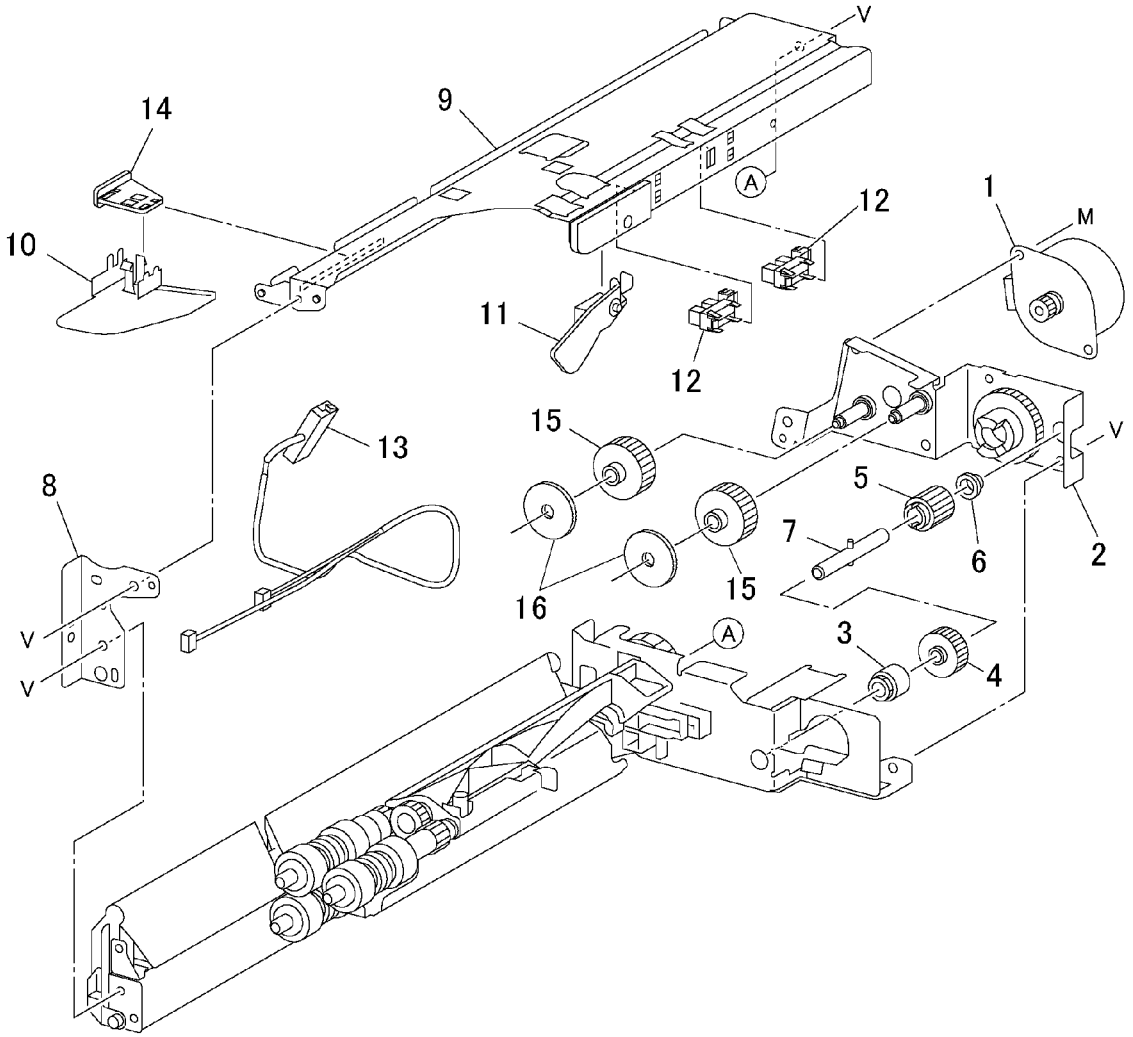
Item	Part	Description
1	–	Instruction Label (Not Spared)
2	–	Pad (P/O PL 15.1 Item 1)
3	–	Max Label (P/O PL 15.1 Item 1)
4	–	Tray (P/O PL 15.1 Item 1)
5	–	Side Guide (P/O PL 15.1 Item 1)
6	–	End Guide (P/O PL 15.1 Item 1)
7	–	Link (P/O PL 15.1 Item 1)
8	–	Stop (P/O PL 15.1 Item 1)
9	–	Spring (P/O PL 15.1 Item 1)



0515002B-SPD

PL 15.3 Tray 2 Feeder: 1 of 2 (3TM)

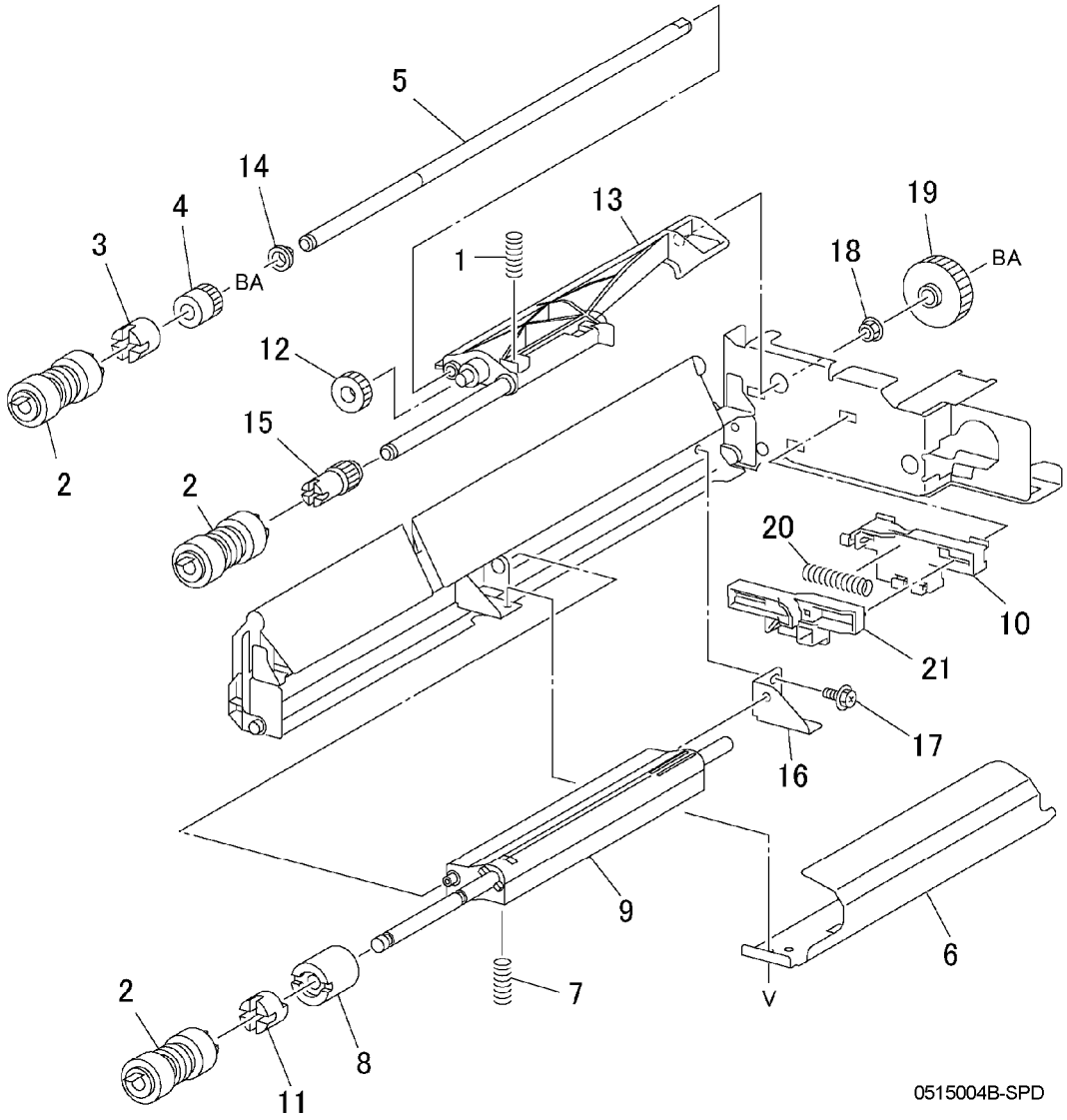
Item	Part	Description
1	127K23231	Tray 2 Feed/Lift Motor (REP 7.4)
2	–	Bracket (P/O PL 15.1 Item 6)
3	005K83081	One-way Clutch
4	007K85730	One-way Gear
5	–	Gear (13T) (P/O PL 15.1 Item 6)
6	–	Bearing (P/O PL 15.1 Item 6)
7	–	Shaft (P/O PL 15.1 Item 6)
8	–	Front Frame (P/O PL 15.1 Item 6)
9	–	Upper Frame (P/O PL 15.1 Item 6)
10	–	Front Chute (P/O PL 15.1 Item 6)
11	120E18141	Actuator
12	–	Tray 2 Level / No Paper Sensor (Not Spared)
13	–	Wire Harness (P/O PL 15.1 Item 6)
14	–	Support (P/O PL 15.1 Item 6)
15	–	Gear (15T) (P/O PL 15.1 Item 6)
16	–	Washer (P/O PL 15.1 Item 6)



0515003A-SPD

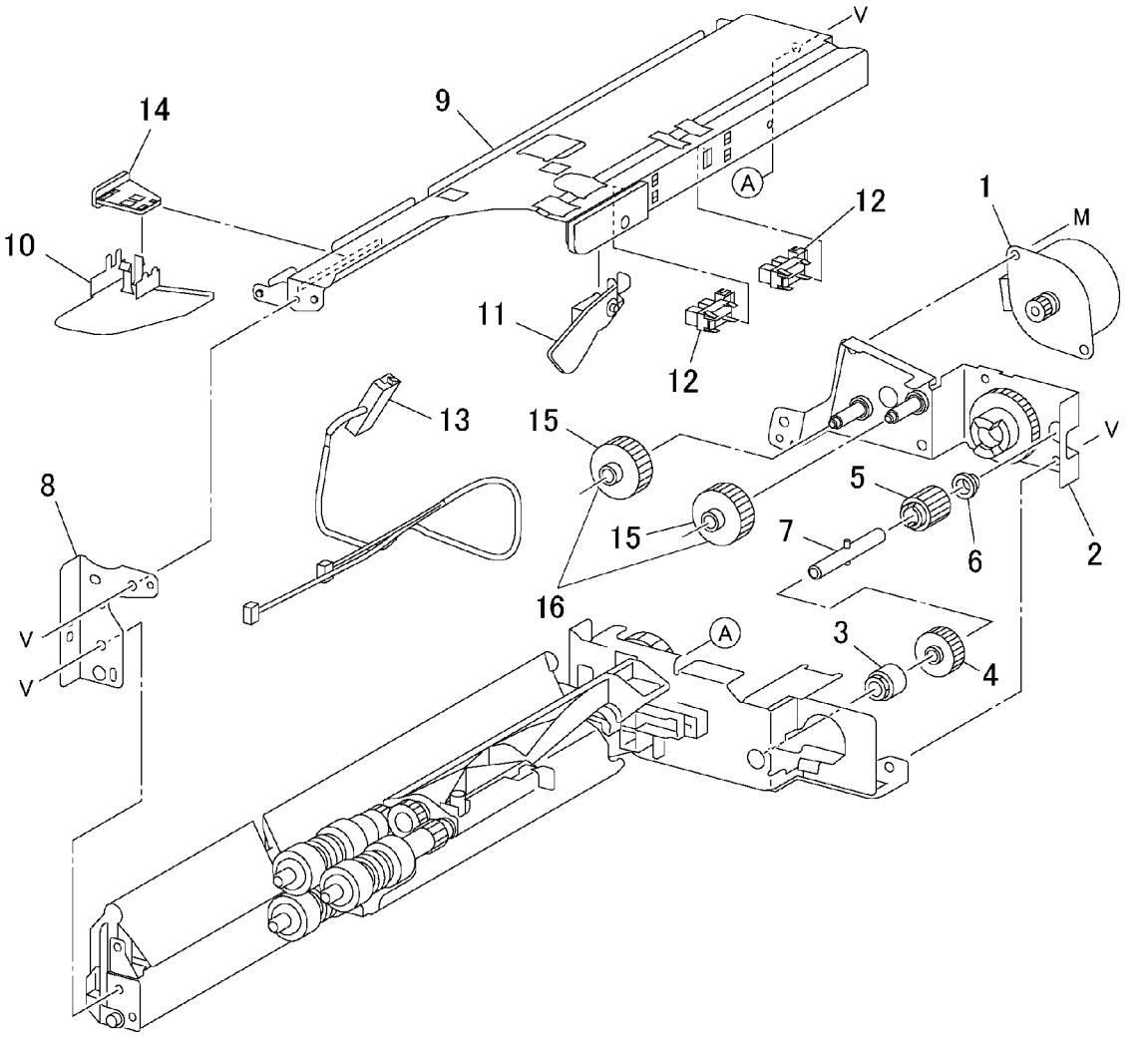
PL 15.4 Tray 2 Feeder: 2 of 2 (3TM)

Item	Part	Description
1	–	Spring (P/O PL 15.1 Item 6)
2	600K78460	Roll Kit (3 Rolls/Kit)
3	005K05890	One-way Clutch
4	–	Gear (P/O PL 15.1 Item 6)
5	–	Shaft (P/O PL 15.1 Item 6)
6	–	Chute (P/O PL 15.1 Item 6)
7	–	Spring (P/O PL 15.1 Item 6)
8	–	Friction Clutch (P/O PL 15.1 Item 6)
9	–	Support (P/O PL 15.1 Item 6)
10	–	Holder (P/O PL 15.1 Item 6)
11	–	Spacer (P/O PL 15.1 Item 6)
12	–	Gear (31T) (P/O PL 15.1 Item 6)
13	–	Support (P/O PL 15.1 Item 6)
14	–	Bearing (P/O PL 15.1 Item 6)
15	–	Gear (P/O PL 15.1 Item 6)
16	–	Support (P/O PL 15.1 Item 6)
17	–	Screw (P/O PL 15.1 Item 6)
18	–	Bearing (P/O PL 15.1 Item 6)
19	–	Gear (35T) (P/O PL 15.1 Item 6)
20	–	Spring (P/O PL 15.1 Item 6)
21	–	Lever (P/O PL 15.1 Item 6)



PL 15.5 Tray 3 Feeder: 1 of 2 (3TM)

Item	Part	Description
1	127K23231	Tray 3 Feed/Lift Motor (REP 7.4)
2	–	Bracket (P/O PL 15.1 Item 6)
3	005K83081	One-way Clutch
4	007K85730	One-way Gear
5	–	Gear (13T) (P/O PL 15.1 Item 6)
6	–	Bearing (P/O PL 15.1 Item 6)
7	–	Shaft (P/O PL 15.1 Item 6)
8	–	Front Frame (P/O PL 15.1 Item 6)
9	–	Upper Frame (P/O PL 15.1 Item 6)
10	–	Front Chute (P/O PL 15.1 Item 6)
11	120E18141	Actuator
12	–	Tray 3 Level / No Paper Sensor (Not Spared)
13	–	Wire Harness (P/O PL 15.1 Item 6)
14	–	Support (P/O PL 15.1 Item 6)
15	–	Gear (15T) (P/O PL 15.1 Item 6)
16	–	Washer (P/O PL 15.1 Item 6)



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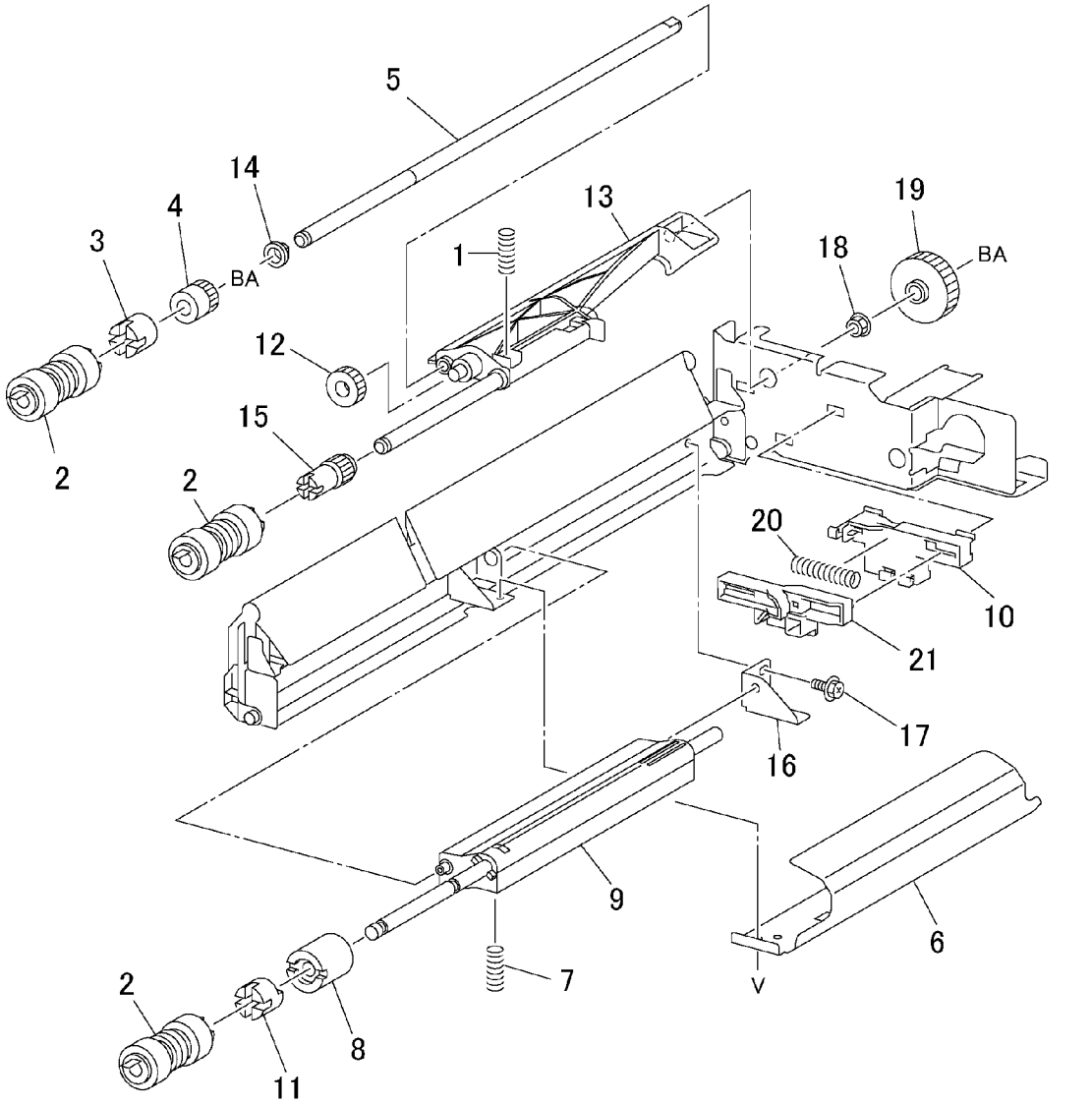
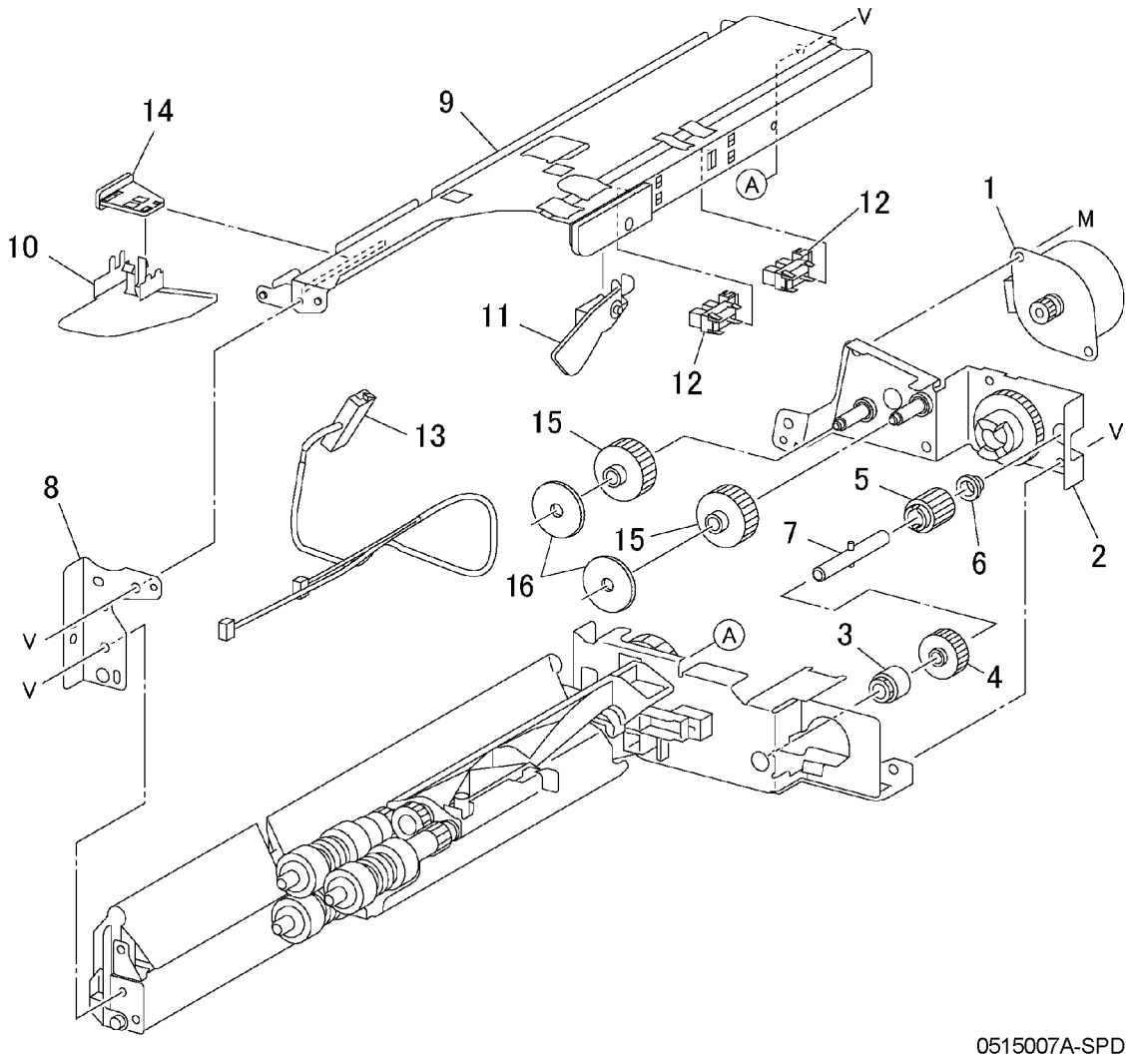
PL 15.6 Tray 3 Feeder: 2 of 2 (3TM)

Item	Part	Description
1	–	Spring (P/O PL 15.1 Item 6)
2	600K78460	Roll Kit (3 Rolls/Kit)
3	005K05890	One-way Clutch
4	–	Gear (P/O PL 15.1 Item 6)
5	–	Shaft (P/O PL 15.1 Item 6)
6	–	Chute (P/O PL 15.1 Item 6)
7	–	Spring (P/O PL 15.1 Item 6)
8	–	Friction Clutch (P/O PL 15.1 Item 6)
9	–	Support (P/O PL 15.1 Item 6)
10	–	Holder (P/O PL 15.1 Item 6)
11	–	Spacer (P/O PL 15.1 Item 6)
12	–	Gear (31T) (P/O PL 15.1 Item 6)
13	–	Support (P/O PL 15.1 Item 6)
14	–	Bearing (P/O PL 15.1 Item 6)
15	–	Gear (P/O PL 15.1 Item 6)
16	–	Support (P/O PL 15.1 Item 6)
17	–	Screw (P/O PL 15.1 Item 6)
18	–	Bearing (P/O PL 15.1 Item 6)
19	–	Gear (35T) (P/O PL 15.1 Item 6)
20	–	Spring (P/O PL 15.1 Item 6)
21	–	Lever (P/O PL 15.1 Item 6)



PL 15.7 Tray 4 Feeder: 1 of 2 (3TM)

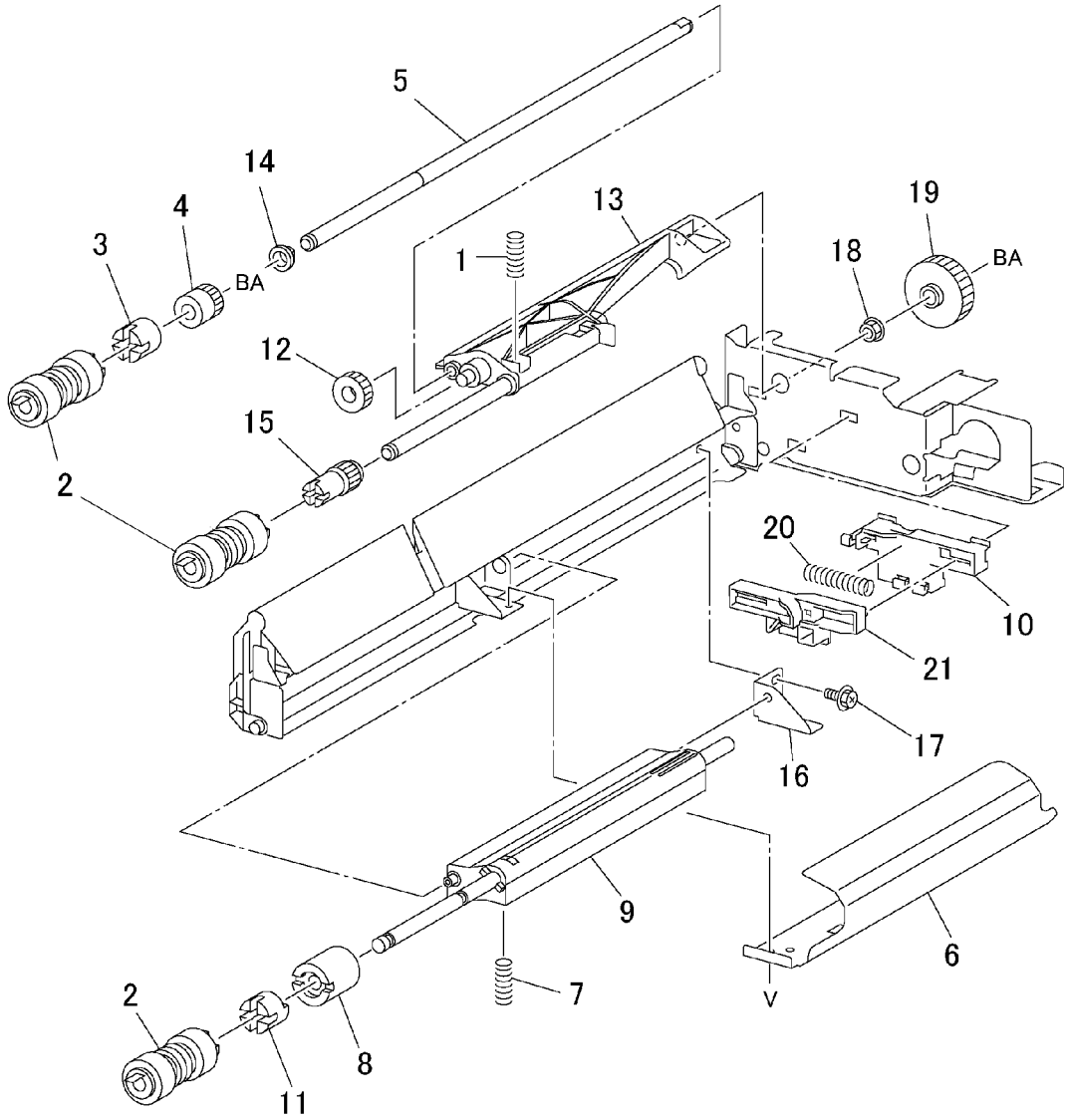
Item	Part	Description
1	–	Tray 4 Feed/Lift Motor (REP 7.4)
2	–	Bracket (P/O PL 15.1 Item 6)
3	005K83081	One-way Clutch
4	007K85730	One-way Gear
5	–	Gear (13T) (P/O PL 15.1 Item 6)
6	–	Bearing (P/O PL 15.1 Item 6)
7	–	Shaft (P/O PL 15.1 Item 6)
8	–	Front Frame (P/O PL 15.1 Item 6)
9	–	Upper Frame (P/O PL 15.1 Item 6)
10	–	Front Chute (P/O PL 15.1 Item 6)
11	120E18141	Actuator
12	–	Tray 4 Level / No Paper Sensor (Not Spared)
13	–	Wire Harness (P/O PL 15.1 Item 6)
14	–	Support (P/O PL 15.1 Item 6)
15	–	Gear (15T) (P/O PL 15.1 Item 6)
16	–	Washer (P/O PL 15.1 Item 6)



0515007A-SPD

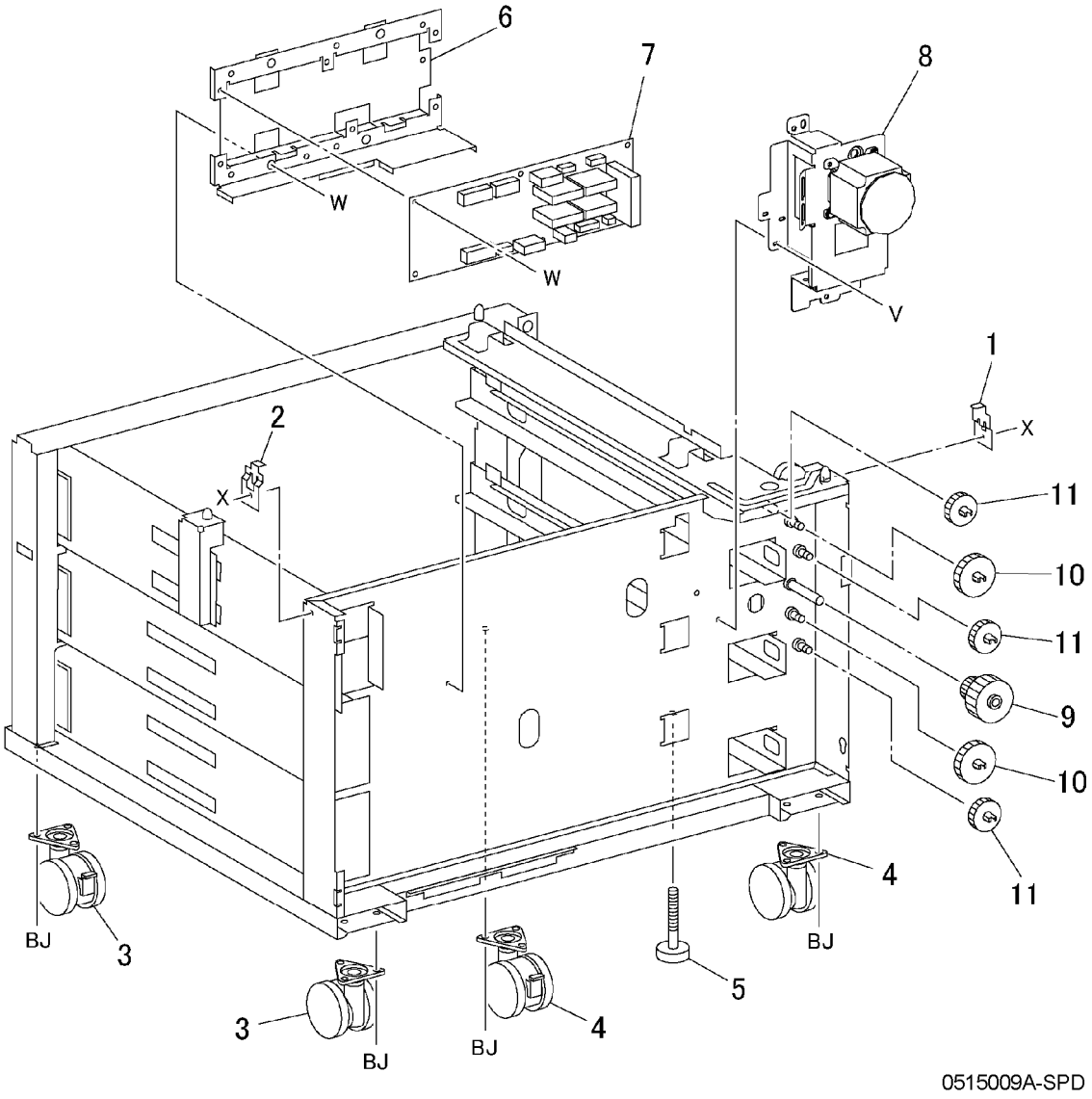
PL 15.8 Tray 4 Feeder: 2 of 2 (3TM)

Item	Part	Description
1	–	Spring (P/O PL 15.1 Item 6)
2	600K78460	Roll Kit (3 Rolls/Kit)
3	005K05890	One-way Clutch
4	–	Gear (P/O PL 15.1 Item 6)
5	–	Shaft (P/O PL 15.1 Item 6)
6	–	Chute (P/O PL 15.1 Item 6)
7	–	Spring (P/O PL 15.1 Item 6)
8	–	Friction Clutch (P/O PL 15.1 Item 6)
9	–	Support (P/O PL 15.1 Item 6)
10	–	Holder (P/O PL 15.1 Item 6)
11	–	Spacer (P/O PL 15.1 Item 6)
12	–	Gear (31T) (P/O PL 15.1 Item 6)
13	–	Support (P/O PL 15.1 Item 6)
14	–	Bearing (P/O PL 15.1 Item 6)
15	–	Gear (P/O PL 15.1 Item 6)
16	–	Support (P/O PL 15.1 Item 6)
17	–	Screw (P/O PL 15.1 Item 6)
18	–	Bearing (P/O PL 15.1 Item 6)
19	–	Gear (35T) (P/O PL 15.1 Item 6)
20	–	Spring (P/O PL 15.1 Item 6)
21	–	Lever (P/O PL 15.1 Item 6)



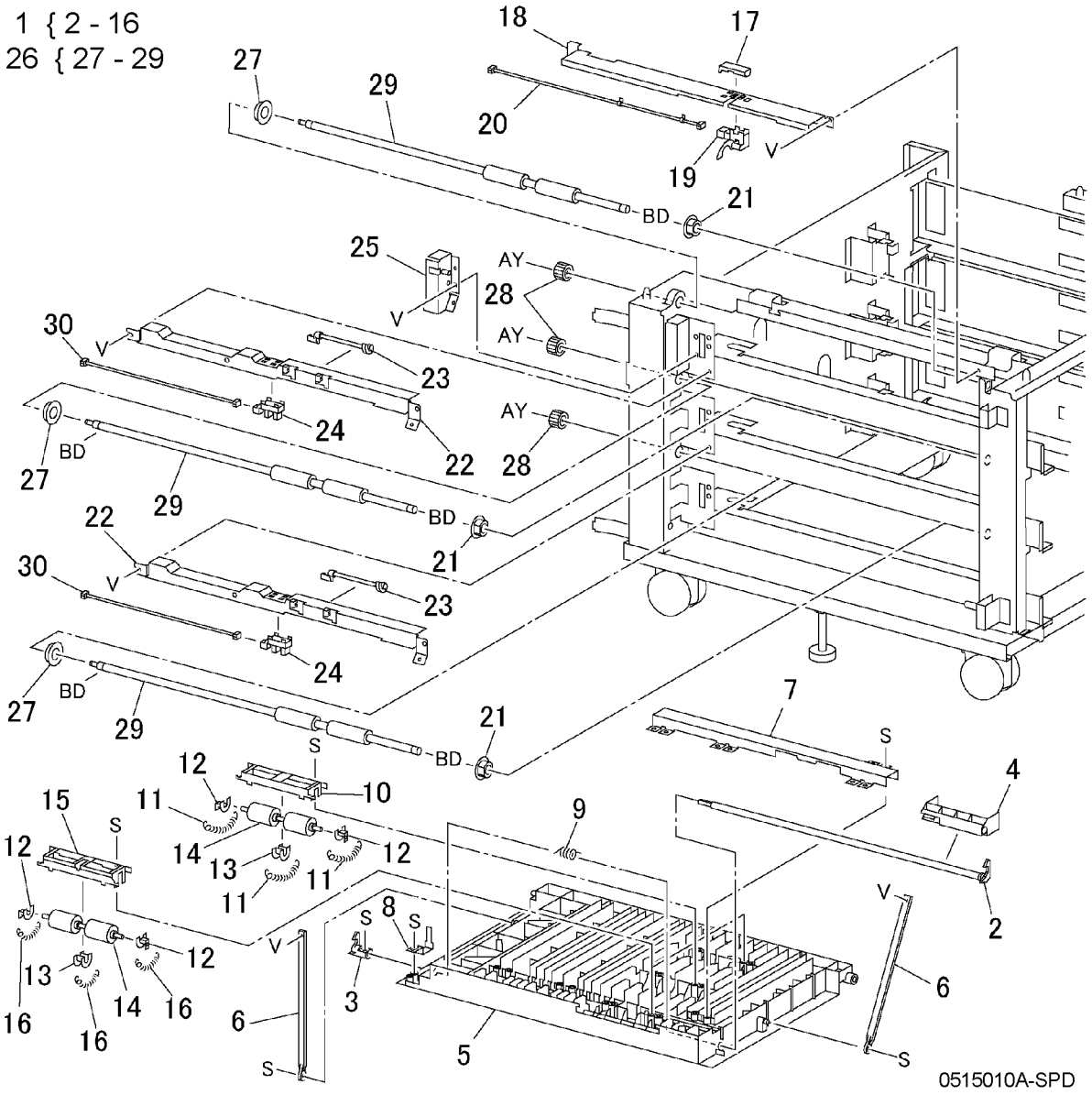
PL 15.9 Electrical Components and Casters (3TM)

Item	Part	Description
1	–	Left Connecting Bracket (Not Spared)
2	–	Right Connecting Bracket (Not Spared)
3	017K93740	Caster
4	017K93750	Caster
5	–	Foot (Not Spared)
6	–	Bracket (Not Spared)
7	960K01743	Tray Module PWB
8	127K36021	Takeaway Motor 1
9	007E66060	Gear (23/46T)
10	007E66070	Gear (46T)
11	007E66050	Gear (33T)



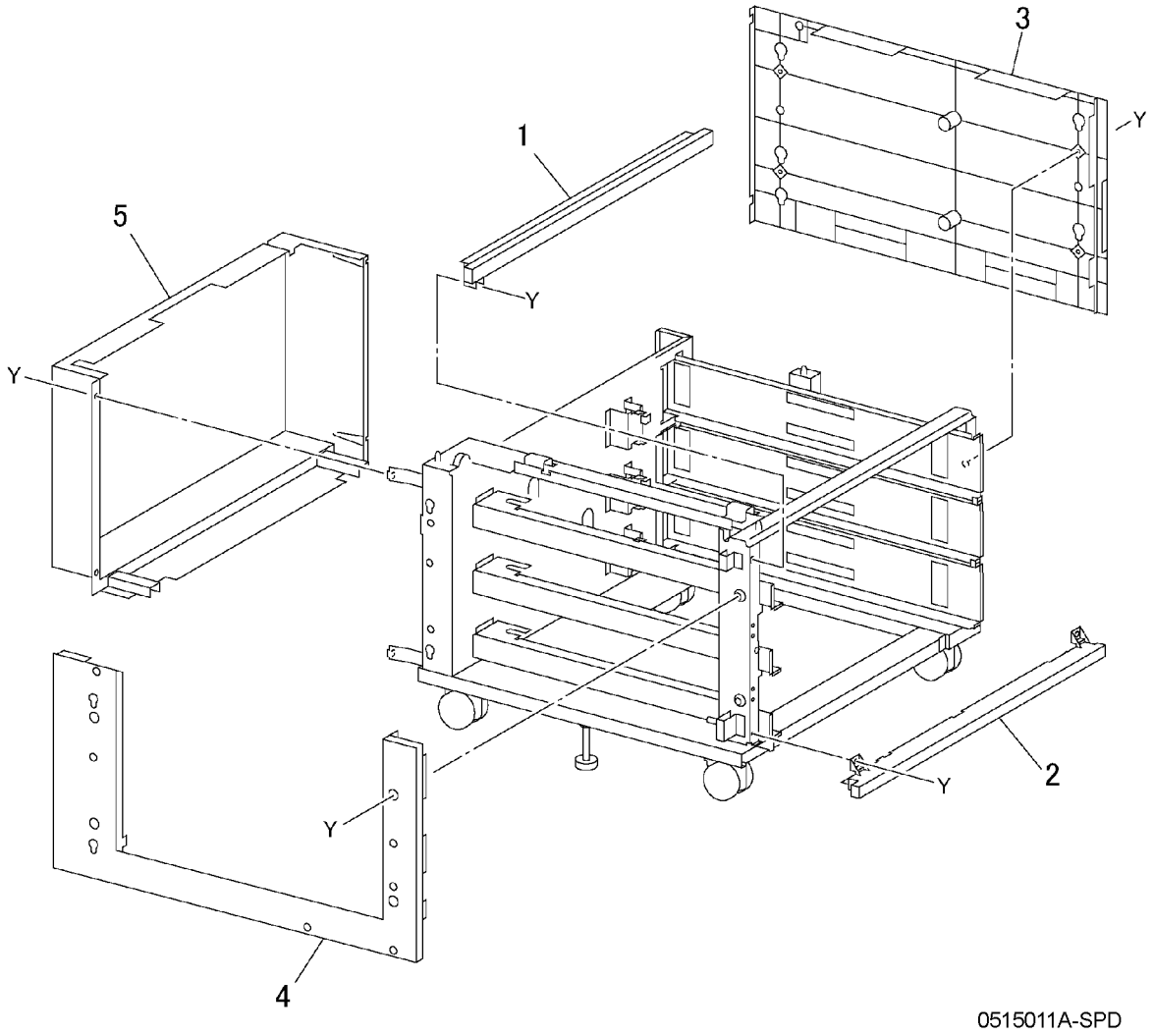
PL 15.10 Left Cover Assembly (3TM)

Item	Part	Description
1	802K65592	Left Cover Assembly (REP 14.11)
2	003E53701	Shaft
3	003E53710	Hook
4	011E10800	Handle
5	–	Left Cover (P/O PL 15.10 Item 1)
6	–	Support (P/O PL 15.10 Item 1)
7	–	Cover (P/O PL 15.10 Item 1)
8	–	Actuator (P/O PL 15.10 Item 1)
9	–	Spring
10	–	Bearing (P/O PL 15.10 Item 1)
11	809E28961	Spring
12	–	Bearing (P/O PL 15.10 Item 1)
13	–	Bearing (P/O PL 15.10 Item 1)
14	–	Roll (P/O PL 15.10 Item 1)
15	–	Bracket (P/O PL 15.10 Item 1)
16	809E28980	Spring
17	–	Cover (Not Spared)
18	–	Chute (Not Spared)
19	130K61511	Takeaway Sensor
20	162K62811	Wire Harness
21	–	Bearing (Not Spared)
22	–	Chute (Not Spared)
23	120E18820	Actuator
24	130E81600	Feedout Sensor (Tray 3/4)
25	015K49471	Interlock Switch
26	059K18901	Takeaway Roll Assembly
27	–	Bearing (P/O PL 15.10 Item 26)
28	–	Gear (P/O PL 15.10 Item 26)
29	–	Takeaway Roll (P/O PL 15.10 Item 26)
30	–	Wire Harness (Not Spared)



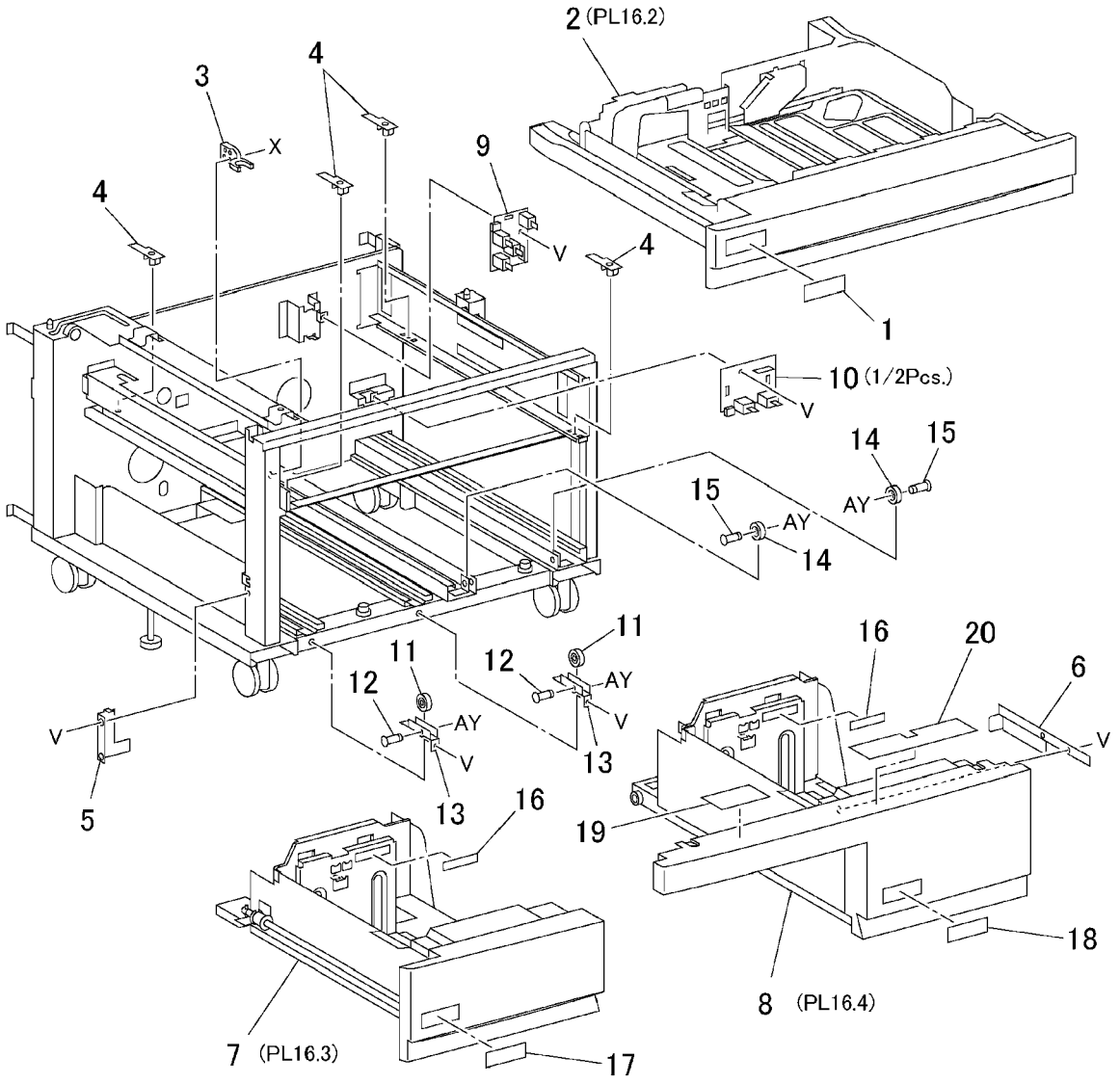
PL 15.11 Covers (3TM)

Item	Part	Description
1	802E23952	Front Upper Cover
2	802E23961	Front Lower Cover
3	802E23942	Right Cover
4	802E23931	Left Lower Cover (REP 14.12)
5	802K50492	Rear Cover



PL 16.1 Tray 2/3/4 Assembly (TTM)

Item	Part	Description
1	–	Tray 2 Label (Not Spared)
2	050K51394	Tray 2 (REP 7.9)
3	003E23672	Tray 2 Stop
4	014E42850	Tray 2 Spacer
5	–	Tray 3 Stop (Not Spared)
6	–	Tray 4 Stop (Not Spared)
7	–	Tray 3 (REP 7.6)
8	–	Tray 4 (REP 7.7)
9	110K12990	Tray 2 Paper Size Sensor
10	110K10881	Tray 3/4 Paper Size Sensor
11	059E95930	Roll
12	–	Shaft (Not Spared)
13	–	Bracket (Not Spared)
14	–	Roll (Not Spared)
15	–	Shaft (Not Spared)
16	–	Max Label (Not Spared)
17	–	Tray 3 Label
18	–	Tray 4 Label
19	–	Label (Not Spared)
20	–	Instruction Label (Not Spared)



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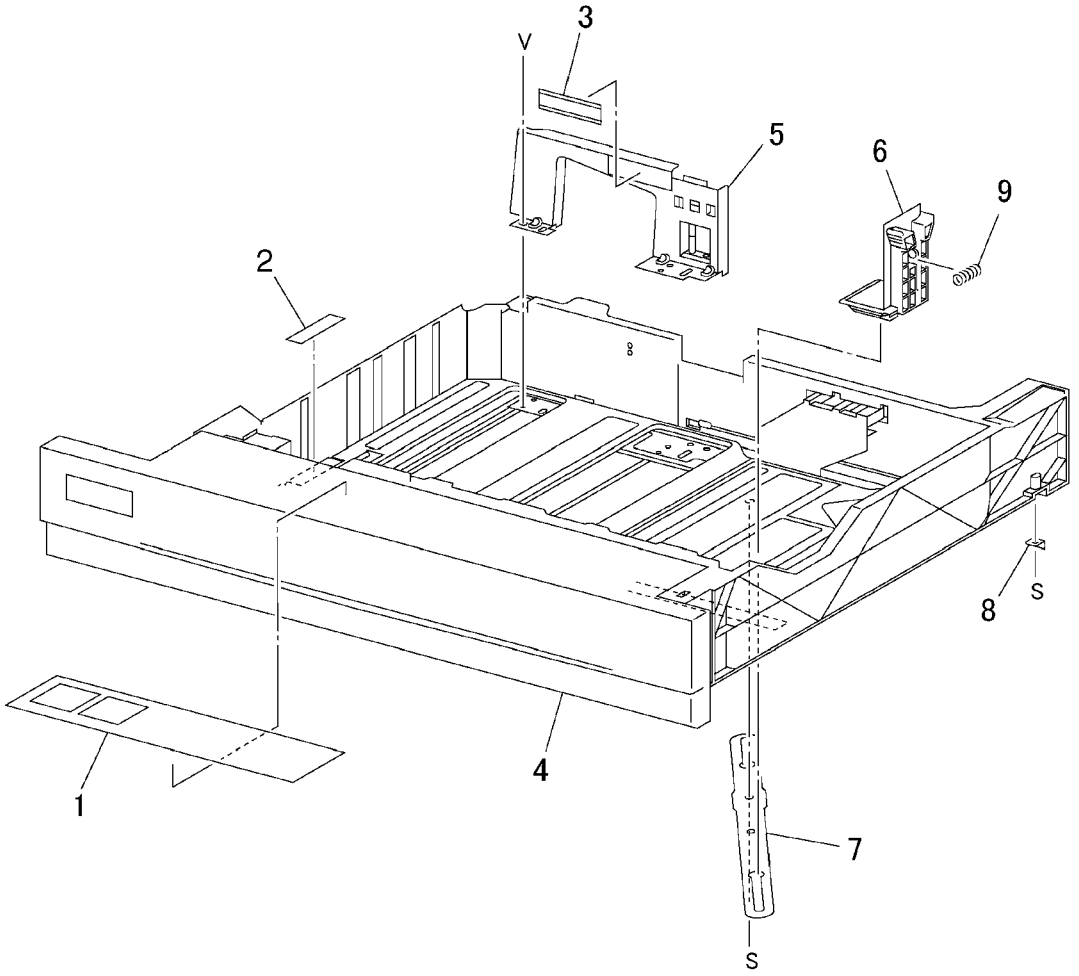
PL 16.2 Tray 2 (TTM)

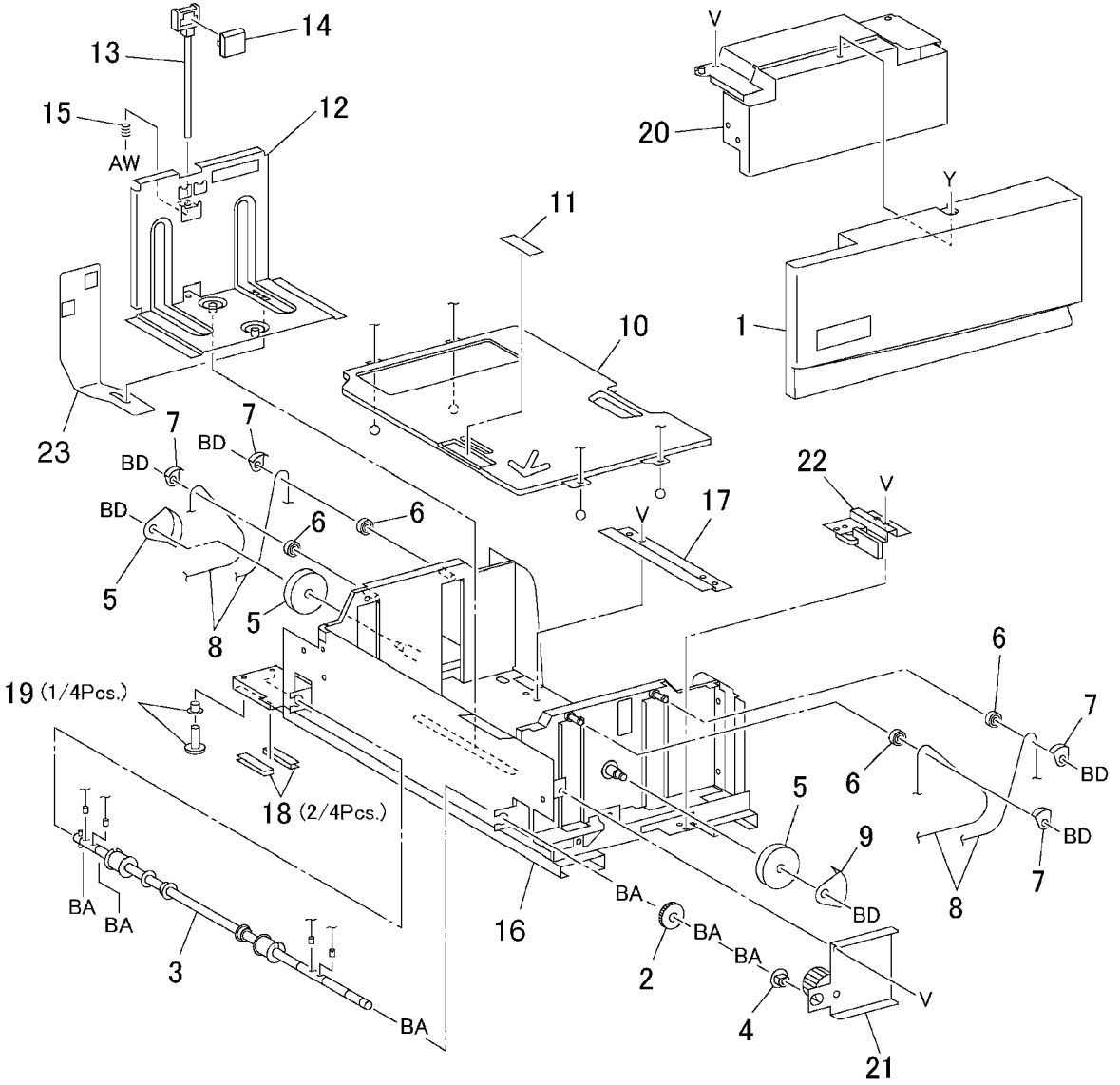
Item	Part	Description
1	–	Instruction Label (Not Spared)
2	–	Pad (P/O PL 16.1 Item 2)
3	–	Max Label (P/O PL 16.1 Item 2)
4	–	Tray (P/O PL 16.1 Item 2)
5	–	Side Guide (P/O PL 16.1 Item 2)
6	–	End Guide (P/O PL 16.1 Item 2)
7	–	Link (P/O PL 16.1 Item 2)
8	–	Stop (P/O PL 16.1 Item 2)
9	–	Spring (P/O PL 16.1 Item 2)



0516002A-SPD

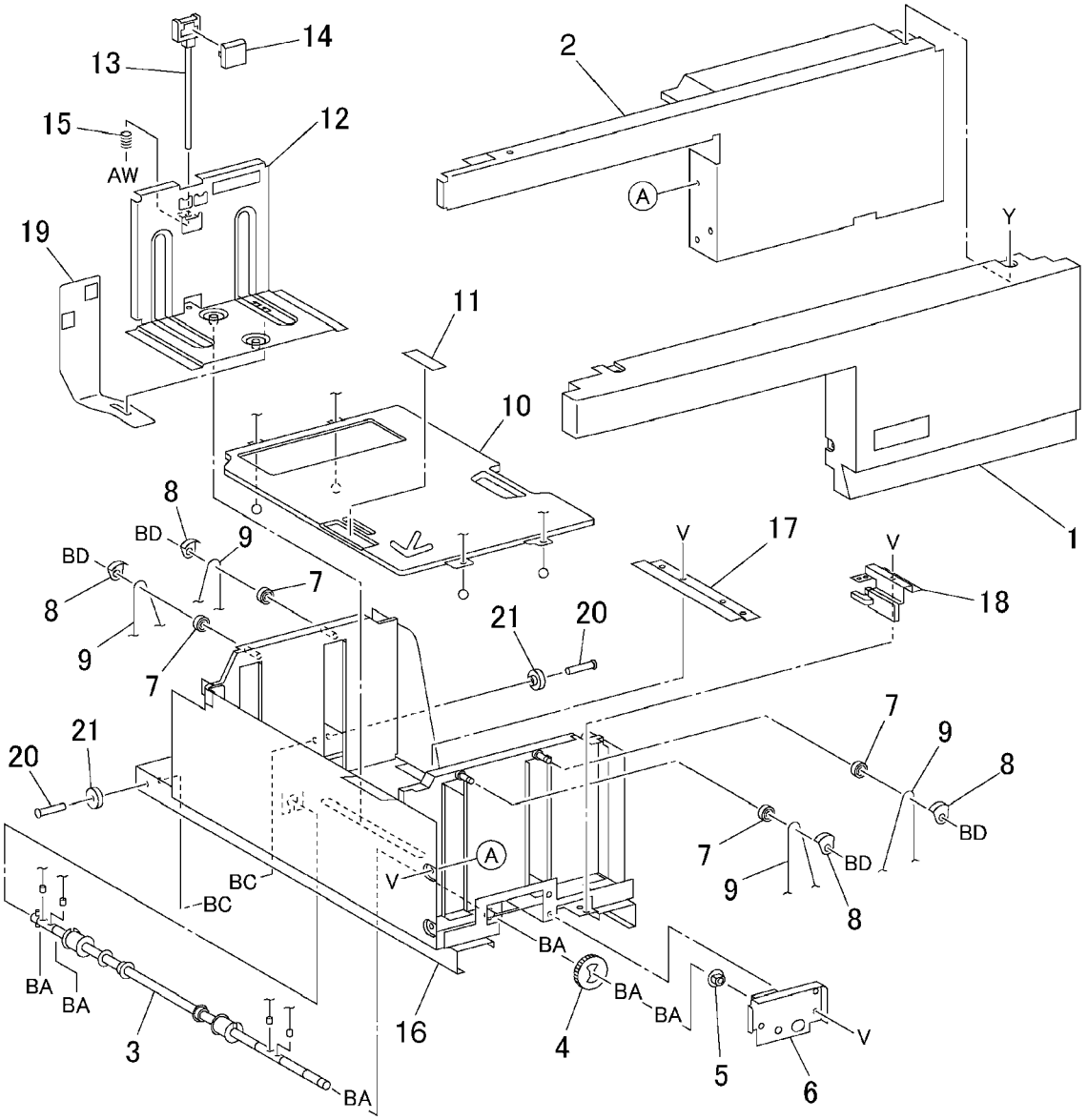
PL 16.3 Tray 3 (TTM)

Item	Part	Description
1	802E23992	Tray 3 Cover
2	–	Pulley (P/O PL 16.1 Item 7)
3	–	Lift Shaft (P/O PL 16.1 Item 7)
4	–	Bearing (P/O PL 16.1 Item 7)
5	020E93120	Pulley
6	–	Pulley (P/O PL 16.1 Item 7)
7	–	Cable Guide (P/O PL 16.1 Item 7)
8	–	Pulley Cable (P/O PL 16.1 Item 7)
9	–	Cable Guide (P/O PL 16.1 Item 7)
10	–	Bottom Plate (P/O PL 16.1 Item 7)
11	–	Pad (P/O PL 16.1 Item 7)
12	–	Side Guide (P/O PL 16.1 Item 7)
13	–	Knob (P/O PL 16.1 Item 7)
14	–	Knob (P/O PL 16.1 Item 7)
15	009E26970	Spring
16	–	Frame (P/O PL 16.1 Item 7)
17	–	Bracket (P/O PL 16.1 Item 7)
18	–	Spacer (P/O PL 16.1 Item 7)
19	–	Spacer (P/O PL 16.1 Item 7)
20	–	Bracket (P/O PL 16.1 Item 7)
21	–	Brake (P/O PL 16.1 Item 7)
22	–	Latch (P/O PL 16.1 Item 7)
23	–	Actuator (P/O PL 16.1 Item 7)



PL 16.4 Tray 4 (TTM)

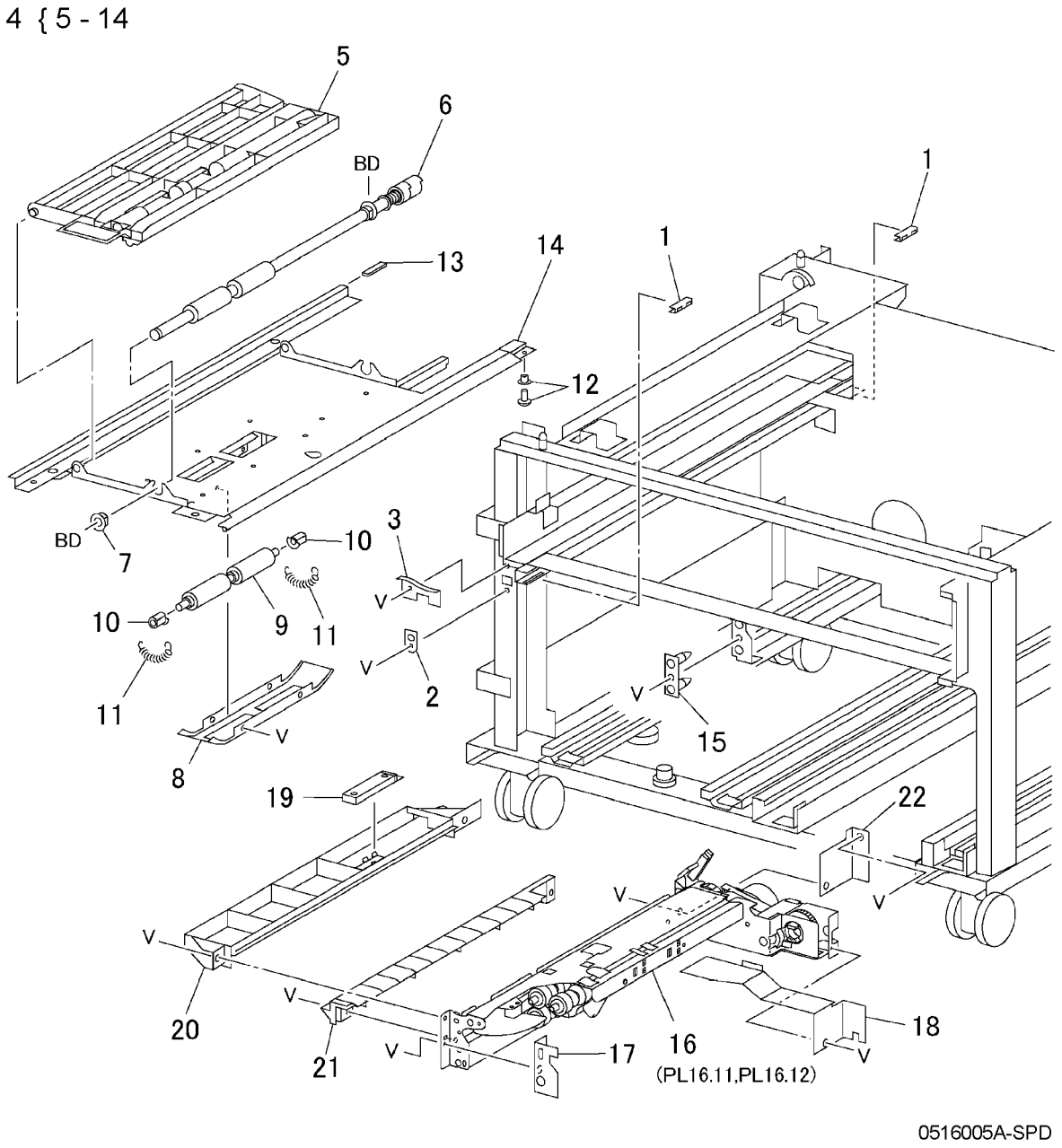
Item	Part	Description
1	802E23982	Tray 4 Cover
2	–	Tray Front Frame (P/O PL 16.1 Item 8)
3	–	Lift Shaft (P/O PL 16.1 Item 8)
4	–	Lift Gear (P/O PL 16.1 Item 8)
5	–	Bearing (P/O PL 16.1 Item 8)
6	–	Brake (P/O PL 16.1 Item 8)
7	–	Pulley (P/O PL 16.1 Item 8)
8	–	Cable Guide (P/O PL 16.1 Item 8)
9	012E10070	Tray Cable
10	–	Bottom Plate (P/O PL 16.1 Item 8)
11	–	Pad (P/O PL 16.1 Item 8)
12	–	Side Guide (P/O PL 16.1 Item 8)
13	–	Knob (P/O PL 16.1 Item 8)
14	–	Knob (P/O PL 16.1 Item 8)
15	009E26970	Spring
16	–	Tray Frame (P/O PL 16.1 Item 8)
17	–	Bracket (P/O PL 16.1 Item 8)
18	–	Latch (P/O PL 16.1 Item 8)
19	–	Actuator (P/O PL 16.1 Item 8)
20	–	Shaft (P/O PL 16.1 Item 8)
21	059E95920	Roll



0516004A-SPD

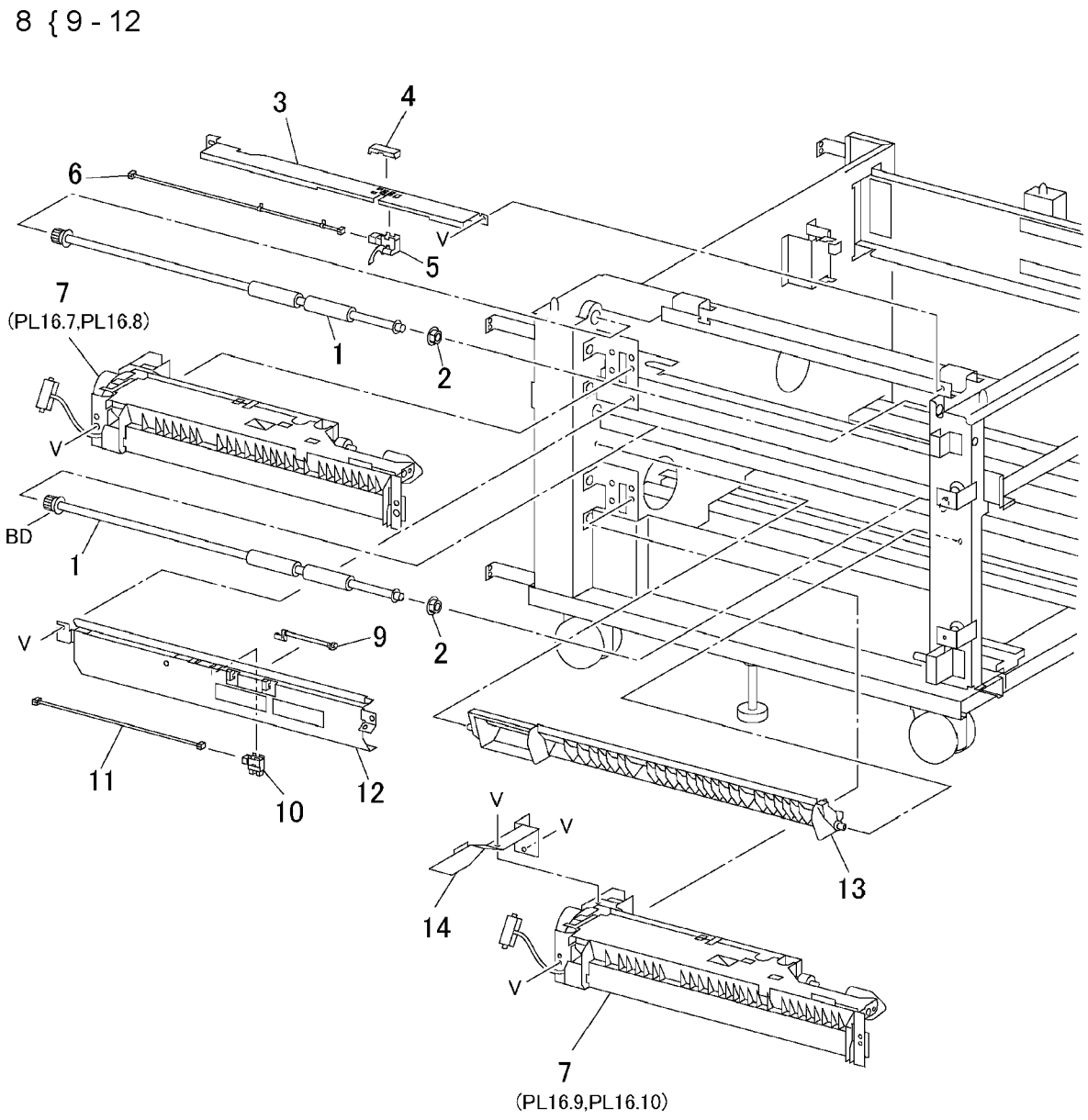
PL 16.5 Paper Feeder (TTM): 1 of 2

Item	Part	Description
1	–	Spacer (Not Spared)
2	–	Guide (Not Spared)
3	–	Stop (Not Spared)
4	059K21792	Tray 4 Transport Assembly
5	–	Upper Chute (P/O PL 16.5 Item 4)
6	–	Takeaway Roll (P/O PL 16.5 Item 4)
7	–	Bearing (P/O PL 16.5 Item 4)
8	–	Cover (P/O PL 16.5 Item 4)
9	–	Pinch Roll (P/O PL 16.5 Item 4)
10	–	Bearing (P/O PL 16.5 Item 4)
11	–	Spring (P/O PL 16.5 Item 4)
12	–	Spacer (P/O PL 16.5 Item 4)
13	–	Spacer (P/O PL 16.5 Item 4)
14	–	Lower Chute (P/O PL 16.5 Item 4)
15	–	Bracket (Not Spared)
16	059K18287	Tray 4 Feeder (REP 7.12)
17	–	Bracket (Not Spared)
18	–	Bracket (Not Spared)
19	130E87400	Tray 4 Feedout Sensor
20	054E18542	Upper Chute
21	054E18532	Lower Chute
22	–	Bracket (Not Spared)



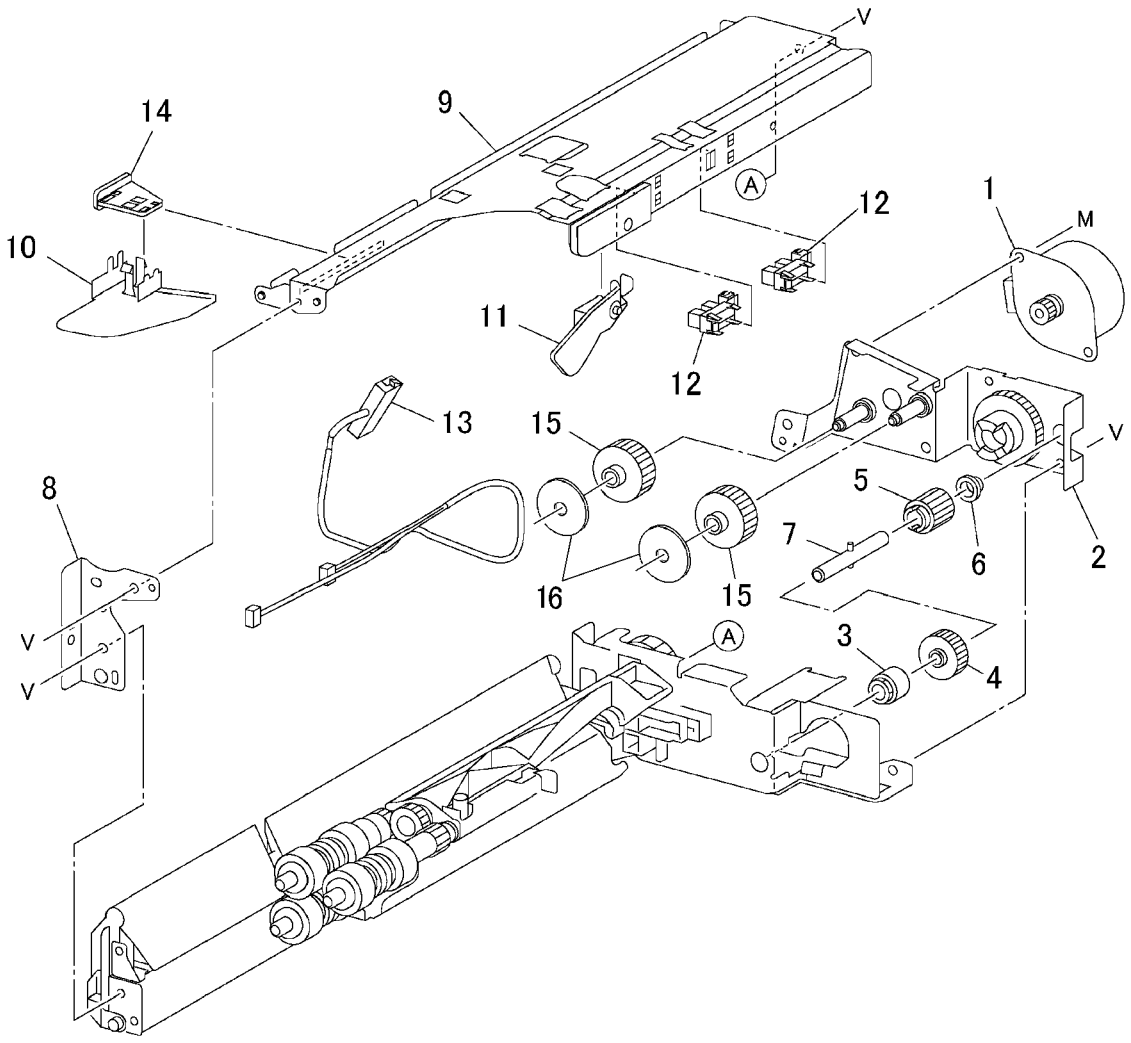
PL 16.6 Paper Feeder (TTM): 2 of 2

Item	Part	Description
1	059K18901	Takeaway Roll
2	–	Bearing (Not Spared)
3	–	Chute (Not Spared)
4	–	Cover (Not Spared)
5	130K61511	Takeaway Sensor
6	162K62811	Wire Harness
7	059K15577	Tray 2 Feeder, Tray 3 Feeder (Not Spared) (REP 7.10, REP 7.11)
8	054K18271	Chute Assembly
9	–	Actuator (P/O PL 16.6 Item 8)
10	130E81600	Tray 3 Feedout Sensor
11	–	Wire Harness (P/O PL 16.6 Item 8)
12	–	Chute (P/O PL 16.6 Item 8)
13	054E18521	Lower Chute
14	–	Bracket (Not Spared)



PL 16.7 Tray 2 Feeder (TTM): 1 of 2

Item	Part	Description
1	127K23231	Tray 2 Feed/Lift Motor
2	–	Bracket (P/O PL 16.6 Item 7)
3	005K83081	One-way Clutch
4	007K85730	One-way Gear
5	–	Gear (13T) (P/O PL 16.6 Item 7)
6	–	Bearing (P/O PL 16.6 Item 7)
7	–	Shaft (P/O PL 16.6 Item 7)
8	–	Front Frame (P/O PL 16.6 Item 7)
9	–	Upper Frame (P/O PL 16.6 Item 7)
10	–	Front Chute (P/O PL 16.6 Item 7)
11	–	Actuator (P/O PL 16.6 Item 7)
12	130E82190	Tray 2 Level Sensor
13	–	Wire Harness (P/O PL 16.6 Item 7)
14	–	Support (P/O PL 16.6 Item 7)
15	–	Gear (29T) (P/O PL 16.6 Item 7)
16	–	Washer (P/O PL 16.6 Item 7)



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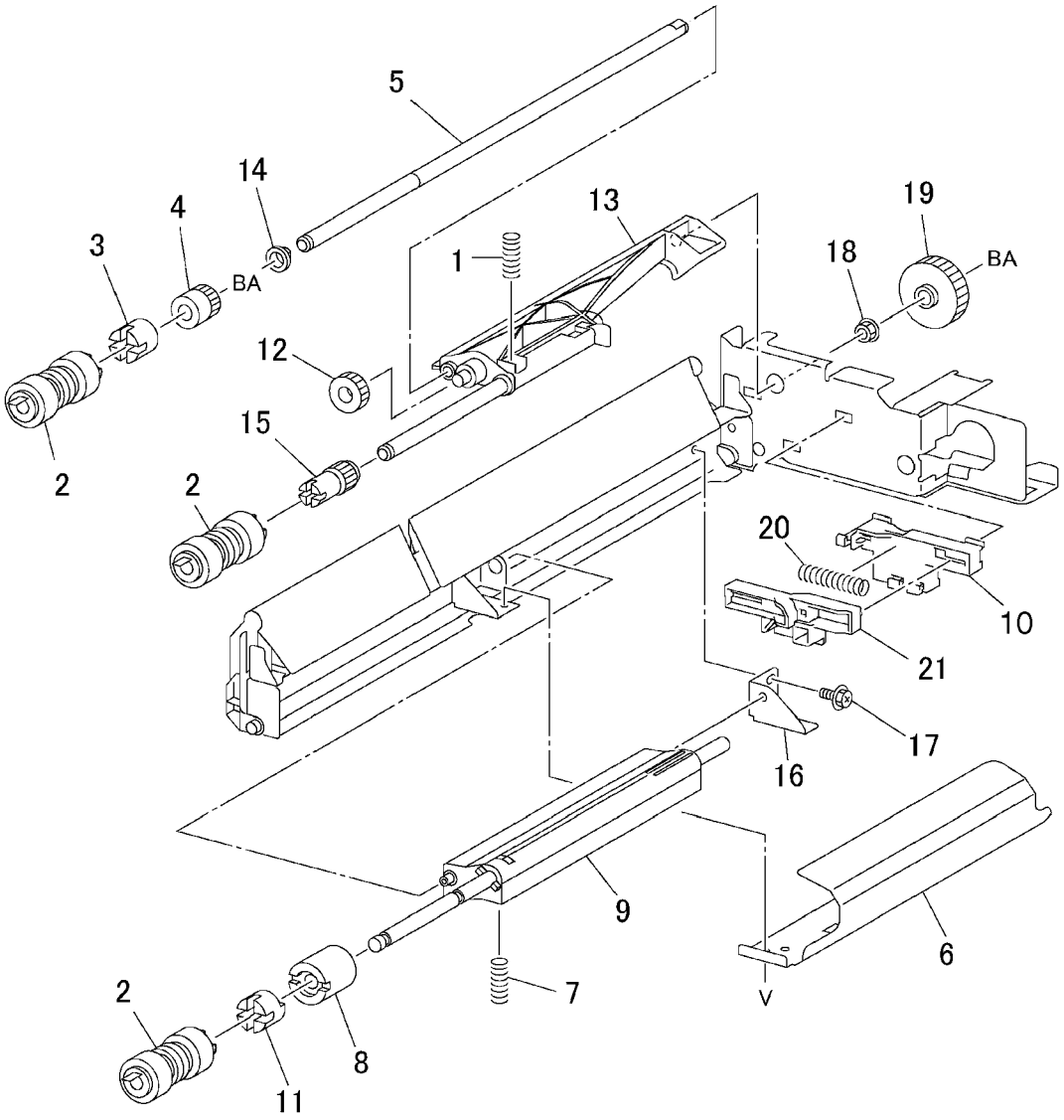
PL 16.8 Tray 2 Feeder (TTM): 2 of 2

Item	Part	Description
1	–	Spring (P/O PL 16.6 Item 7)
2	600K78460	Roll Kit (3 Rolls/Kit)
3	005K05890	One-way Clutch
4	–	Gear (P/O PL 16.6 Item 7)
5	–	Shaft (P/O PL 16.6 Item 7)
6	–	Chute (P/O PL 16.6 Item 7)
7	–	Spring (P/O PL 16.6 Item 7)
8	–	Friction Clutch (P/O PL 16.6 Item 7)
9	–	Support (P/O PL 16.6 Item 7)
10	–	Holder (P/O PL 16.6 Item 7)
11	–	Spacer (P/O PL 16.6 Item 7)
12	–	Gear (31T) (P/O PL 16.6 Item 7)
13	–	Support (P/O PL 16.6 Item 7)
14	–	Bearing (P/O PL 16.6 Item 7)
15	–	Gear (P/O PL 16.6 Item 7)
16	–	Support (P/O PL 16.6 Item 7)
17	–	Screw (P/O PL 16.6 Item 7)
18	–	Bearing (P/O PL 16.6 Item 7)
19	–	Gear (35T) (P/O PL 16.6 Item 7)
20	–	Spring (P/O PL 16.6 Item 7)
21	–	Lever (P/O PL 16.6 Item 7)



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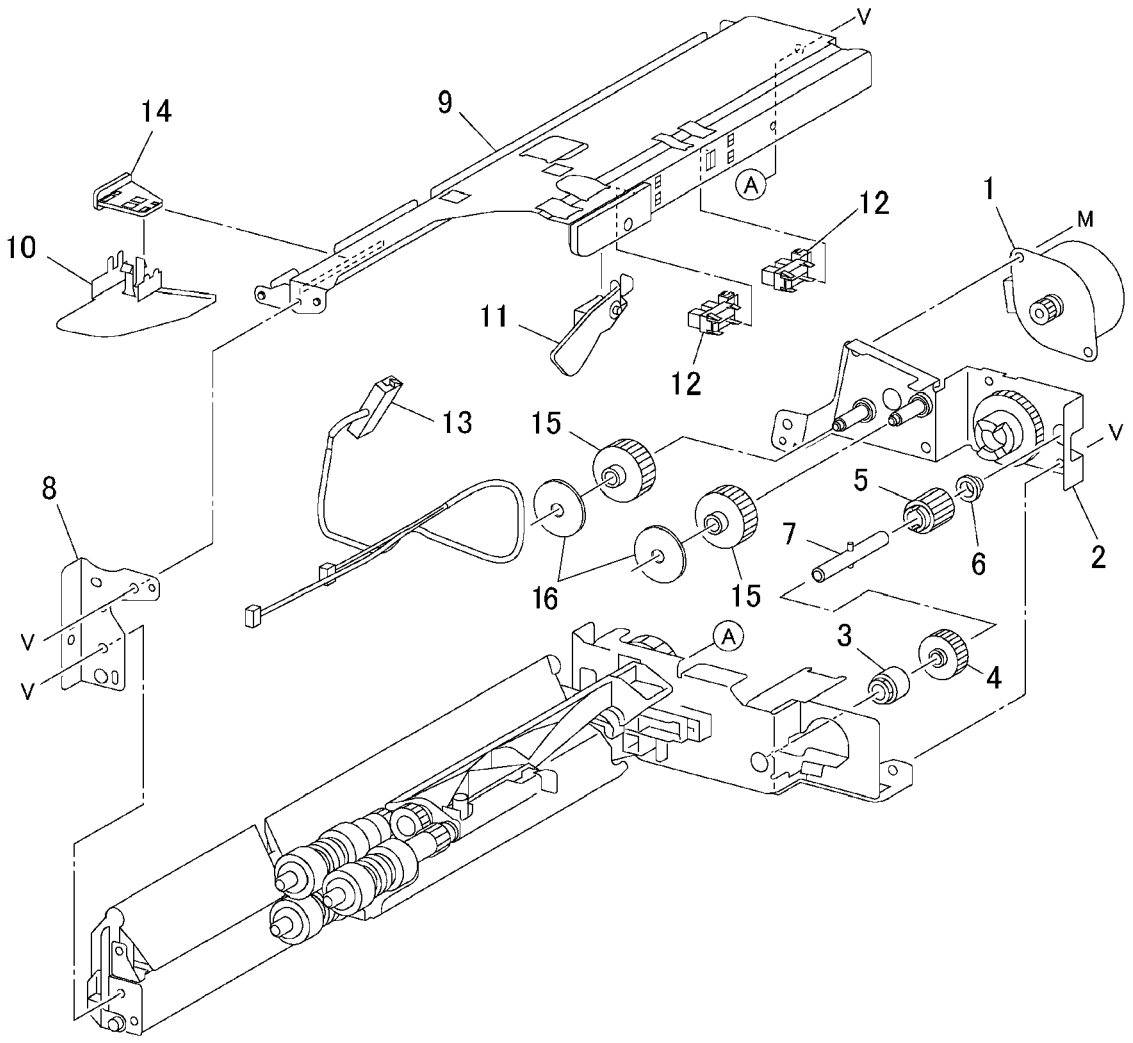
PL 16.9 Tray 3 Feeder (TTM): 1 of 2

Item	Part	Description
1	127K23231	Tray 3 Feed/Lift Motor
2	–	Bracket (P/O PL 16.6 Item 7)
3	005K83081	One-way Clutch
4	007K85730	One-way Gear
5	–	Gear (13T) (P/O PL 16.6 Item 7)
6	–	Bearing (P/O PL 16.6 Item 7)
7	–	Shaft (P/O PL 16.6 Item 7)
8	–	Front Frame (P/O PL 16.6 Item 7)
9	–	Upper Frame (P/O PL 16.6 Item 7)
10	–	Front Chute (P/O PL 16.6 Item 7)
11	–	Actuator (P/O PL 16.6 Item 7)
12	130E82190	Tray 3 Level/No Paper Sensor
13	–	Wire Harness (P/O PL 16.6 Item 7)
14	–	Support (P/O PL 16.6 Item 7)
15	–	Gear (29T) (P/O PL 16.6 Item 7)
16	–	Washer (P/O PL 16.6 Item 7)



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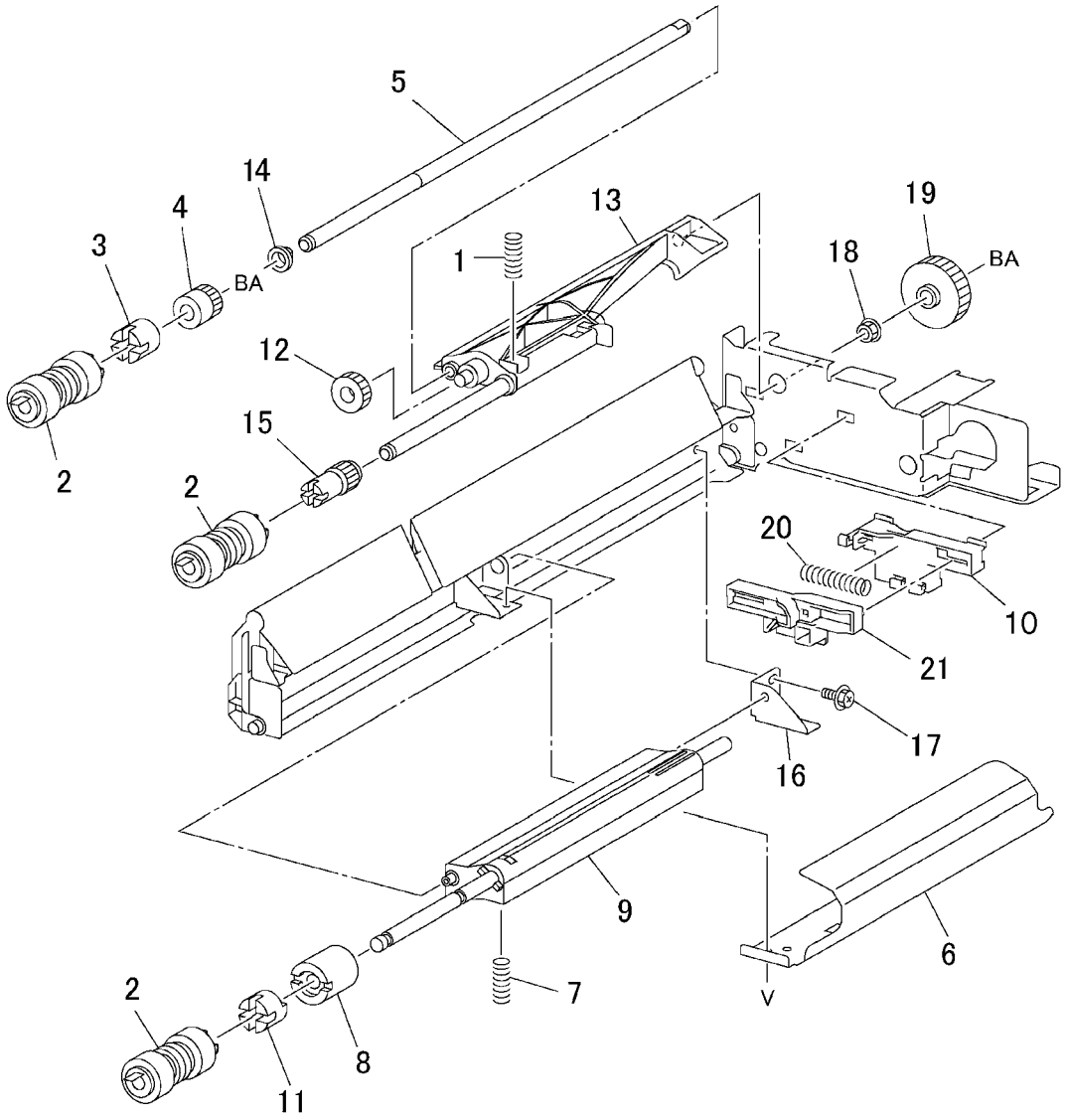
PL 16.10 Tray 3 Feeder (TTM): 2 of 2

Item	Part	Description
1	–	Spring (P/O PL 16.6 Item 7)
2	600K78460	Roll Kit (3 Rolls/Kit)
3	005K05890	One-way Clutch
4	–	Gear (P/O PL 16.6 Item 7)
5	–	Shaft (P/O PL 16.6 Item 7)
6	–	Chute (P/O PL 16.6 Item 7)
7	–	Spring (P/O PL 16.6 Item 7)
8	–	Friction Clutch (P/O PL 16.6 Item 7)
9	–	Support (P/O PL 16.6 Item 7)
10	–	Holder (P/O PL 16.6 Item 7)
11	–	Spacer (P/O PL 16.6 Item 7)
12	–	Gear (31T) (P/O PL 16.6 Item 7)
13	–	Support (P/O PL 16.6 Item 7)
14	–	Bearing (P/O PL 16.6 Item 7)
15	–	Gear (P/O PL 16.6 Item 7)
16	–	Support (P/O PL 16.6 Item 7)
17	–	Screw (P/O PL 16.6 Item 7)
18	–	Bearing (P/O PL 16.6 Item 7)
19	–	Gear (35T) (P/O PL 16.6 Item 7)
20	–	Spring (P/O PL 16.6 Item 7)
21	–	Lever (P/O PL 16.6 Item 7)



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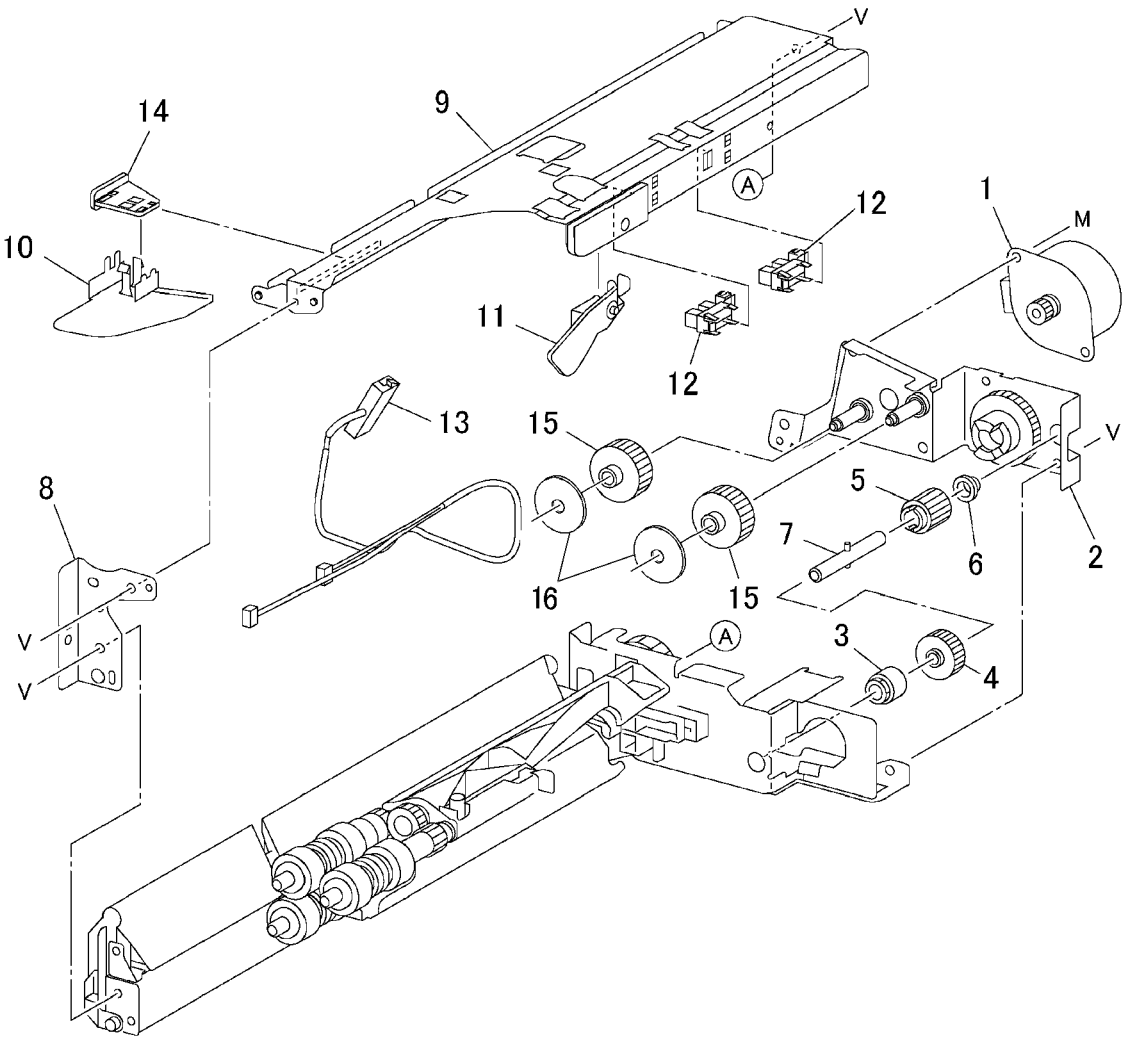
PL 16.11 Tray 4 Feeder (TTM): 1 of 2

Item	Part	Description
1	127K23231	Tray 4 Feed/Lift Motor (REP 7.4)
2	–	Bracket (P/O PL 16.5 Item 16)
3	005K83081	One-way Clutch
4	007K85730	One-way Gear
5	–	Gear (13T) (P/O PL 16.5 Item 16)
6	–	Bearing (P/O PL 16.5 Item 16)
7	–	Shaft (P/O PL 16.5 Item 16)
8	–	Front Frame (P/O PL 16.5 Item 16)
9	–	Upper Frame (P/O PL 16.5 Item 16)
10	–	Front Chute (P/O PL 16.5 Item 16)
11	–	Actuator (P/O PL 16.5 Item 16)
12	–	Tray 4 Level/No Paper Sensor
13	162K56590	Wire Harness
14	–	Support (P/O PL 16.5 Item 16)
15	–	Gear (29T) (P/O PL 16.5 Item 16)
16	–	Washer (P/O PL 16.5 Item 16)



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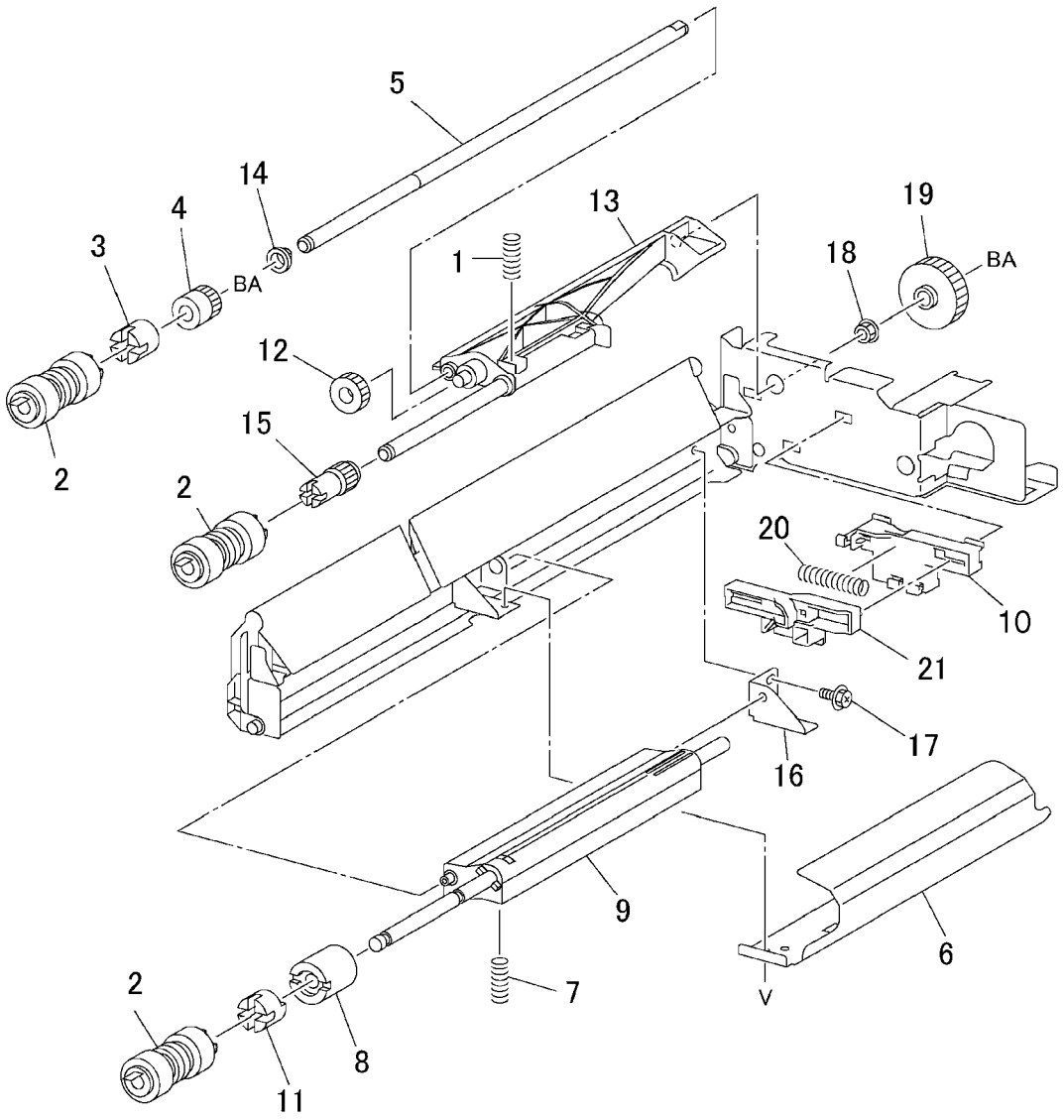
PL 16.12 Tray 4 Feeder (TTM): 2 of 2

Item	Part	Description
1	–	Spring (P/O PL 16.5 Item 16)
2	600K78460	Roll Kit (3 Rolls/Kit)
3	005K05890	One-way Clutch
4	–	Gear (P/O PL 16.5 Item 16)
5	–	Shaft (P/O PL 16.5 Item 16)
6	–	Chute (P/O PL 16.5 Item 16)
7	–	Spring (P/O PL 16.5 Item 16)
8	–	Friction Clutch (P/O PL 16.5 Item 16)
9	–	Support (P/O PL 16.5 Item 16)
10	–	Holder (P/O PL 16.5 Item 16)
11	–	Spacer (P/O PL 16.5 Item 16)
12	–	Gear (31T) (P/O PL 16.5 Item 16)
13	–	Support (P/O PL 16.5 Item 16)
14	–	Bearing (P/O PL 16.5 Item 16)
15	–	Gear (P/O PL 16.5 Item 16)
16	–	Support (P/O PL 16.5 Item 16)
17	–	Screw (P/O PL 16.5 Item 16)
18	–	Bearing (P/O PL 16.5 Item 16)
19	–	Gear (35T) (P/O PL 16.5 Item 16)
20	–	Spring (P/O PL 16.5 Item 16)
21	–	Lever (P/O PL 16.5 Item 16)



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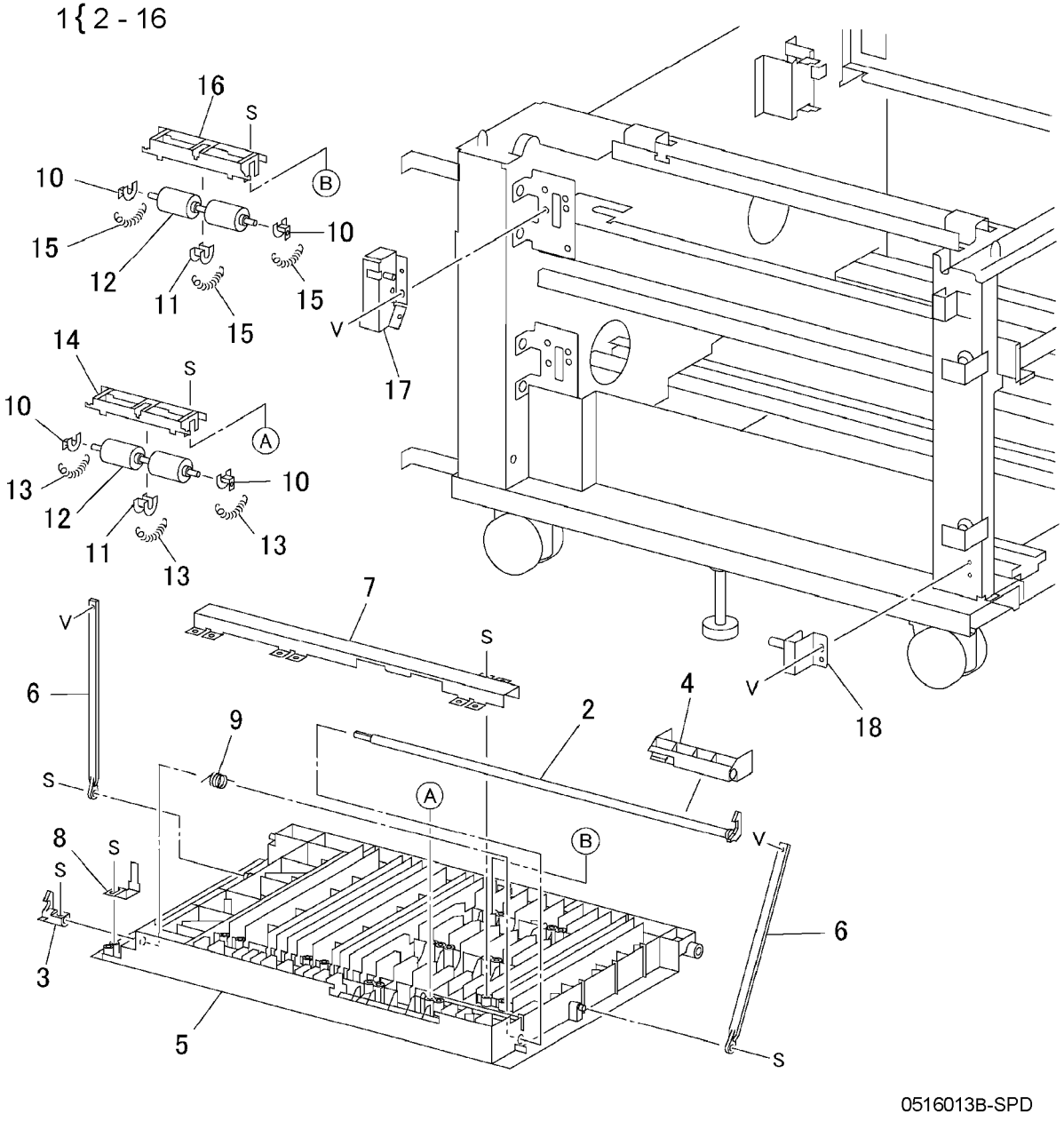
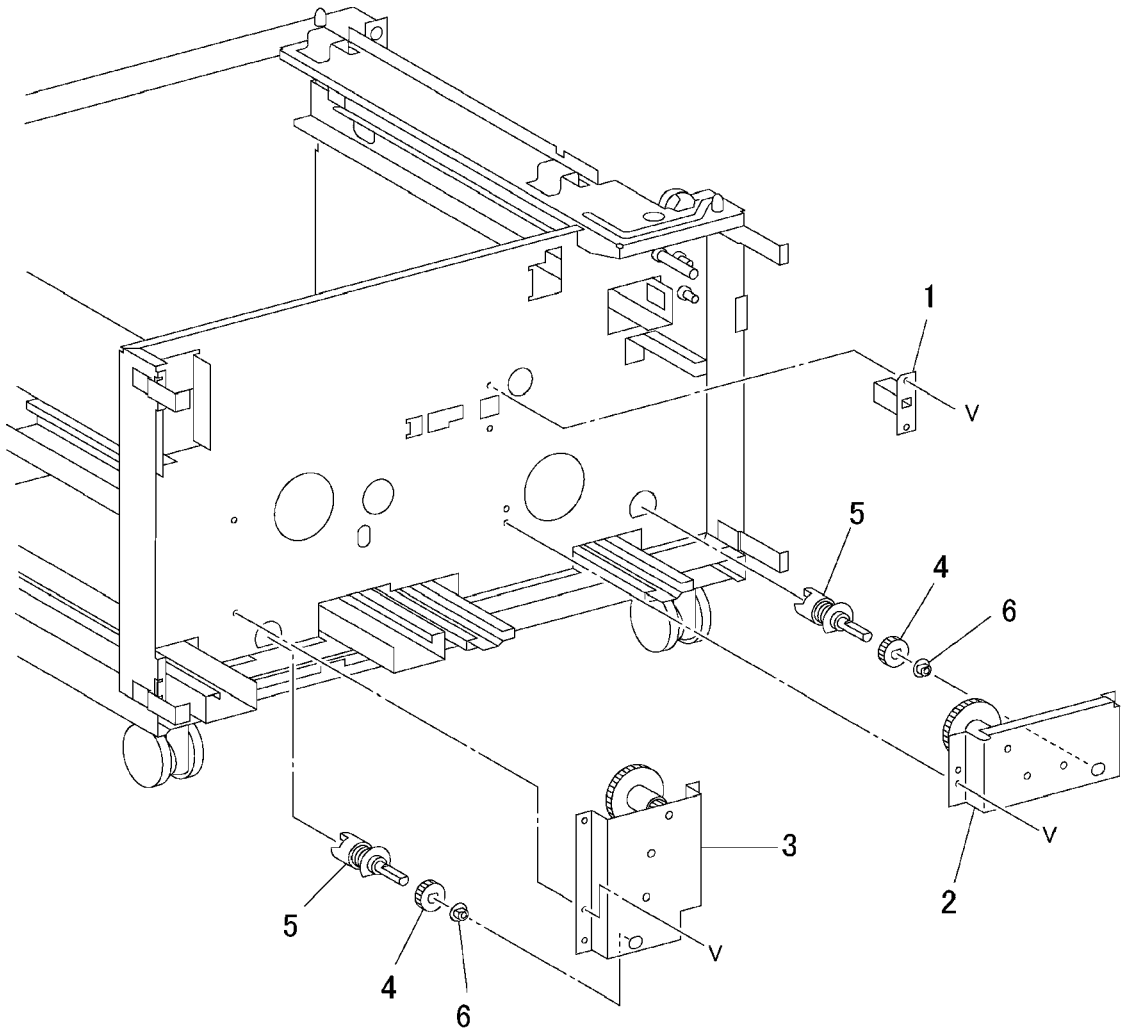
PL 16.13 Left Cover Assembly (TTM)

Item	Part	Description
1	802K65602	Left Cover Assembly (REP 14.11)
2	003E53701	Shaft
3	003E53710	Hook
4	011E10800	Handle
5	–	Left Cover (P/O PL 16.13 Item 1)
6	–	Support (P/O PL 16.13 Item 1)
7	–	Cover (P/O PL 16.13 Item 1)
8	–	Actuator (P/O PL 16.13 Item 1)
9	–	Spring (P/O PL 16.13 Item 1)
10	–	Bearing (P/O PL 16.13 Item 1)
11	–	Bearing (P/O PL 16.13 Item 1)
12	–	Pinch Roll (P/O PL 16.13 Item 1)
13	809E28961	Spring
14	–	Bracket (P/O PL 16.13 Item 1)
15	809E28980	Spring
16	–	Bracket (P/O PL 16.13 Item 1)
17	015K49471	Interlock Switch
18	–	Bracket (Not Spared)



PL 16.14 Tray 3/4 Lift Gear Assembly (TTM)

Item	Part	Description
1	–	Transport Guide (Not Spared)
2	015K49461	Gear Assembly (Tray 3)
3	015K49451	Gear Assembly (Tray 4)
4	007E66080	Lift Gear
5	011K96791	Coupling
6	–	Bearing (Not Spared)



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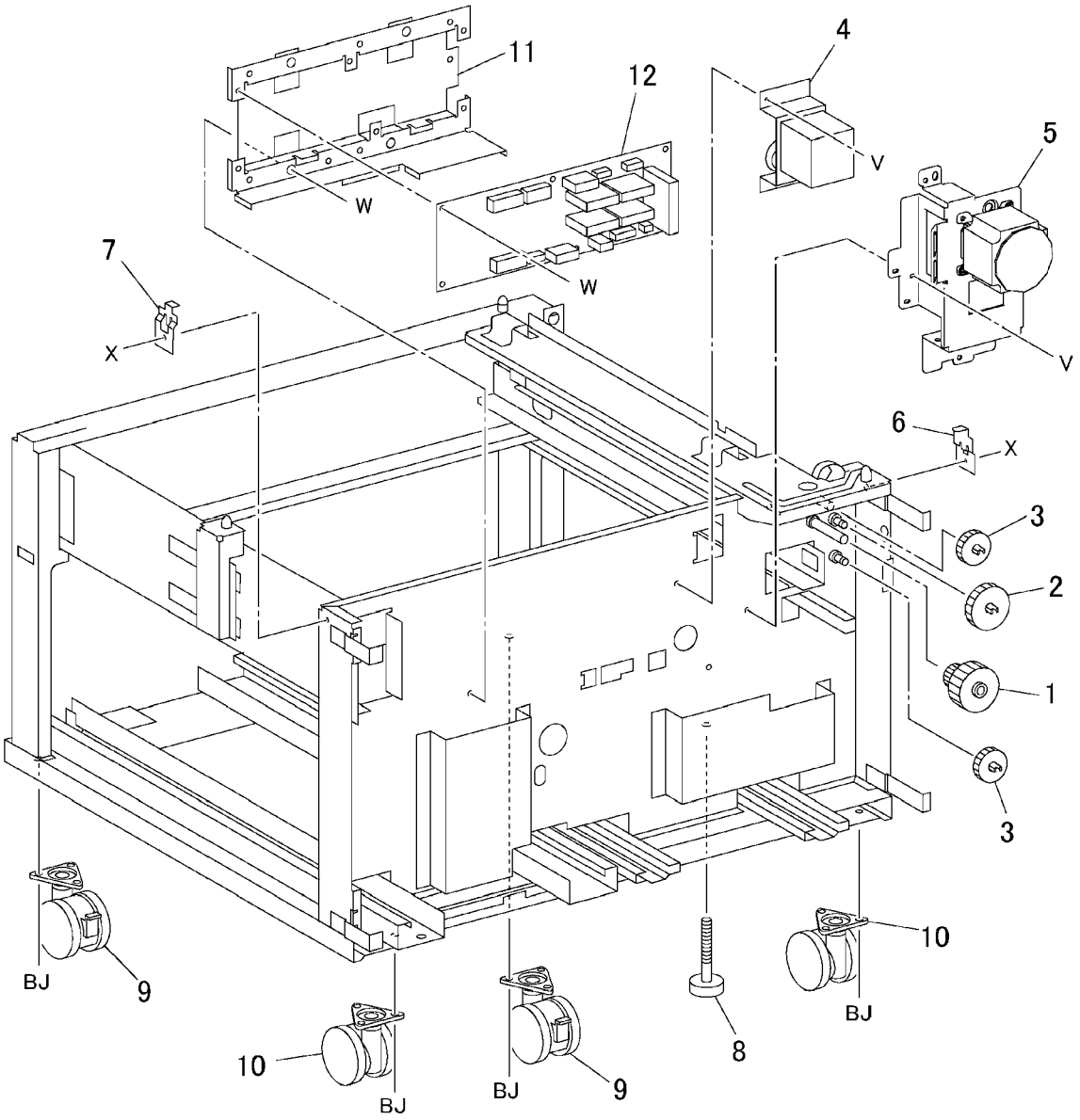
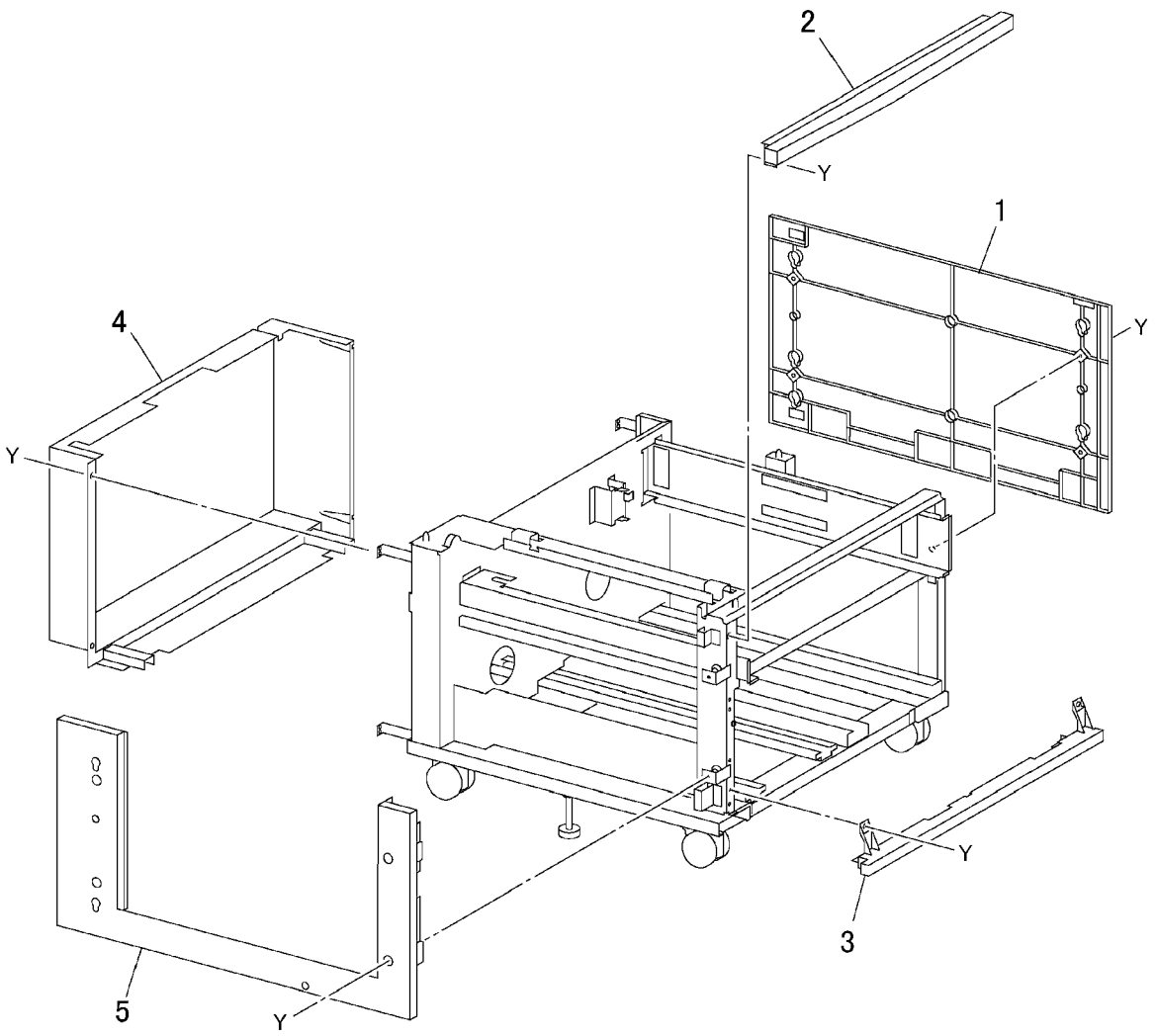
PL 16.15 Electrical Components and Casters (TTM)

Item	Part	Description
1	007E66060	Gear (23/46T)
2	007E66070	Gear (46T)
3	007E66050	Gear (33T)
4	127K31841	Takeaway Motor 2
5	127K36021	Takeaway Motor 1
6	–	Left Coupling (Not Spared)
7	–	Right Coupling (Not Spared)
8	–	Foot (Not Spared)
9	017K93740	Caster
10	017K93750	Caster
11	–	Bracket (Not Spared)
12	960K01753	TT Module PWB



PL 16.16 Covers (TTM)

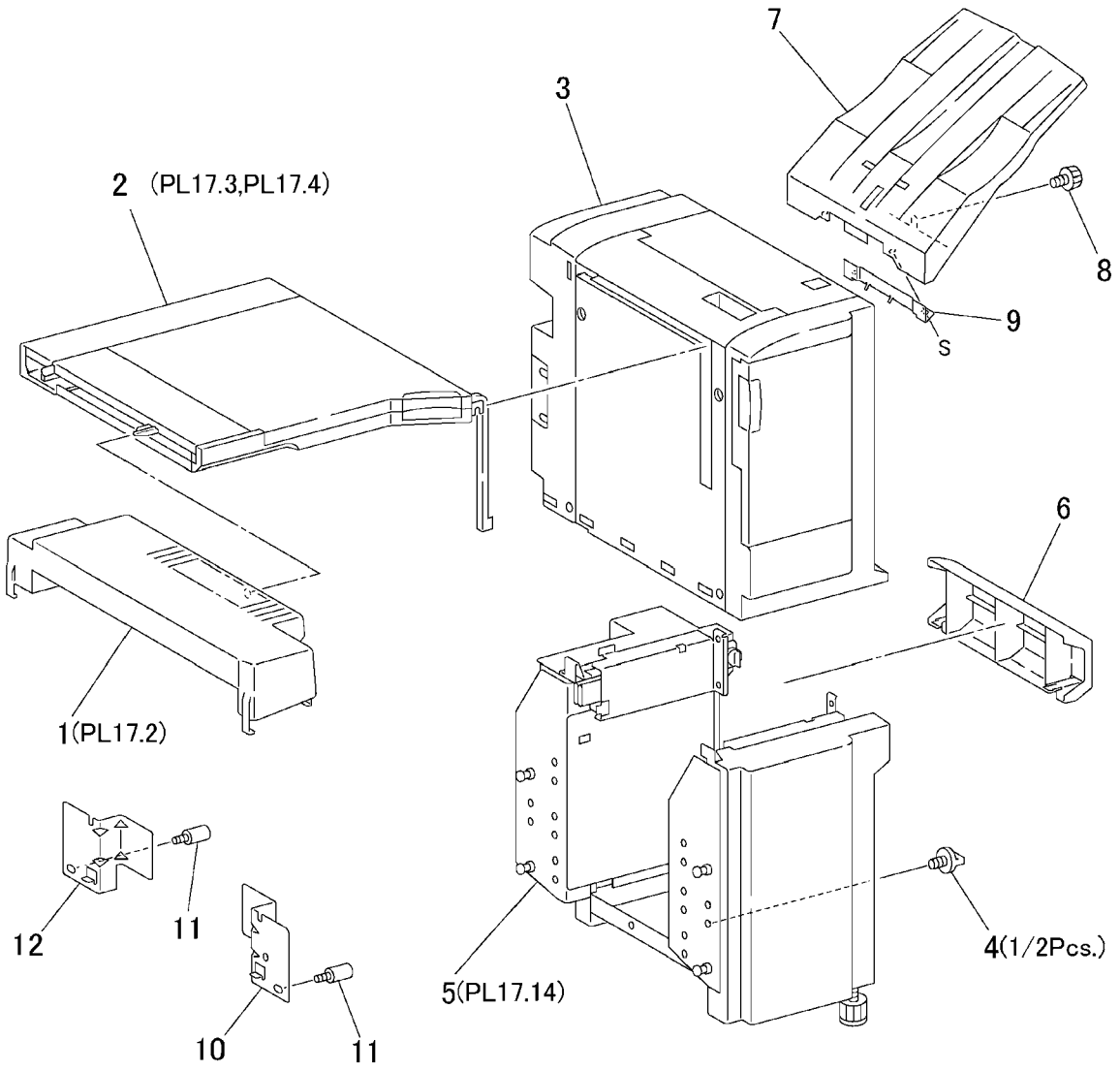
Item	Part	Description
1	–	Right Cover (Not Spared)
2	802E23952	Front Upper Cover
3	802E23961	Front Lower Cover
4	802K50492	Rear Cover (REP 14.9)
5	802E23931	Left Lower Cover (REP 14.12)



0516016B-SPD

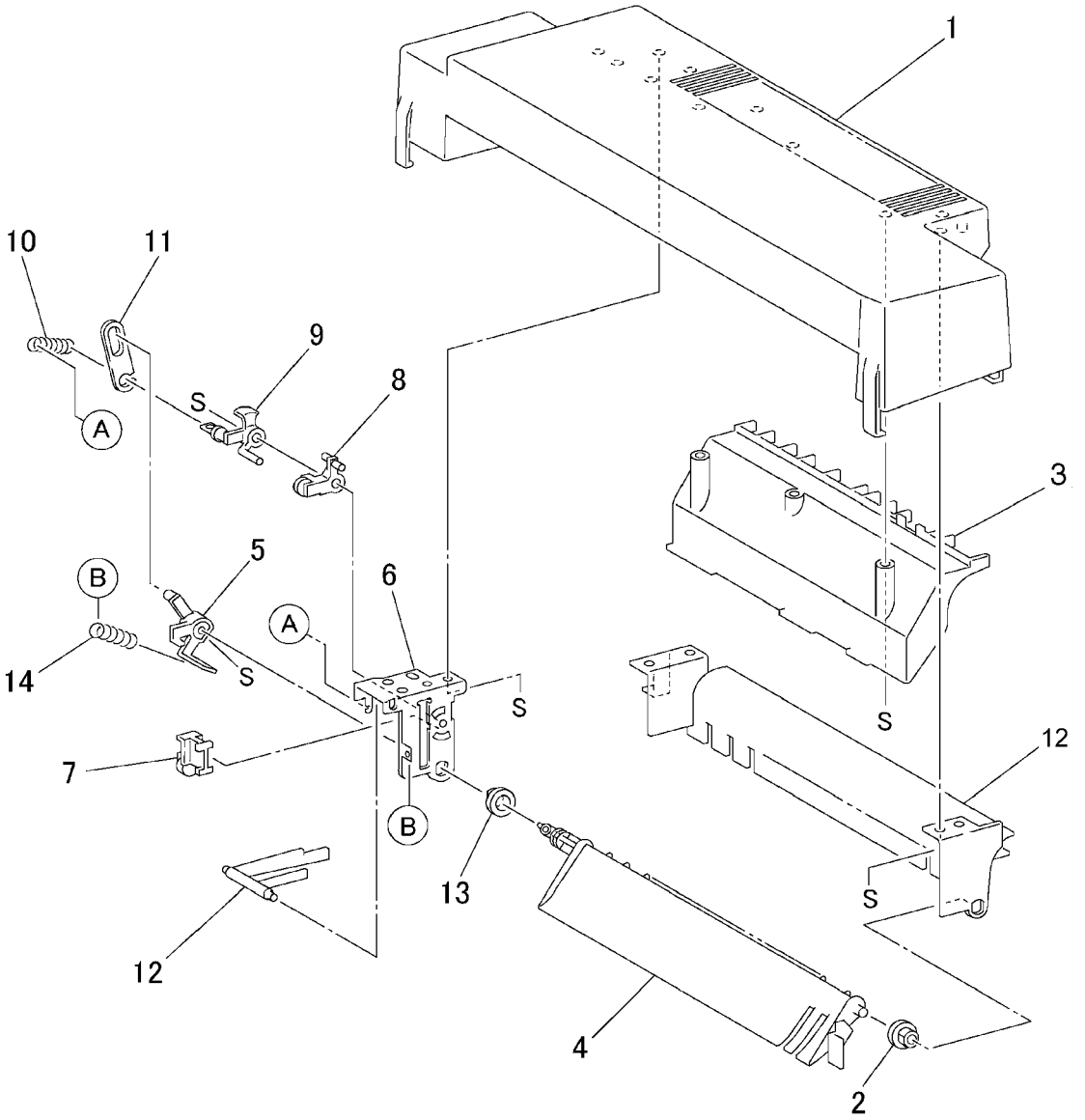
PL 17.1 Office Finisher

Item	Part	Description
1	848K06640	Gate Assembly
2	801K29800	H-Transport Assembly (WC7228/7235/7245/7328/7345/7345) (REP 12.1)
–	801K34540	H-Transport Assembly (WC7346 Only)
3	–	Stapler Finisher (Not Spared)
4	003K12090	Knob Screw
5	–	Rack Assembly (Not Spared) (REP 12.19)
6	–	Right Cover (Not Spared)
7	050E19620	Stacker Tray (REP 12.20)
8	026E93560	Screw
9	–	Bracket (Not Spared)
10	–	Front Bracket (Not Spared)
11	–	Stud Screw (Not Spared)
12	–	Rear Bracket (Not Spared)



PL 17.2 Gate Assembly

Item	Part	Description
1	–	Gate Cover (P/O PL 17.1 Item 1)
2	–	Bearing (P/O PL 17.1 Item 1)
3	–	Chute (P/O PL 17.1 Item 1)
4	–	In Gate (P/O PL 17.1 Item 1)
5	–	In Gate Lever (P/O PL 17.1 Item 1)
6	–	Gate Bracket (P/O PL 17.1 Item 1)
7	–	Link Assembly (P/O PL 17.1 Item 1)
8	–	Lever Assembly (P/O PL 17.1 Item 1)
9	–	Lever (P/O PL 17.1 Item 1)
10	–	Spring (P/O PL 17.1 Item 1)
11	–	Gate Link (P/O PL 17.1 Item 1)
12	–	Exit Chute (P/O PL 17.1 Item 1)
13	–	Bearing (P/O PL 17.1 Item 1)
14	–	Spring (P/O PL 17.1 Item 1)



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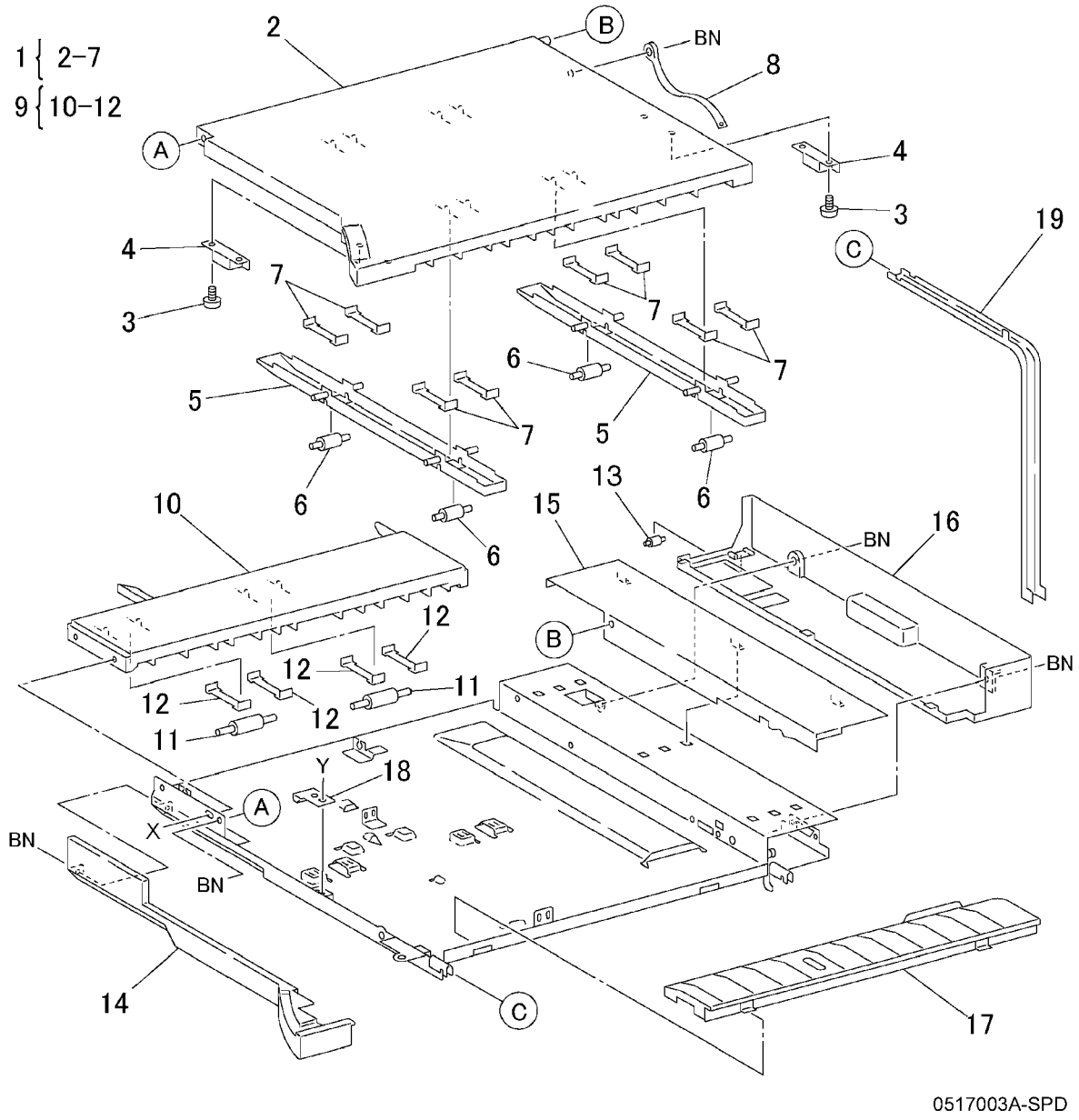
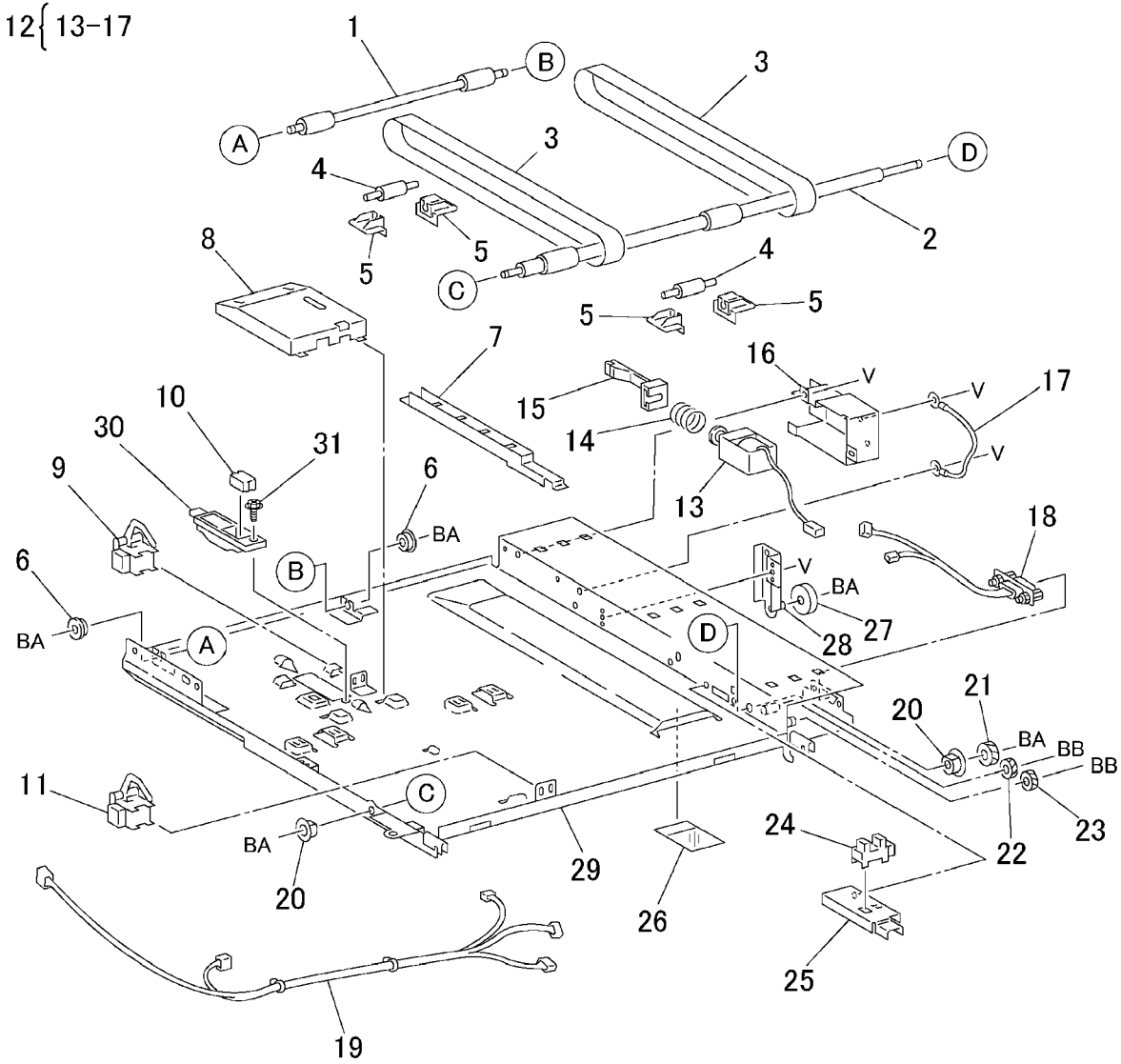
PL 17.3 H-Transport Assembly: 1 of 2

Item	Part	Description
1	802K28601	Entrance Upper Cover Assembly
2	–	H-Transport Cover (P/O PL 17.3 Item 1) (REP 12.17)
3	–	Screw (P/O PL 17.3 Item 1)
4	121E89781	Magnet
5	–	Guide (P/O PL 17.3 Item 1)
6	–	Roll (P/O PL 17.3 Item 1)
7	–	Spring Plate (P/O PL 17.3 Item 1)
8	–	Stop (P/O PL 17.1 Item 2)
9	848K07370	Entrance Upper Cover Assembly
10	–	Entrance Upper Cover (P/O PL 17.3 Item 9)
11	–	Roll (P/O PL 17.3 Item 9)
12	–	Spring Plate (P/O PL 17.3 Item 9)
13	–	Roll (P/O PL 17.1 Item 2)
14	–	Front Cover (P/O PL 17.1 Item 2)
15	–	Upper Rear Cover (P/O PL 17.1 Item 2)
16	–	Rear Cover (P/O PL 17.1 Item 2)
17	–	Exit Guide (P/O PL 17.1 Item 2)
18	–	Stop (P/O PL 17.1 Item 2)
19	849E04831	Support



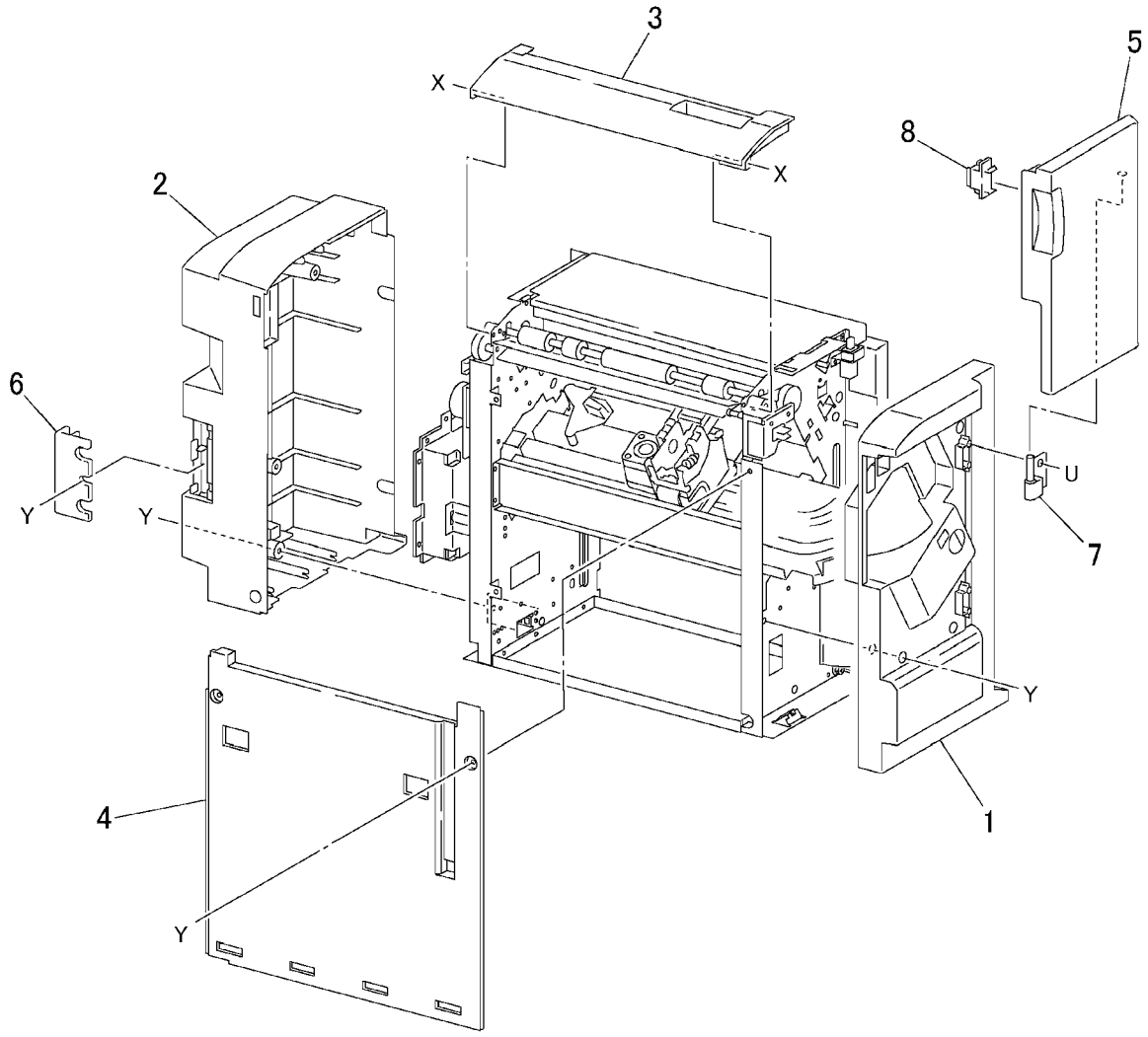
PL 17.4 H-Transport Assembly: 2 of 2

Item	Part	Description
1	–	H-Transport Roll (In) (P/O PL 17.1 Item 2)
2	–	H-Transport Roll (Out) (P/O PL 17.1 Item 2)
3	023E20021	H-Transport Belt (REP 12.2)
4	–	Roll (P/O PL 17.1 Item 2)
5	–	Support (P/O PL 17.1 Item 2)
6	–	Bearing (P/O PL 17.1 Item 2)
7	802E30150	Harness Guide
8	802E30140	Cover
9	130K69840	Entrance Sensor (REP 12.3)
10	130E84300	Top Tray Full Sensor
11	130K69830	Exit Sensor
12	802K28581	Gate In Solenoid Assembly
13	–	Gate In Solenoid (P/O PL 17.4 Item 12)
14	–	Spring (P/O PL 17.4 Item 12)
15	–	LInk (P/O PL 17.4 Item 12)
16	–	Cover (P/O PL 17.4 Item 12)
17	–	Ground Wire (P/O PL 17.4 Item 12)
18	162K69072	Wire Harness
19	962K14551	Wire Harness
20	–	Bearing (P/O PL 17.1 Item 2)
21	007E67850	Gear (37T)
22	007E67860	Gear (30T)
23	007E67870	Gear (26T)
24	130K88780	Interlock Sensor
25	–	Bracket (P/O PL 17.1 Item 2)
26	038E24650	Paper Guide
27	022E88210	Roll
28	–	Bracket (P/O PL 17.1 Item 2)
29	–	Frame (P/O PL 17.1 Item 2)
30	–	Bracket (P/O PL 17.1 Item 2)
31	–	Screw (P/O PL 17.1 Item 2)



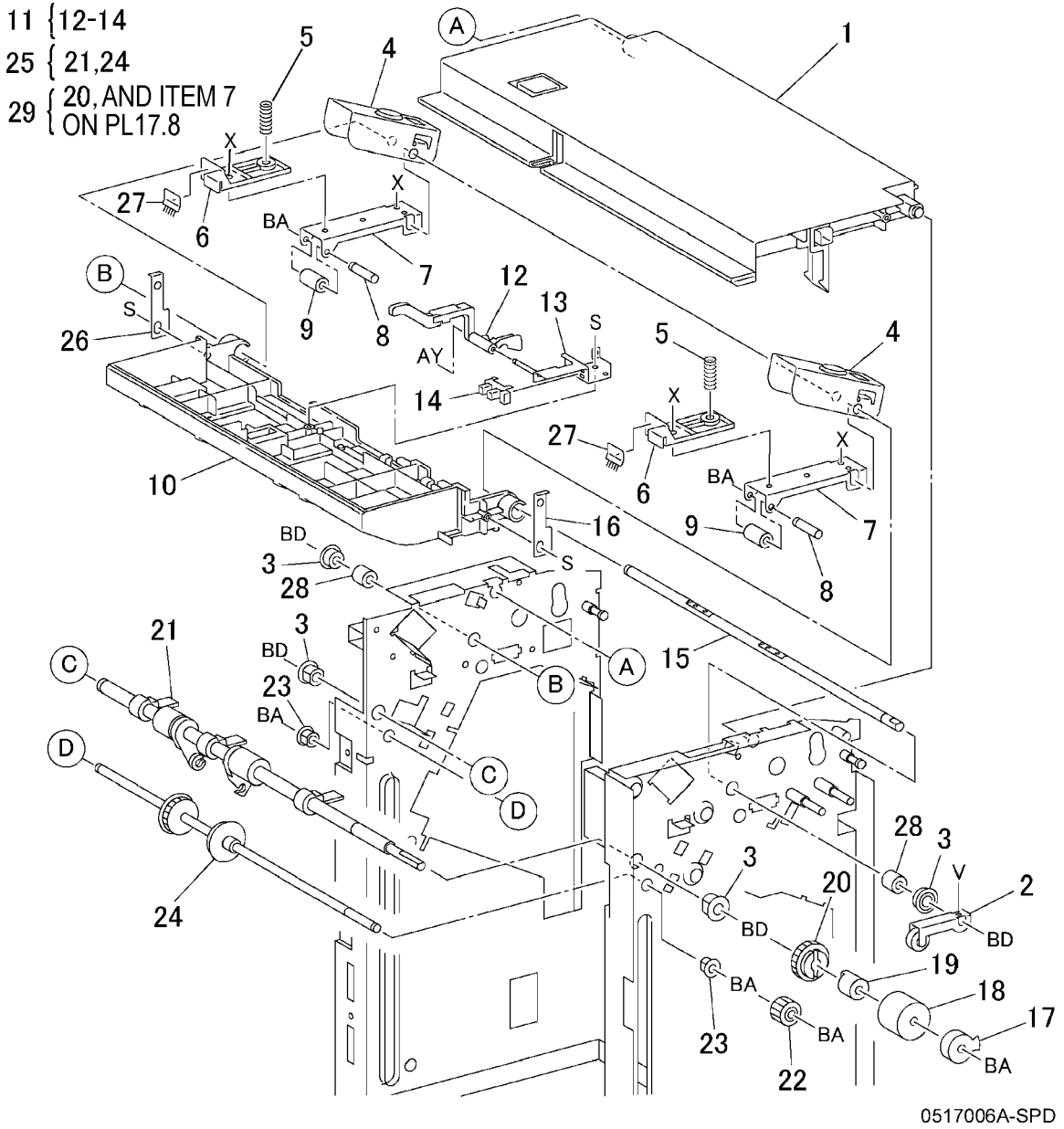
PL 17.5 Covers

Item	Part	Description
1	802E28560	Front Cover
2	802E28521	Rear Cover
3	802E28530	Top Cover
4	802E50710	Left Cover
5	802E28550	Front Cover Door
6	802E28570	Left Panel
7	–	Hinge (Not Spared)
8	121E88470	Magnet



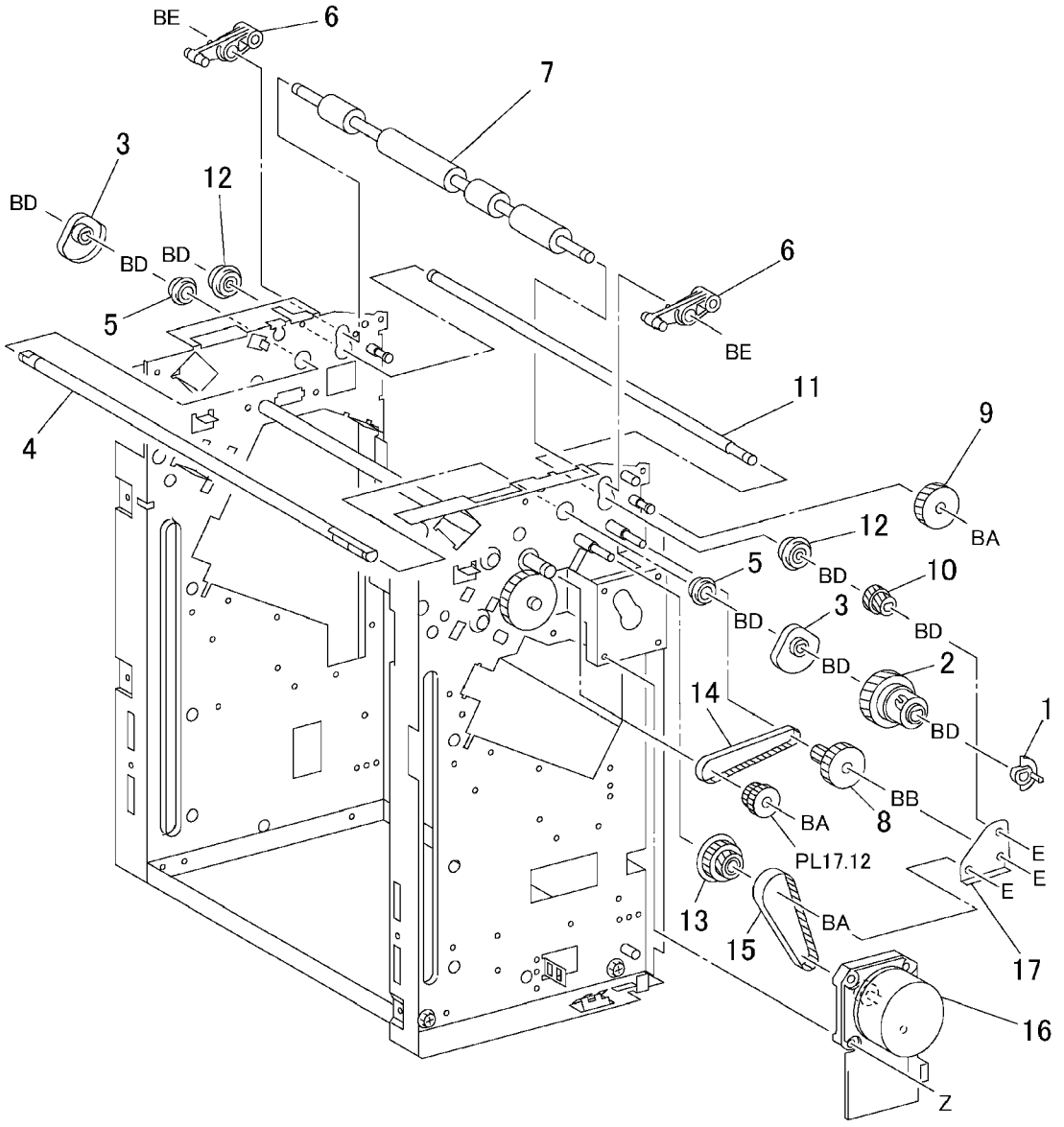
PL 17.6 Top Cover and Eject Roll

Item	Part	Description
1	802K28571	Top Cover
2	–	Arm (Not Spared)
3	–	Bearing (Not Spared)
4	–	Bracket (Not Spared)
5	–	Spring (Not Spared)
6	830E81670	Support
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 12.5)
12	–	Actuator (P/O PL 17.6 Item 11)
13	–	Bracket (P/O PL 17.6 Item 11)
14	130K88770	Stack Height Sensor
15	–	Shaft (Not Spared)
16	–	Link (Not Spared)
17	120E20970	Actuator
18	005E16220	Clutch
19	005E16510	Collar
20	007E76930	Gear
21	–	Eject Roll (P/O PL 17.6 Item 25)
22	007K86910	Gear (20T)
23	013E20240	Bearing
24	–	Eject Shaft (P/O PL 17.6 Item 25)
25	006K21730	Eject Roll Assembly (REP 12.6)
26	–	Link (Not Spared)
27	–	Static Eliminator (Not Spared)
28	–	Collar (Not Spared)
29	604K09720	Eject Gear Kit



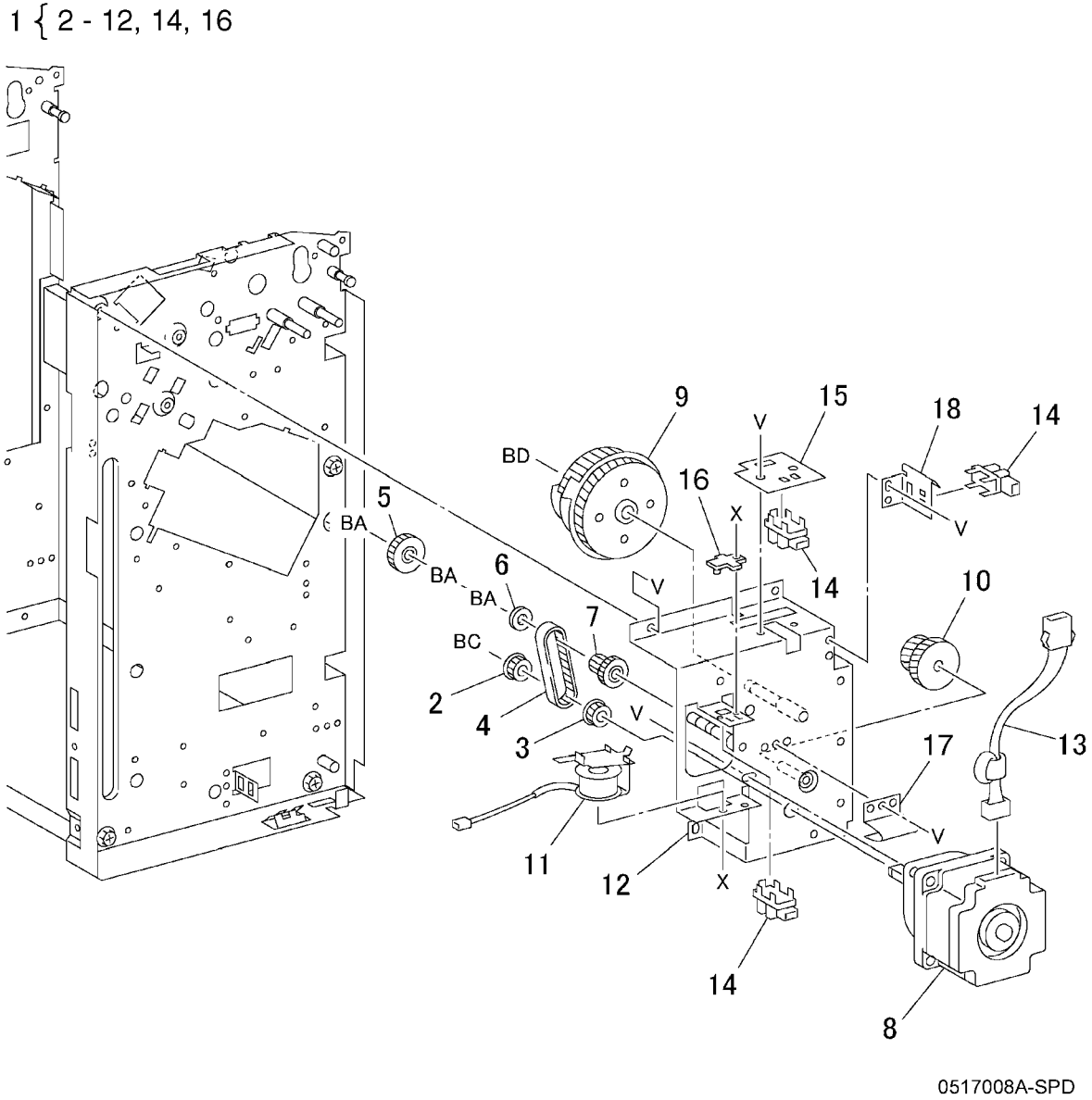
PL 17.7 Paper Transportation: 1 of 2

Item	Part	Description
1	120E20690	Actuator
2	121K24610	Decurler Cam Clutch
3	008E94070	Cam
4	–	Shaft (Not Spared)
5	–	Bearing (Not Spared)
6	031E94030	Arm
7	059K20210	Decurler Roll (REP 12.7)
8	007E67740	Gear
9	007E67750	Gear
10	007E72090	Gear
11	–	Shaft (Not Spared)
12	–	Bearing (Not Spared)
13	007E67730	Gear
14	023E20160	Belt (REP 12.9)
15	423W29655	Belt
16	127K45830	Finisher Drive Motor (REP 12.8)
17	–	Bracket (Not Spared)



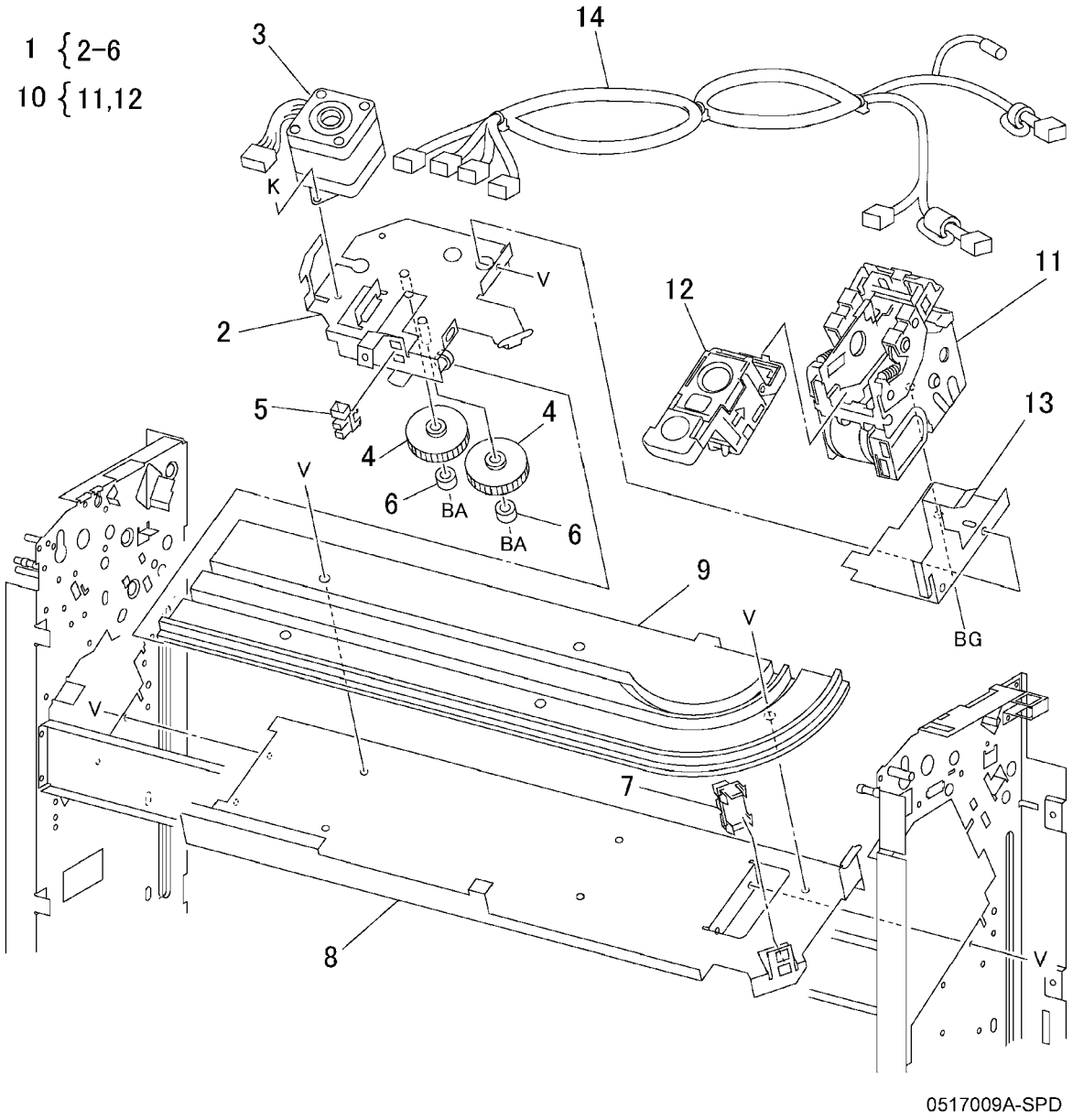
PL 17.8 Paper Transportation: 2 of 2

Item	Part	Description
1	604K36490	Finisher DR Repair Kit (REP 12.18)
2	020E34970	Pulley
3	007E67780	Gear
4	423W28054	Belt
5	007E67810	Gear
6	–	Collar (P/O PL 17.8 Item 1)
7	007E76940	Gear Pulley
8	127K32870	Eject Motor
9	007E67800	Cam Gear
10	007E67770	Gear
11	–	Set Clamp Solenoid (Not Spared)
12	–	Bracket (P/O PL 17.8 Item 1)
13	–	Wire Harness (Not Spared)
14	130K88780	Home Sensor
15	–	Plate (Not Spared)
16	–	Stop (P/O PL 17.8 Item 1)
17	–	Spring (Not Spared)
18	–	Bracket (Not Spared)



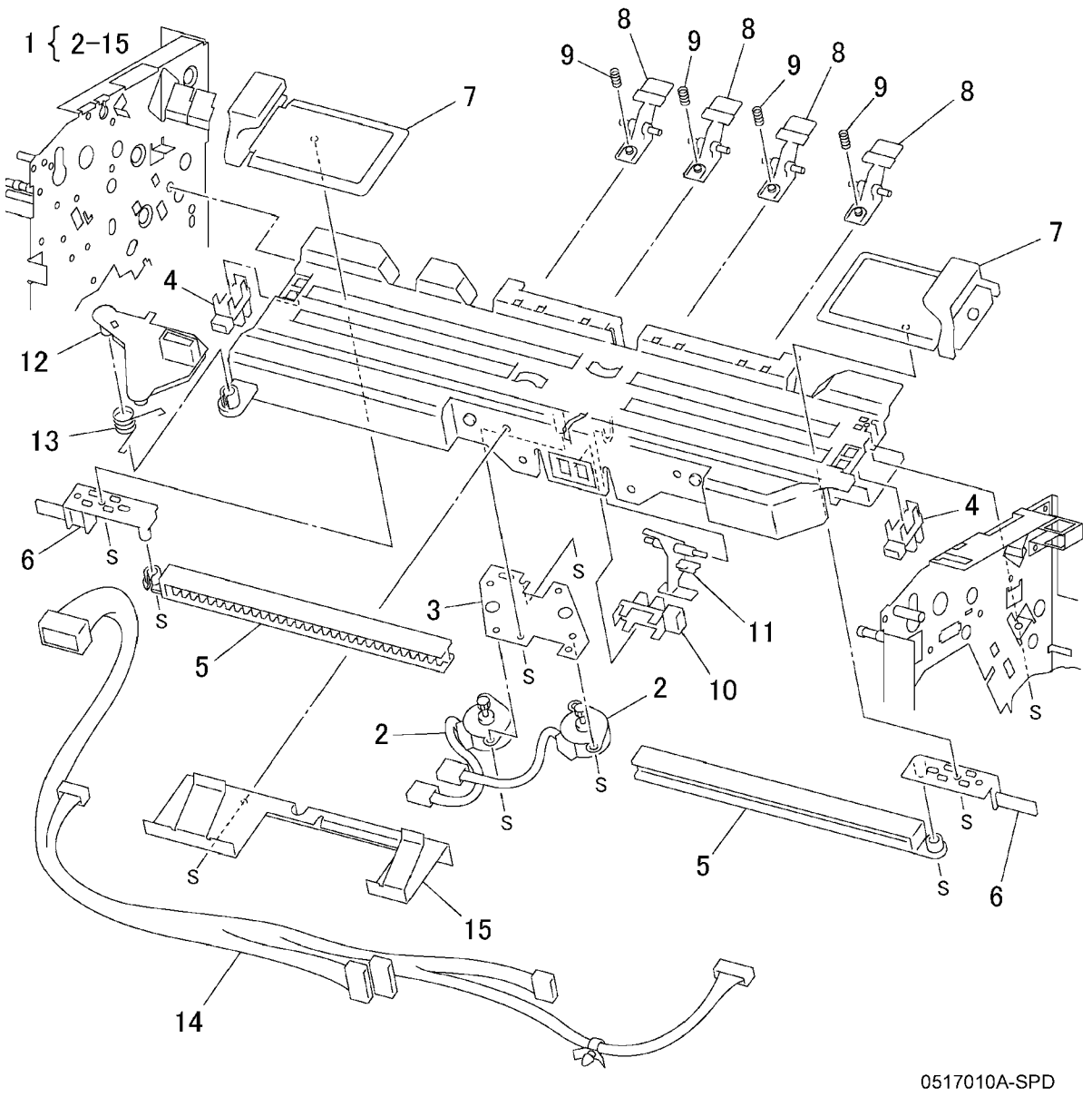
PL 17.9 Stapler Unit

Item	Part	Description
1	041K94260	Carriage Assembly
2	–	Bracket (P/O PL 17.9 Item 1)
3	127K32861	Staple Move Motor
4	–	Gear (P/O PL 17.9 Item 1)
5	130K88770	Staple Move Sensor
6	–	Roll (P/O PL 17.9 Item 1)
7	–	Staple Front Corner Sensor (Not Spared)
8	–	Plate (Not Spared)
9	001E59600	Rail (REP 12.10)
10	029K03720	Stapler Assembly (REP 12.11)
11	–	Stapler (P/O PL 17.9 Item 10)
12	050K48750	Cartridge
13	–	Bracket (Not Spared)
14	962K07440	Stapler Harness



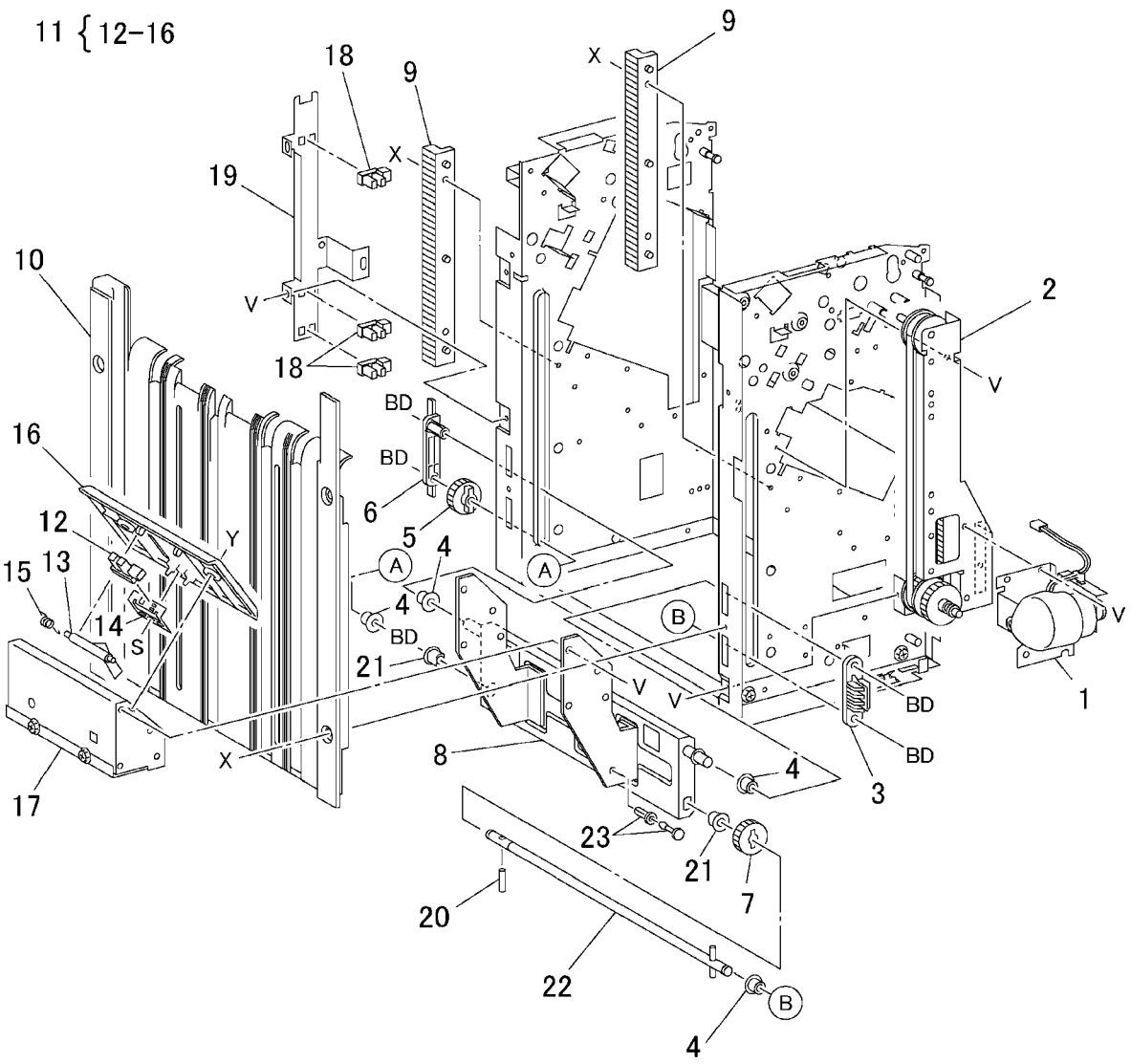
PL 17.10 Compiler Tray Assembly

Item	Part	Description
1	050K43881	Compiler Tray Assembly (REP 12.12)
2	127K48210	Front/Rear Tamper Motor
3	–	Plate (P/O PL 17.10 Item 1)
4	130K88770	Front/Rear Tamper Home Sensor
5	–	Rack (P/O PL 17.10 Item 1)
6	–	Actuator (P/O PL 17.10 Item 1)
7	–	Tamper (P/O PL 17.10 Item 1)
8	–	Finger (P/O PL 17.10 Item 1)
9	–	Spring (P/O PL 17.10 Item 1)
10	130K88780	Compiler Paper Sensor
11	–	Actuator (P/O PL 17.10 Item 1)
12	038E24410	Paper Guide
13	809E33600	Spring
14	–	Wire Harness (P/O PL 17.10 Item 1)
15	–	End Guide (P/O PL 17.10 Item 1)



PL 17.11 Elevator

Item	Part	Description
1	127K33420	Stacker Motor Assembly (REP 12.13)
2	015K50680	Front Elevator Bracket (REP 12.14)
3	019E50340	Clamp
4	–	Bearing (Not Spared)
5	007E67830	Rear Gear
6	–	Actuator (Not Spared)
7	007E67840	Front Gear
8	–	Bracket (Not Spared)
9	007E67820	Rack
10	–	Tray Guide (Not Spared)
11	015K51640	Stacker Paper Sensor Assembly
12	130K88770	Sensor
13	–	Actuator (P/O PL 17.11 Item 11)
14	–	Bracket (P/O PL 17.11 Item 11)
15	–	Spring (P/O PL 17.11 Item 11)
16	–	Cover (P/O PL 17.11 Item 11)
17	–	Bracket (Not Spared)
18	–	Sensor (Not Spared)
19	–	Bracket (Not Spared)
20	–	Pin (Not Spared)
21	–	Bearing (Not Spared)
22	–	Shaft (Not Spared)
23	–	Rivet (Not Spared)



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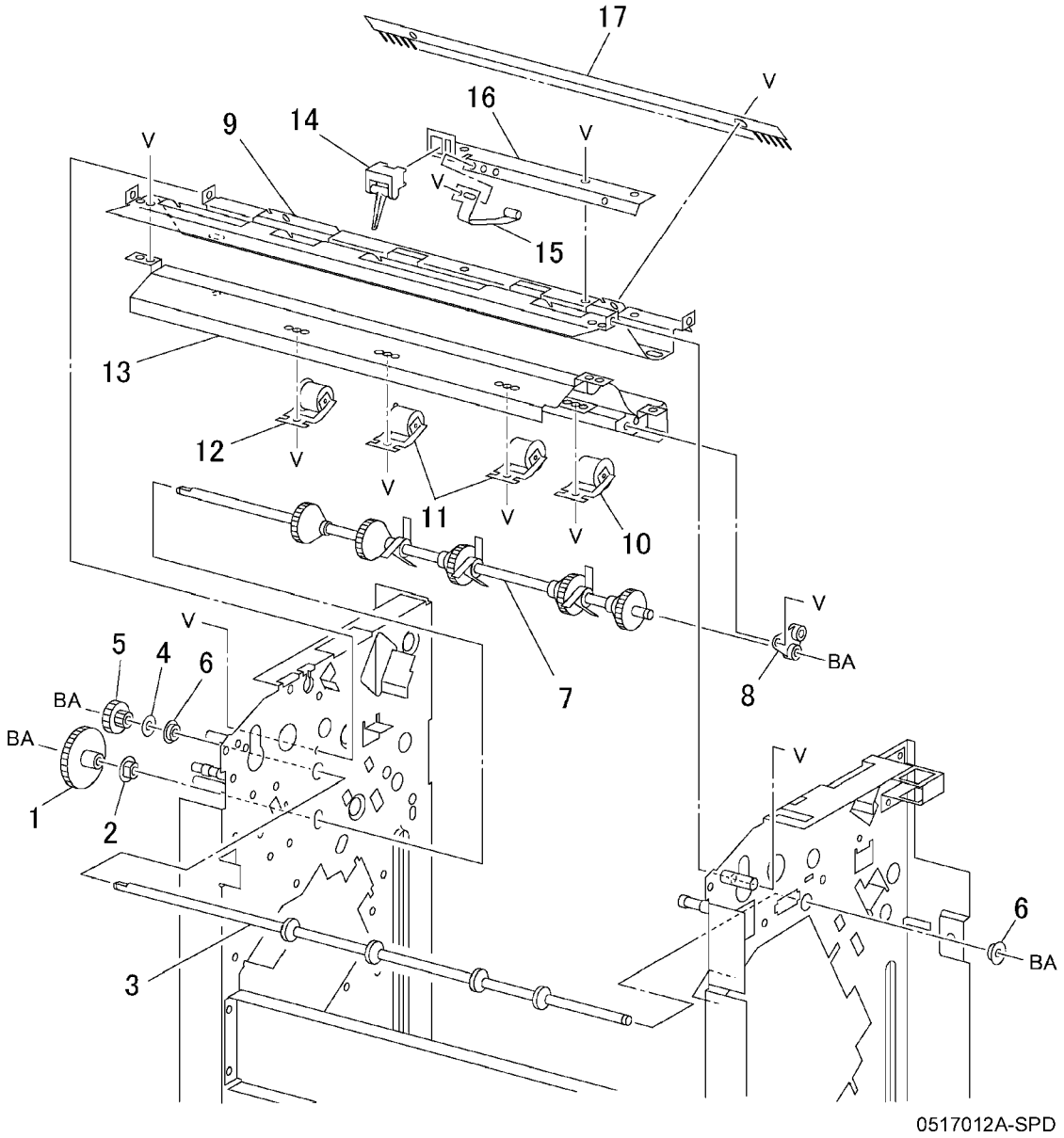
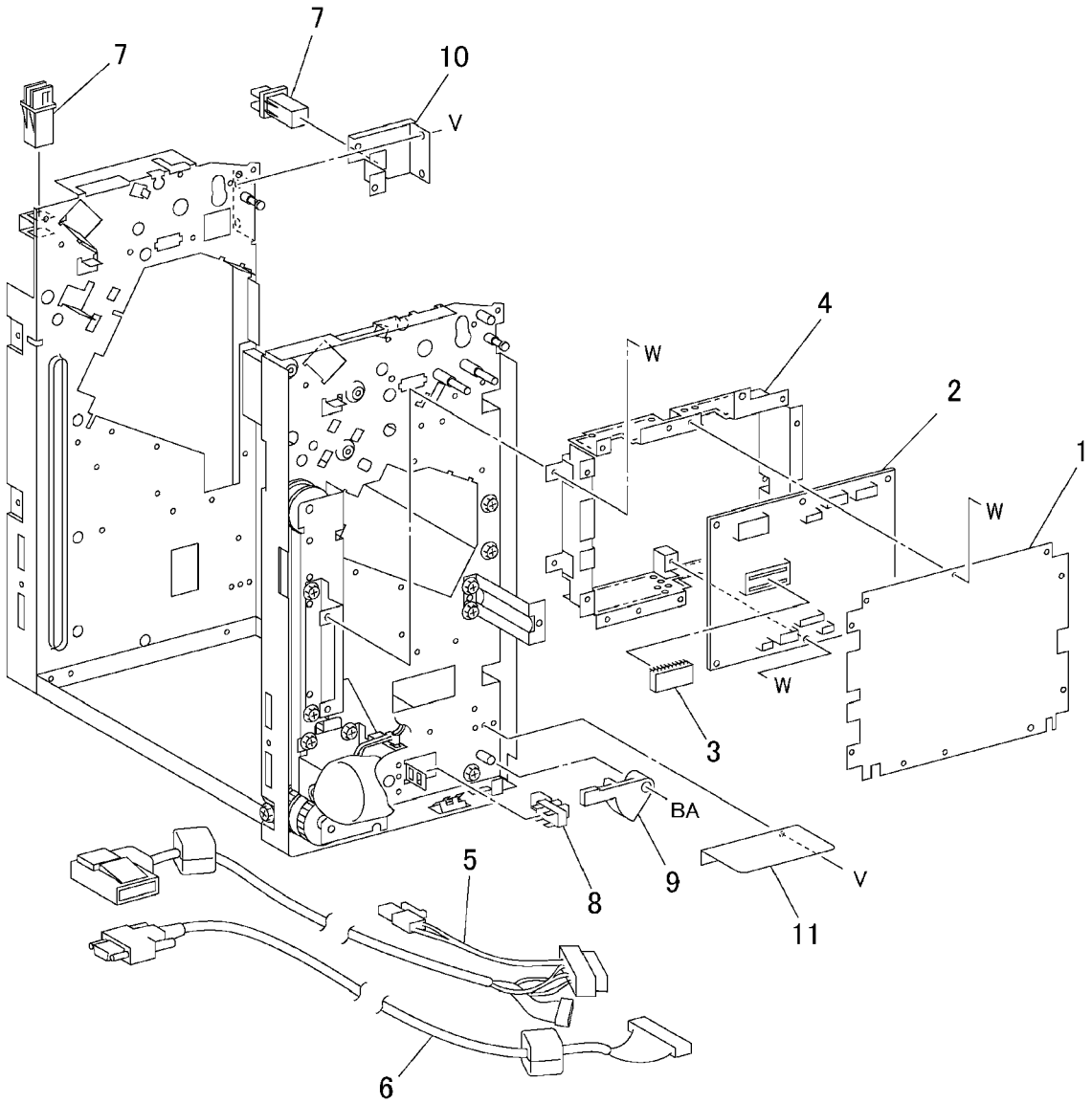
PL 17.12 Exit Assembly

Item	Part	Description
1	007E72080	Gear
2	–	Bearing (Not Spared)
3	006K21721	Exit Shaft
4	–	Collar (Not Spared)
5	007E72070	Gear
6	–	Bearing (Not Spared)
7	006K21971	Paddle Gear Shaft (REP 12.15)
8	013E20250	Paddle Bearing
9	–	Lower Exit Chute (Not Spared)
10	022K65880	Pinch Roll
11	–	Pinch Roll (Not Spared)
12	–	Pinch Roll (Not Spared)
13	–	Upper Exit Chute (Not Spared)
14	130K88800	Compiler Entrance Sensor
15	–	Spring Plate (Not Spared)
16	–	Bracket (Not Spared)
17	105E11320	Static Eliminator



PL 17.13 Electrical Components

Item	Part	Description
1	–	PWB Cover (Not Spared)
2	160K76661	Finisher PWB (REP 12.16)
3	537K64131	ROM (WC7228/7235/7345 ONLY)
–	540K09151	ROM (WC7346 Only)
–	537K69341	ROM (WC7228/7235/7245 ONLY)
4	–	PWB Bracket (Not Spared)
5	962K10121	DC Harness
6	962K10131	Cable
7	110E97990	Top Cover/Front Door Interlock Switch
8	130K88770	Docking Interlock Switch
9	–	Spring Plate (Not Spared)
10	–	Bracket (Not Spared)
11	–	Plate (Not Spared)



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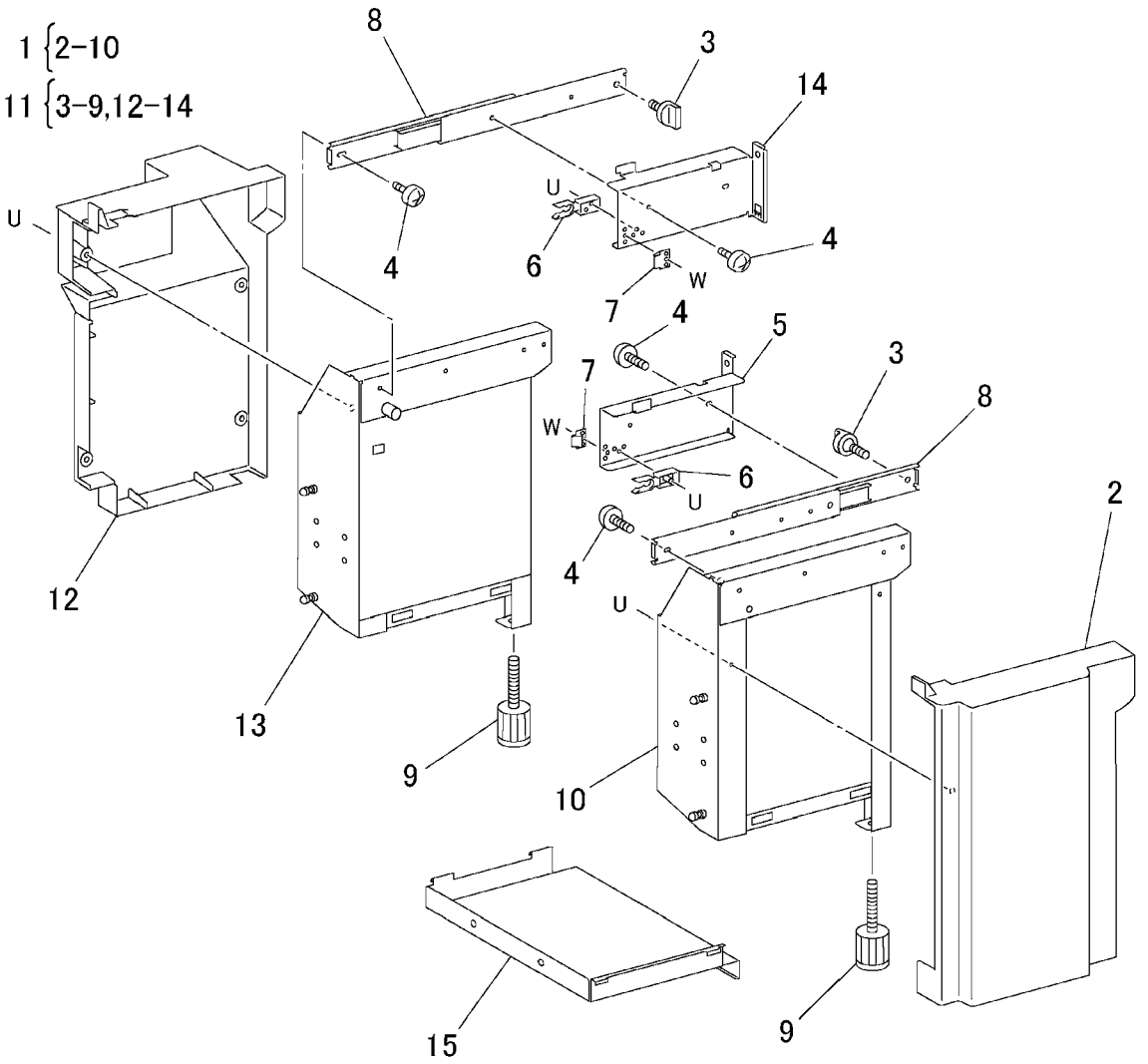
PL 17.14 Rack Assembly

Item	Part	Description
1	848K16460	Front Rack Assembly
2	–	Front Cover (P/O PL 17.14 Item 1)
3	003K12090	Knob Screw
4	–	Screw (P/O PL 17.14 Item 1, PL 17.14 Item 11)
5	–	Bracket (P/O PL 17.14 Item 1, PL 17.14 Item 11)
6	–	Stop (P/O PL 17.14 Item 1, PL 17.14 Item 11)
7	–	Spring Plate (P/O PL 17.14 Item 1, PL 17.14 Item 11)
8	001E60051	Rail
9	017E94661	Foot
10	–	Front Rack (P/O PL 17.14 Item 1)
11	848K16470	Rear Rack Assembly
12	–	Rear Cover (P/O PL 17.14 Item 11)
13	–	Rear Rack (P/O PL 17.14 Item 11)
14	–	Bracket (P/O PL 17.14 Item 11)
15	015E77040	Bottom Plate



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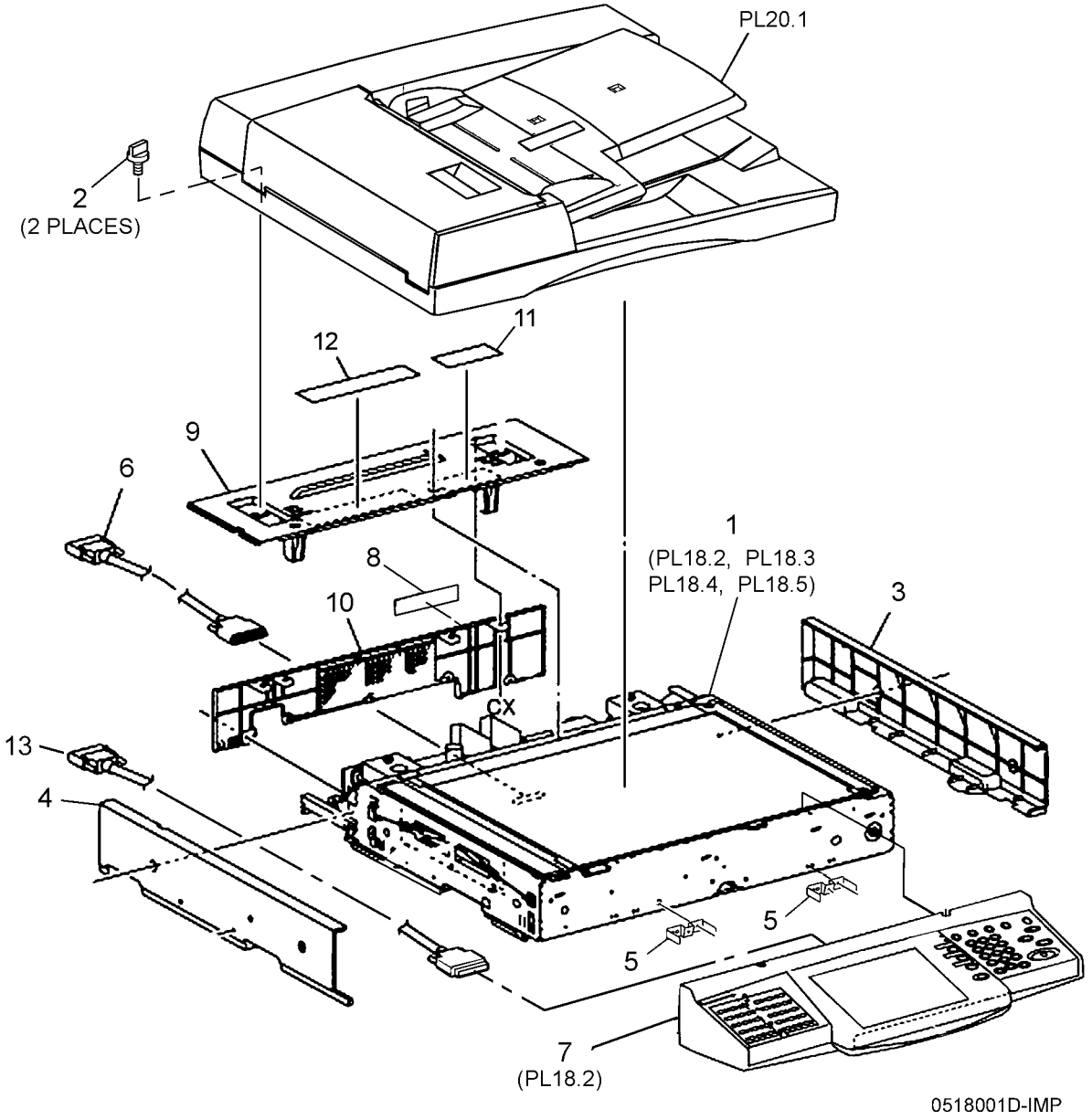
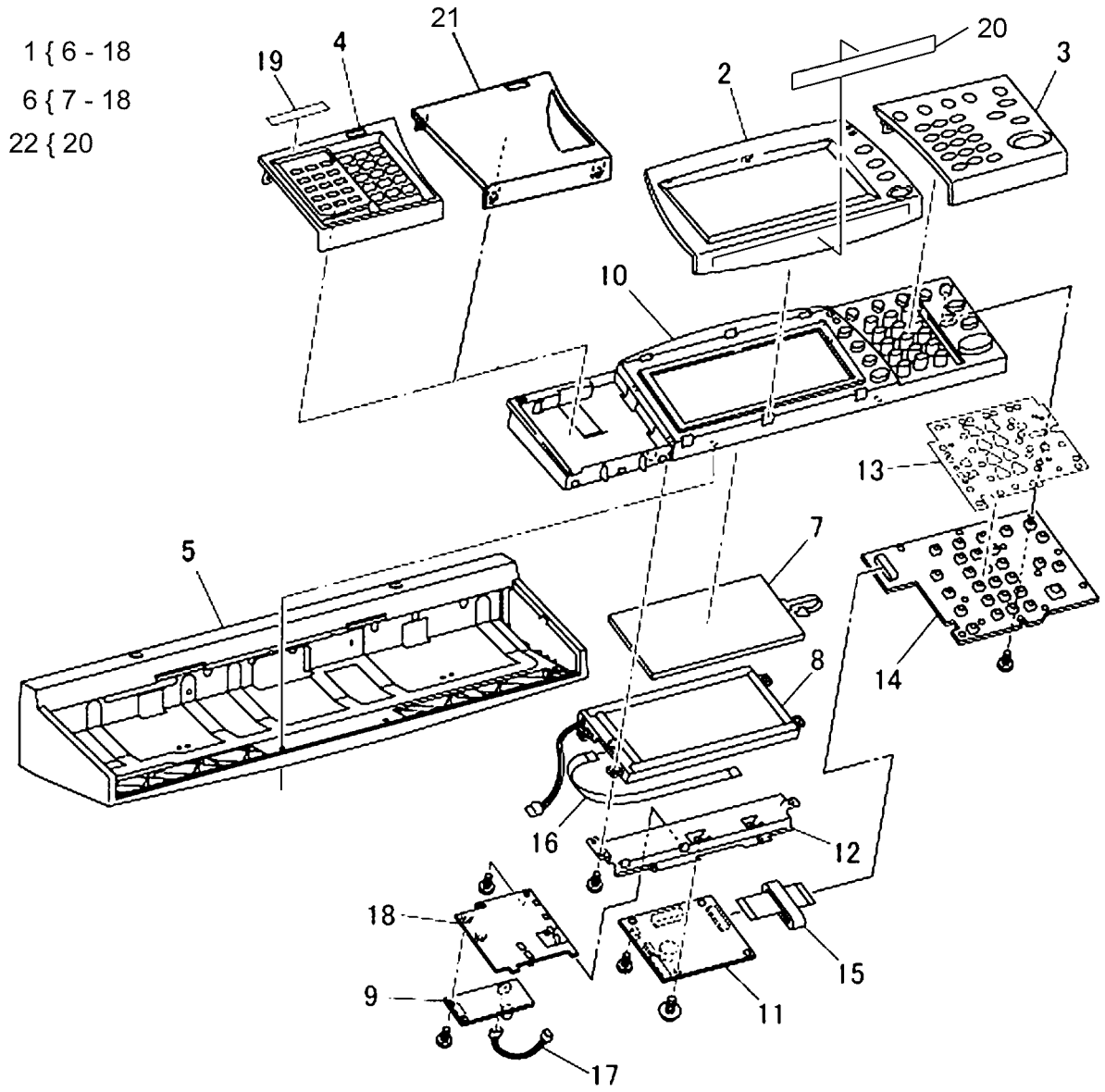
PL 18.1 IIT Assembly

Item	Part	Description
1	062K17928	IIT Main Assembly (WC7228/7235/7245 ONLY)
–	062K18735	IIT Main Assembly (110V) (WC7328/7335/7345/7346 ONLY)
–	062K18755	IIT Main Assembly (220V) (WC7328/7335/7345/7346 ONLY)
2	–	Thumbscrew (Not Spared)
3	848E04340	Right Cover
4	802K97350	Left Cover
5	–	Bracket (Not Spared)
6	117E21691	IF Cable
7	802K91011	Console Assembly (ADJ 9.13)
8	091P80361	Name Plate
9	–	Top Cover (Not Spared)
10	–	Rear Cover (Not Spared)
11	–	Label (Not Spared)
12	–	Label (Caution) (Not Spared)
13	117K37251	UI/ESS Cable (Not Spared)



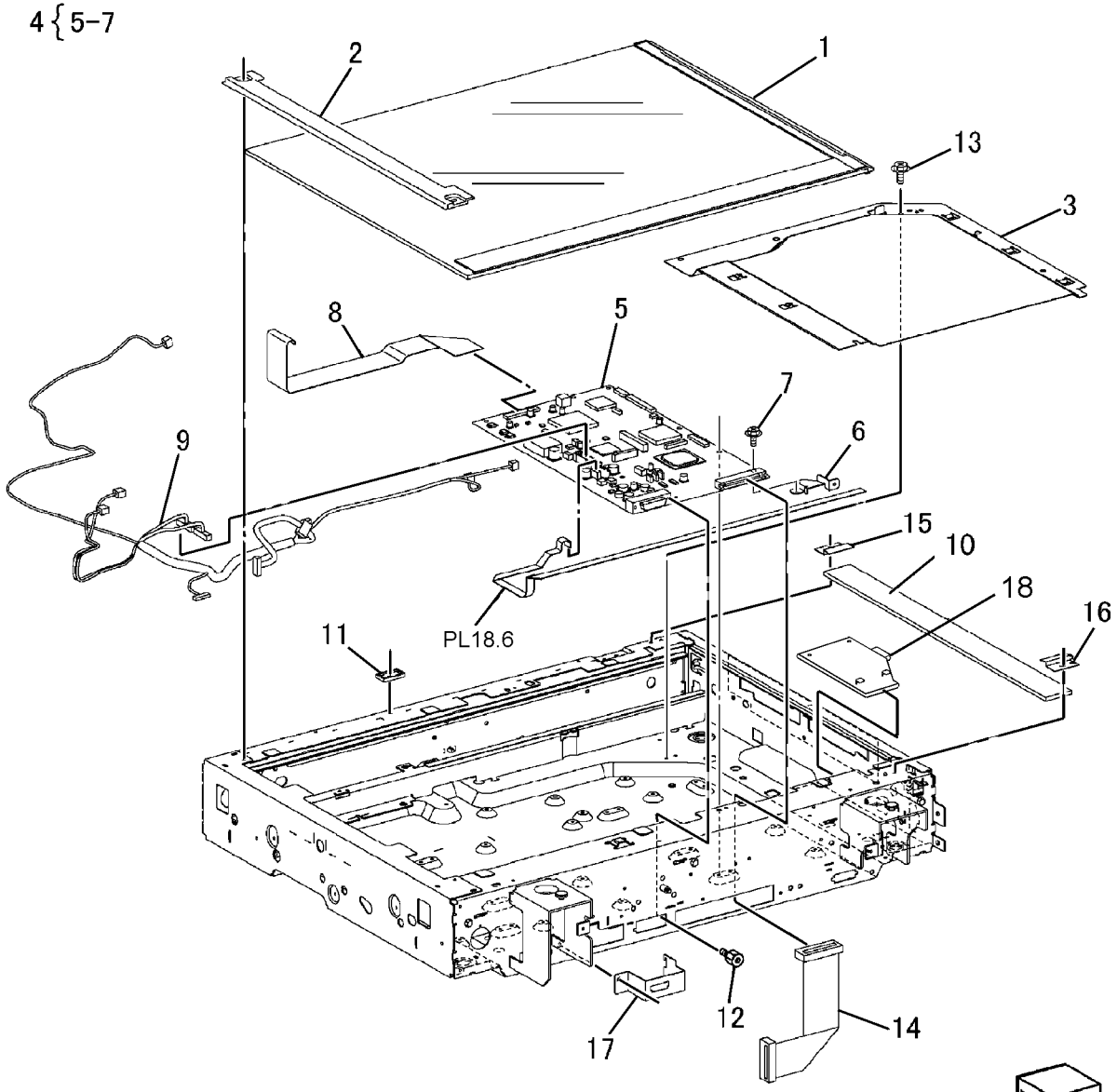
PL 18.2 Control Panel

Item	Part	Description
1	802K91011	Control Panel Assembly (REP 11.1.2, ADJ 9.13)
2	802E97990	Center Panel (WC7228/7235/7245/7328/7335/7345/7346)
–	848E14470	Center Panel (110V)
3	802E98000	Right Panel (220V)
–	848E14600	Right Panel (110V)
4	–	One Touch Panel (Not Spared)
5	802K85760	Left Panel
6	–	Console Assembly Base (P/O PL 18.2 Item 1)
7	–	Touch Panel (P/O PL 18.2 Item 1)
8	123K97440	Display Assembly
9	–	Inverter PWB (P/O PL 18.2 Item 1)
10	–	Case (P/O PL 18.2 Item 1)
11	–	MCW UI I/F PWB (P/O PL 18.2 Item 1)
12	–	Bracket (P/O PL 18.2 Item 1)
13	–	Sheet (P/O PL 18.2 Item 1)
14	–	Control Panel PWB (P/O PL 18.2 Item 1)
15	–	Flat Cable (P/O PL 18.2 Item 1)
16	–	Flat Cable (P/O PL 18.2 Item 1)
17	–	Wire Harness (P/O PL 18.2 Item 1)
18	–	Bracket (P/O PL 18.2 Item 1)
19	–	Label (P/O PL 18.2 Item 1)
20	092K05740	WC7228 Nameplate
–	896E38420	WC7345 Name Label
–	896E38400	WC7328 Name Label
–	896E38410	WC7335 Name Label
21	848E01540	Left Panel Overlay
22	092K05810	Name Label Kit



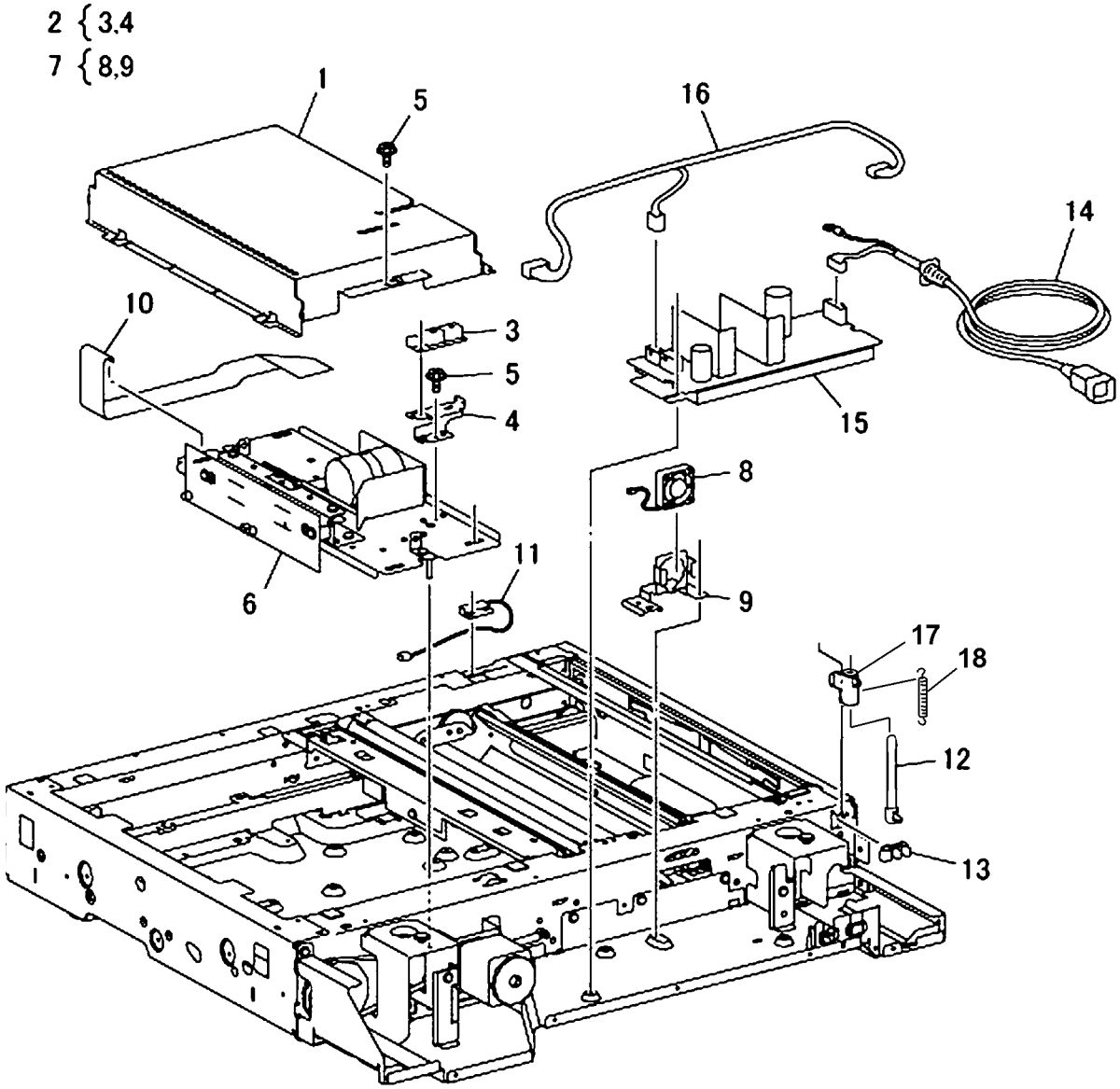
PL 18.3 Platen Glass, IIT/IPS PWB

Item	Part	Description
1	090K02332	Platen Glass (REP 11.3.1)
2	815E04811	Right Side Plate
3	–	IPS Cover (P/O PL 18.1 Item 1)
4	960K05534	IIT/IPS PWB Assembly
5	960K17739	IIT/IPS PWB (WC7228/7235/7245 ONLY) (REP 11.3.2)
–	960K31843	IIT/IPS PWB (WC7328/7335/7345/7346 ONLY) (REP 11.3.2)
6	–	IPS Bracket (P/O PL 18.3 Item 4)
7	–	Screw (P/O PL 18.3 Item 4)
8	117E26161	Flat Cable
9	–	IIT Harness (P/O PL 18.1 Item 1)
10	090K93011	Glass Support
11	–	Glass Support (P/O PL 18.1 Item 1)
12	–	Lock Screw (P/O PL 18.1 Item 1)
13	–	Screw (P/O PL 18.1 Item 1)
14	–	ESS Cable (Not Spared)
15	–	Front Support Bracket (P/O PL 18.1 Item 1)
16	–	Rear Support Bracket (P/O PL 18.1 Item 1)
17	–	Bracket (P/O PL 18.1 Item 1)
18	960K18260	S2X PWB



PL 18.4 CCD PWB, Sensor

Item	Part	Description
1	–	Lens Cover (P/O PL 18.1 Item 1)
2	–	APS Sensor Assembly (P/O PL 18.1 Item 1)
3	130K64150	APS Sensor
4	–	Bracket (P/O PL 18.4 Item 2)
5	–	Screw (P/O PL 18.1 Item 1)
6	604K29711	CCD Lens Assembly (REP 11.4.1, ADJ 9.16, ADJ 9.7)
7	127K49700	LVPS Fan Assembly
8	–	IIT LVPS Fan (P/O PL 18.4 Item 7)
9	–	Bracket (P/O PL 18.4 Item 7)
10	117E26161	FFC Harness
11	110K11960	Platen Interlock Switch
12	120E22031	Actuator
13	130E87280	Platen Angle Sensor
14	962K50850	Wire Harness (AC) (110V)
–	962K50860	Wire Harness (AC) (220V)
15	105E16940	IIT LVPS (WC7228/7235/7245 ONLY) (REP 11.7)
–	105E17790	IIT LVPS (WC7328/7335/7345/7346 ONLY) (REP 11.7)
–	105E17800	IIT LVPS (220V) (WC7328/7335/7345/7346 ONLY) (Alternate)
16	–	Wire Harness (P/O PL 18.1 Item 1)
17	–	Actuator Base (P/O PL 18.1 Item 1)
18	–	Spring (P/O PL 18.1 Item 1)



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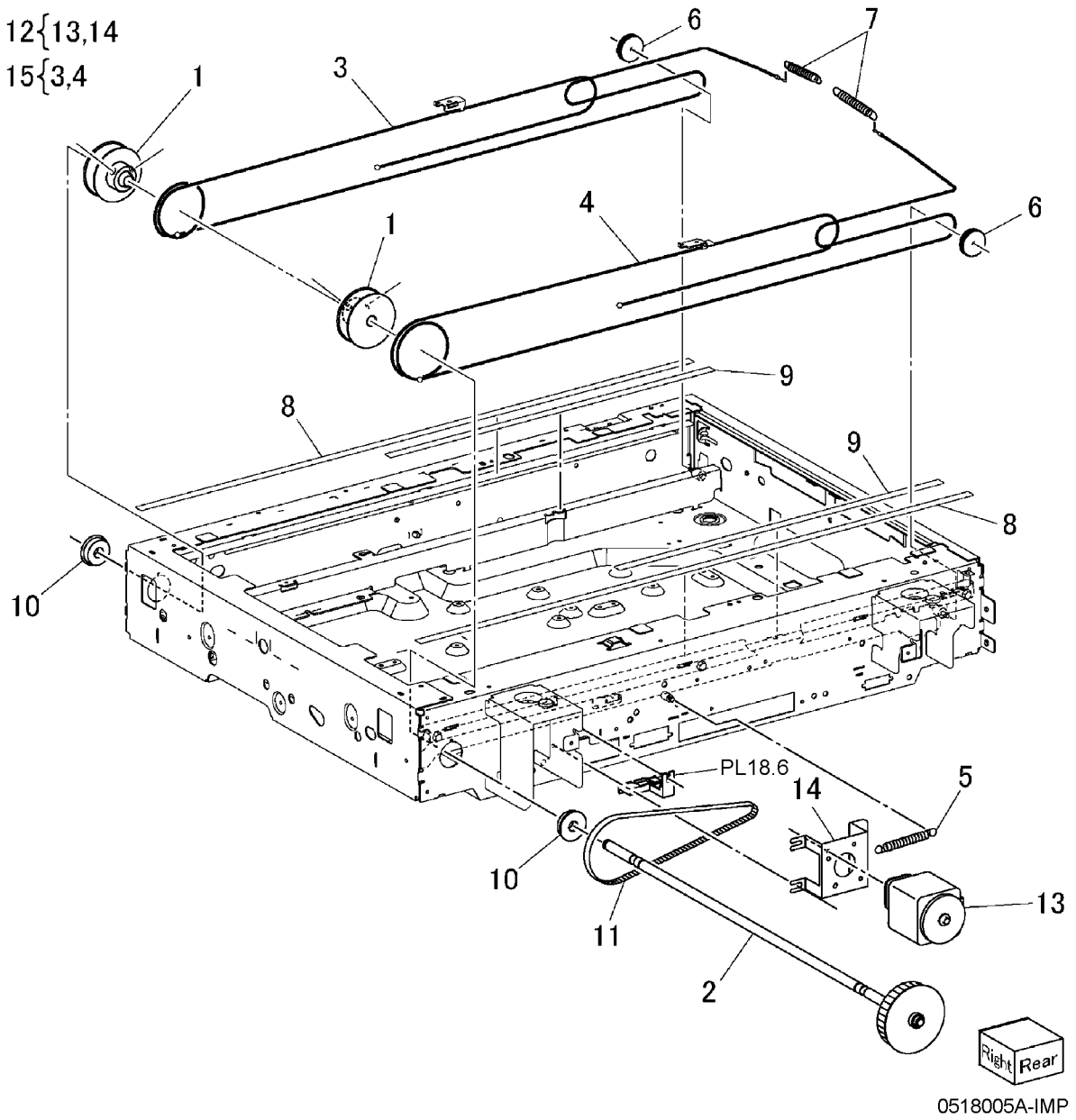
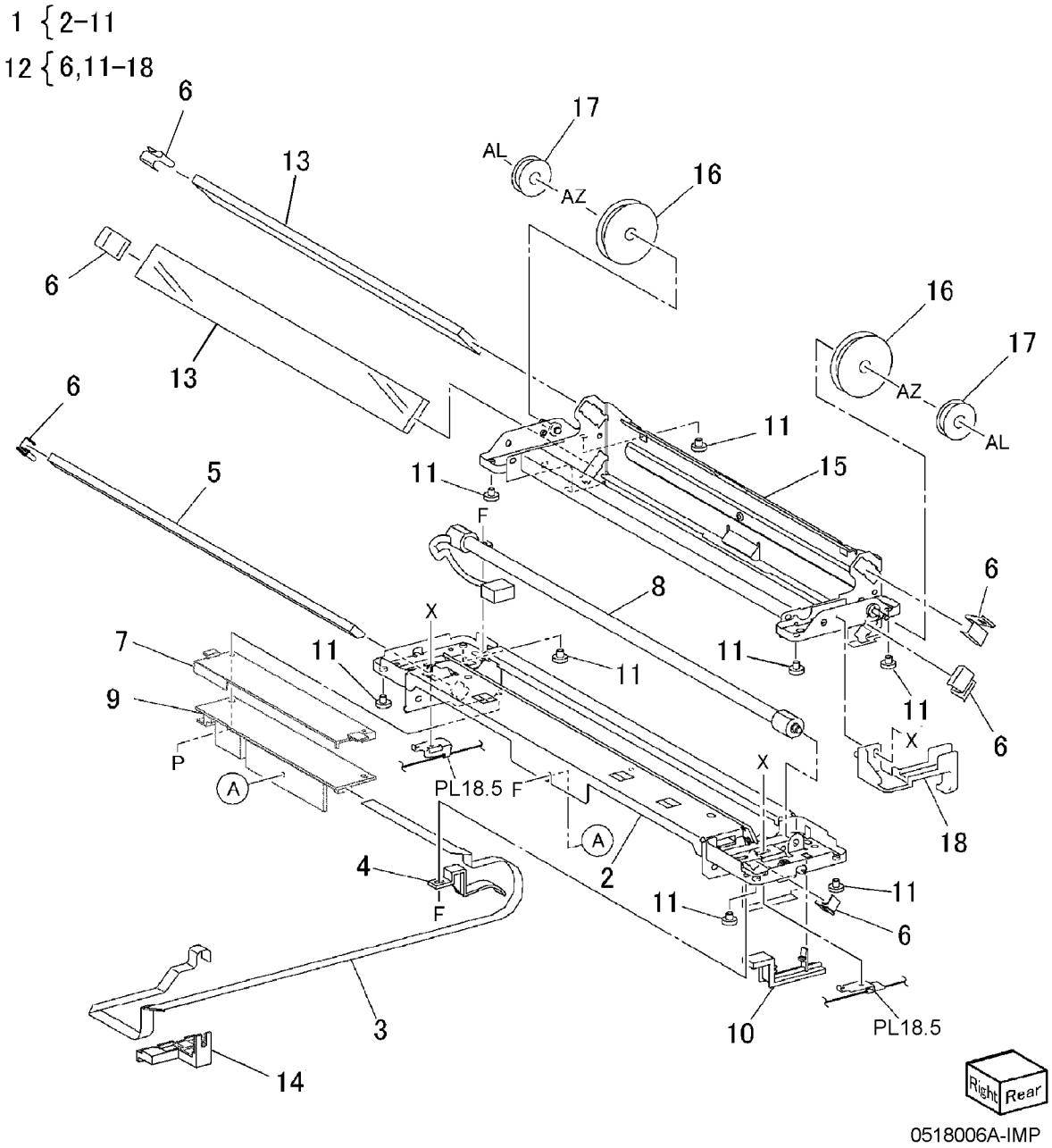
PL 18.5 Carriage Cable/ Motor

Item	Part	Description
1	–	Capstan Shaft (P/O PL 18.1 Item 1)
2	–	Drive Shaft (P/O PL 18.1 Item 1)
3	–	Front Carriage Cable (P/O PL 18.5 Item 15)
4	–	Rear Carriage Cable (P/O PL 18.5 Item 15)
5	604K20440	Spring Kit
6	020E37030	Pulley
7	–	Spring (P/O PL 18.1 Item 1)
8	–	Tape (P/O PL 18.1 Item 1)
9	–	Tape (P/O PL 18.1 Item 1)
10	–	Bearing (P/O PL 18.1 Item 1)
11	023E26430	Timing Belt 245N
12	127K49532	Carriage Motor Assembly (REP 11.5.2)
13	–	Carriage Motor (P/O PL 18.5 Item 12)
14	–	Motor Bracket (P/O PL 18.5 Item 12)
15	604K20510	ITT Cable Kit (REP 11.5.1)



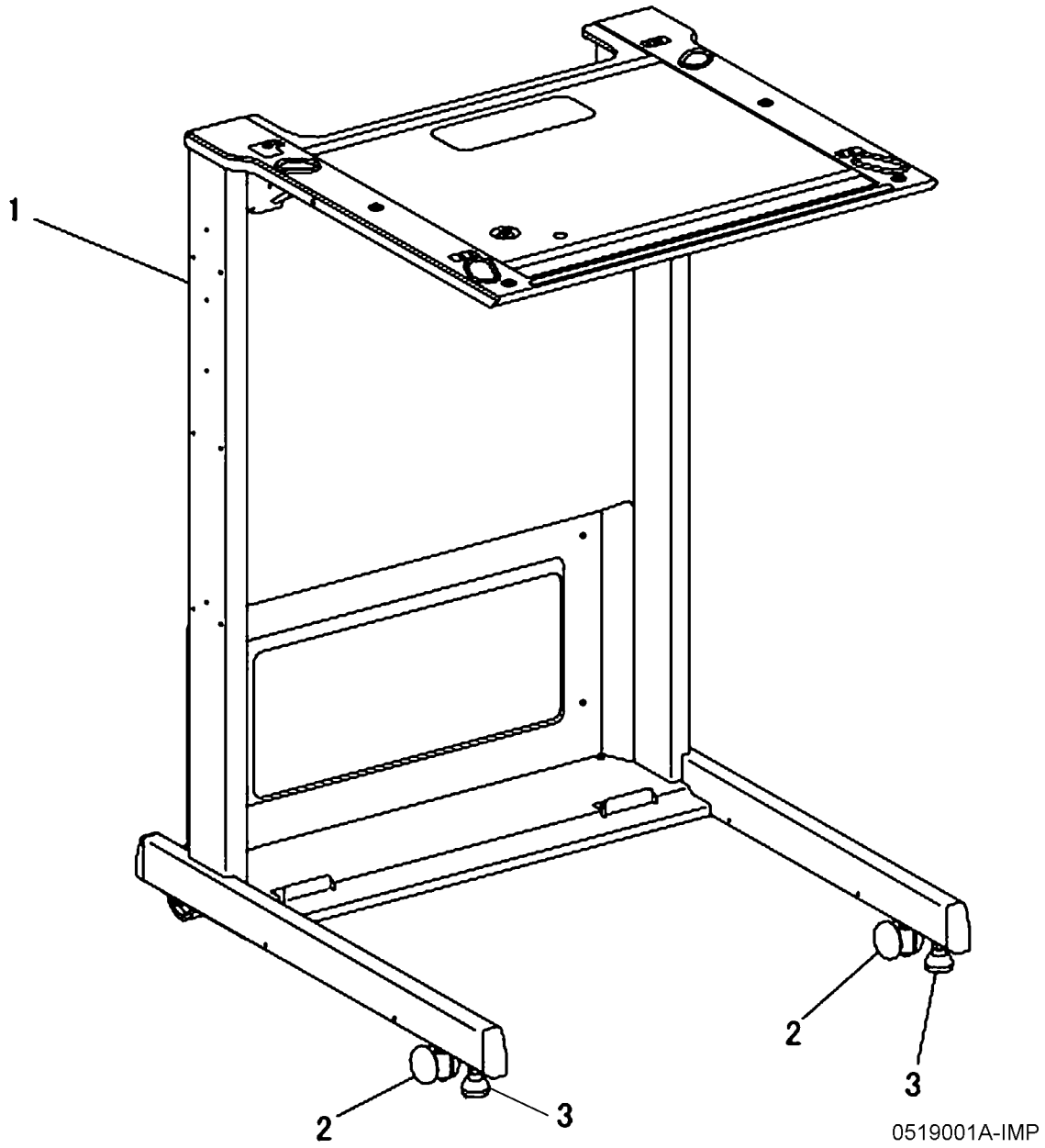
PL 18.6 Full/Half Rate Carriage

Item	Part	Description
1	041K94830	Full-Rate Carriage Assembly
2	–	Full-Rate Carriage (P/O PL 18.6 Item 1) (ADJ 11.6.1)
3	117E26350	Lamp Wire Harness (REP 11.6.2)
4	–	Cord Guide (P/O PL 18.6 Item 1)
5	062E10040	Mirror No. 1
6	–	Mirror Clip (P/O PL 18.6 Item 1)
7	–	Insulator (P/O PL 18.6 Item 1)
8	122K93910	Exposure Lamp (REP 11.6.1)
9	105E16700	Lamp Ballast PWB
10	–	Cord Guide (P/O PL 18.6 Item 1)
11	–	Pad (P/O PL 18.6 Item 1)
12	041K94441	Half-Rate Carriage Assembly (ADJ 11.6.1)
13	–	No 2 and No 3 Mirror (P/O PL 18.6 Item 12)
14	–	Card Holder (P/O PL 18.6 Item 12)
15	–	Half-Rate Carriage (P/O PL 18.6 Item 12)
16	–	Pulley (P/O PL 18.6 Item 12)
17	–	Pulley (P/O PL 18.6 Item 12)
18	–	Cord Guide (P/O PL 18.6 Item 12)



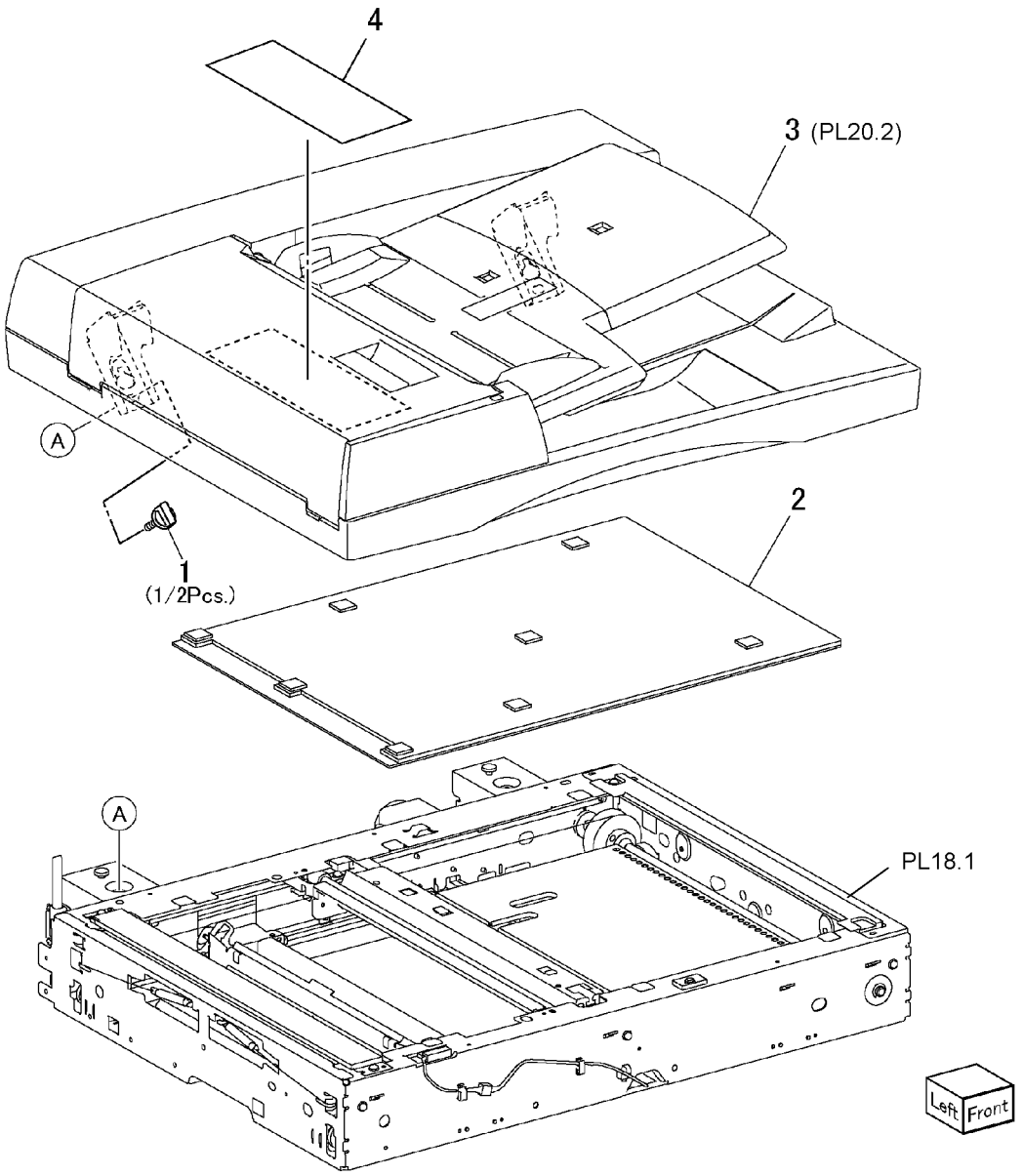
PL 19.1 Rack

Item	Part	Description
1	–	Plate Assembly (Not Spared)
2	–	Swivel Caster (Not Spared)
3	–	Foot (Not Spared)



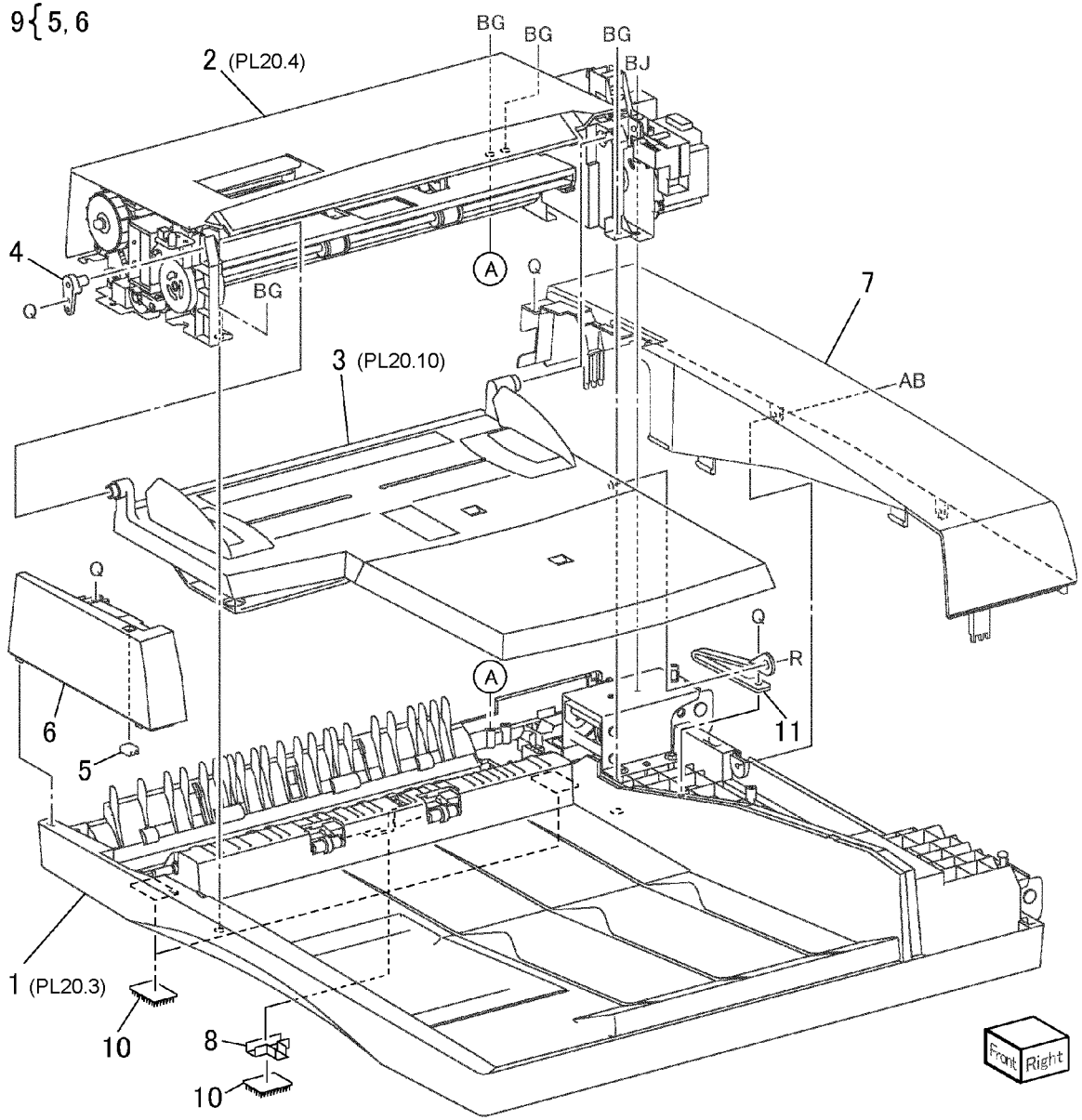
PL 20.1 DADF Accessory

Item	Part	Description
1	–	Knob Screw (Not Spared)
2	604K25430	DADF Platen Cushion (Not Spared) (REP 15.1.2)
3	059K54576	Feeder Assembly (REP 15.1.1)
4	–	Label (Not Spared)



PL 20.2 DADF Component Cover

Item	Part	Description
1	801K22543	DADF Base Assembly
2	059K45234	DADF Feeder Assembly (REP 15.2.2)
3	050K56180	DADF Document Tray (REP 15.2.1)
4	–	Tray Hinge (Not Spared)
5	–	LED Cap (P/O PL 20.2 Item 9)
6	802E57293	DADF Front Cover (REP 15.2.3)
7	802E57445	DADF Rear Cover (REP 15.2.4)
8	–	Solenoid Cover (Not Spared)
9	–	DADF Front Cover (Not Spared)
10	–	Fastener Tape (Not Spared)
11	–	Tray Support (Not Spared)



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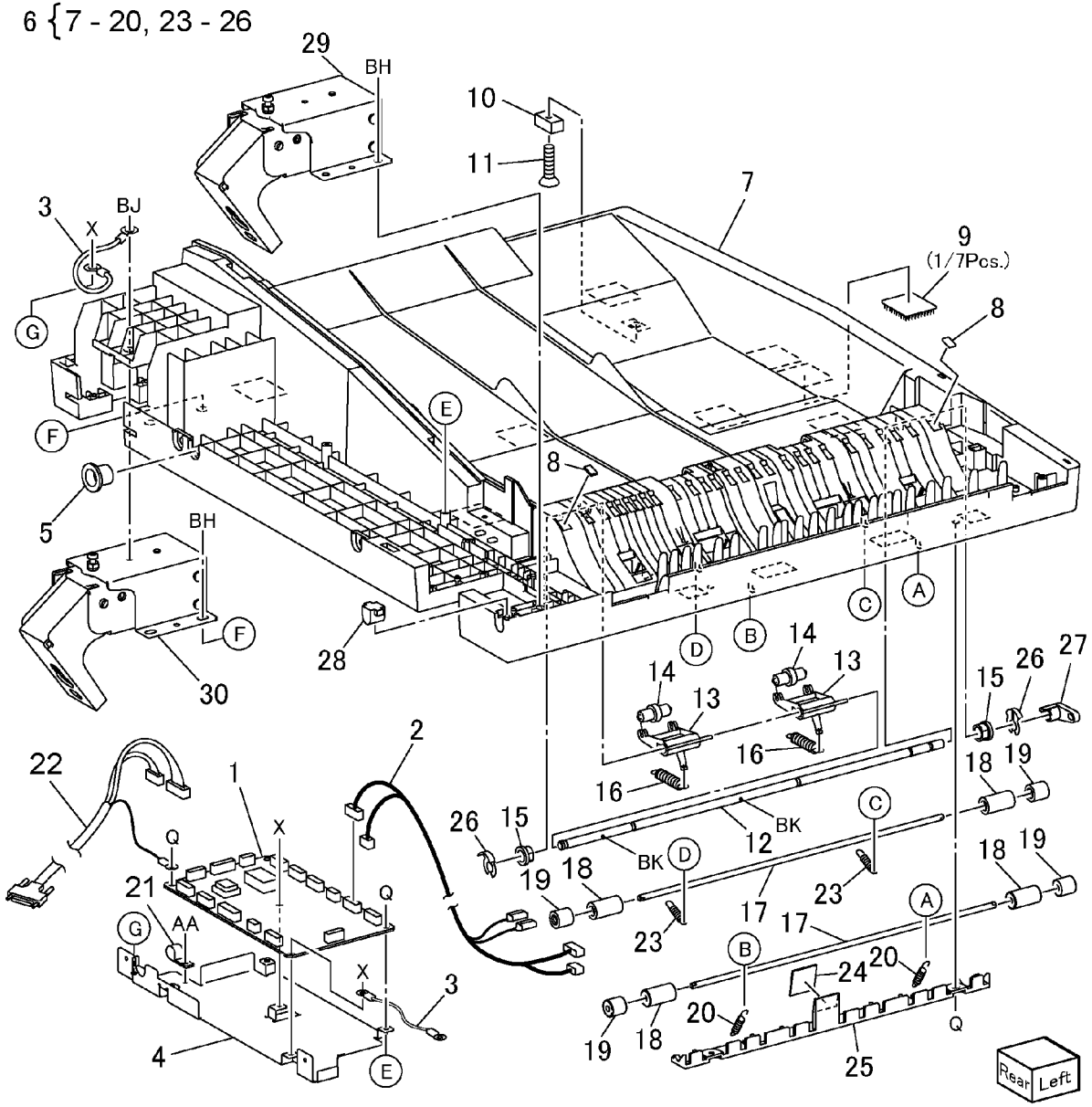
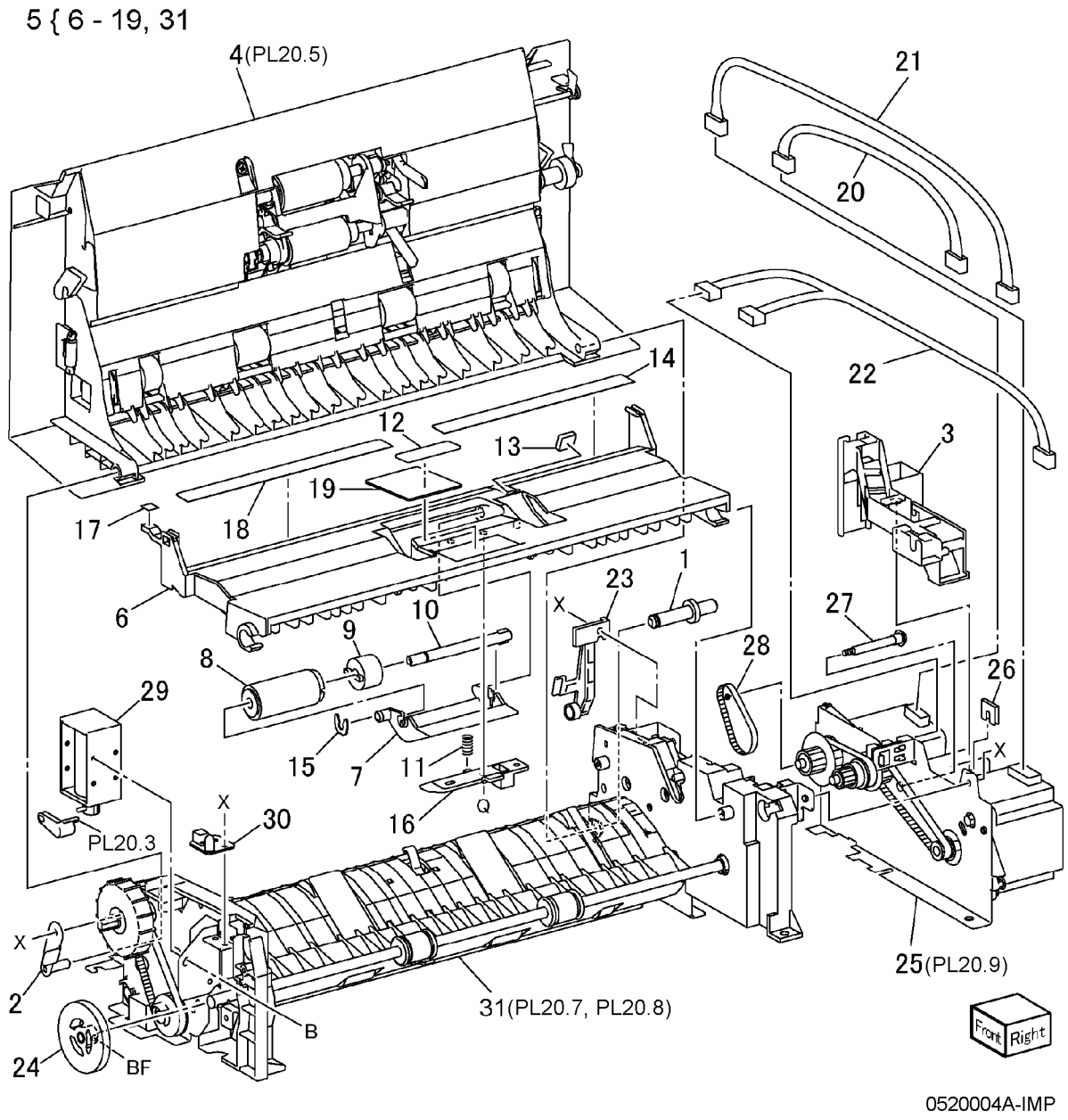
PL 20.3 DADF Base Cover

Item	Part	Description
1	960K32501	DADF PWB (REP 15.3.1)
2	962K19793	Harness
3	–	Ground Wire (P/O PL 20.1 Item 3)
4	–	PWB Bracket
5	–	Open Type Bushing (P/O PL 20.1 Item 3)
6	801K22543	Frame Assembly
7	–	DADF Base Frame (P/O PL 20.3 Item 6)
8	–	Gate Pad (P/O PL 20.3 Item 6)
9	–	Tape (P/O PL 20.3 Item 6)
10	–	Magnet (Interlock) (P/O PL 20.3 Item 6)
11	–	Magnet Screw (P/O PL 20.3 Item 6)
12	–	Exit Shaft (P/O PL 20.3 Item 6)
13	–	Exit Holder (P/O PL 20.3 Item 6)
14	–	Exit Pinch Roll (P/O PL 20.3 Item 6)
15	–	Bearing (P/O PL 20.3 Item 6)
16	–	Exit Spring (P/O PL 20.3 Item 6)
17	–	Pinch Shaft (P/O PL 20.3 Item 6)
18	–	Registration Pinch Roll (P/O PL 20.3 Item 6)
19	–	Registration Pinch Roll (P/O PL 20.3 Item 6)
20	–	Registration Spring (P/O PL 20.3 Item 6)
21	–	P-Clamp (P/O PL 20.1 Item 3)
22	117E27450	DADF IIT Cable
23	–	Spring (P/O PL 20.3 Item 6)
24	–	Sensor Pad (P/O PL 20.3 Item 6)
25	–	Registration Cover (P/O PL 20.3 Item 6)
26	028E94260	KL-Clip
27	–	Solenoid Lever (P/O PL 20.1 Item 3)
28	–	Rear Cap Cover (P/O PL 20.1 Item 3)
29	036K91551	Left Counter Balance (REP 15.3.2)
30	036K91561	Right Counter Balance (REP 15.3.3)



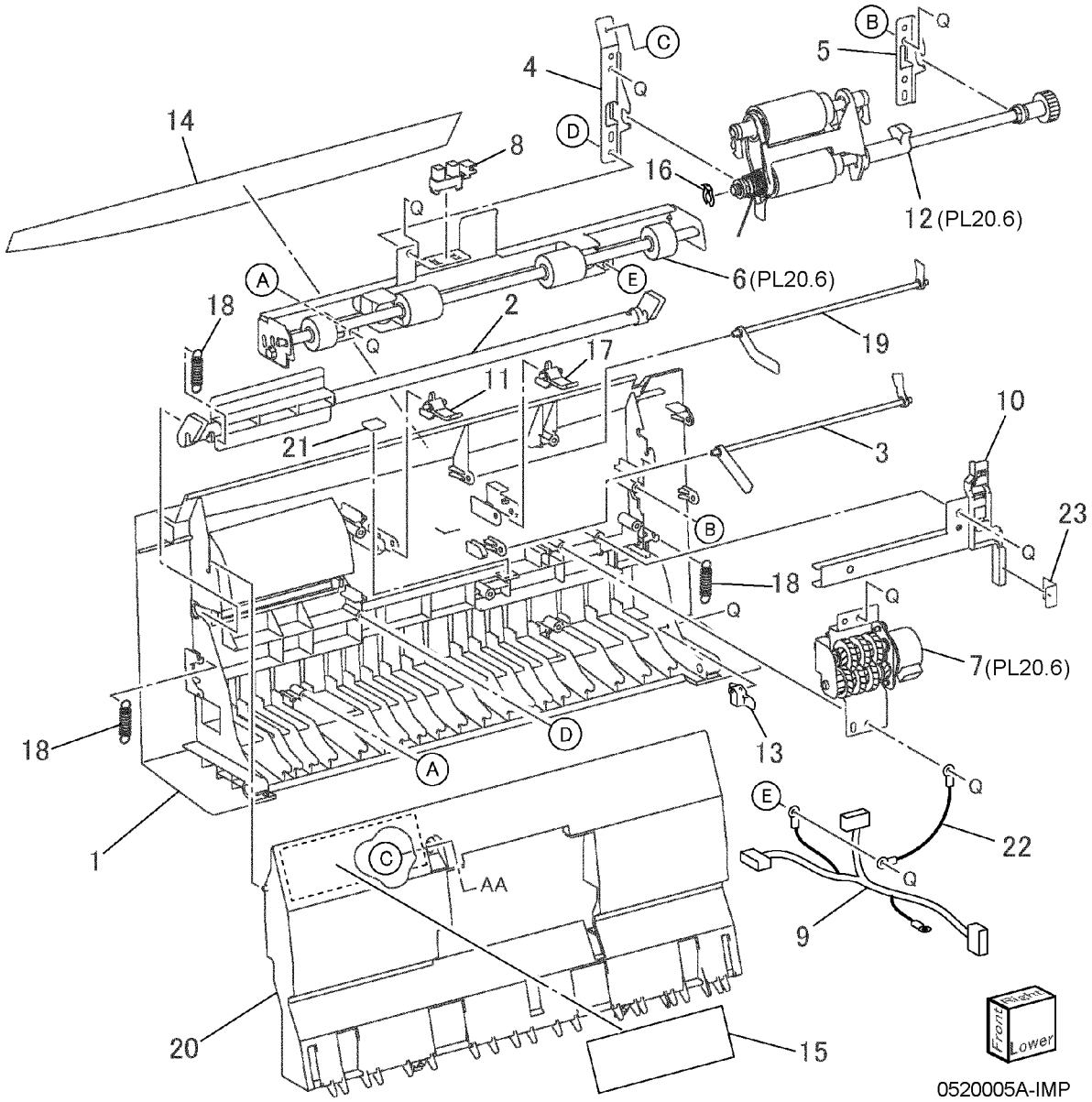
PL 20.4 DADF Feeder Component

Item	Part	Description
1	–	Hinge Stud (P/O PL 20.2 Item 2)
2	–	Bracket (Not Spared)
3	–	Harness Guide (P/O PL 20.1 Item 3)
4	059K45218	Upper Feed Assembly
5	059K45231	DADF Feeder Assembly
6	–	Retard Chute (P/O PL 20.4 Item 5)
7	–	Retard Housing (P/O PL 20.4 Item 5)
8	059K44920	Retard Roll (REP 15.4.1)
9	019K98770	Torque Limiter
10	–	Retard Shaft (P/O PL 20.4 Item 5)
11	–	Retard Spring (P/O PL 20.4 Item 5)
12	–	Pad (P/O PL 20.4 Item 5)
13	019K99070	Actuator Pad
14	–	Seal (P/O PL 20.4 Item 5)
15	–	C-Clip (P/O PL 20.4 Item 5)
16	–	Retard Guide (P/O PL 20.4 Item 5)
17	–	Label (Retard) (P/O PL 20.4 Item 5)
18	–	Front Seal (P/O PL 20.1 Item 3)
19	–	Retard Seal (P/O PL 20.4 Item 5)
20	962K19750	FE Harness
21	962K19740	Harness
22	962K19731	Harness
23	–	Harness Guide (P/O PL 20.1 Item 3)
24	–	Damper Roll (P/O PL 20.1 Item 3)
25	–	Motor Assembly (P/O PL 20.1 Item 3)
26	–	Harness Guide (Not Spared)
27	–	Screw (Not Spared)
28	604K20780	DADF Belt Kit
29	121K31912	Solenoid
30	160K97600	LED PWB
31	–	DADF Feeder (P/O PL 20.4 Item 5)



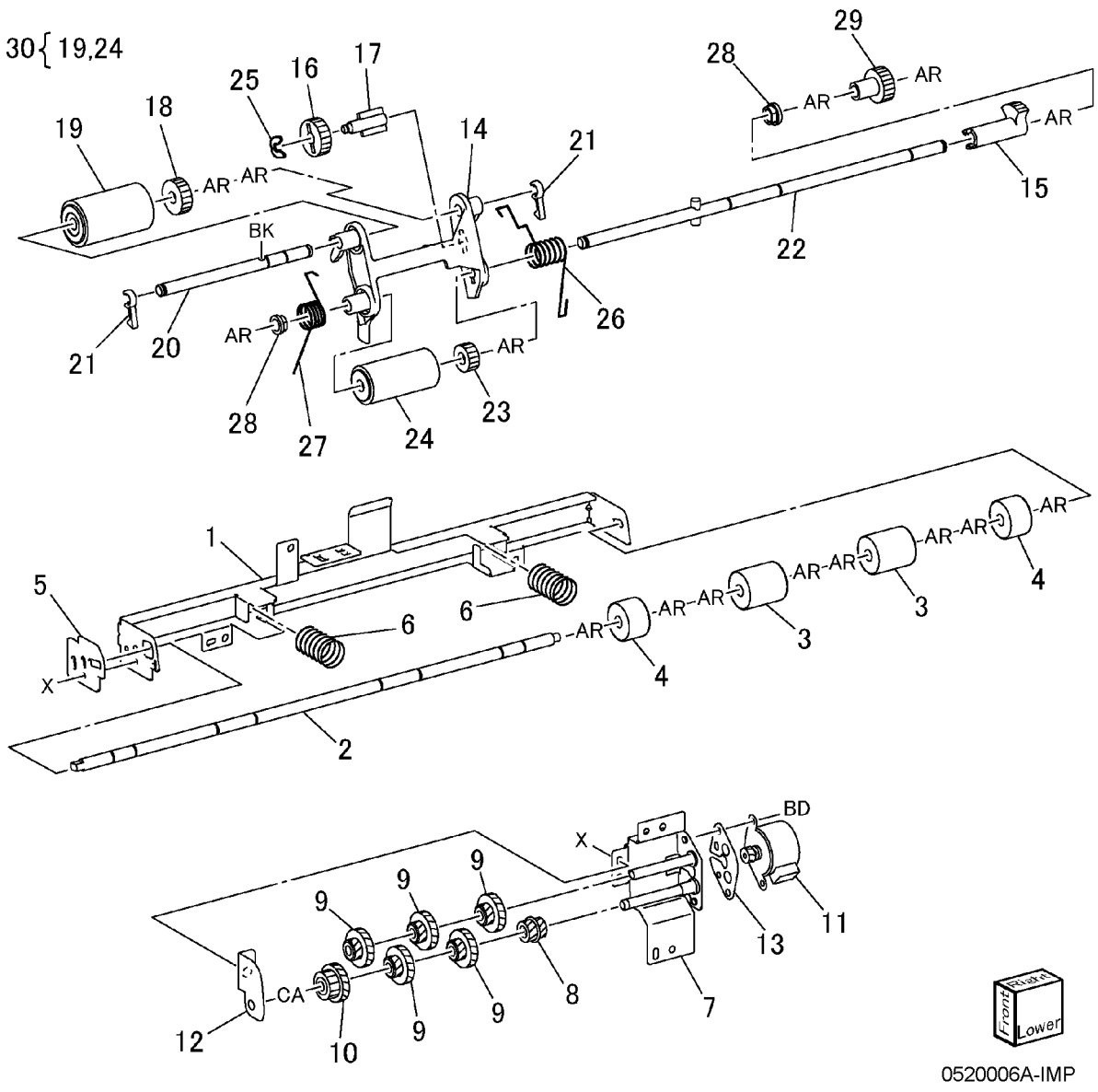
PL 20.5 Top Cover Component

Item	Part	Description
1	–	Cover (P/O PL 20.4 Item 4) (REP 15.4.2)
2	–	Handle Lever (P/O PL 20.4 Item 4)
3	–	Actuator (Feed Out) (P/O PL 20.4 Item 4)
4	–	Feeder Bracket (Front) (P/O PL 20.4 Item 4)
5	–	Feeder Bracket (Rear) (P/O PL 20.4 Item 4)
6	059K60740	Takeaway Pinch Roll
7	127K38412	DADF Nudger Motor
8	–	DADF Nudger Sensor (P/O PL 20.4 Item 4)
9	962K19705	Nudger Harness
10	–	Harness Guide (P/O PL 20.4 Item 4)
11	–	Front Guide-Set (P/O PL 20.4 Item 4)
12	059K48900	Feeder Assembly
13	–	Harness Guide (P/O PL 20.4 Item 4)
14	–	Label (Size) (P/O PL 20.4 Item 4)
15	–	Label (Jam Clear) (P/O PL 20.4 Item 4)
16	028E94260	KL-Clip
17	–	Rear Guide Set (P/O PL 20.4 Item 4)
18	–	Exit Spring (P/O PL 20.4 Item 4)
19	–	Actuator (Set) (P/O PL 20.4 Item 4)
20	–	Chute (P/O PL 20.4 Item 4)
21	–	Actuator Pad (P/O PL 20.4 Item 4)
22	–	Ground Wire (P/O PL 20.4 Item 4)
23	–	Harness Seal (P/O PL 20.4 Item 4)



PL 20.6 Takeaway Pinch Roll, Nudger Motor, Nudger/Feed Roll

Item	Part	Description
1	–	Bracket (P/O PL 20.5 Item 6)
2	–	Shaft (Takeaway Pinch Roll) (P/O PL 20.5 Item 6)
3	–	Roll (P/O PL 20.5 Item 6)
4	–	Roll (P/O PL 20.5 Item 6)
5	–	Bracket (P/O PL 20.5 Item 6)
6	–	Spring (P/O PL 20.5 Item 6)
7	–	Bracket (P/O PL 20.5 Item 7)
8	–	Gear (18T/19T) (P/O PL 20.5 Item 7)
9	–	Gear (36T/19T) (P/O PL 20.5 Item 7)
10	–	Gear (36T/16T) (P/O PL 20.5 Item 7)
11	–	Lift Motor (P/O PL 20.5 Item 7)
12	–	Lift Bracket (P/O PL 20.5 Item 7)
13	–	Motor Bracket (P/O PL 20.5 Item 7)
14	–	Nudger Housing (P/O PL 20.5 Item 12)
15	–	Gear (28T) (P/O PL 20.5 Item 12)
16	–	Idler Gear (36T) (P/O PL 20.5 Item 12)
17	–	Nudger Shaft (P/O PL 20.5 Item 12)
18	–	Nudger Gear (34T) (P/O PL 20.5 Item 12)
19	–	Nudger Roll (P/O PL 20.6 Item 30) (REP 15.6.1)
20	–	Nudger Shaft (P/O PL 20.5 Item 12)
21	–	Set Stopper (P/O PL 20.5 Item 12)
22	–	Feed Shaft (P/O PL 20.5 Item 12)
23	807E00550	Feed Gear (26T)
24	–	Feed Roll (P/O PL 20.6 Item 30)
25	–	C-Clip (P/O PL 20.5 Item 12)
26	–	Rear Nudger/Feed Spring (P/O PL 20.5 Item 12)
27	–	Front Nudger/Feed Spring (P/O PL 20.5 Item 12)
28	–	Bearing (P/O PL 20.5 Item 12)
29	007K88751	Feed Gear (20T)
30	604K20760	DADF Roll Kit (Feeder/Nudger/Retard) (Not Spared)



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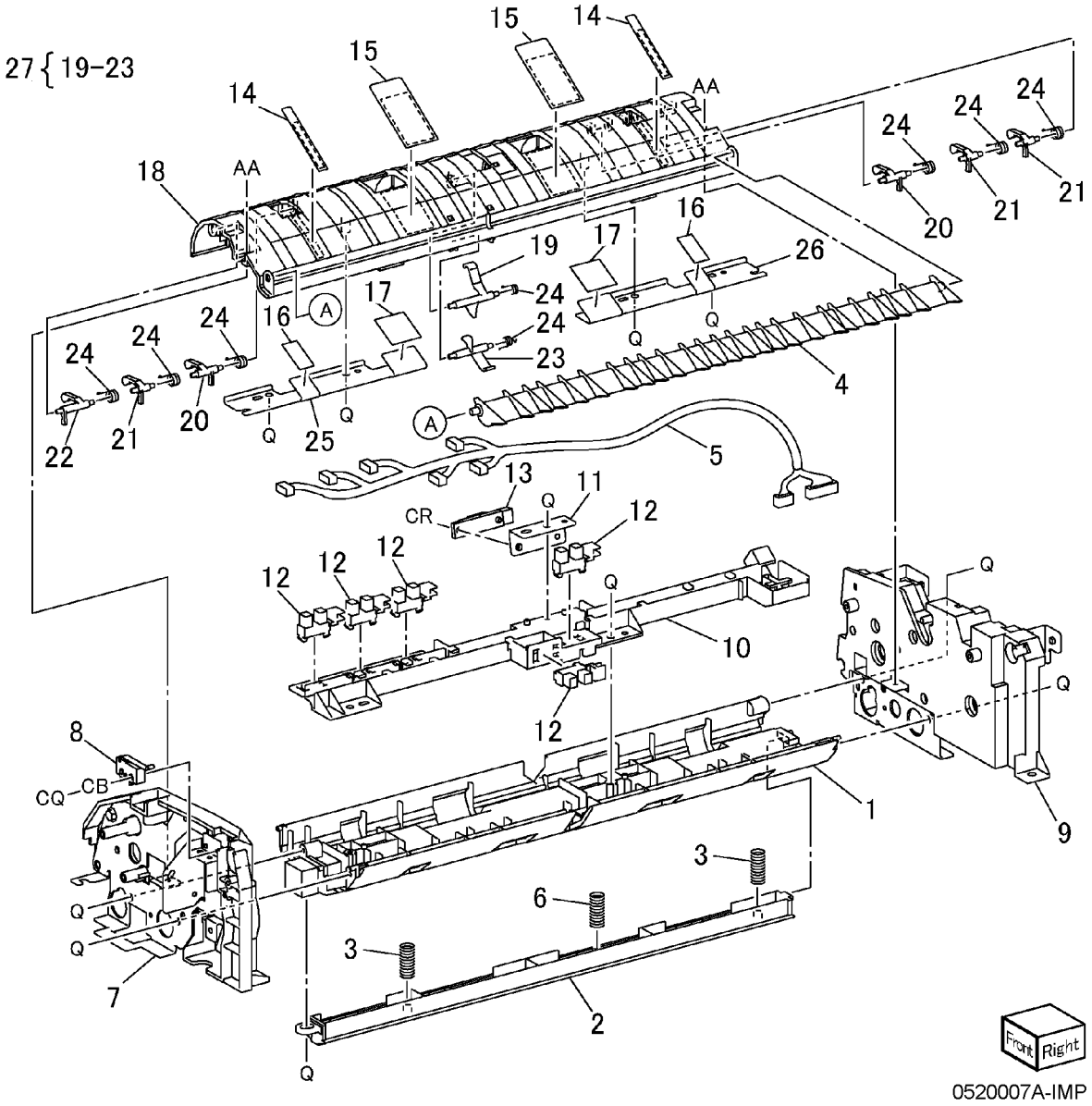
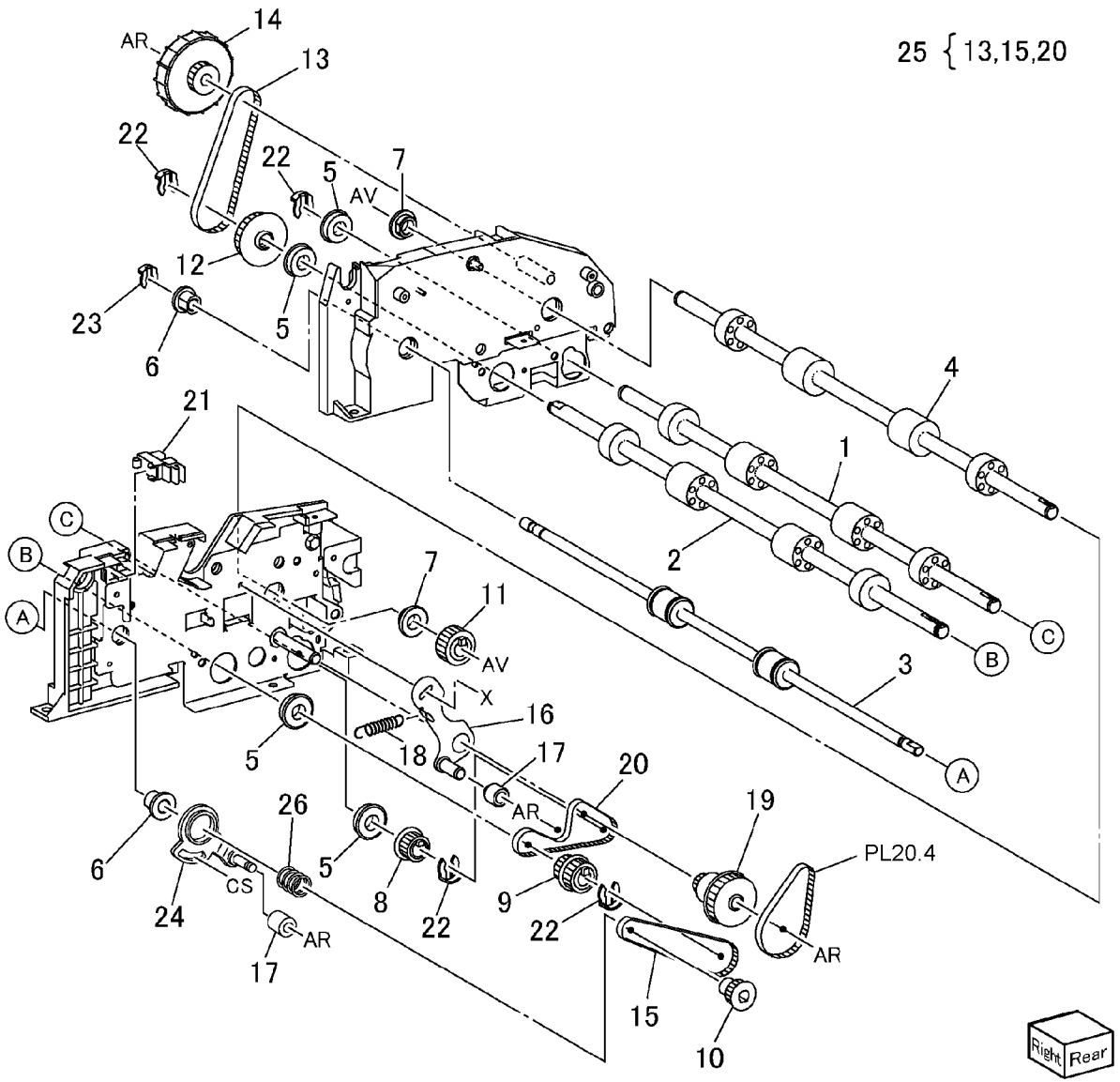
PL 20.7 DADF Feeder-Chute

Item	Part	Description
1	–	Lower Chute (P/O PL 20.4 Item 5)
2	–	Chute (Scan Position) (P/O PL 20.4 Item 5)
3	–	Spring (P/O PL 20.4 Item 5)
4	–	Invert Guide (P/O PL 20.4 Item 5)
5	962K19722	FE Harness
6	–	CVT Spring (P/O PL 20.4 Item 5)
7	–	Feed Frame (Front) (P/O PL 20.4 Item 5)
8	110K11981	DADF Interlock Switch
9	–	Feed Frame (Rear) (P/O PL 20.4 Item 5)
10	–	Sensor Guide (P/O PL 20.4 Item 5)
11	–	Registration Sensor Bracket (P/O PL 20.4 Item 5)
12	930W00111	DADF APS 1 Sensor, DADF APS 2 Sensor, DADF APS 3 Sensor, DADF Preregistration Sensor, DADF Invert Sensor
13	–	Registration Sensor (P/O PL 20.4 Item 5)
14	–	Seal (P/O PL 20.4 Item 5)
15	–	Seal (P/O PL 20.4 Item 5)
16	–	Eliminator (P/O PL 20.4 Item 5)
17	–	Eliminator (P/O PL 20.4 Item 5)
18	–	Chute (P/O PL 20.4 Item 5)
19	–	Actuator (Preregistation) (P/O PL 20.7 Item 27)
20	–	Actuator (APS 1) (P/O PL 20.7 Item 27)
21	–	Actuator (APS 2) (P/O PL 20.7 Item 27)
22	–	Actuator (APS3) (P/O PL 20.7 Item 27)
23	–	Actuator (Invert) (P/O PL 20.7 Item 27)
24	–	Torsion Spring (P/O PL 20.4 Item 5)
25	–	Front Chute Bracket (P/O PL 20.4 Item 5)
26	–	Chute Bracket (Rear) (P/O PL 20.4 Item 5)
27	604K20770	DADF Actuator Kit



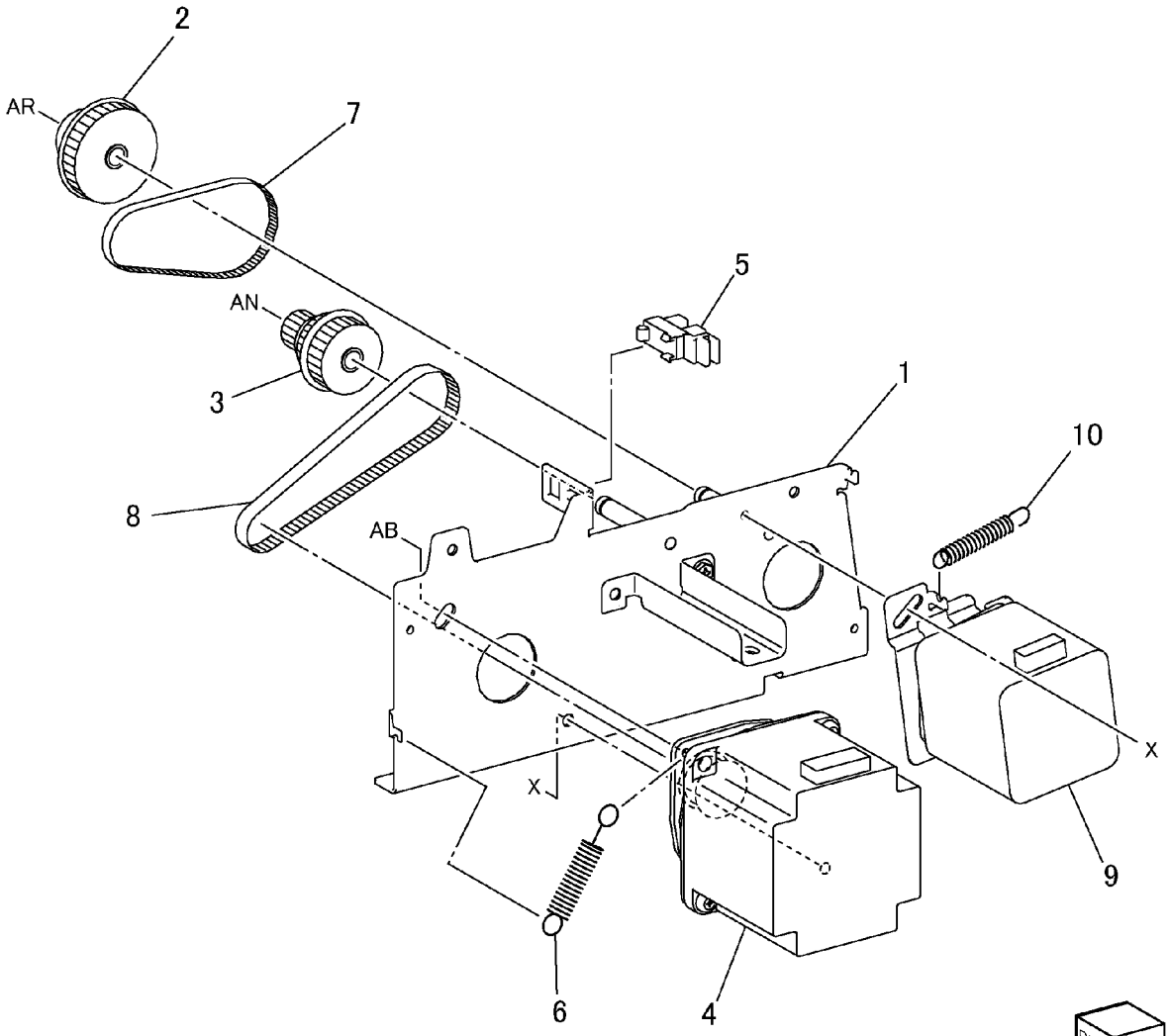
PL 20.8 DADF Feeder-Roll

Item	Part	Description
1	–	Registration Roll (P/O PL 20.4 Item 5) (REP 15.8.1)
2	–	Out Roll (P/O PL 20.4 Item 5)
3	–	Exit Roll (P/O PL 20.4 Item 5)
4	–	Takeaway Roll (P/O PL 20.4 Item 5)
5	–	Ball Bearing (P/O PL 20.4 Item 5)
6	–	Exit Bearing (P/O PL 20.4 Item 5)
7	–	Bearing (P/O PL 20.4 Item 5)
8	–	Pulley (Registration) (P/O PL 20.4 Item 5)
9	–	Pulley (Out) (P/O PL 20.4 Item 5)
10	–	Pulley (Exit) (P/O PL 20.4 Item 5)
11	–	Gear (Takeaway) (P/O PL 20.4 Item 5)
12	–	Flange Pulley (P/O PL 20.4 Item 5)
13	–	Belt (P/O PL 20.8 Item 25)
14	–	Handle Pulley (P/O PL 20.4 Item 5)
15	–	Belt (P/O PL 20.8 Item 25)
16	–	Tension Bracket (P/O PL 20.4 Item 5)
17	–	Tension Roller (P/O PL 20.4 Item 5)
18	809E50763	Tension Spring
19	–	Idler Pulley (P/O PL 20.4 Item 5)
20	–	Belt (P/O PL 20.8 Item 25)
21	930W00111	DADF Document Set Sensor
22	–	KL-Clip (P/O PL 20.4 Item 5)
23	028E94260	KL-Clip
24	–	Tension Bracket (P/O PL 20.4 Item 5)
25	604K20780	DADF Belt Kit
26	–	Exit Spring (P/O PL 20.4 Item 5)



PL 20.9 Motor Unit Assembly

Item	Part	Description
1	–	Motor Bracket (P/O PL 20.1 Item 3)
2	–	Gear Pulley (20/50) (P/O PL 20.1 Item 3)
3	–	Gear Pulley (14/32/37) (P/O PL20.1 Item 3)
4	127K38440	DADF Feed Motor
5	930W00111	DADF Feed Out Sensor
6	–	Spring (Not Spared)
7	423W08055	Takeaway Belt (4mm)
8	423W29955	Feed Belt (6mm)
9	127K38460	DADF Registration Motor
10	809E50763	Spring



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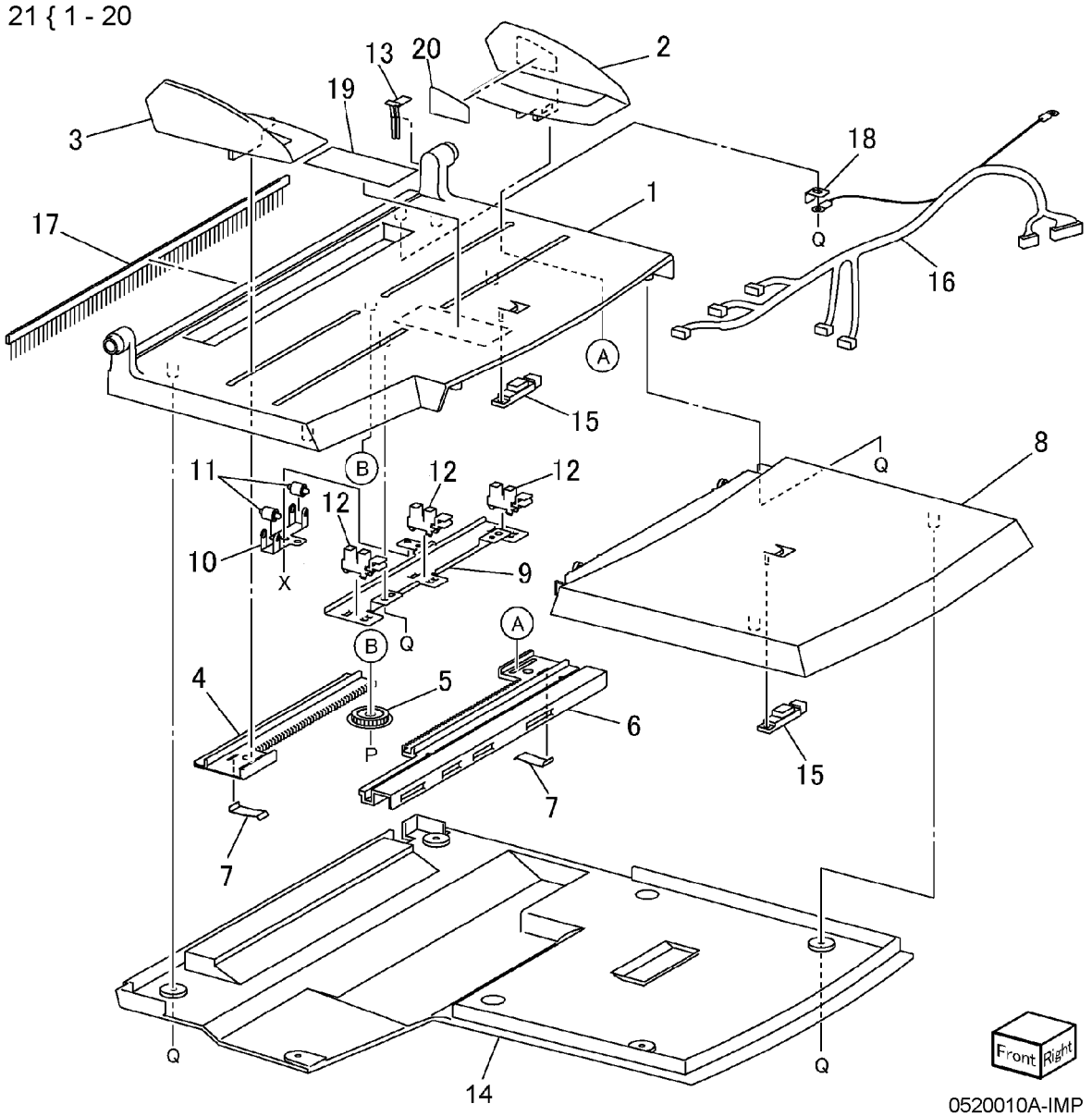
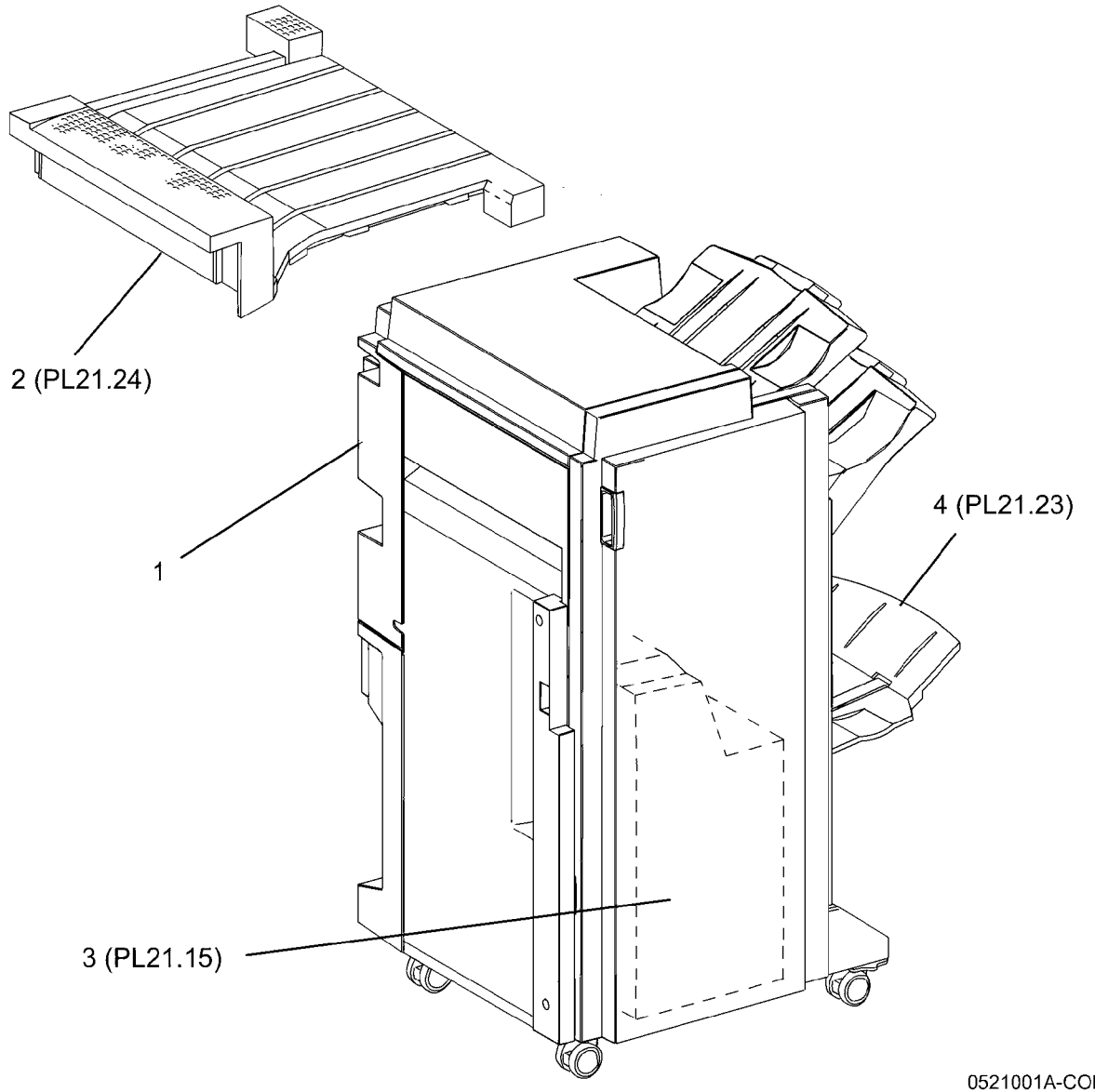
PL 20.10 DADF Document Tray

Item	Part	Description
1	–	Hinge Tray (P/O PL 20.10 Item 21)
2	–	Side Guide (Rear) (P/O PL 20.10 Item 21)
3	–	Side Guide (Front) (P/O PL 20.10 Item 21)
4	–	Rack Gear (P/O PL 20.10 Item 21)
5	–	Pinion Gear (P/O PL 20.10 Item 21)
6	120E22370	Rack Gear and Actuator
7	809E51860	Rack Spring
8	–	Tray Upper Cover (P/O PL 20.10 Item 21)
9	–	Sensor Bracket (P/O PL 20.10 Item 21)
10	–	Tray Spring (P/O PL 20.10 Item 21)
11	–	Roller (P/O PL 20.10 Item 21)
12	930W00111	DADF Tray Set Guide Sensor 1, DADF Tray Set Guide Sensor 2, DADF Tray Set Guide Sensor 3
13	–	Harness Guide (P/O PL 20.10 Item 21)
14	–	Tray Lower Cover (P/O PL 20.10 Item 21)
15	130E89950	DADF Tray Size 1 Sensor, DADF Tray Size 2 Sensor
16	962K19712	Tray Wire Harness
17	105E06910	Eliminator
18	–	Earth Bracket (P/O PL 20.10 Item 21)
19	–	Label (Installation) (P/O PL 20.10 Item 21)
20	–	Label (Max) (P/O PL 20.10 Item 21)
21	050K56180	DADF Document Tray Assembly



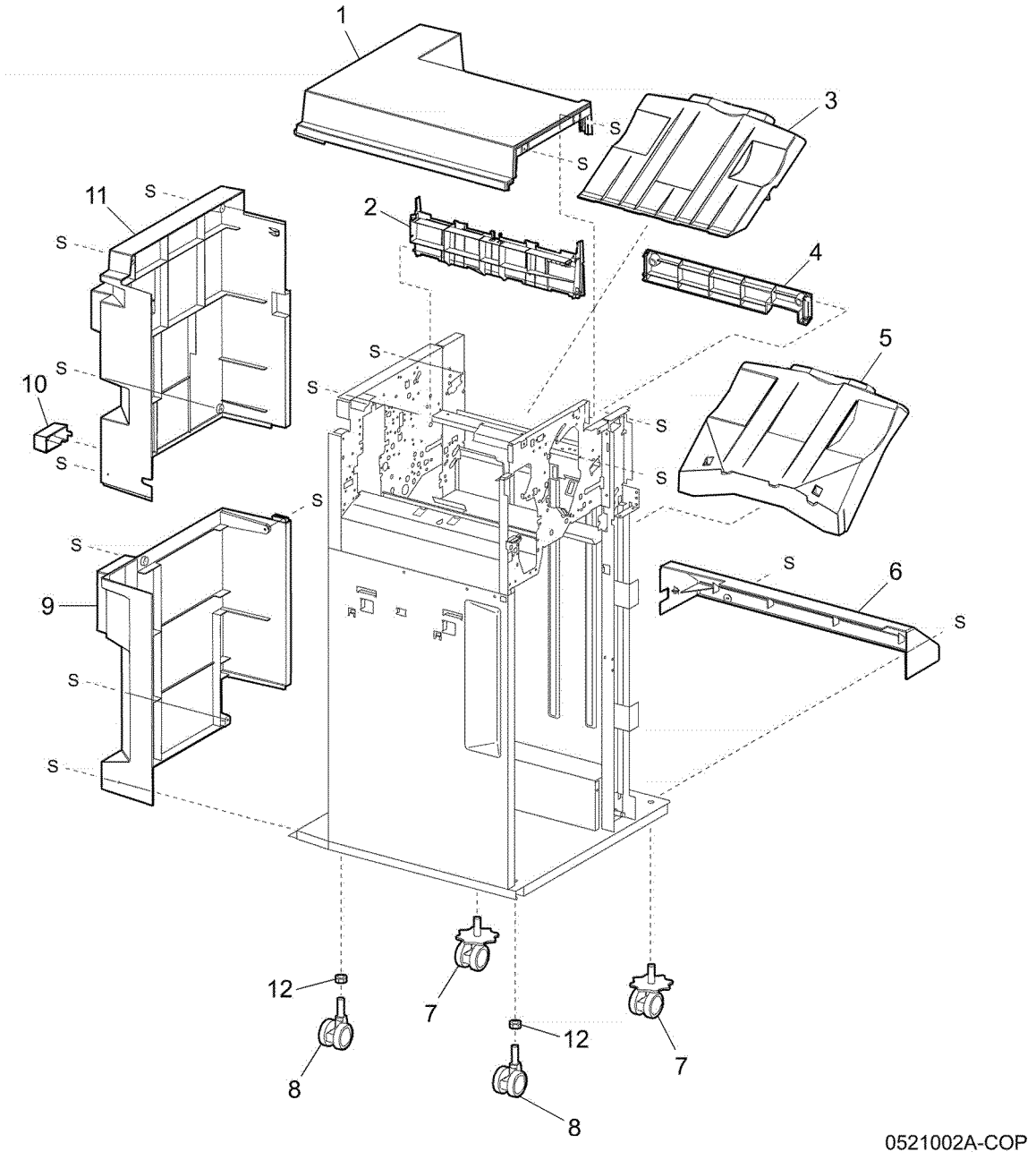
PL 21.1 A/P Finisher

Item	Part	Description
1	–	A/P Finisher (Not Spared) (REP 12.50)
2	059K37918	H-Transport Assembly (110V) (REP 12.51)
–	059K56260	H-Transport Assembly (220V) (REP 12.51)
3	–	Booklet Maker (REP 12.55)
4	–	Booklet Tray



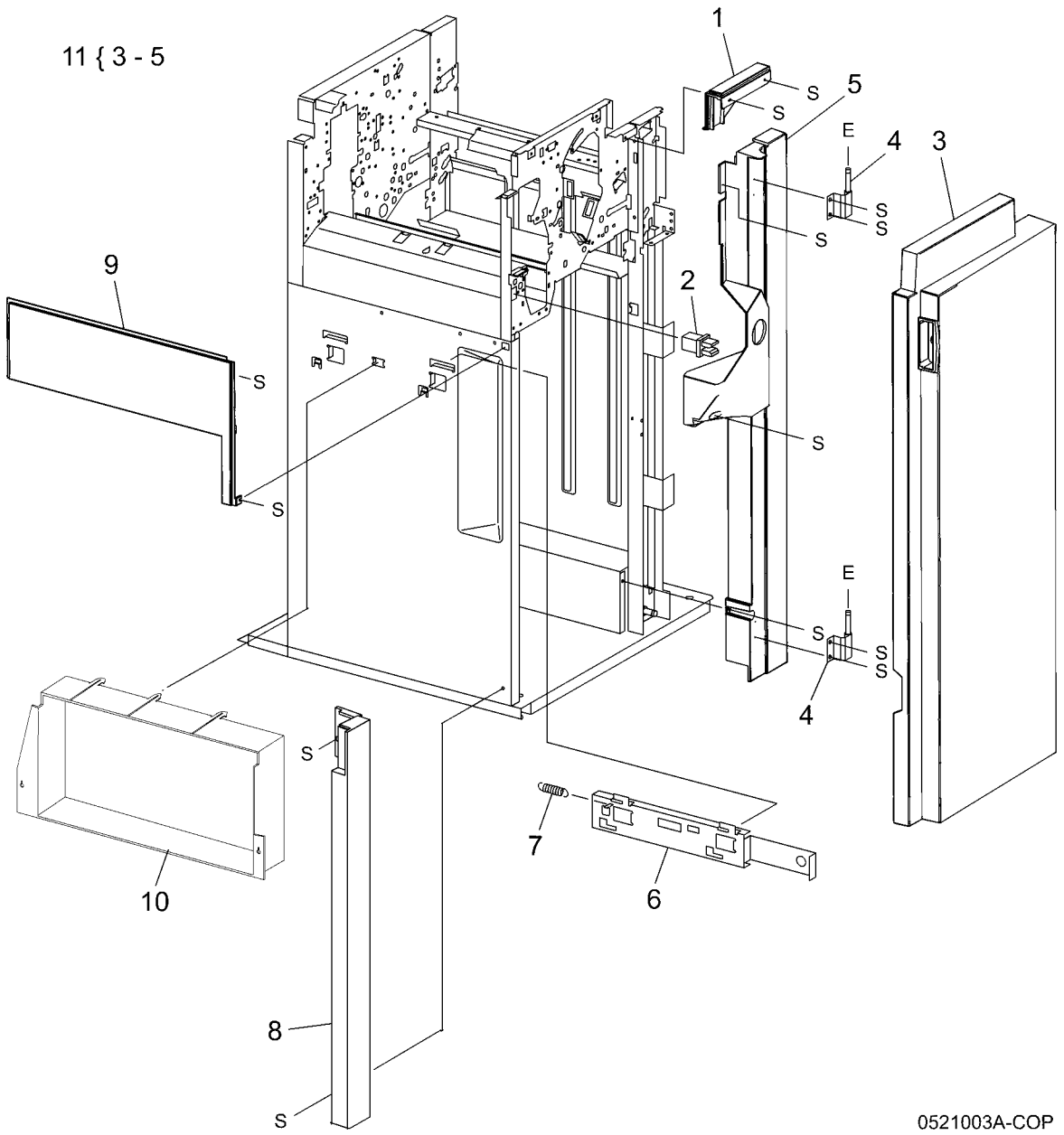
PL 21.2 Finisher Cover: 1 of 2

Item	Part	Description
1	–	Top Cover (Not Spared) (REP 12.43)
2	–	Tray Spring Guide (Not Spared) (REP 12.47)
3	050K51270	Top Tray (REP 12.45)
4	–	Eject Cover (Not Spared) (REP 12.46)
5	050K51280	Stacker Tray (REP 12.58)
6	–	Bottom Cover (Not Spared)
7	017E98040	Caster
8	017E97230	Caster
9	–	Rear Lower Cover (Not Spared) (REP 12.42)
10	–	H-Transport Connector Cover (Not Spared)
11	–	Rear Upper Cover (Not Spared) (REP 12.41)
12	–	Nut M12X1.25 (Not Spared)



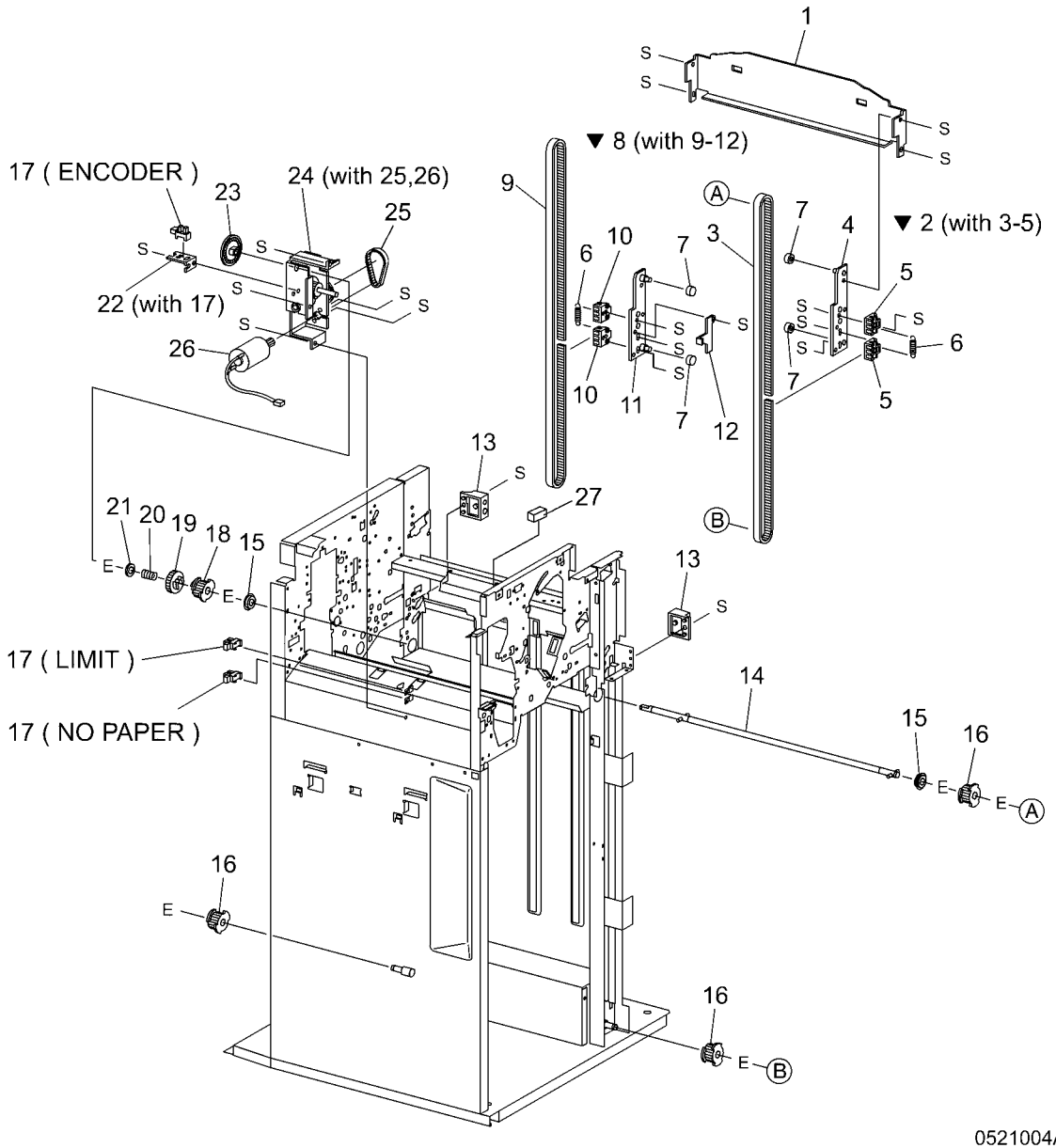
PL 21.3 Finisher Cover: 2 of 2

Item	Part	Description
1	–	Front Top Cover (Not Spared) (REP 12.44)
2	110E97990	Front Door Interlock Switch
3	–	Front Door (P/O PL 21.3 Item 11)
4	–	Hinge Bracket (P/O PL 21.3 Item 11)
5	–	Front Right Cover (P/O PL 21.3 Item 11)
6	–	Docking Plate (Not Spared)
7	–	Spring (Not Spared)
8	802E73871	Front Left Cover
9	–	Left Top Cover (Not Spared) (REP 12.49)
10	015K67230	IOT Docking Plate
11	802K67130	Front Door Assembly (REP 12.40)
12	–	Interlock Cover (Not Spared)



PL 21.4 Finisher Stack

Item	Part	Description
1	–	Stacker Tray Bracket (Not Spared)
2	041K94720	Left Carriage Assembly
3	–	Stacker Drive Belt (P/O PL 21.4 Item 2) (REP 12.60)
4	–	Left Carriage Bracket (P/O PL 21.4 Item 2)
5	–	Belt Clamp (P/O PL 21.4 Item 2)
6	809E56850	Spring
7	013E27150	Carriage Bearing
8	041K94730	Right Carriage Assembly
9	023E21520	Stacker Drive Belt (REP 12.60)
10	019E58660	Belt Clamp
11	–	Right Carriage Bracket (P/O PL 21.4 Item 8)
12	–	Stacker Sensor Actuator (P/O PL 21.4 Item 8)
13	802K67140	Stack Height Sensor (Front, Rear)
14	–	Elevator Drive Shaft (Not Spared)
15	413W77559	Bearing
16	020E37720	Pulley (18T)
17	130K88770	Stacker Encoder Sensor, Stacker No Paper Sensor (No Paper), Upper Limit Sensor (Limit)
18	020E37710	Clutch Pulley
19	807E08990	Clutch Gear
20	809E56860	Spring
21	251W31178	Washer
22	–	Sensor Bracket (Not Spared)
23	146E01770	Stacker Encoder
24	015K65900	Elevator Motor Assembly
25	–	Elevator Motor Drive Belt (P/O PL 21.4 Item 24)
26	–	Elevator Motor (P/O PL 21.4 Item 24)
27	110E11990	Down Load Interlock Switch



PL 21.5 Finisher Punch

Item	Part	Description
1	801K15881	3 Hole Punch Assembly (110V) (WC7328/7335/7345 ONLY)
–	801K16771	2/4 Hole Punch Assembly (220V) (WC7228/7235/7245/7328/7335/7345 ONLY) (REP 12.52)
2	–	Puncher Unit Harness (P/O PL 21.5 Item 9)
3	–	Puncher Motor Cover (P/O PL 21.5 Item 1)
4	015K65880	Puncher Move Motor
5	–	Frame Assembly Holder (Not Spared)
6	015K65840	Sensor Registration Bracket Assembly
7	–	Front Punch Cover (Not Spared)
8	–	Side Registration Sensor 1 (Reg 1) and 2 (Reg 2) (P/O PL 21.5 Item 6)
9	015K65871	3 Hole Punch Bracket Assembly
–	030K76641	2/4 Punch Bracket Assembly
10	–	Left Punch Cover (Not Spared)
11	–	Guide Assembly (P/O PL 21.5 Item 9)
12	–	Punch Motor Assembly (P/O PL 21.5 Item 9)
13	–	Punch Motor Sensor (P/O PL 21.5 Item 14)
14	015K65921	Punch Motor Bracket Assembly
15	–	Front Punch Sensor (Front), Home Punch Sensor (Home), Hole Select Punch Sensor (Hole) (P/O PL 21.5 Item 9)
16	–	Sensor Bracket (P/O PL 21.5 Item 9)
17	–	Punch Move Home Sensor (P/O PL 21.5 Item 18)
18	015K65830	Punch Move Home Sensor Assembly
19	060E01140	Puncher Waste Bin
20	130K88770	Puncher Box Set Sensor
21	–	Bracket (P/O PL 21.5 Item 6)
22	–	Bracket (P/O PL 21.5 Item 18)
23	–	Motor Bracket (P/O PL 21.5 Item 14)
24	–	Bracket (Not Spared)

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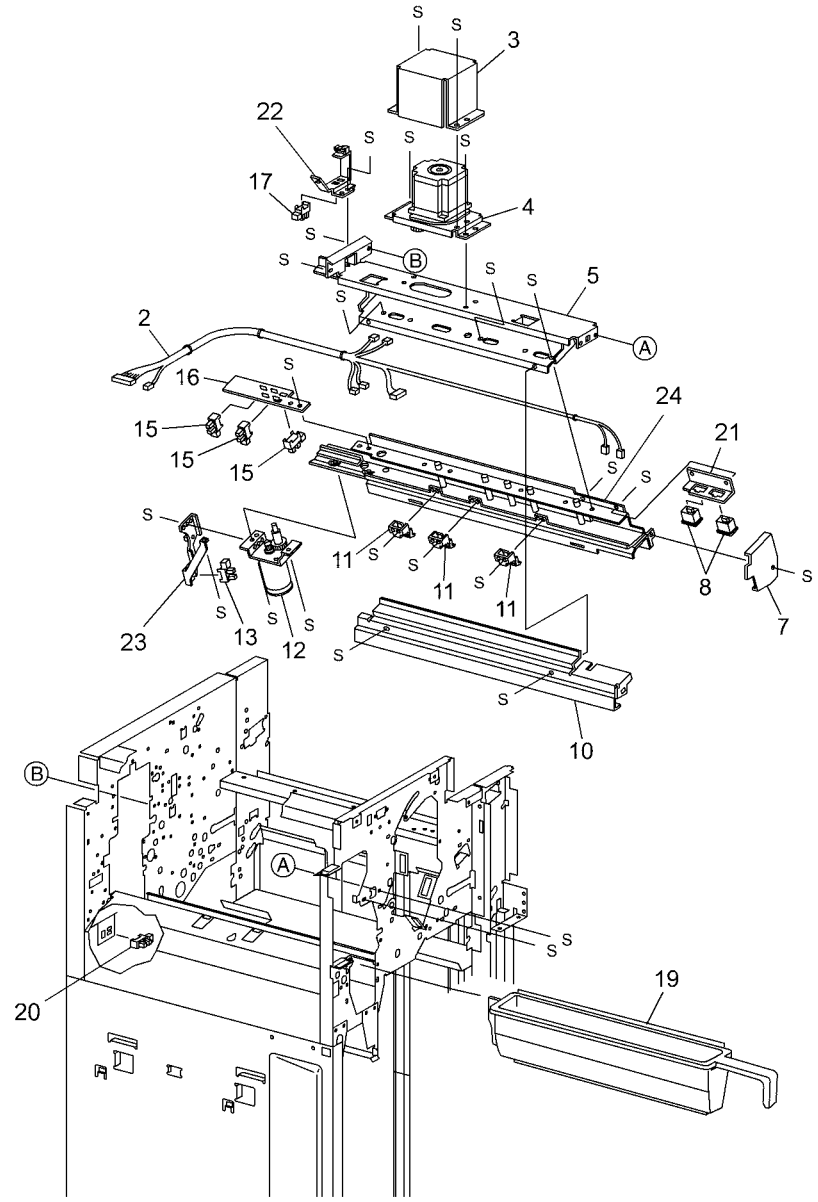

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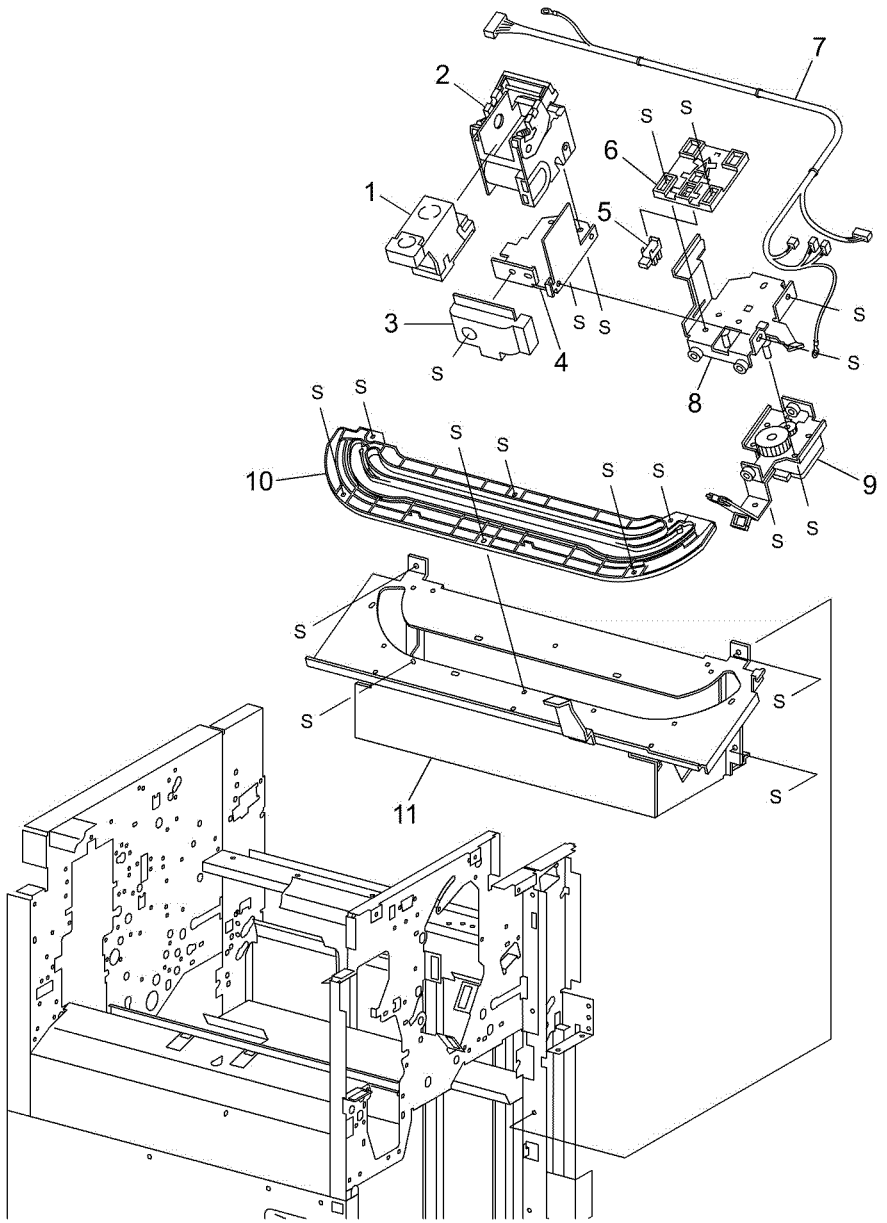
PL 21.6 Finisher Stapler

Item	Part	Description
1	–	Staple Cartridge (Not Spared)
2	029K92151	Stapler Assembly (REP 12.53)
3	–	Stapler Cover (Not Spared)
4	–	Stapler Holder (Not Spared)
5	130K88770	Stapler Move Position Sensor
6	–	Stapler Harness Guide (Not Spared)
7	–	Staple Harness (Not Spared)
8	–	Upper Stapler Carriage (Not Spared)
9	041K94750	Stapler Move Motor
10	001E66640	Stapler Rail (REP 12.54)
11	–	Stapler Frame (Not Spared)



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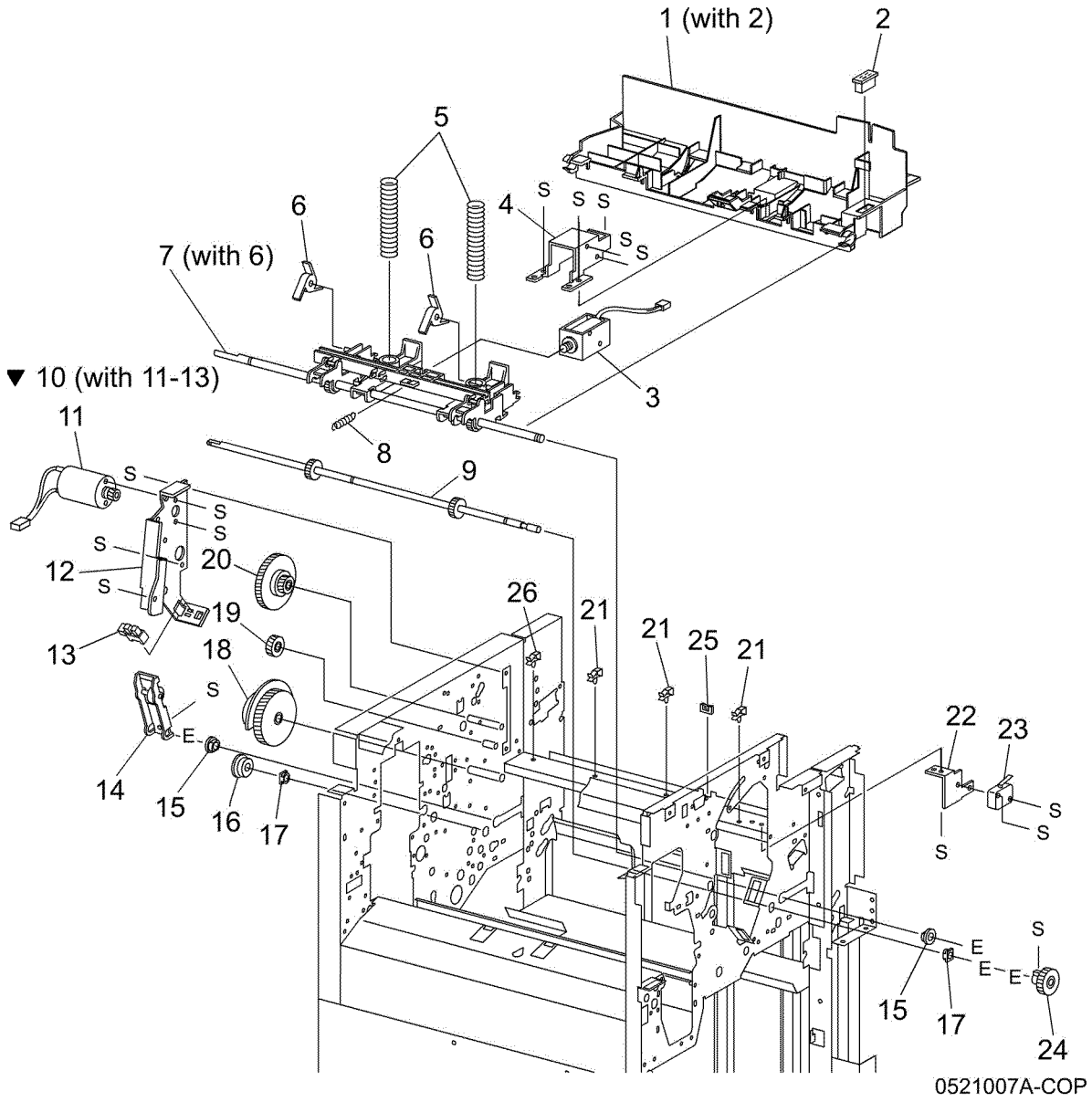
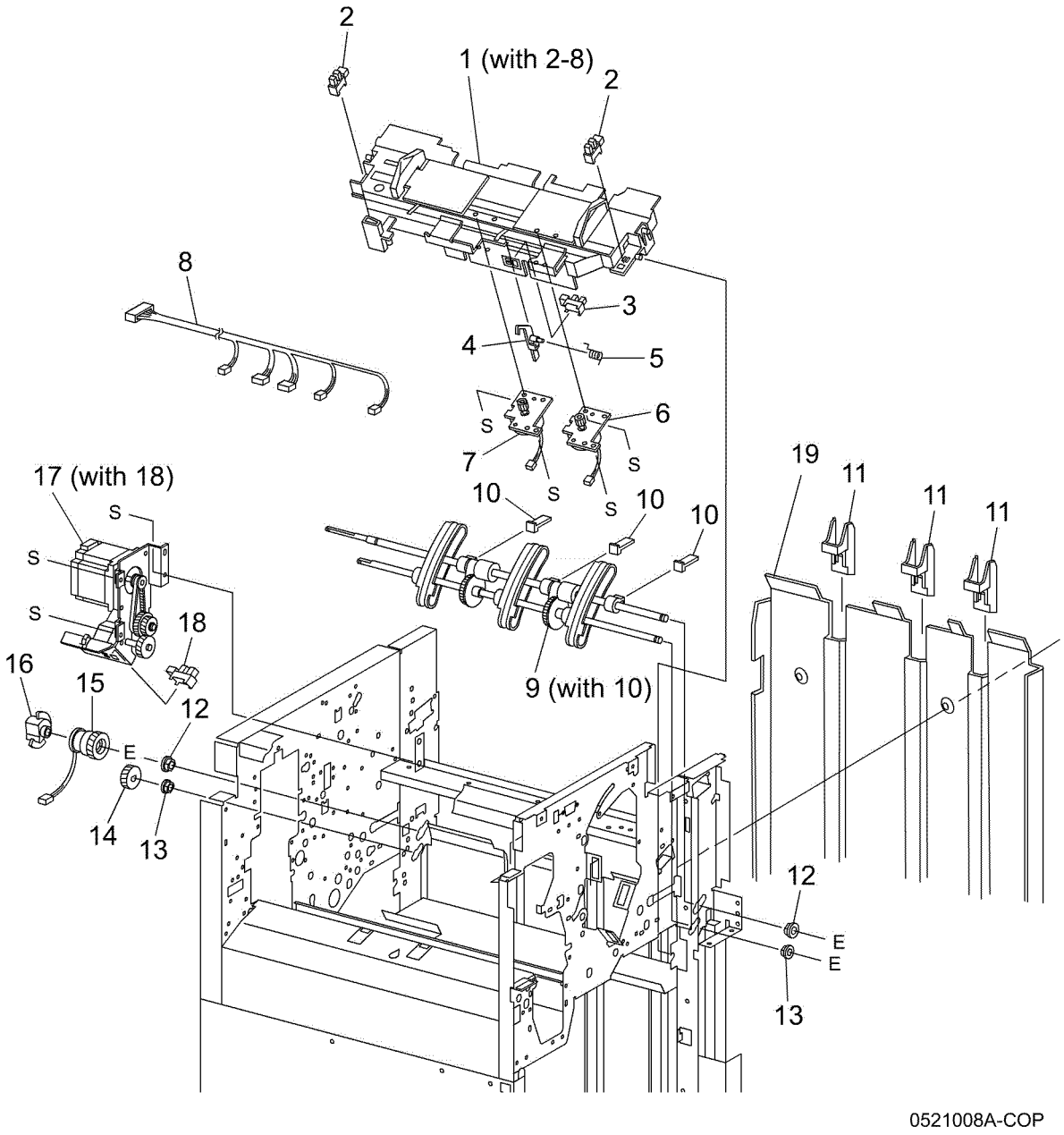
PL 21.7 Finisher Eject: 1 of 3

Item	Part	Description
1	–	Eject Chute Assembly (REP 12.67)
2	–	Magnet (P/O PL 21.7 Item 1)
3	121K34620	Sub Paddle Solenoid
4	–	Solenoid Bracket (Not Spared)
5	–	Pinch Spring (Not Spared)
6	–	Cyclone Paddle (P/O PL 21.7 Item 7)
7	006K24160	Eject Pinch Shaft Assembly
8	809E56880	Solenoid Spring
9	006K24090	Paddle Shaft
10	015K65860	Eject Clamp Motor Assembly (with 11-13)
11	–	Eject Clamp Motor (P/O PL 21.7 Item 10)
12	–	Eject Clamp Bracket (P/O PL 21.7 Item 10)
13	130K88780	Eject Clamp Home Sensor
14	011K97710	Eject Cam Follower
15	413W77559	Bushing
16	807E04700	Gear (23T)
17	413W11660	Bushing
18	807E04750	Cam Gear (70T)
19	807E08990	Gear (23T)
20	807E04740	Gear (68T/20T)
21	–	Wire Clip (Not Spared)
22	–	Switch Bracket (Not Spared)
23	110E11590	Eject Cover Switch
24	–	Entrance Knob (Not Spared)
25	–	Wire Clamp (Not Spared)
26	–	Wire Clip (Not Spared)



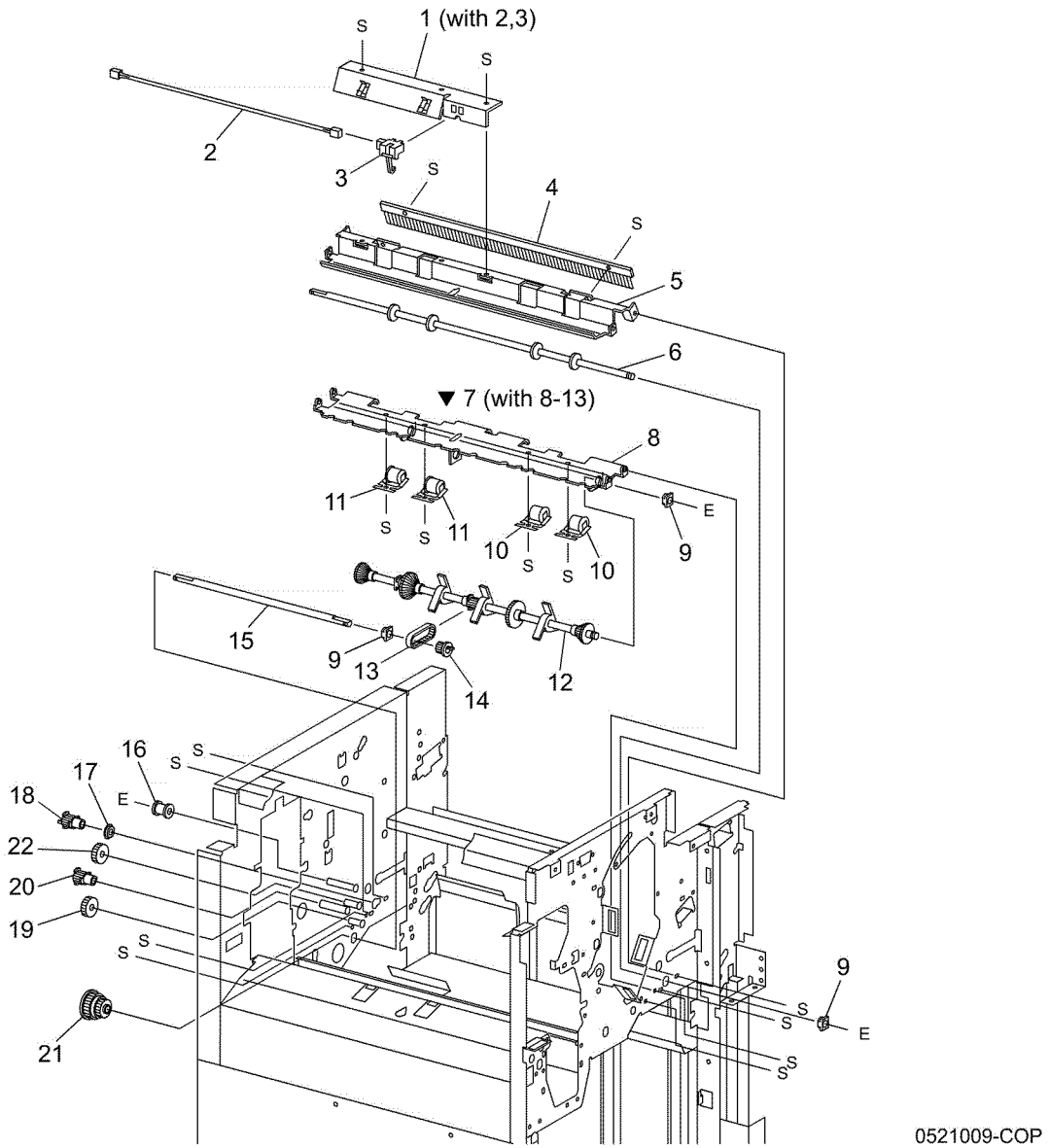
PL 21.8 Finisher Eject: 2 of 3

Item	Part	Description
1	–	Compiler Tray Assembly (REP 12.57)
2	130K88770	Tamper Home Sensor (Front, Rear)
3	130K88780	Compiler Tray No Paper Sensor
4	–	Sensor Actuator (P/O PL 21.8 Item 1)
5	–	Torsion Spring (P/O PL 21.8 Item 1)
6	–	Front Tamper Motor (P/O PL 21.8 Item 1)
7	–	Rear Tamper Motor (P/O PL 21.8 Item 1)
8	962K27671	Compiler Harness
9	–	Eject Roll Shaft Assembly
10	–	Set Clamp Paddle (P/O PL 21.8 Item 9)
11	–	Paddle Guide (Not Spared)
12	–	Bushing (Not Spared)
13	–	Bushing (Not Spared)
14	807E04760	Gear (39T)
15	121K34631	Set Clamp Clutch (34T)
16	120E24310	Set Clamp Actuator
17	015K65850	Eject Motor Assembly
18	–	Set Clamp Home Sensor (P/O PL 21.8 Item 17)
19	–	Inner Cover (Not Spared) (REP 12.48)



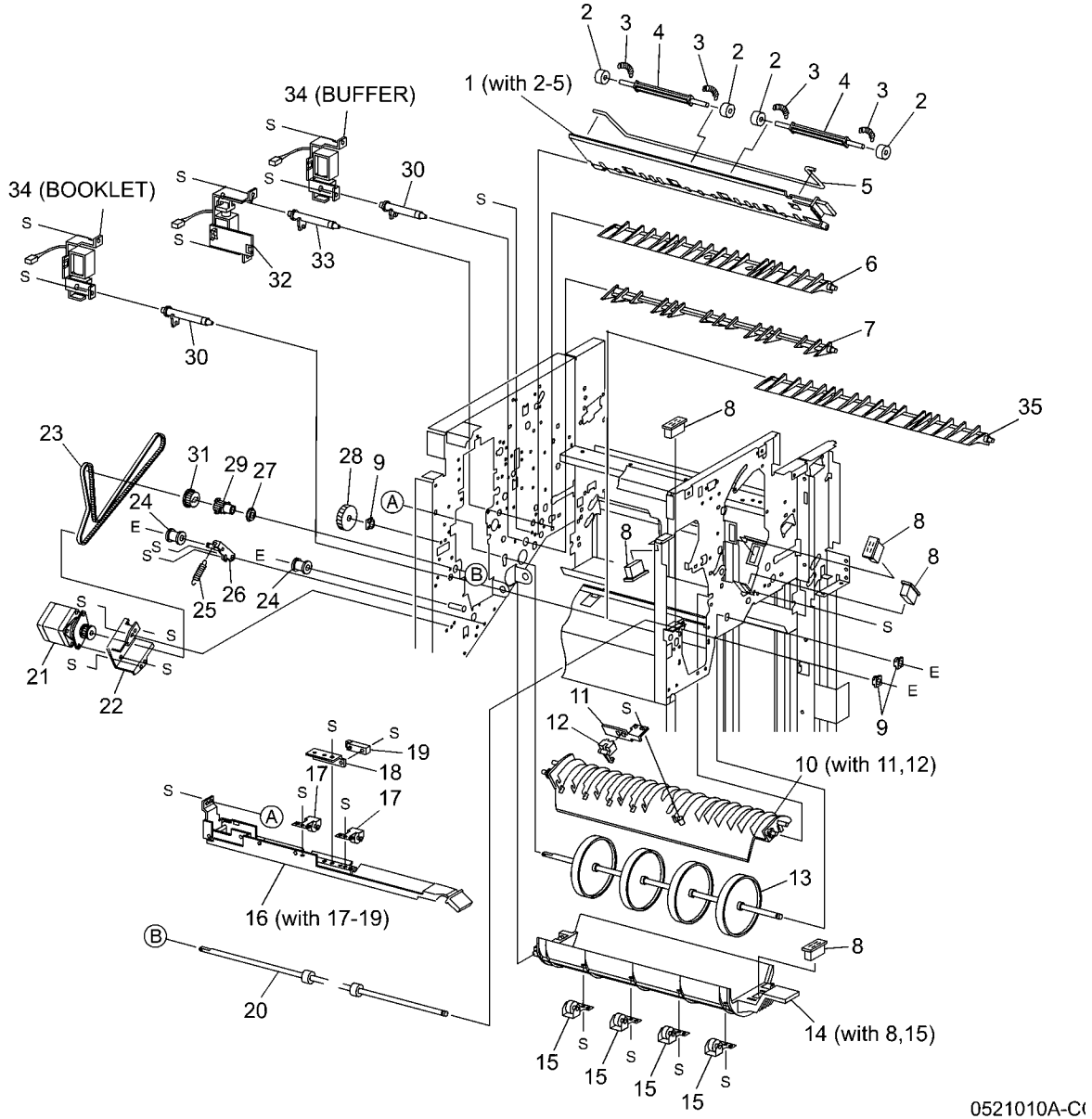
PL 21.9 Finisher Eject: 3 of 3

Item	Part	Description
1	–	Sensor Bracket Assembly
2	–	Complier Sensor Harness (P/O PL 21.9 Item 1)
3	130K88190	Complier Exit Sensor
4	105E13100	Static Eliminator
5	–	Upper Exit Chute (Not Spared)
6	–	Lower Exit Roll (Not Spared)
7	–	Lower Exit Roll Chute Assembly
8	–	Lower Exit Roll Chute (P/O PL 21.9 Item 7)
9	–	Bushing (P/O PL 21.9 Item 7)
10	022K67870	Exit Pinch Roller 1
11	022K67880	Exit Pinch Roller 2
12	006K24240	Paddle Shaft (REP 12.59)
13	423W25554	Synchronous Belt (55T)
14	–	Pulley (17T) (Not Spared)
15	–	Paddle Drive Shaft (Not Spared)
16	–	Pulley (Not Spared)
17	–	Bearing (Not Spared)
18	020E37690	Pulley (20T)
19	–	Gear (23T) (Not Spared)
20	020E37660	Pulley (20T)
21	020E37670	Pulley (44T/20T)
22	–	Gear (23T) (Not Spared)



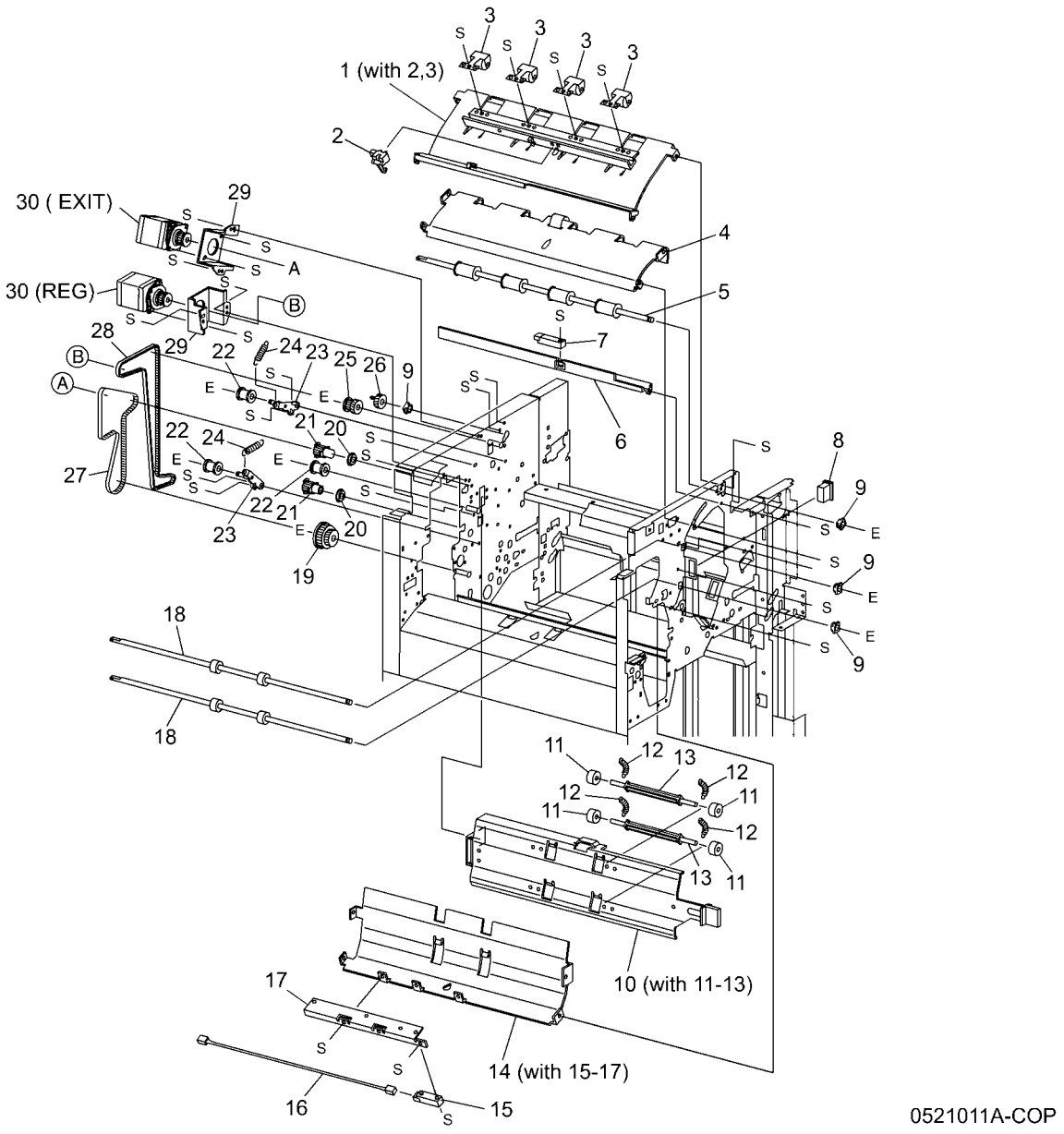
PL 21.10 Finisher Transport: 1 of 2

Item	Part	Description
1	–	Upper Exit Open Chute Assembly
2	–	Pinch Roller (P/O PL 21.10 Item 1)
3	–	Spring (P/O PL 21.10 Item 1)
4	–	Shaft (P/O PL 21.10 Item 1)
5	–	Torsion Spring (P/O PL 21.10 Item 1)
6	–	Transport Gate (Not Spared)
7	–	Buffer Gate (Not Spared)
8	121E92890	Magnet
9	413W11660	Bushing
10	–	Top Buffer Chute Assembly
11	–	Sensor Bracket (P/O PL 21.10 Item 10)
12	130K88190	Buffer Path Sensor (REP 12.61)
13	022K71010	Buffer Roll (REP 12.64)
14	054K27160	Bottom Buffer Chute Assembly (REP 12.65)
15	–	Exit Pinch roller (P/O PL 21.10 Item 14)
16	–	Upper Entrance Chute Assembly
17	022K67850	Entrance Pinch Roller
18	–	Sensor Bracket (P/O PL 21.10 Item 16)
19	130E87370	Transport Entrance Sensor
20	022K70970	Entrance Roll
21	127K40281	Finisher Transport Motor
22	–	Motor Bracket (Not Spared)
23	423W87054	Finisher Transport Motor Belt
24	–	Pulley (Not Spared)
25	–	Tension Spring (Not Spared)
26	–	Tension Bracket (Not Spared)
27	413W66250	Bearing
28	604K36220	Gear (46T)
29	020E37660	Pulley (20T)
30	012E11991	Buffer Link
31	807E04700	Gear (23T)
32	015K65810	Transport Gate Solenoid
33	012E11980	Transport Link
34	015K65821	Buffer Gate Solenoid, Booklet Gate Solenoid
35	–	Booklet Gate (Not Spared)



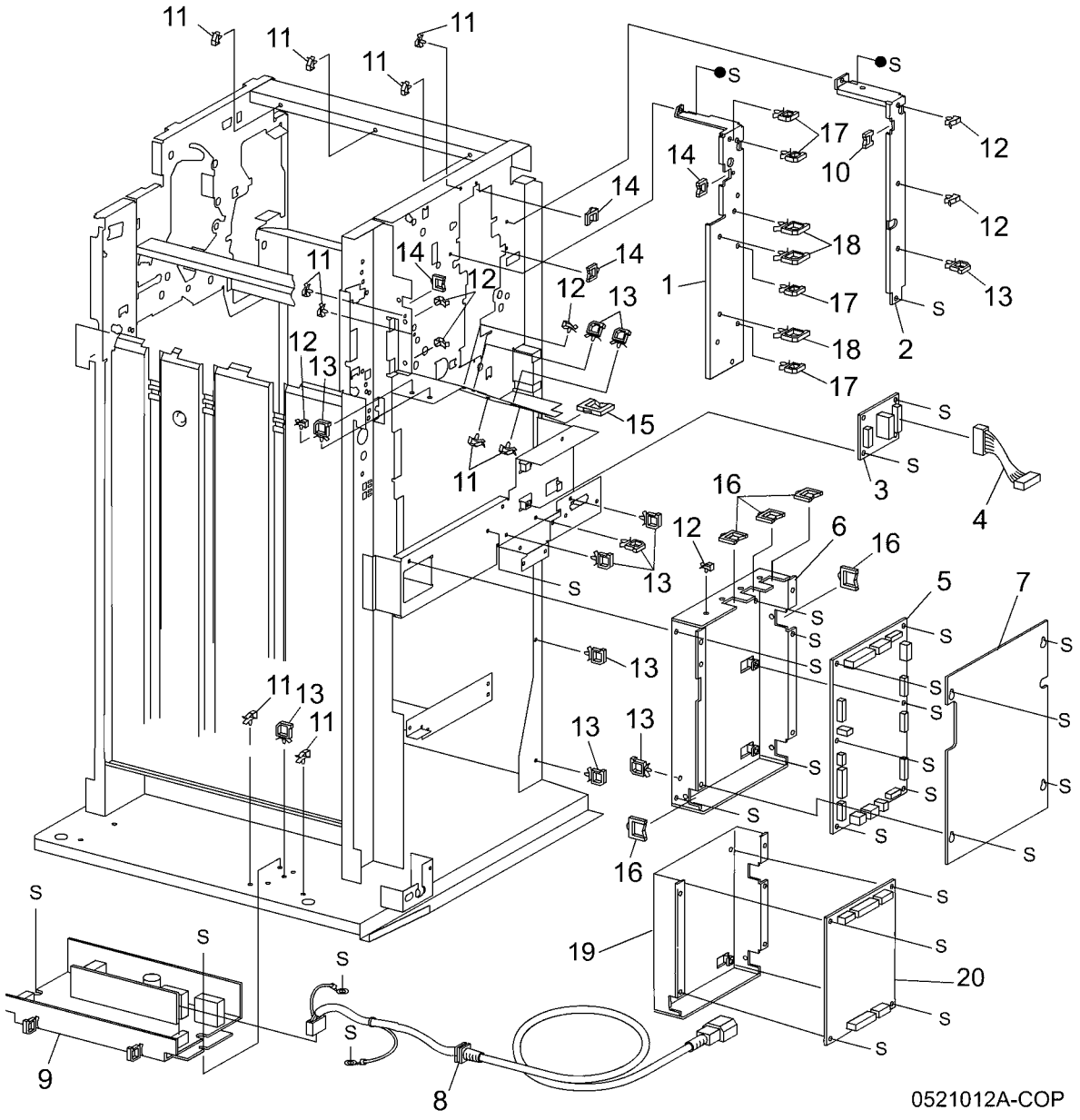
PL 21.11 Finisher Transport: 2 of 2

Item	Part	Description
1	–	Top Tray Exit Baffle Assembly (Not Spared)
2	130K88190	Top Tray Exit Sensor
3	022K67860	Exit Pinch Roller
4	–	Top Tray Lower Exit Baffle (Not Spared)
5	022K70990	Exit Drive Shaft
6	–	Sensor Bracket (Not Spared)
7	130E87370	Top Tray Full Sensor (REP 12.63)
8	121E92890	Magnet
9	413W11660	Bushing
10	054K27580	Lower Top Exit Chute Assembly
11	–	Pinch Roller (P/O PL 21.11 Item 10)
12	–	Spring (P/O PL 21.11 Item 10)
13	–	Shaft (P/O PL 21.11 Item 10)
14	–	Upper Top Exit Chute Assembly
15	130E87410	Gate Sensor (REP 12.62)
16	–	Sensor Harness (P/O PL 21.11 Item 14)
17	–	Sensor Bracket (P/O PL 21.11 Item 14)
18	022K70980	Transport Roll
19	020E37680	Pulley (53T/23T)
20	413W66250	Bearing
21	020E37690	Pulley (20T)
22	–	Pulley (Not Spared)
23	–	Tension Bracket (Not Spared)
24	–	Tension Spring (Not Spared)
25	020E37700	Pulley (20T/20T)
26	807E04720	Gear (20T)
27	423W40054	Registration Motor Drive Belt
28	423W86454	Exit Motor Drive Belt
29	–	Motor Bracket (Not Spared)
30	127K40281	Registration Motor (Reg) and Exit Motor (Exit)



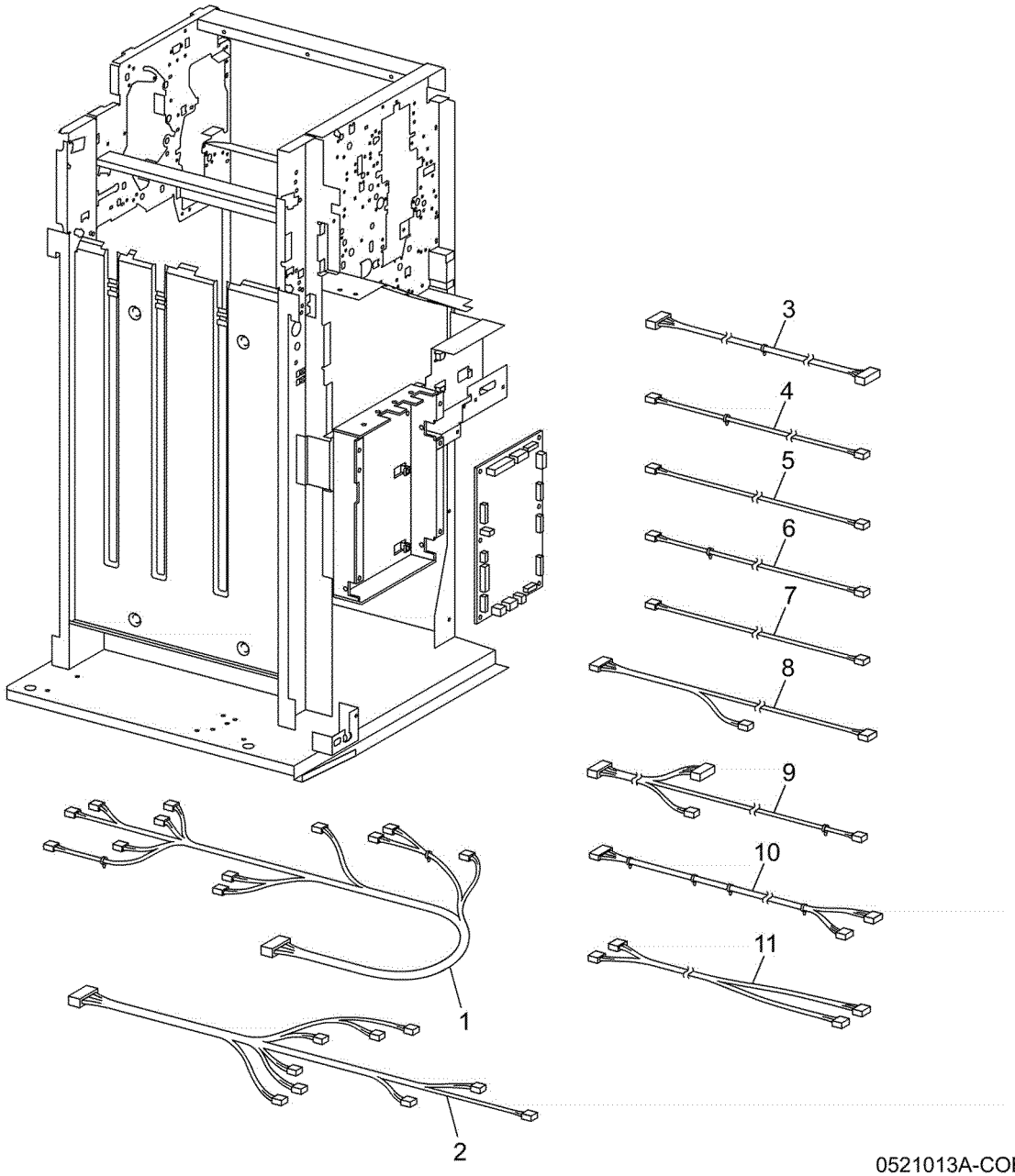
PL 21.12 Finisher Electrical

Item	Part	Description
1	–	Left Harness Bracket (Not Spared)
2	–	Right Harness Bracket (Not Spared)
3	960K04681	H-Transport PWB
4	962K29160	Harness
5	960K35481	Finisher PWB (REP 12.68)
6	–	Finisher PWB Bracket (Not Spared)
7	–	Finisher PWB Cover (Not Spared)
8	962K36610	AC Inlet Harness
9	105K21081	Finisher LVPS
10	–	Wire Clamp (Not Spared)
11	–	Wire Clip (Not Spared)
12	–	Wire Clip (Not Spared)
13	–	Wire Clip (Not Spared)
14	–	Wire Clamp (Not Spared)
15	–	Wire Clamp (Not Spared)
16	–	Wire Clamp (Not Spared)
17	–	Wire Clip (Not Spared)
18	–	Wire Clip (Not Spared)
19	–	Booklet PWB Bracket (Not Spared)
20	960K04672	Booklet PWB



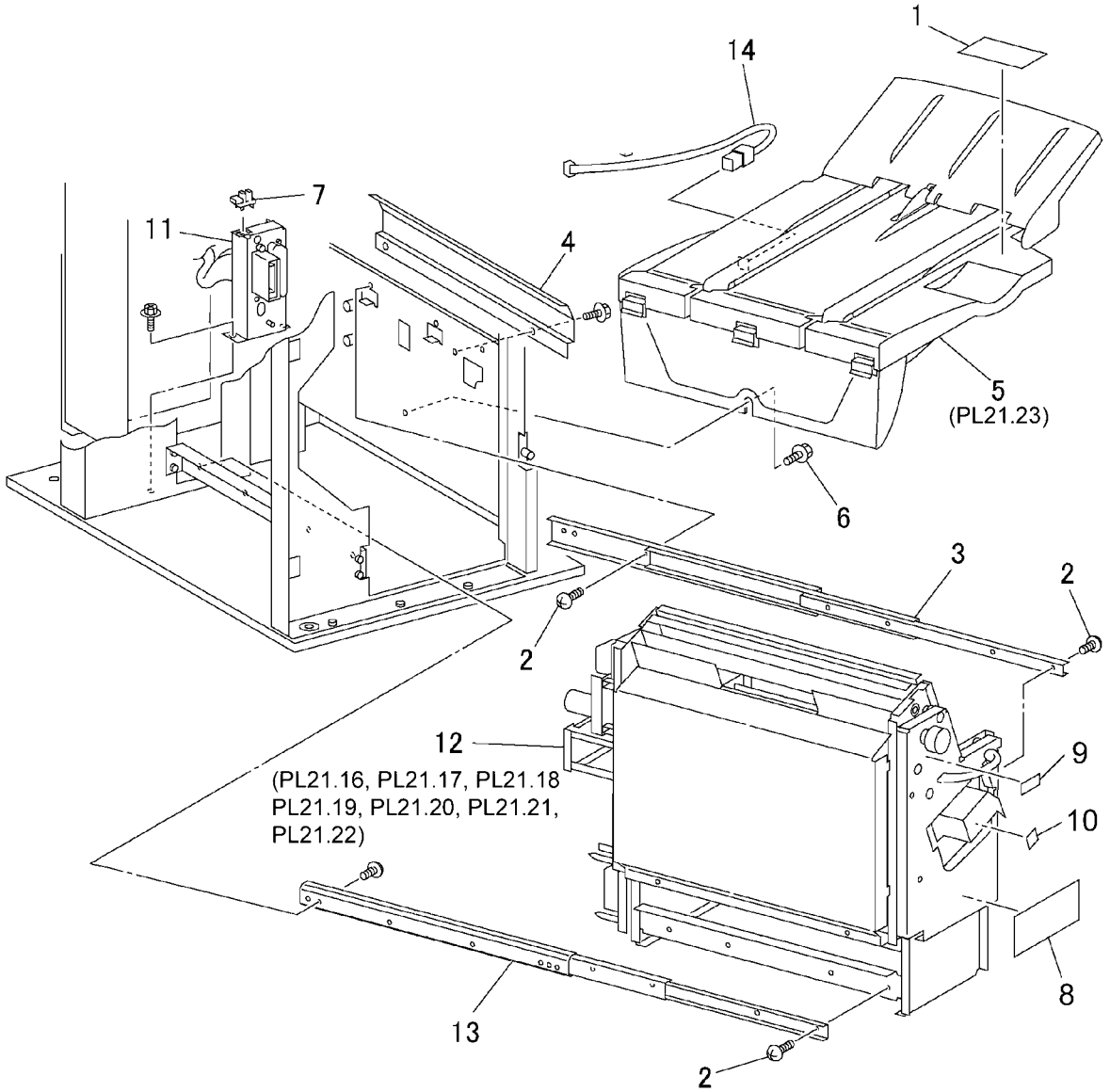
PL 21.13 Finisher Harness

Item	Part	Description
1	–	Main Sensor Harness (Not Spared)
2	–	Main Drive Harness (Not Spared)
3	–	Interface Harness (Not Spared)
4	–	Transport Entrance Sensor Harness (Not Spared)
5	–	Buffer Sensor Harness (Not Spared)
6	–	Top Exit Sensor Harness (Not Spared)
7	–	Top Sensor Harness (Not Spared)
8	–	Punch Drive Harness (Not Spared)
9	–	Punch Sensor Harness (Not Spared)
10	–	LVPS Harness (Not Spared)
11	–	Interlock Harness (Not Spared)



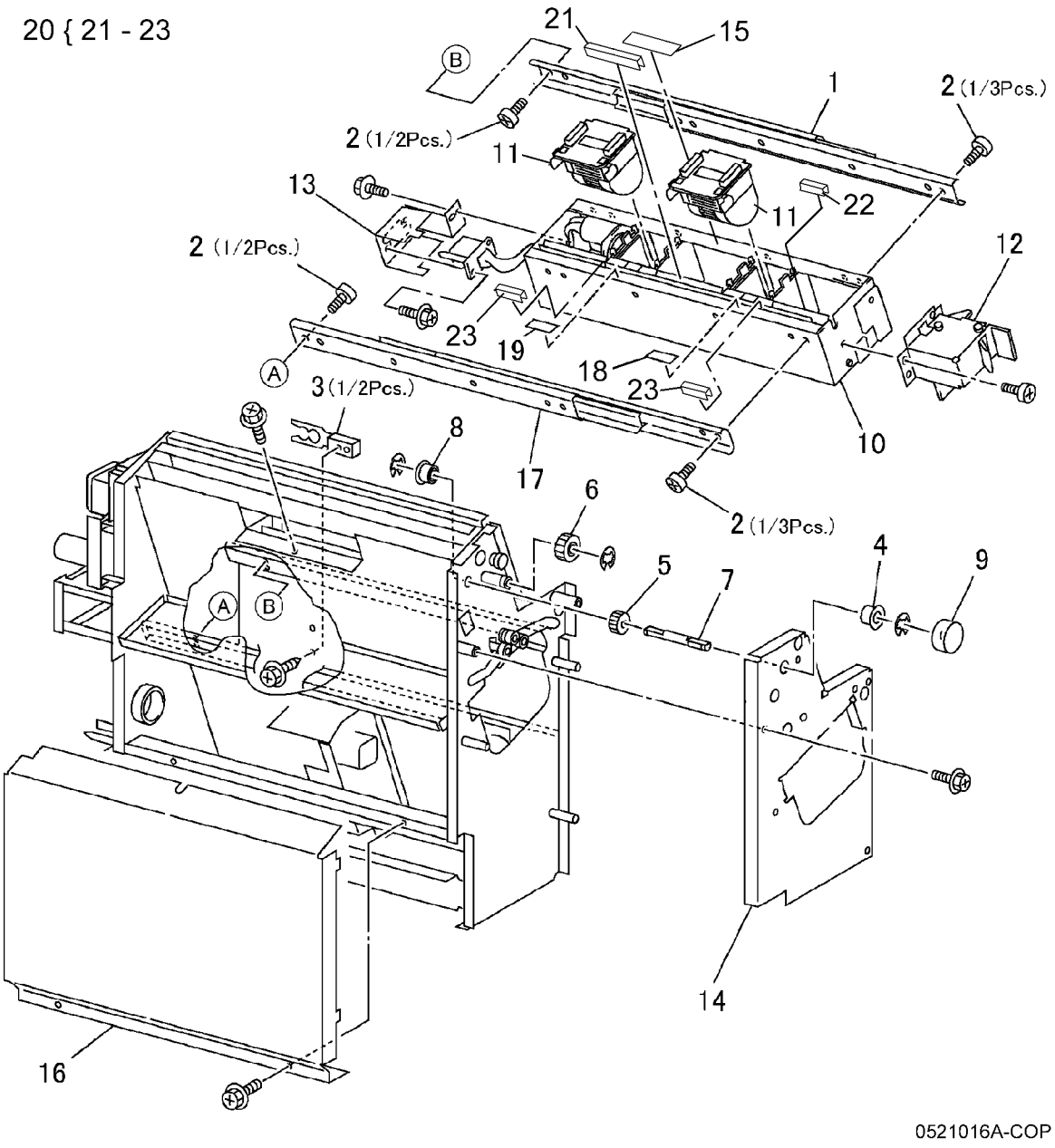
PL 21.15 Booklet Accessory

Item	Part	Description
1	–	Label (Not Spared)
2	–	Screw (Not Spared)
3	801K16560	Right Rail
4	–	Cover (Not Spared)
5	050K49302	Booklet Tray Assembly
6	–	Knob Screw (Not Spared)
7	130K88770	Booklet Drawer Set Sensor
8	–	Label (Not Spared)
9	–	Label (Not Spared)
10	–	Label (Not Spared)
11	–	Connector (Not Spared)
12	801K16554	Booklet Drawer Assembly (110V) (REP 12.55)
–	801K20064	Booklet Drawer Assembly (220V)
13	801K16581	Left Rail
14	962K29221	Wire Harness



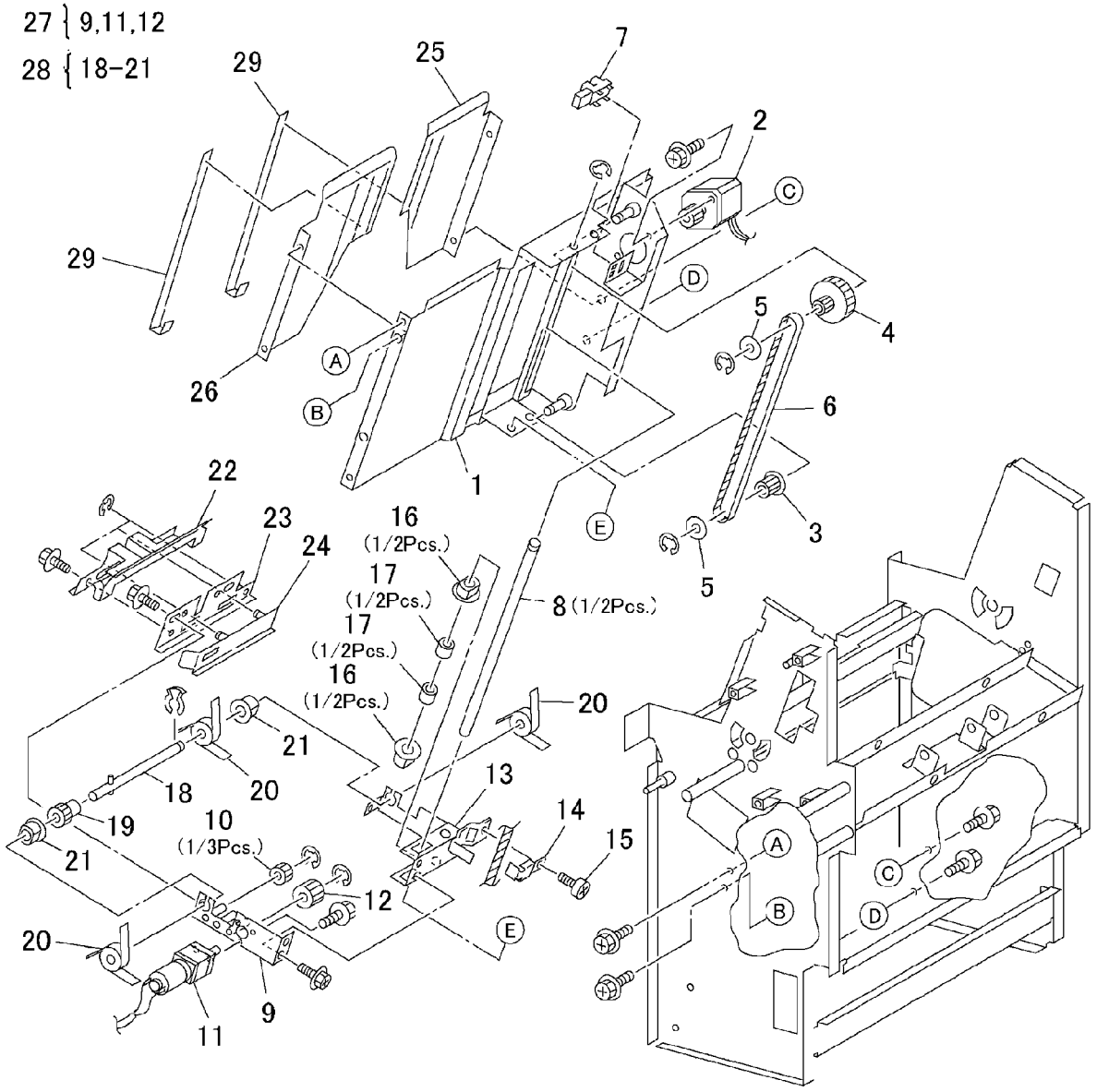
PL 21.16 Booklet Component - 1

Item	Part	Description
1	801K18730	Right Rail
2	–	Screw (P/O PL 21.15 Item 12)
3	003E59690	Stopper
4	–	Bearing (P/O PL 21.15 Item 12)
5	407W07717	Gear (17T)
6	407W07731	Gear (31T)
7	–	Shaft (P/O PL 21.15 Item 12)
8	–	Ball Bearing (P/O PL 21.15 Item 12)
9	003K13680	Knob
10	029K92292	Stapler (REP 12.56)
11	029K92041	Staple
12	015K67280	Latch
13	–	Bracket (P/O PL 21.15 Item 12)
14	–	Front Cover (P/O PL 21.15 Item 12)
15	–	Label (P/O PL 21.15 Item 12)
16	–	Left Cover (P/O PL 21.15 Item 12)
17	801K16581	Left Rail
18	–	Label (P/O PL 21.15 Item 12)
19	–	Label (P/O PL 21.15 Item 12)
20	604K13841	Paper Skew Guide Kit
–	604K18741	Mylar Guide Kit
21	–	Paper Guide (Center) (P/O PL 21.16 Item 20)
22	–	Paper Guide (Front) (P/O PL 21.16 Item 20)
23	–	Paper Guide (Clinch) (P/O PL 21.16 Item 20)



PL 21.17 Booklet Component -2 (End Guide)

Item	Part	Description
1	–	Compile Chute (P/O PL 21.15 Item 12)
2	127K46170	Booklet End Guide Motor
3	020E37210	Pulley
4	807E02050	Gear Pulley (40T/20T)
5	–	Washer (P/O PL 21.15 Item 12)
6	423W86254	Belt
7	130K88780	Booklet End Guide Home Sensor
8	–	Shaft (P/O PL 21.15 Item 12)
9	–	Bracket (P/O PL 21.17 Item 27)
10	807E02070	Gear (14T)
11	–	Booklet Paddle Motor (P/O PL 21.17 Item 27)
12	–	Gear (14T) (P/O PL 21.17 Item 27)
13	–	Bracket (P/O PL 21.15 Item 12)
14	–	Stopper (P/O PL 21.15 Item 12)
15	–	Screw (P/O PL 21.15 Item 12)
16	–	Bearing (P/O PL 21.15 Item 12)
17	–	Roll (P/O PL 21.15 Item 12)
18	–	Shaft (P/O PL 21.17 Item 28)
19	–	Gear (14T) (P/O PL 21.17 Item 28)
20	–	Paddle (P/O PL 21.17 Item 28)
21	–	Bearing (P/O PL 21.17 Item 28)
22	–	End Guide (P/O PL 21.15 Item 12)
23	–	Support Bracket (P/O PL 21.15 Item 12)
24	–	Adjust Bracket (P/O PL 21.15 Item 12)
25	–	Chute (Front) (Not Spared)
26	–	Chute (Rear) (P/O PL 21.15 Item 12)
27	015K60410	Booklet Paddle Motor Assembly
28	006K22960	Paddle Shaft Assembly
29	–	Paper Guide (P/O PL 21.15 Item 12)



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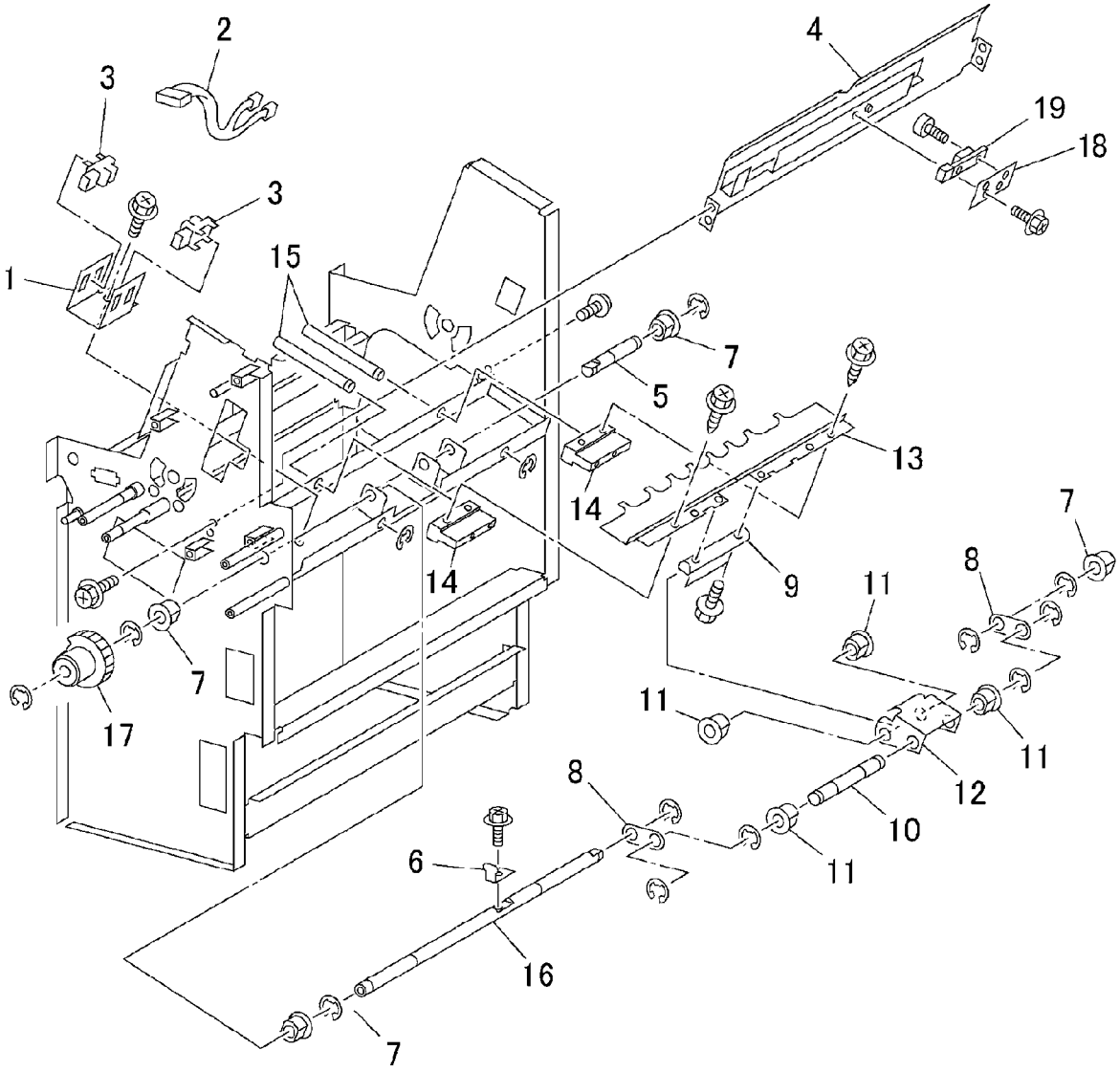
PL 21.18 Booklet Component -3

Item	Part	Description
1	–	Bracket (P/O PL 21.15 Item 12)
2	962K18401	Wire Harness
3	130K88780	Knife Home Sensor, Knife Folder Sensor
4	–	Chute (P/O PL 21.15 Item 12)
5	–	Shaft (P/O PL 21.15 Item 12)
6	–	Actuator (P/O PL 21.15 Item 12)
7	–	Bearing (P/O PL 21.15 Item 12)
8	–	Joint (P/O PL 21.15 Item 12)
9	–	Shaft (Not Spared)
10	–	Shaft (P/O PL 21.15 Item 12)
11	–	Bearing (P/O PL 21.15 Item 12)
12	–	Bracket (P/O PL 21.15 Item 12)
13	015K67272	Bracket Assembly Knife
14	–	Guide (P/O PL 21.15 Item 12)
15	–	Shaft (P/O PL 21.15 Item 12)
16	–	Shaft (P/O PL 21.15 Item 12)
17	807E02060	Gear (42T)
18	–	Bracket (P/O PL 21.15 Item 12)
19	130E87410	Booklet Compile No Paper Sensor



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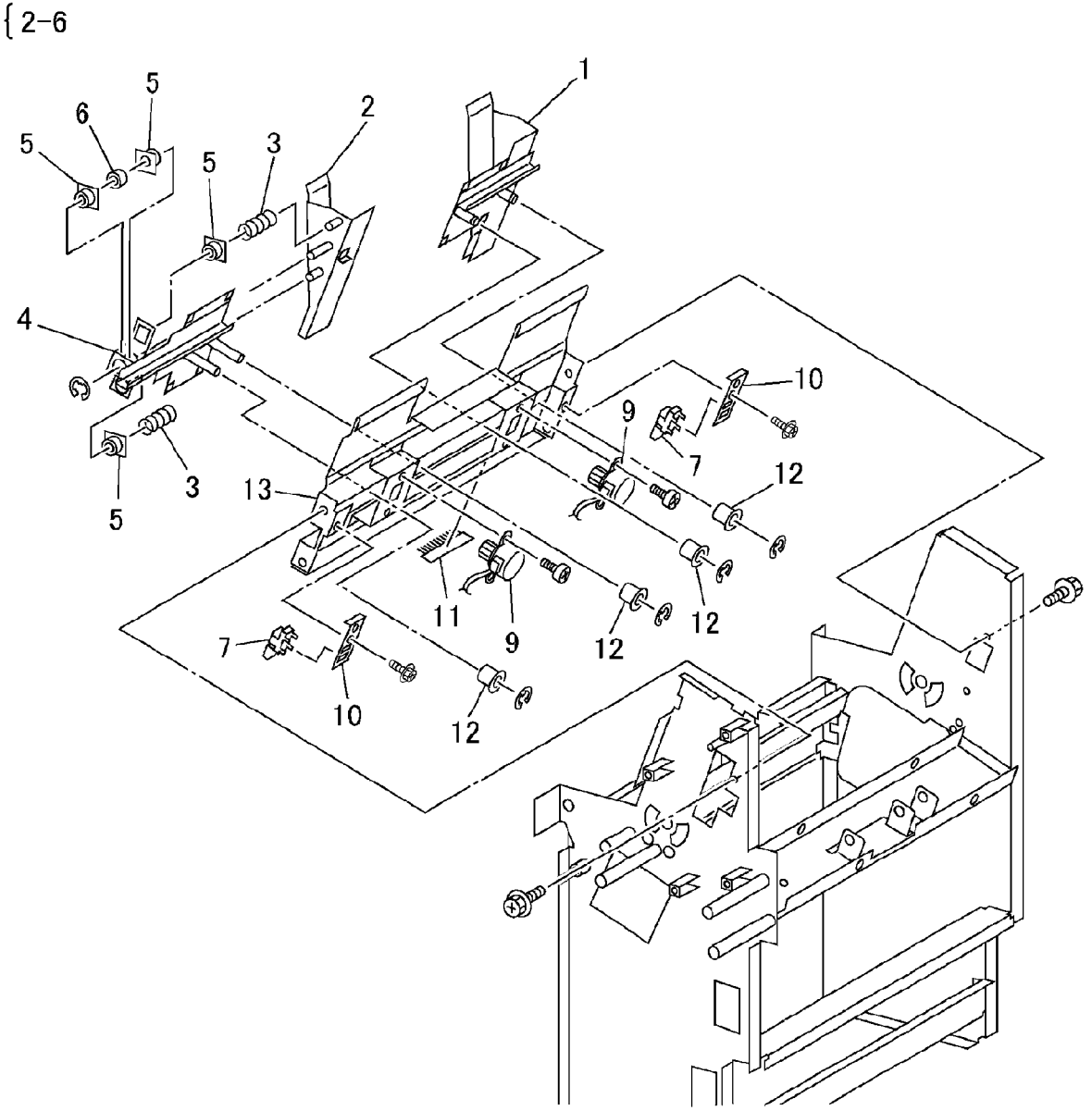
PL 21.19 Booklet Component -4

Item	Part	Description
1	604K20610	Front Tamper Guide
2	–	Rear Tamper Guide (P/O PL 21.19 Item 8)
3	–	Spring (P/O PL 21.19 Item 8)
4	–	Rack (P/O PL 21.19 Item 8)
5	–	Bearing (P/O PL 21.19 Item 8)
6	–	Roll (P/O PL 21.19 Item 8)
7	130K88780	Booklet Tamper Home Sensor (Front and Rear)
8	038K87371	Rear Tamper Assembly
9	127K48210	Booklet Tamper Motor (Front and Rear)
10	–	Bracket (P/O PL 21.15 Item 12)
11	105E15120	Static Eliminator
12	013E25490	Roll
13	–	Frame (P/O PL 21.15 Item 12)



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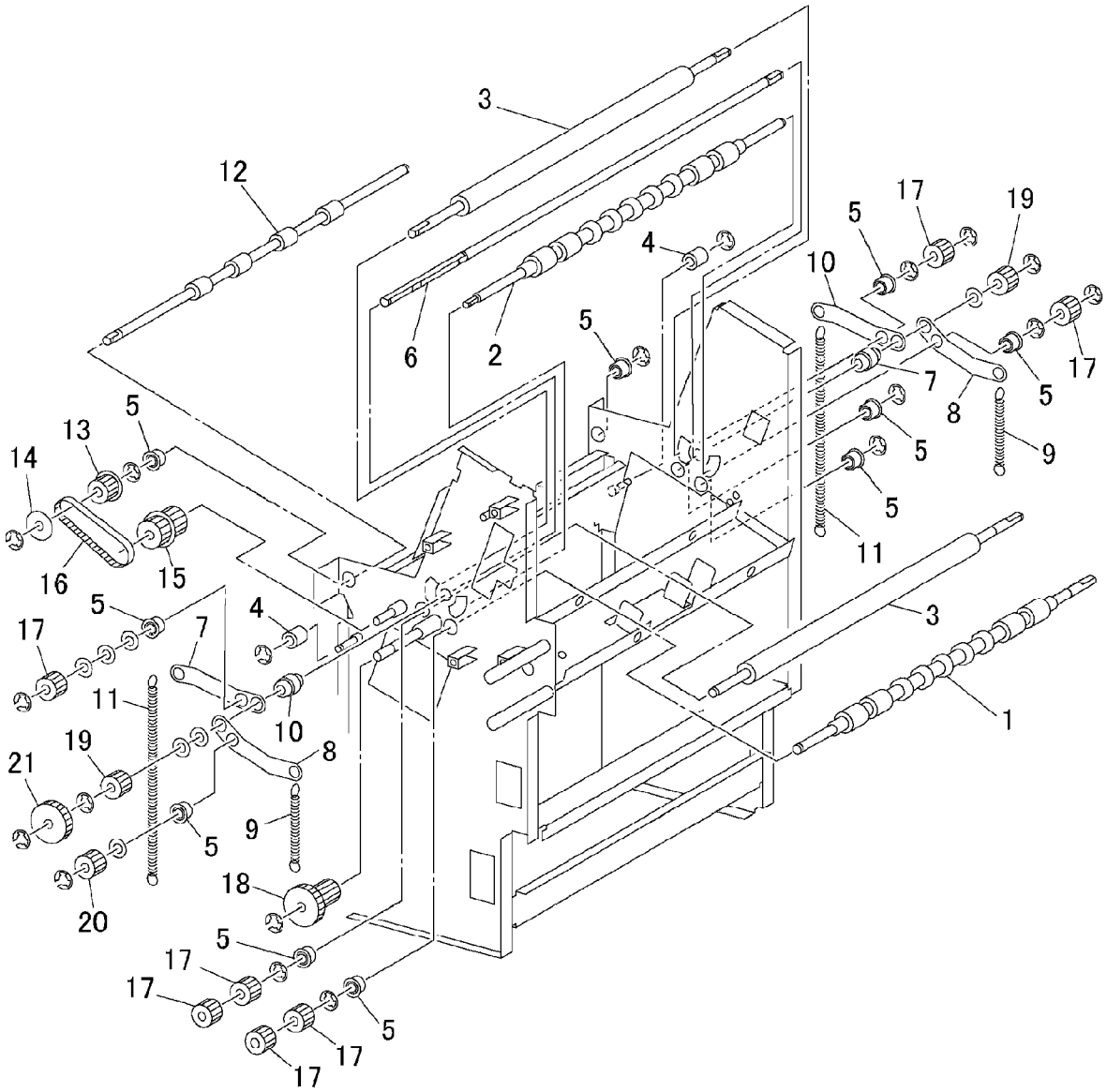
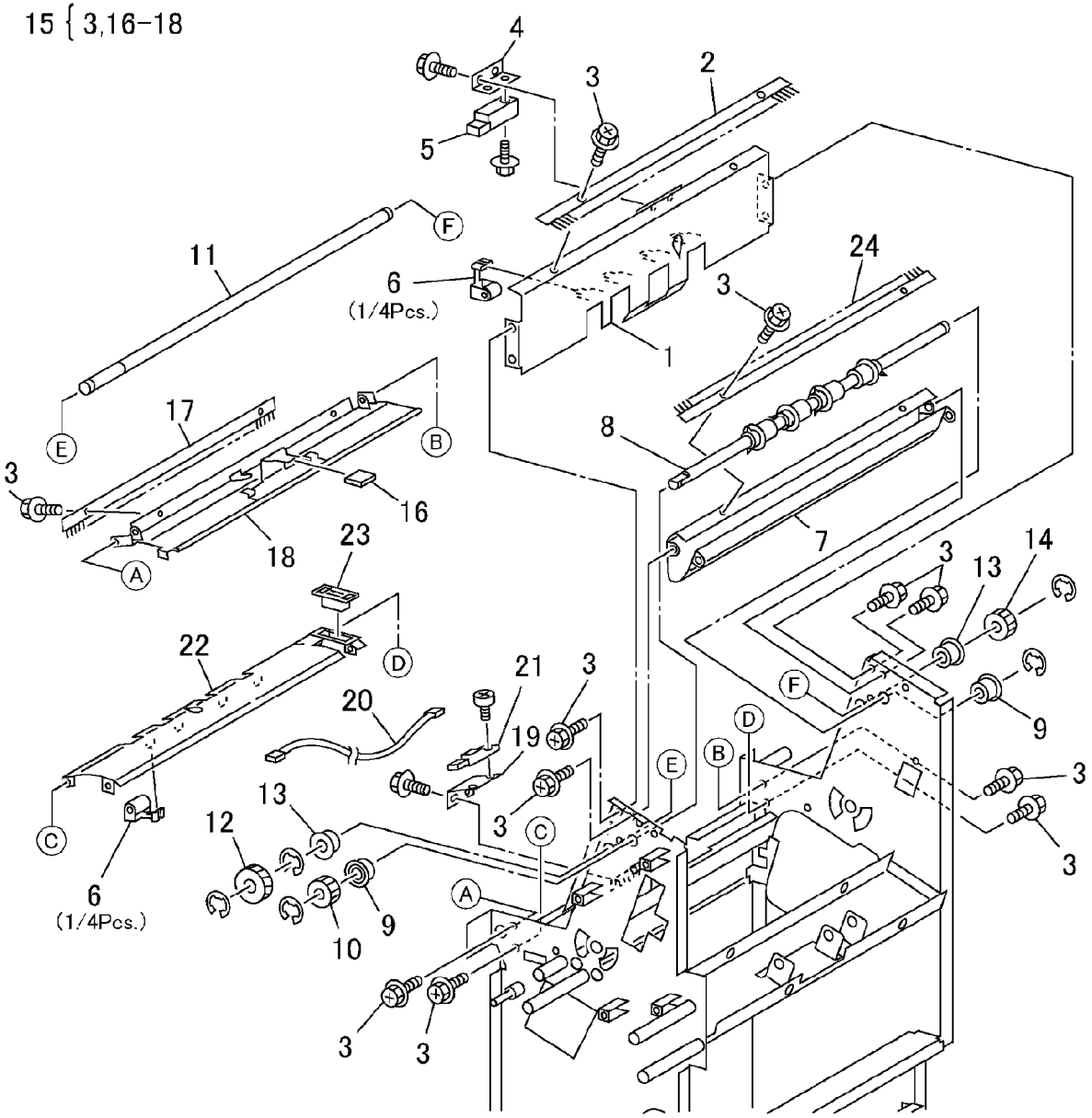
PL 21.20 Booklet Component -5

Item	Part	Description
1	022K71020	Booklet Pre-Folding Roll
2	022K71040	Booklet Pre-Folding Nip Roll
3	022K66870	Booklet Folding Roll
4	022K66880	Booklet Folding Nip Roll
5	–	Ball Bearing (P/O PL 21.15 Item 12)
6	–	Shaft (P/O PL 21.15 Item 12)
7	013E25480	Bearing
8	–	Tension Plate 1 (P/O PL 21.15 Item 12)
9	809E59991	Spring
10	–	Tension Plate 2 (P/O PL 21.15 Item 12)
11	809E59981	Spring
12	–	Booklet Eject Roll (P/O PL 21.15 Item 12)
13	–	Pulley (16T) (P/O PL 21.15 Item 12)
14	–	Flange (P/O PL 21.15 Item 12)
15	807E02040	Gear Pulley (20T/25T)
16	423W46754	Belt
17	007E89980	Gear (16T)
18	007E89990	Gear (38T/18T)
19	007E89970	Gear (18T)
20	407W07516	Gear (16T)
21	007E77770	Gear (38T)



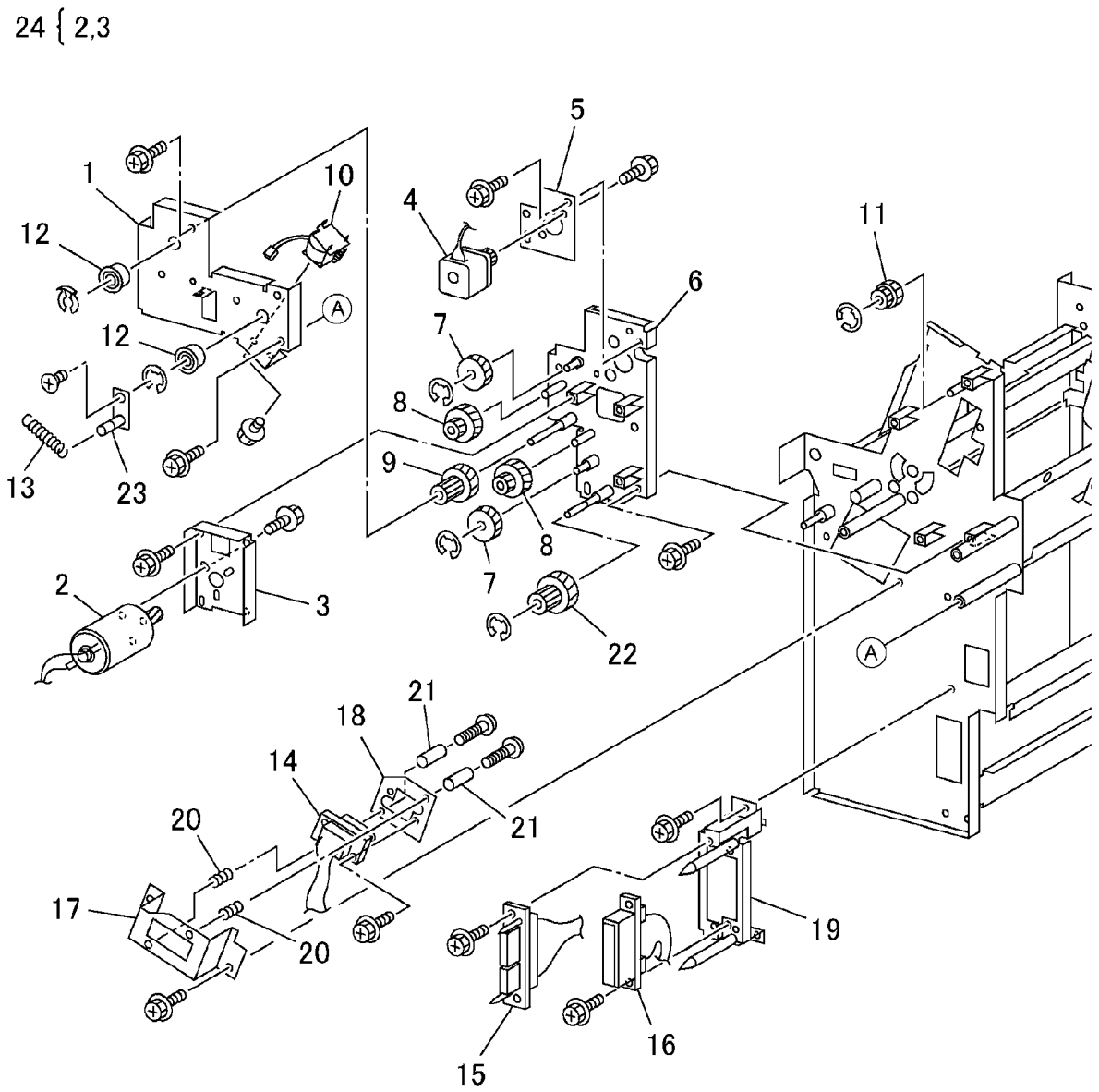
PL 21.21 Booklet Component -6 (Chute)

Item	Part	Description
1	–	Chute (P/O PL 21.15 Item 12)
2	105E12060	Static Eliminator
3	–	Screw (P/O PL 21.21 Item 15)
4	–	Bracket (P/O PL 21.15 Item 12)
5	130E87370	Booklet In Sensor
6	022K75120	Pinch Roll
7	–	Chute (P/O PL 21.15 Item 12)
8	–	Booklet In Roll (P/O PL 21.15 Item 12)
9	–	Ball Bearing (P/O PL 21.15 Item 12)
10	407W07516	Gear (16T)
11	–	Shaft (P/O PL 21.15 Item 12)
12	407W08727	Gear (27T)
13	–	Bearing (P/O PL 21.15 Item 12)
14	–	Gear (17T) (P/O PL 21.15 Item 12)
15	054K28570	Upper Exit Chute Assembly
16	003E63380	Knob
17	105E12170	Static Eliminator
18	–	Upper Exit Chute (P/O PL 21.21 Item 15)
19	–	Bracket (P/O PL 21.15 Item 12)
20	962K18411	Wire Harness
21	130E87410	Booklet Folder Roll Exit Sensor
22	–	Lower Exit Chute (P/O PL 21.15 Item 12)
23	121E92720	Magnet
24	105E12080	Static Eliminator



PL 21.22 Booklet Component -7

Item	Part	Description
1	–	Bracket (P/O PL 21.15 Item 12)
2	–	Booklet Fold Motor (P/O PL 21.22 Item 24)
3	–	Bracket (P/O PL 21.22 Item 24)
4	127K46170	Booklet Paper Path Motor
5	–	Bracket (P/O PL 21.15 Item 12)
6	–	Bracket (P/O PL 21.15 Item 12)
7	007E77620	Gear (45T)
8	007E77610	Gear (43T/14T)
9	007E77600	Gear (44T/16T)
10	121K31361	Knife Solenoid
11	807E01750	Gear (27T/34T)
12	–	Ball Bearing (P/O PL 21.15 Item 12)
13	809E41620	Spring
14	962K18421	Wire Harness
15	962K18431	Wire Harness
16	962K18441	Wire Harness
17	–	Bracket (P/O PL 21.15 Item 12)
18	–	Bracket (P/O PL 21.15 Item 12)
19	–	Bracket (P/O PL 21.15 Item 12)
20	809E41570	Spring
21	–	Spacer (P/O PL 21.15 Item 12)
22	807E02080	Gear (48T/18T)
23	–	Link (P/O PL 21.15 Item 12)
24	015K69650	Booklet Fold Motor Assembly



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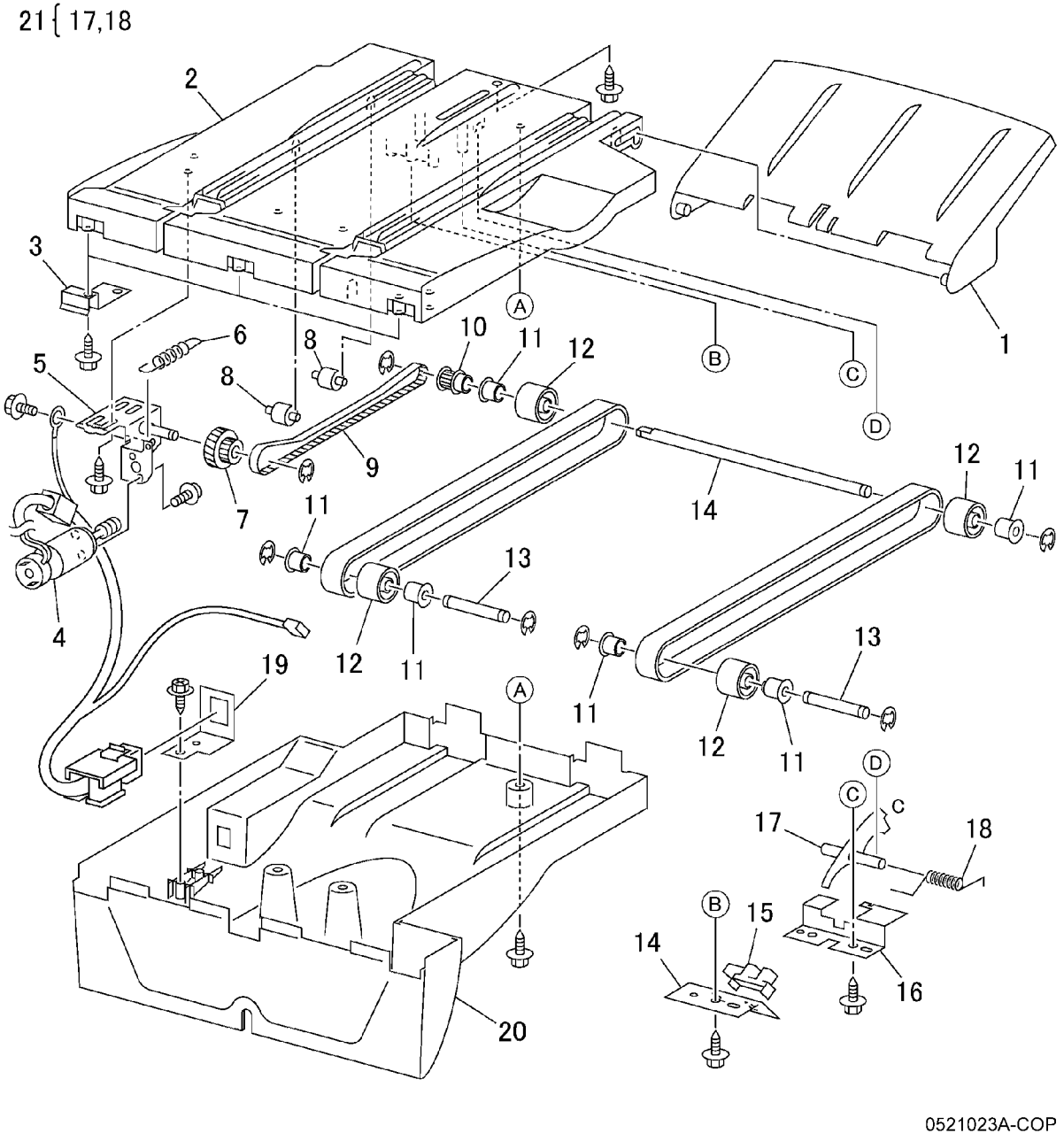
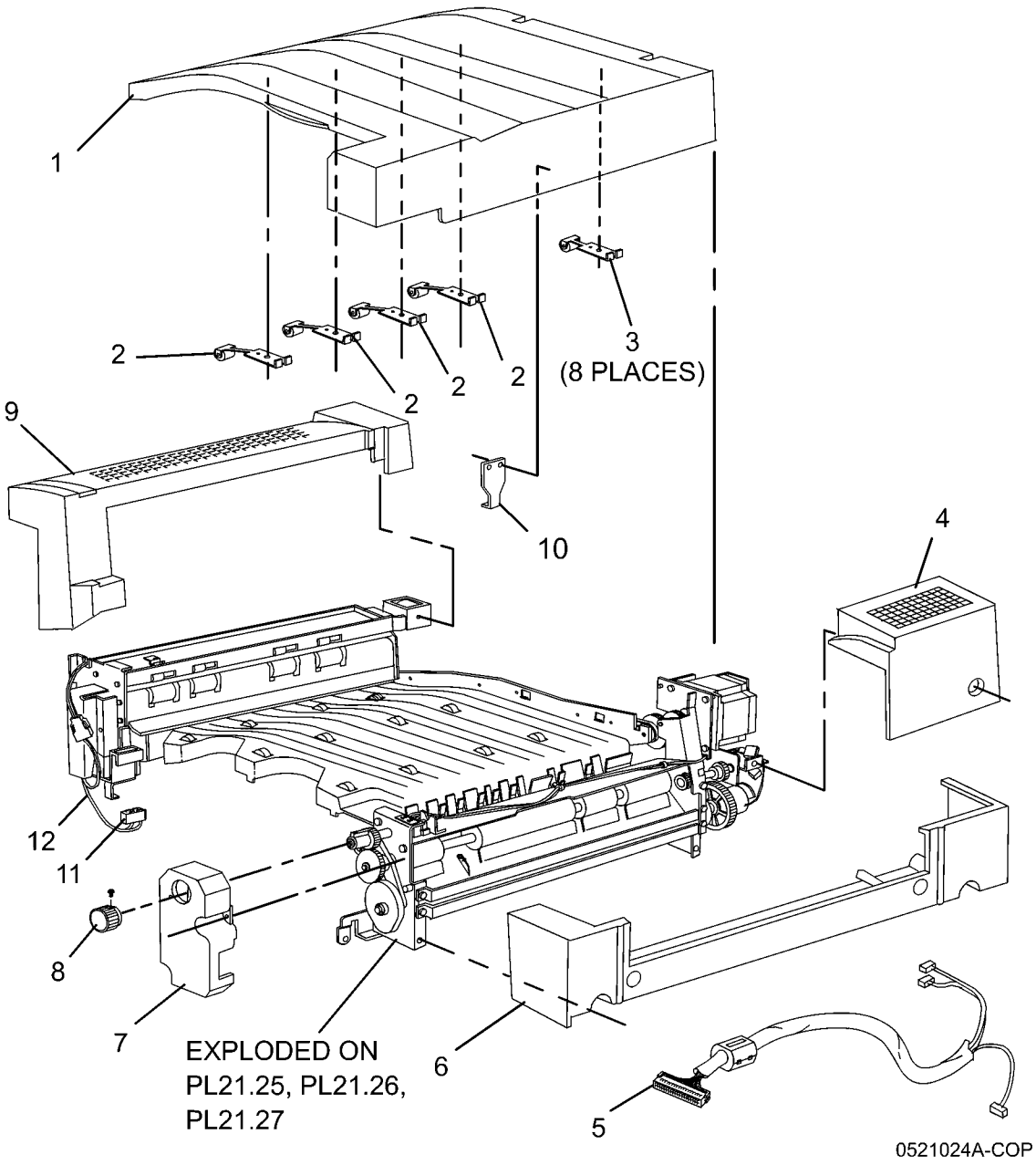
PL 21.23 Booklet Tray Component

Item	Part	Description
1	050E19901	Tray
2	–	Upper Tray (Not Spared)
3	–	Bracket (P/O PL 21.15 Item 5)
4	127K38051	Tray Belt Drive Motor
5	–	Bracket (P/O PL 21.15 Item 5)
6	–	Spring (P/O PL 21.15 Item 5)
7	–	Gear Pulley (P/O PL 21.15 Item 5)
8	–	Roll (P/O PL 21.15 Item 5)
9	–	Belt (P/O PL 21.15 Item 5)
10	–	Pulley (P/O PL 21.15 Item 5)
11	–	Bearing (P/O PL 21.15 Item 5)
12	–	Roll (P/O PL 21.15 Item 5)
13	–	Shaft (P/O PL 21.15 Item 5)
14	–	Shaft (P/O PL 21.15 Item 5)
15	130K64301	Booklet No Paper Sensor
16	–	Bracket (P/O PL 21.15 Item 5)
17	–	Actuator (P/O PL 21.23 Item 21)
18	–	Spring (P/O PL 21.23 Item 21)
19	–	Bracket (P/O PL 21.15 Item 5)
20	–	Lower Tray (P/O PL 21.15 Item 5)
21	604K13841	Actuator Assembly



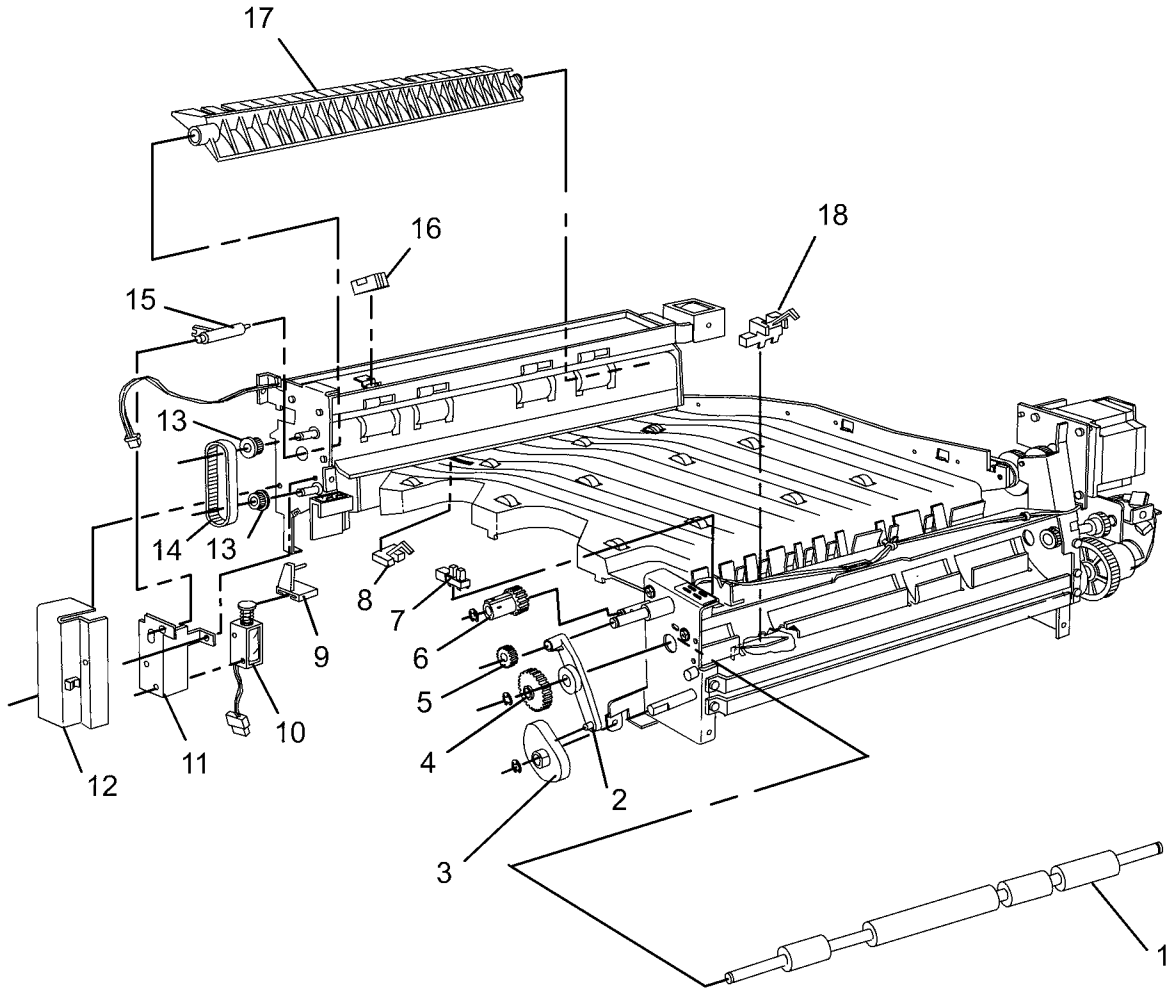
PL 21.24 H - Transport: 1 of 4

Item	Part	Description
1	–	H - Transport Center Tray (Not Spared)
2	022K71111	Pinch Spring Assembly
3	022K71121	Pinch Spring Assembly
4	–	Upper Decurler Cover (Not Spared)
5	–	Harness Assembly (Not Spared)
6	–	Decurler Cover (Not Spared)
7	–	Cover (Not Spared)
8	–	Knob (Not Spared)
9	–	Top Exit Cover (Not Spared)
10	–	Latch Bracket (Not Spared)
11	110K12282	Interlock Switch
12	113E20900	Interlock Switch Harness



PL 21.25 H - Transport: 2 of 4

Item	Part	Description
1	022K67641	Decurler Roll
2	031E94651	Decurler Arm
3	008E94070	Decurler Cam
4	007K89451	Gear (20T)
5	807E08980	Gear
6	604K25210	Knob Gear
7	130K88780	H - Transport Interlock Sensor
8	130K88291	H - Transport Entrance Sensor
9	012E12110	Guide
10	121K35291	Gate Solenoid
11	–	Solenoid Bracket (Not Spared)
12	–	Solenoid Cover (Not Spared)
13	020E37490	Pulley (18T)
14	423W26754	Exit Drive Roll Belt (67T)
15	012E12170	Gate Link
16	130E88350	Center Tray Exit Sensor
17	050E89621	Entrance Gate
18	–	H - Transport Exit Sensor



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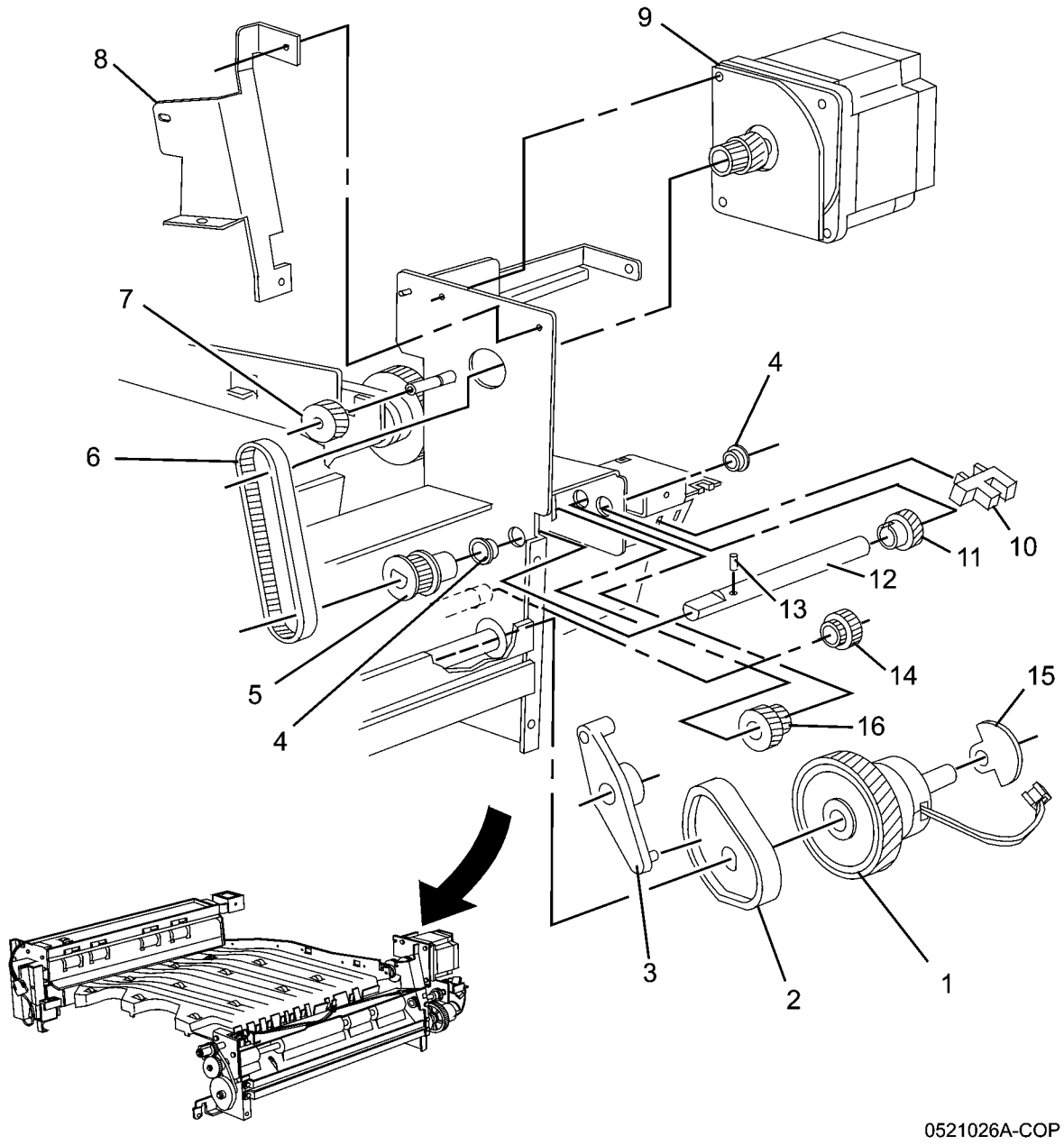
PL 21.26 H - Transport: 3 of 4

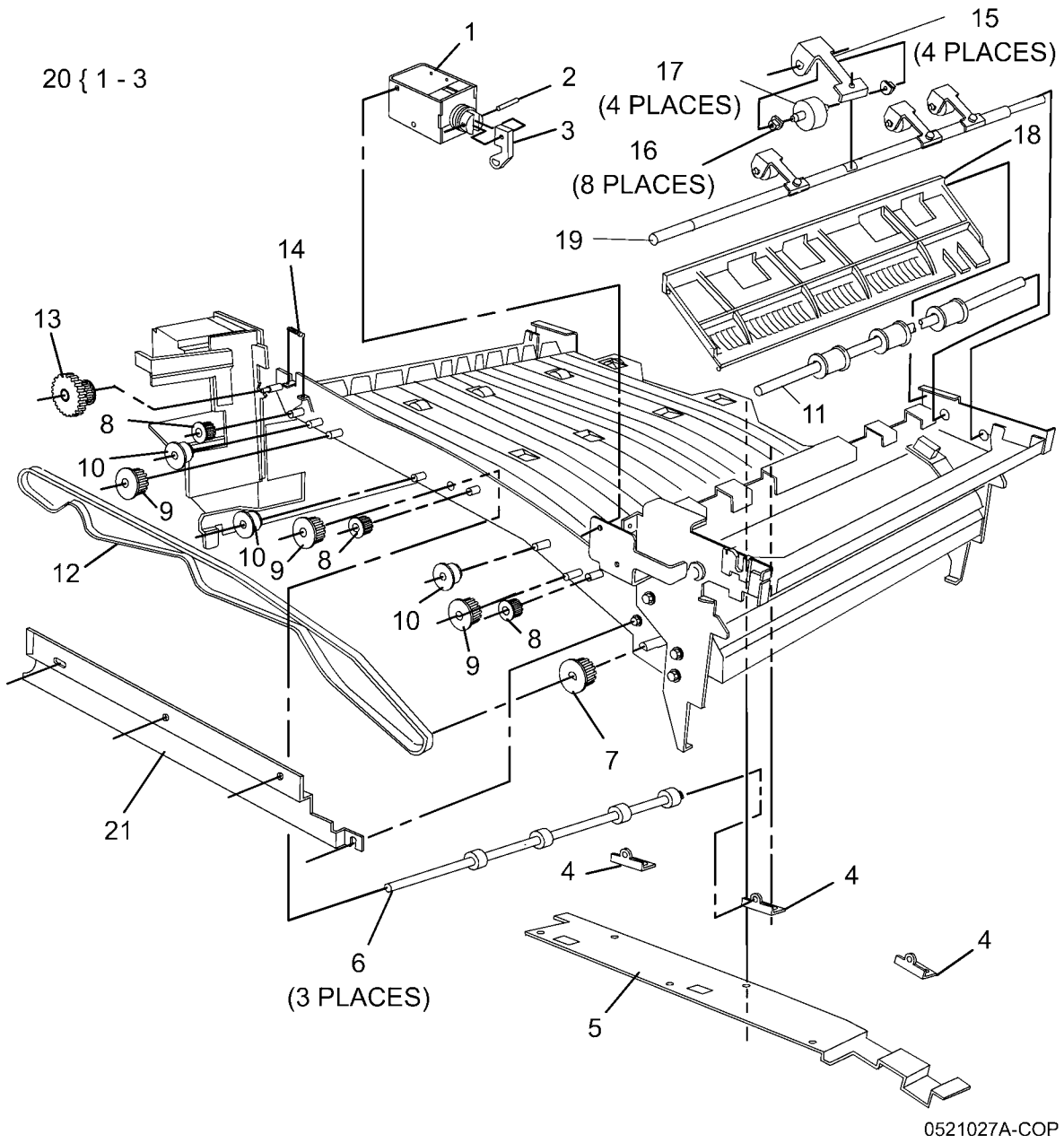
Item	Part	Description
1	121K24610	Decurler Cam Clutch
2	008E94070	Decurler Cam
3	–	Decurler Arm (Not Spared)
4	–	Bushing (Not Spared)
5	020E37480	Pulley (20T)
6	423W27854	H - Transport Motor Belt (78T)
7	807E08600	Gear (20T)
8	–	Cover (Not Spared)
9	127K40051	H - Transport Drive Motor
10	130K88780	Decurler Cam Sensor
11	807E04000	Gear (24T)
12	–	Shaft (Not Spared)
13	–	Pin (Not Spared)
14	807E04010	Gear (20T/24T)
15	120E20690	Sensor Flag
16	007K89440	One Way Gear (18T)



0521026A-COP

PL 21.27 H - Transport: 4 of 4

Item	Part	Description
1	–	Tray Nip Solenoid (P/O PL 21.27 Item 20)
2	–	Pin (P/O PL 21.27 Item 20)
3	–	Tray Nip Link (P/O PL 21.27 Item 20)
4	–	Support Bracket (Not Spared)
5	–	Bracket (Not Spared)
6	022K67631	H - Transport Drive Roll
7	020E37750	Pulley (26T)
8	020E37440	Pulley (18T)
9	020K10760	One Way Pulley
10	022E27700	Idler Roll
11	022K67653	Exit Drive Roll
12	423W88254	H - Transport Drive Belt (450T) (REP 12.66)
13	020E37460	Gear Pulley (40T/26T)
14	–	Spring (Not Spared)
15	809E56092	Pinch Roll Spring
16	013E26740	Bushing
17	022E27750	Exit Pinch Roll
18	054E26112	Upper Exit Chute
19	–	Pinch Roll Shaft (Not Spared)
20	121K35314	Tray Nip Solenoid Assembly
21	–	Bracket (Not Spared)



Common Hardware

Item	Part	Description
A	112W27651	Screw (M3x6)
B	112W27659	Screw (M3x6)
C	112W27851	Screw (M3x8)
D	112W28451	Screw (M3x14)
E	113W20457	Screw (M3x4)
F	113W20651	Screw (M3x6)
G	113W20857	Screw (M3x8)
H	113W21057	Screw (M3x10)
J	113W21657	Screw (M3x16)
K	113W27451	Screw (M3x4)
L	113W27551	Screw (M3x5)
M	113W27651	Screw (M3x6)
N	113W27851	Screw (M3x8)
P	113W28051	Screw (M3x10)
Q	113W28851	Screw (M3x20)
R	153W17655	Thread-forming Screw (M3x6)
S	153W17855	Thread-forming Screw (M3x8)
T	153W18055	Thread-forming Screw (M3x10)
U	153W27855	Thread-forming Screw (M3x8)
V	158W27655	Screw (M3x6)
W	158W27663	Screw (M3x6)
X	158W27855	Screw (M3x8)
Y	158W27863	Screw (M3x8)
Z	158W28255	Screw (M3x12)
AA	158W35855	Screw (M4x8)
AB	220W21250	Flange Nut (M3)
AC	251W24251	Washer (4)
AD	251W24450	Washer (4)
AE	252W24250	Nylon Washer (4)
AF	252W26450	Nylon Washer (5)
AG	252W27350	Nylon Washer (6)
AH	252W27450	Nylon Washer (6)
AJ	252W29450	Nylon Washer (8)
AK	271W16050	Dowel Pin (2x10)
AL	271W28250	Dowel Pin (3x12)
AM	271W28650	Dowel Pin (3x16)
AN	271W28950	Dowel Pin (3x22)
AP	271W36850	Dowel Pin (4x20)
AQ	285W15651	Spring Pin (2x6)
AR	285W15851	Spring Pin (2x8)
AS	285W16251	Spring Pin (2x12)
AT	285W28051	Spring Pin (3x10)
AU	285W28251	Spring Pin (3x12)
AV	285W28651	Spring Pin (3x16)
AW	354W15251	E-Clip (2)
AX	354W19251	E-Clip (2.5)
AY	354W21251	E-Clip (3)
AZ	354W21254	K-Clip (3)
BA	354W24251	E-Clip (4)
BB	354W24254	K-Clip (4)
BC	354W26251	E-Clip (5)
BD	354W27251	E-Clip (6)
BE	354W27254	K-Clip (6)
BF	354W29251	E-Clip (8)
BG	113W20657	Screw (M3x6)
BH	113W16051	Screw (M2x10)
BJ	158W45055	Screw (M5x10)
BK	158W36355	Screw (M4x12)
BL	251W24451	Washer (4)
BM	113W20557	Screw (M3x5)
BN	113W15851	Screw (M2x8)
BP	113W28056	Screw (M3x10)
BQ	113W28251	Screw (M3x12)
BR	113W28256	Screw (M3x12)
BS	153W27650	Thread-forming Screw (M3x6)
BT	153W27850	Thread-forming Screw (M3x8)
BU	252W27250	Nylon Washer (6)
BV	252W29350	Nylon Washer (8)
BW	285W29151	Spring Pin (3x25)
BX	158W35655	Screw (M4x6)
BY	113W36257	Screw (M4x12)
BZ	158W35863	Thread-forming Screw - Deltite Tip (M4x8)
CA	158W36055	Screw (M4x10)
CB	153W71153	Screw (M3x8)
CC	153W71453	Screw (M3x14)
CD	153W42353	Screw (M4x12)
CE	354W27278	E-Ring

Part Number Index

The Part Number Index Table has been deleted from the EDOC.

Use SearchLite to search for Part Numbers and Part Descriptions.

6 General Procedures and Information

Change Tag Information

Entering and exiting CE mode

Certain diagnostic routines and reports are available locally (on the UI) through CE mode.

Entering

To enter the CE mode:

1. Press and hold the **0** key for 5 seconds, then while still holding down the **0** key, press the **Start** button.

   The **CE Access Number** screen will appear.
2. Enter **6789** and press **Confirm**.
3. The top most area of the UI display will be reversed to let the user know that the mode has changed to the CE mode.

NOTE: *If a system failure has occurred when the machine is turned ON but it has not been repaired, the diagnostic procedures described in this section may not operate correctly.*

Functions enabled in CE mode

Functions available in CE mode can be divided into two groups; Diagnostics and Reports

- **UI Diagnostics**: Several diagnostic routines are available (see Accessing UI Diagnostics).
- **Printable Reports**: Several machine history reports can be printed in CE mode, one for example is the HFSI Report, select the link below. These reports are in addition to the reports normally available in System Admin mode (see Printing CSE Reports).

Exiting

There are three ways to exit from CE mode:

- Switch the power Off then On (If actions performed in CE mode cause the machine to restart upon exiting, the machine will come back up in normal user mode).
- Press and hold the **0** key then press the **Start** button.
- Select **Abort the Operation and Exit** on the **Maintenance/Diagnostics** screen.

Accessing UI Diagnostics

The procedure for entering UI Diagnostics differs, depending on whether the machine is a 72XX-series, or a 73XX series.

Procedure (72xx machines)

1. Enter the CE mode (Entering and exiting CE mode).
2. Press the **Log in/Out** button on the control panel. The **System Settings** screen appears.
3. Select **System Settings** on the UI screen.
4. Select **Common Settings**
5. Select **Maintenance / Diagnostics**.

Procedure (73xx machines)

1. Enter the CE mode (Entering and exiting CE mode).

NOTE: *If a fault code requiring serial number resychronization (124-3xx) is active, the following steps will not work. Press the Log In/Out button on the UI to access diagnostics in this situation.*

2. Press the **Machine Status** button on the control panel.
3. Select the **Tools** tab on the UI screen.
4. Select **System Settings**.
5. In the **Group** column, select **Common Service Settings**
6. In the Features column, scroll down to **Maintenance / Diagnostics**.

Maintenance/Diagnostics menus

The following selections will appear:

- Initialize Hard Disk
- Delete All Data
- Software Options
- Initialize NVM
- NVM Read/Write
- Print Test Patterns
- IO Check - this selection opens the following menu:
  - Component Control
  - Analog Monitor
- Registration - this selection opens the following menu:
  - Regi Control Setup Cycle - this selection opens the following menu:
    - Regi Control Setup Cycle - Fine Skew Setup
    - Regi Control Setup Cycle - IN / OUT Setup
    - Regi Control Setup Cycle - Center Setup
    - Rough Skew Setup
  - Regi Measuring Cycle
  - Regi Control Sensor Check Cycle
  - Regi Control Correction Check Cycle
- MAX Setup - this selection opens the following menu:
  - IIT Calibrations - this selection opens the following menu:

        White Reference Setup
        CCD Calibration
        Optical Axis Correction
    - ATC Sensor Setup
    - TRC Adjustment
    - Adjust Toner Density - this selection opens the following menu:
        TRC Control
        Adjust Toner Density
    - ADC AGC Setup
        Measured ADC
        Change ADC Target Value
- Sub System - this selection opens the following menu:
    - Belt Edge Learn
    - Fax Diagnostics
    - Blank Page Threshold Value
    - ADF Independent Operations
    - Hard Disk Failure Prediction Test
- Faults - this selection opens the following menu:
    - Jam Counters
    - Failure Counters
    - Shutdown History
- Adjustments / Others - this selection opens the following menu:
    - Machine ID / Billing Data
    - Initialize HFSI Counters

Initialize Hard Disk

Purpose

This routine initializes Partition A of the HDD. Partition A contains the following data: added fonts, forms for ART EX, ART IV (optional), PC-PR201H, ESC/P, and HP-GL/2 (optional), ART IV User Defined Data, and SMB folder.

Initialization Procedure

1. Enter UI Diagnostic mode (Accessing UI Diagnostics). Select **Initialize Hard Disk**. The **Partition A** selection appears.
2. Select **Partition A** then select **Start**.
3. A confirmation message appears. Select **Yes**.
4. A message indicating the completion appears. Select **Confirm**.

This completes the initialization of Partition A.

Delete All Data

Purpose

This procedure deletes user-defined/registered information and information recorded automatically by the system from the hard disk, the Controller (ESS) NVM PWB and Buffer RAM.

CAUTION

This procedure also Initializes Sys System, IOT NVM, and IIT NVM resulting in loss of the factory setups for System Registration, Image Quality and the Scanner setups.

Procedure

1. Enter UI Diagnostic mode (Accessing UI Diagnostics).
2. Select **Delete All Data**.
3. Select **Start**.
4. A confirmation message appears. Select **Yes**.
5. The **Deleting data.** message appears.
6. When the message indicating the completion appears, exit UI Diagnostic mode, Switch off the power, then switch on the power.

Software Options

Certain optional features must be enabled in software by entering a password (supplied by sales).

Procedure

1. Enter UI Diagnostics (Accessing UI Diagnostics)
2. Select **Software Options** on the **Maintenance/Diagnostics** screen.
3. Select **Keyboard**.
4. Enter the password of the software option on the keyboard displayed on the UI.
5. Select **Save**.
6. Select **Reboot**.

Initialize NVM

Procedure

1. Enter UI Diagnostic mode (Accessing UI Diagnostics). Select **Initialize NVM**. Selections for the following 7 subsystems appear:
   - IOT
   - OUTPUT (Finisher)
   - IISS (IIT/IPS)
   - IISS-Extension
   - Input Device
   - Sys-SYSTEM
   - Sys-USER
   - Fault Counter

   The Table 1 displays the areas that are initialized for each section.

Table 1 NVM Initialization

Name	Description
IOT	The following NVM locations will be initialized: • Chain 740 - links 020 through 419 • Chain 741 - All • Chain 742 - links 055 through 079 • Chain 744 - All • Chain 746 - All • Chain 751 - All except links 168 and 364 • Chain 752 • Chain 753 - All • Chain 760 - All • Chain 762 - All • Chain 764 - All
IIT/IPS	The following NVM locations will be initialized: • Chain 710 • Chain 715 - links 001 through 017

Table 1 NVM Initialization

Name	Description
SYS-System	The following NVM locations will be initialized: • Chain 700 - links 006, 065 through 070, 088, 116, 122, 127, 128, 147, 164 through 166, 174, 176 through 181, 197, 208 • Chain 701 - links 912, 917, 924, 929 • Chain 720 -link 002 • Chain 730 - links 00 through 006 • Chain 770 - links 124, 203 • Chain 780 - links 065 through 068 • Chain 785 - links 008, 009 • Chain 790 - links 003, 004, 099 • Chain 801 - links 104, 204, 304, 404, 504, 604, 704, 804, 904 • Chain 802 - links 004, 104, 204, 304, 404, 504, 604, 704, 804, 904 • Chain 803 - link 004 • Chain 810 - links 002 through 019, 038 through 127 • Chain 820 - links 003, 007 through 009, 017 through 019, 024, 026, 027, 029 • Chain 823 - links 001 through 005, 008 through 011, 030 through 047 • Chain 830 - links 001 through 004, 084, 085 • Chain 850 - links 001 through 004, 007, 009 through 012, 015 • Chain 860 - links 009, 013, 020, 025, 031, 032
SYS-User	All user settable NVM locations in the following chains will be reset: Chains 700, 780, 785, 790, 800, 801, 802, 803, 804, 805, 806, 810, 820, 823, 830, 840

2. Select the subsystem to be initialized and select **Start**.

CAUTION

All NVM for the selected subsystem will be reset to the default values. Any machine-specific, region-specific, or customer-specific information will need to be re-entered. Make sure that this information is available before proceeding.

3. A confirmation message appears. Select **Yes**.
4. A message indicating completion will appear.
5. Select the **Confirm** button.

This completes the initialization. Remember to re-enter any machine-specific NVM data.

Print Test Patterns

Purpose

This routine outputs test patterns from the built-in Pattern Generator.

NOTE: *Error message is displayed if print cannot be made with the specified tray. Make sure that there is sufficient paper in the trays before starting the routine. If a jam or system fault occurs, the process stops but a recovery message is not displayed. The fault code is displayed but it is not recorded in History*

Procedure

1. Enter UI Diagnostics (Accessing UI Diagnostics), then select **NVM Read/Write**. Make the NVM changes listed in Table 1 for the pattern you wish to print.

NOTE: *To switch from a test pattern requiring one set of NVM values to a test pattern requiring a different set of values, you must exit UI Diagnostic mode and allow the machine to reboot before entering the new NVM values (Exiting the CE mode and rebooting the machine will make the NVM values reset to their respective default values.)*

2. Close the **NVM Read/Write** screen and return to the Diagnostics screen. Select **Test Pattern Print**.
3. Enter Test Pattern Number (3 digits).
4. Select the paper tray, color, and density (where applicable).
5. Press the **Start** button. Figure 1 shows the test pattern signal path.

Table 1 Test Patterns

No.	Description	NVM Change to print pattern	Location
1	ROS Check, for ROS coverage check	870-203 =1 870-207 = 6	IOT
2	Halftone 4 Color, for development check	870-203 =1 870-207 = 6	IOT
3	Grid 1dot, for straight image and color reg check ***NOTE:*** *Depending on s/w level, selection selecting Black (B/W mode) may produce an error. If this occurs, select Black (FCmode)*	870-203 =1 870-207 = 6	IOT
4	Fast scan 8 steps, 8 half tone levels check, ASIC test	870-203 = 1 870-207 = 6	IOT
5	A1 Patch, for DC681, DC684, DC685 IIT Incremental Gradation	870-203 = 0 870-207 = 5	Controller
6	A2 Patch, for DC685 IIT SS Incremental Gradation	870-203 = 0 870-207 = 5	Controller
7	B1 Patch, for DC685 Shading Data output	870-203 = 0 870-207 = 5	Controller
8	B2 Patch, for DC685 COSAC Count Mode, YMCK vertical stripe	870-203 = 0 870-207 = 5	Controller
9	COSAC Count Mode, 8 Tone Patch, for defect highlight	870-203 = 0 870-207 = 5	Controller

Table 1 Test Patterns

No.	Description	NVM Change to print pattern	Location
102	PG2	870-203 = 0 870-207 = 2 870-210 = 2	IPS
108	PG2	870-203 = 0 870-207 = 2 870-210 = 2	IPS
113	PRE-IPS FS RGB	870-203 = 0 870-207 = 2 870-210 = 2	IPS
117	PRE-IPS SS RGB	870-203 = 0 870-207 = 2 870-210 = 2	IPS
122	PRE-IPS	870-203 = 0 870-207 = 2 870-210 = 2	IPS
124	PRE-IPS YMCK	870-203 = 0 870-207 = 2 870-210 = 2	IPS
125	PRE-IPS 8 steps, 8 half tone levels check	870-203 = 0 870-207 = 2 870-210 = 2	IPS
126	PRE-IPS	870-203 = 0 870-207 = 2 870-210 = 2	IPS
127	POST-IPS 4 COLOR	870-203 = 0 870-207 = 2 870-210 = 2	IPS
128	POST-IPS B&W	870-203 = 0 870-207 = 2 870-210 = 2	IPS
129	POST-IPS Fast Scan Resolution	870-203 = 0 870-207 = 2 870-210 = 2	IPS
130	POST-IPS Fast Scan Resolution	870-203 = 0 870-207 = 2 870-210 = 2	IPS
131	POST-IPS 2 B&W IPS - Controller B&W Check	870-203 = 0 870-207 = 2 870-210 = 2	IPS
132	POST-IPS 2 4 COLOR - Controller B&W Check	870-203 = 0 870-207 = 2 870-210 = 2	IPS
161	SCAN - TBD	870-203 = 0 870-207 = 2 870-210 = 2	IPS

Table 1 Test Patterns

No.	Description	NVM Change to print pattern	Location
162	Tag 2 Copy -1 IOT Check, copies what's on platen	870-203 = 0 870-207 = 2 870-210 = 2	IPS
163	Tag 2 Copy - 2 IOT Check, copies what's on platen	870-203 = 0 870-207 = 2 870-210 = 2	IPS
164	No information available	870-203 = 0 870-207 = 2 870-210 = 2	IPS
165	No information available	870-203 = 0 870-207 = 8 870-210 = 2	IPS
166	No information available	870-203 = 0 870-207 = 8 870-210 = 2	IPS

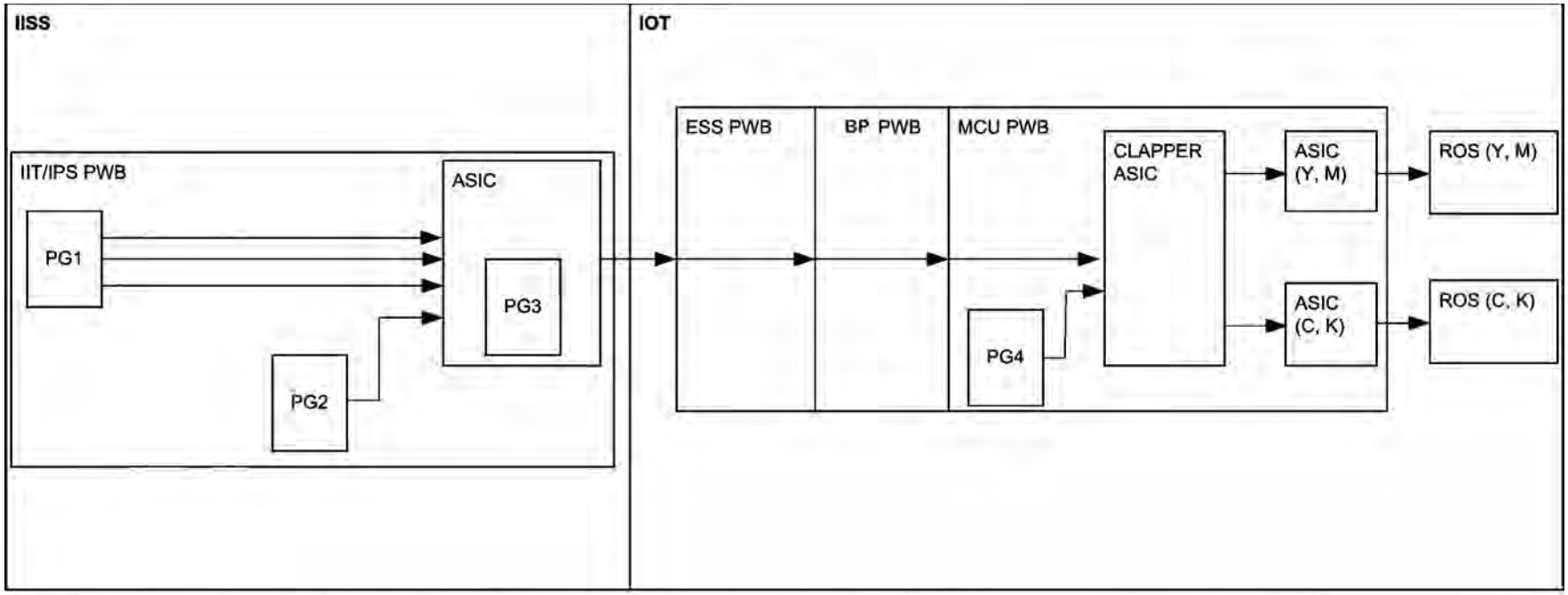


Figure 1 Test Pattern Signal Flow

Analog Monitor

Purpose

Monitors the analog values of the A/D converter sensors by driving each component (e.g.;, C.C). Temporary change of output values is possible. Output component check is also possible. Table 1 shows the components that can be checked in Analog Monitor.

Procedure

1. Enter the **CE Diagnostic Mode**. Refer to Entering and Exiting CE Mode.
2. To enter UI Diagnostics Refer to Accessing UI Diagnostics.
3. Select IO Check then **Analog Monitor** in the **Diagnostics Screen**.
4. The system displays the Analog Monitor Screen. The Analog Monitor screen contains the following areas
   a. Window to input Chain-Link number
   b. Enter Number button
   c. Show Current Status button
   d. Change Output Level button
   e. Input/Out display
   f. Enable/Disable Display
   g. Level Display
5. To run an input check
   a. Select the Enter Number button and enter the Chain-Link number using the numeric Keypad on the Control Panel.
   b. Press the Start Button on the Control Panel.
6. To run an output component check:
   a. Select the Enter Number button and enter the Chain-Link number using the numeric Keypad on the Control Panel.
   b. Press the Start Button on the Control Panel.
   c. The output component in the machine is switched on.
   d. The PWS changes the output component status to **Enable**.
   e. You can switch on an input component to monitor the output component in the machine.

      NOTE: *If the component has a runtime restriction, the component is switched on for that period and automatically switched off.*

      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.*

      NOTE: *If the component cannot be automatically turned off, the following message appears:* ***Cannot check the component. Stop another output component****.*

Checking multiple components

1. To check multiple components simultaneously, repeat Step 5a through 5e.
2. To stop the check, select **the Stop button on the ControlPanel** while the component is selected.

Changing output levels

1. You can temporarily change the output level of some output component by using the [+] or [-] to increment/decrement the output level by 1.
2. Select the component whose output level you want to change. Select [+] to increment or [-] to decrement.
3. Increment or decrement the output level by 1. The new output level is input into the system and the Analog Monitor shows the new output level in the Level column. If the output level entered is out of the range, the Information screen shows the following message:! **Invalid value. Enter again**. (A value that is out of the range is a value that is higher than the upper limit or lower than the lower limit defined by the machine.)

Table 1 Analog Monitor

Chain-Link	Component	Input / Output	Description / Comments
004-014	IBT 5 volts On	Output	Turn this on to enable 004-100 (Transfer Belt Edge Sensor)
004-100	Transfer Belt Edge Sensor	Input	004-014 (IBT 5V) must be turned on to enable this sensor. Measures the position of the Transfer Belt. Range is 0 (move toward rear) to 1023 (Move toward front) 512 - Belt is centered
007-100	MSI Size Sensor	Input	No additional information
007-101	Option detect	Input	No additional information
009-051	1st BTR HV	Output	Show the output level of the second transfer voltage settings in NVM 746-012. Cannot run 004-014, 009-052, 009-076, 009-077 or 009-080 at the same time.
009-052	2nd BTR HV	Output	Show the output level of the second transfer voltage settings in NVM 746-044 and 746-055. Cannot run 004-014, 009-051, 009-076, 009-077 or 009-080 at the same time.
009-076	ADC Shutter Open / Regular Reflectance LED On	Output	Start button= Open Shutter LED_ON Stop button= Close Shutter LED OFF Cannot run 009-026,009-051, 009-052, or 009-077 at the same time.
009-077	ADC Shutter Open / Diffusion LED On	Output	Start = Open Shutter LED_ON Stop = Close Shutter LED OFF Cannot run 009-026,009-051, 009-052, or 009-076 at the same time.
009-080	ATC _5V_On	Output	Cannot run 009-026,009-051, 009-052, at the same time.

Table 1 Analog Monitor

Chain-Link	Component	Input / Output	Description / Comments
009-100	ATC SNR #1	Input	Shows the value of the ATC sensor #1 (Yellow)
009-101	ATC SNR #2	Input	Shows the value of the ATC sensor #2 (Magenta)
009-102	ATC SNR #3	Input	Shows the value of the ATC sensor #3 (Cyan)
009-103	ATC SNR #4	Input	Shows the value of the ATC sensor #4 (Black)
009-200	1st BTR #1 Monitor	Input	Monitors the analog values detected by the sensor that performs the analog to digital conversion.
009-201	1st BTR #2 Monitor	Input	Monitors the analog values detected by the sensor that performs the analog to digital conversion.
009-202	1st BTR #3 Monitor	Input	Monitors the analog values detected by the sensor that performs the analog to digital conversion.
009-203	1st BTR #4 Monitor	Input	Monitors the analog values detected by the sensor that performs the analog to digital conversion.
009-204	2nd BTR Monitor	Input	Monitors the analog values detected by the sensor that performs the analog to digital conversion.
009-250	ADC Sensor	Input	Monitors the reflectance of the surface of the belt with the ADC sensor.
009-256	Temp Sensor	Input	Monitors the temperature sensor at certain intervals.
009-257	Humidity Sensor	Input	Monitors the humidity sensor at certain intervals.
010-100	STS Front Fuser Temperature	Input	Displays the average temperature.
010-101	STS Rear Fuser Temperature	Input	Displays the average temperature.

MAX Setup

MAX Setup (ADJ 9.1) consists of a group of related Image Quality and Process Control adjustments.

Some routines must be performed in a specific sequence; go to the referenced **ADJ** for comprehensive instructions.

The MAX Setup menu contains the following items:

- IIT Calibration (see ADJ 9.7)
  - White Reference Adjustment
  - CCD Calibration
  - Optical Axis Correction
- ATC Sensor Setup (see ADJ 9.2)
- TRC Adjustment (see ADJ 9.5)
- Tone Up/Down (see ADJ 9.3)
  - TRC Control
  - Adjust Toner Density
- ADC AGC Setup (see ADJ 9.4)
  - Measured ADC
  - Change ADC Target Value

Machine ID/Billing Data Settings

Purpose

The serial no., product no., and billing count are stored at three locations; the MCU NVM PWB (IOT), the SEEP ROM (SYS1) on the Backplane (BP) PWB, and the ESS NVM PWB (SYS2). This procedure allows the data in all three locations to be synchronized in case of replacement of one of the PWBs, or due to data corruption associated with one of the following faults:

- 124-324 (3 Billing Counter Mismatch)
- 124-325 (1 Billing Counter Mismatch; Unable to recover Billing Counter during recovery)
- 124-312 (Product No. Mismatch)
- 124-313 (Serial No. Mismatch)
- 124-310 (Product No. Failure: Not initialized)
- 124-311 (Serial No. Failure: Not initialized)

Procedure

1. Enter UI Diagnostic mode (Accessing UI Diagnostics).
2. Select **Adjustment/Others**.
3. Select **Machine ID/Billing Data Settings**.
4. Select a PWB with the correct data.
5. Select **Start**.
6. Enter the correct serial number in the **Serial Number** screen and then select **Confirm**.

Initialize HFSI Counter

Purpose

This routine sets the counter for a specific High Frequency Service item to 0.

Procedure

1. Enter UI Diagnostic mode (Accessing UI Diagnostics).
2. Select **Adjustment/Others**.
3. Select **Initialize HFSI Counter**.
4. Enter the Chain-Link No. for HFSI Counter (6 digits), using the keypad on the Control Panel (see Detailed Maintenance Activities for a listing of HFSI items and counter numbers).
5. Select **Reset Current Value**.

Printing CSE Reports

Reports Menu

To access the menu of printable reports:

1. Enter the CE mode (Entering and exiting CE mode).
2. Press the **Machine Status** button on the Control Panel.
3. The **Machine Status** screen appears.
4. Select the **Billing Meter/Print Report** tab.
5. Select **Print Report/List**.
6. Select **CE**. The following report selections will be displayed:
   - Debug Log Report
   - HFSI Counter Report
   - Jam Counter Report
   - Shutdown History Report
   - Failure Counter Report
7. Select the required report and press **Start**. The report will be printed.

Debug Report

This report prints out debug messages with the time when the data was stored. The output format is as follows: YYYY/MM/DD HH:MM:SS “xxxxx” (Recorded message)

HFSI Counter Report

The HFSI information stored in the IOT will be displayed. Table 1 shows the format.

Table 1 HFSI Counter Report

Chain-Link	Current	Replacement	Average per Month	Job History (P1)	Job History (P2)	Job History (P3)
xxx-xxx 6-digit Display	current count in location	count when replacement due	average monthly (30 days) usage	Count at most recent replacement Reason code: U=UM, S= SM O= Other	Count at 2 replacements ago Reason code: U=UM, S= SM O= Other	Count at 3 replacements ago Reason code: U=UM, S= SM O= Other

Jam Counter Report

The Jam Counter report displays a pre programmed list of jam faults, and the number of occurrences since that last time the counter was cleared.

Shutdown History Report

The Shutdown History report displays the 50 most recent shutdowns in three categories: System Faults, Paper Jams, and Document Jams. The date of occurrence, and the copy count when the fault occurred, are listed.

Fail Counter Report

The Fail Counter report displays a pre programmed list of non-jam faults, and the number of occurrences since that last time the counter was cleared.

NVM Read/Write

Purpose

Reads, sets or changes the NVM data.

Procedure

1. Access Diagnostic Routines (Accessing UI Diagnostics).
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	730, 731, 732, 733 734, 740
Drive	IOT	741
NOHAD	IOT	743
PH	IOT	740, 742, 760
EXIT	IOT	742, 764
Tray	IOT	742
Fuser	IOT	744
Transfer	IOT	746, 747
ROS	IOT	749
Process Control	IOT	751, 752, 753
Xero	IOT	751
CRU	IOT	755
RegiCon	IOT	760
Developer	IOT	762
C Finisher	IOT	763
Finisher	IOT	764
Job Setting	IOT	702
Meter Counter	IOT	720
DADF	IIT	711
IISS (DADF)	IIT	710
IISS	IIT	715
IISS (Config)	IIT	719

Table 1 Component VS Chain number

Component Item	IOT/IIT/Controller	Chain Number Allocation
Common	Controller	700
Meter Counter	Controller	700
Image Quality Settings	Controller	701
Stored Data	Controller	731, 732, 733, 734
I/O Port Protocol	Controller	770
IOT	Controller	780
IIT/Fax Settings	Controller	785
UI	Controller	790
Print Service	Controller	800, 803, 806, 809
Copy Service	Controller	810
Fax Service	Controller	820, 823, 825
iFax Service	Controller	830
Scan Service	Controller	840
EP-SV Service	Controller	850
EP-DX Service	Controller	860
Diagnostics	Controller	870, 900
Job Flow Service	Controller	880
Media Print	Controller	910

Table 1 Chain 700

Chain-Link	Name	Default	Range	Description
700-061	Fax Card Available	-	-2~0	Read only 0: Normal, -1: Error, -2: Not implemented
700-064	Fax Card Available for Ch0	0: Not imple-mented	0~1	0: Not implemented 1: Implemented (Implemented in Host. FAX Card: Automatic detection only)
700-071	USB user buffer size	64	1~1024	1 NVM step = 1 KB 32 KB increments
700-073	Page memory size	-1	-1	Read only Sets automatically in bytes
700-075	ART user buffer size	32	32~2048	1 NVM step = 1 KB 32 KB increments
700-076	PostScript buffer size	24576	8192~98304	1 NVM step = 0.25 MB
700-078	Form buffer size	128	128~2048	1 NVM step = 1 KB
700-080	HPGL _ Auto layout buffer size	64	64~5120	1 NVM step = 1 KB 32 KB increments
700-081	Parallel (IEEE 1284) buffer size	64	64~1024	1 NVM step = 1 KB 32 KB increments
700-082	Port 9100 buffer size	256	64~1024	1 NVM step = 1 KB 32 KB increments
700-083	Lpd buffer size	1024	1024~2048	1 NVM step = 1 KB 32 KB increments
700-084	NetWare buffer size	256	64~1024	1 NVM step = 1 KB 32 KB increments
700-085	Apple Talk buffer size	1024	1024~2048	1 NVM step = 1 KB 32 KB increments
700-086	SMB buffer size	256	64~1024	1 NVM step = 1 KB 32 KB increments
700-087	IPP buffer size	256	64~1024	1 NVM step = 1 KB 32 KB increments
700-089	HDD status	0	-2~0	0 = Available -1 = Failed -2 = Not available Read only - automatic detection
700-100	Forced Warmup Function Enable	0:Setting not enabled	0~1	0:Setting not enabled 1:Setting enabled
700-109	Forced Warmup Mode	0: Invalid	0~1	0:Invalid, 1:Valid
700-110	Forced Warmup Time (Hour)	8 (hour)	0~23	0-23 (hour)
700-111	Forced Warmup Time (Min.)	0 (min.)	0~59	0-59 (min.)

Table 1 Chain 700

Chain-Link	Name	Default	Range	Description
700-119	Image Log Supported Service	0x000f	0~0x000f	Log Image service designation (Designated by Logical sum) ?0x0001: Copy ?0x0002: Print ?0x0004: FAX ?0x0008: Scan ?0x0000: None
700-120	Time Zone	+540 (FX default) +600 (AP default) -300 (XC default)	-2460~2460	Time difference from GMT is expressed in minute: Japan:540, Hawaii:-600
700-124	Auto clear and auto resume timer	240	0~900	0 = inhibit 1 NVM step = 1 second Initializes with Sys User
700-125	Job cancel timer	10	0~5940	0, 240~5940: [Disable, 4~99min](1min increments)
700-126	Operating timer	10	0~240	0 = Not start 1 NVM step = 1 second Initializes with Sys User
700-127	Job end timer	6	0~240	0 = Not start 1 NVM step = 1 second Initializes with Sys-Sys
700-128	Scanning timer	4	1~20	1 NVM step = 1 second Initializes with Sys-Sys
700-129	Low power mode timer	15	1~240	Ignored when low power mode turned off 1 NVM step = 1 minute Initializes with Sys User
700-130	Sleep mode timer	60	1~240	Ignored when sleep mode turned off 1 NVM step = 1 minute Initializes with Sys User
700-131	Sleep mode available	1	0~1	0 = Not available 1 = Enabled
700-132	Control panel operation OK tone	2	0~3	0 = Turned off 1 = Low volume 2 = Medium volume 3 = Loud volume
700-133	Control panel operation not OK tone	2	0~3	0 = Turned off 1 = Low volume 2 = Medium volume 3 = Loud volume
700-134	Copy job complete tone	2	0~3	0 = Turned off 1 = Low volume 2 = Medium volume 3 = Loud volume

Table 1 Chain 700

Chain-Link	Name	Default	Range	Description
700-135	Other than copy job complete tone	2	0~3	0 = Turned off 1 = Low volume 2 = Medium volume 3 = Loud volume
700-136	Abnormal warning tone	0	0~3	0 = Turned off 1 = Low volume 2 = Medium volume 3 = Loud volume
700-137	Job incomplete tone	2	0~3	0 = Turned off 1 = Low volume 2 = Medium volume 3 = Loud volume
700-138	Ready tone	2	0~3	0 = Turned off 1 = Low volume 2 = Medium volume 3 = Loud volume
700-139	Toner empty warning Beep	2	0~3	0 = Turned off 1 = Low volume 2 = Medium volume 3 = Loud volume
700-140	Bell Tone	2	0~3	0 = Turned off 1 = Low volume 2 = Medium volume 3 = Loud volume
700-141	Line Monitor Tone	2	0~3	0 = Turned off 1 = Low volume 2 = Medium volume 3 = Loud volume
700-142	Low power mode enable	1	0~1	0 = Not available 1 = Enabled
700-143	Job memory entry tone	2	0~3	0 = Turned off 1 = Low volume 2 = Medium volume 3 = Loud volume
700-144	Auto log print flag	0	0~1	0 = Off 1 = On
700-145	Report duplex print	0	0~1	0 = Off 1 = On
700-146	Mail box receive report	1	0~1	0 = Off 1 = On
700-147	Protocol Monitor Output Control	0	0~2	0: When requested 1: When error occurs 2: Always
700-148	Broadcast / Multi-Poll Report Output Control	1	0~1	0: Not Output 1: Output

Table 1 Chain 700

Chain-Link	Name	Default	Range	Description
700-149	Relay Broadcast Report Output Control	1	0~3	0: Not Output 1: Send to Initiation Terminal 2: Print to Local Terminal 3: Send to Initiation Terminal and Print to Local Terminal
700-150	FAX Communication Report Output Control	1	0~1	0: Not Output 1: Output
700-151	Transmission Report on Error Output Control	1	0~3	0:Not Output. 1:Output only when ended with error. 2:Output any time. 3:Output only when ended normally. (Note: Monitor Report is output only with direction from Panel. However, when Monitor Report ='Output only when ended with error', Transmission Failure Report is unconditionally output for error.)
700-152	User Abort Transmission Report Output Control	0	0~1	0: Not Output 1: Output
700-153	Out of paper alarm	2	0~3	0 = No tone 1 = Low volume 2 = Medium volume 3 = Loud volume
700-154	Notification tone prior to auto clear	0	0~3	0 = No tone 1 = Low volume 2 = Medium volume 3 = Loud volume
700-155	Base point tone	2	0~3	0 = No tone 1 = Low volume 2 = Medium volume 3 = Loud volume
700-156	JobFlow Transmission Report Control	1	0~1	0: Not Output 1: Output according to Net transfer/Fax send setting
700-158	Batch Print Blank Page Control	1	1~2	1: Print blank page 2: Cut blank page
700-159	Pay for Print Info	0x0	0~1	0x0: Only normal processing 0x1: Prioritize Mailbox storage over Private storage (Bit assignment)
700-160	Ignore Case of User ID	0	0~1	0: Distinguish 1: Not Distinguish
700-161	Use Related User ID	1	0~1	0: Use input ID 1: Use related ID
700-162	Security SNTP Server Address	NULL	-	Can be input in FQDN/IPv4/IPv6 literal format. Character string to be NULL-terminated. Limitation of character: Only ASCII characters are supported. Range/notation of usable characters conform to RFC1034

Table 1 Chain 700

Chain-Link	Name	Default	Range	Description
700-164	Language	2	1~32	Not all languages listed available 1 = Japanese 12 = Vietnamese 2 = English 13 = Taiwanese 3 = French 14 = Dutch 4 = German 15 = Danish 5 = Italian 16 = Swedish 6 = Spanish 17 = Finnish 7 = Portuguese 18 = Norwegian 8 = Russian 19 = Braz Port 9 = Chinese 20 = Bulgarian 10 = Korean 21 = Polish 11 = Thai 22 = Hungarian
700-165	Country code	Depends on factory settings	-	Set up in Tools mode (GP 17) Does not initialize
700-166	Territory	0	0~4	Read only 1 = FX 2 = XC 3 = XE 4 = AP
700-171	KO Tools Entry Password	11111	-	P model: ASCII '0' to '9' (4 digits) MF model: ASCII '0' to '9' (4 digits to 12 digits)
700-172	Forced Warmup Duration	20(Min.)	1~240	1 to 240(Min.)
700-173	Off Hook Alarm	2	0~3	0: No tone, 1: Tone volume Low, 2: Tone volume Mid, 3: Tone volume High
700-174	Transaction Report Log	0	0~2	0: Destination name>Remote terminal name>RemoteID>Tel.Number>Communication mode 1: RemoteID>Destination name>Tel. Number >Remote terminal name>Communication mode 2: Destination name>Te. Number>Remote terminal name>RemoteID>communication mode
700-175	Transaction Report Display point	0	0~1	0: Top 40 digits 1: Last 40 digits
700-176	Auto Doc Delete	0	0~2	0: Not delete automatically 1: Delete with storage duration designation 2: Delete with elapsed time designation (Delete after the lapse of time for member passageTime from when document is stored)
700-177	Auto Doc Delete-Passage Time	4	4~23	4 to 23
700-179	Accounting Accessory Relation	0	0~3	0: Operate in conjunction 1: Operate solely
700-184	IPSEC enable	0	0~1	0: Invalid 1: Valid
700-185	IPSEC authentication mode	0	0~1	0: IKE-Prior Common Key Authentication(PSK) 1: IKE-Digital Signature Authentication(PKI)
700-186	IPSEC key	NULL	0~1	Key character string (Character string with NULL Terminate. ASCII character string)
700-187	IPSEC certificate	0	0~0xFFFFFFFF	Certificate number (To set sequential certificate number used for VKCM)
700-188	IPSEC IKE-SA life	480(Min.)	5~28800	5 to 28800 (min.) (IPSC-SA life or more required)

Table 1 Chain 700

Chain-Link	Name	Default	Range	Description
700-189	IPSEC IPSC-SA life	3600(sec)	300~172800	300 to 172800 (sec.)
700-190	IPSEC DH group	0	0~1	0: Invalid 1: Valid
700-191	IPSEC PFS setting	0	0~1	0: Invalid 1: Valid
700-193	IPSEC address IPv4	NULL	0~1	IPv4 address applying Ipsec policy (Character string with NULL Terminate. Only half-size alphanumeric (0 to 9,a to f), colon (:) used for IPv4 format, hyphen used for range designation (-) can be used)
700-195	IPSEC address IPv6	NULL	0~1	IPv6 address applying Ipsec policy (Character string with NULL Terminate. Only half-size alphanumeric (0 to 9,a to f), colon (:) used for IPv6 format, hyphen used for range designation (-) can be used)
700-196	IPSEC defect policy	0	0~1	0: Bypass 1: Discard
700-197	Max number of jobs	600	90~3000	1 NVM step = 1 job
700-198	Job passing enable	1	0~1	0 = Inhibit 1 = Permit
700-202	Auditron Color Mode for Print	0	0~1	0: Prohibit 1: BW
700-207	Detect Error State 2Bite(RFC2790)	1: 2	0~1	1: 2-byte operation (RFC2790) 0: Non 2-byte operation (RFC1514)
700-211	Operation Permission - Job Cancel	0	0~1	0: Without limitation 1: With limitation (KO/SystemAdminstrator only)
700-212	Auth Mode	0	0~3	0: None 1: Local 2: Remote 3: CA (Convenience Authentication)
700-213	Auth Pathway Access - Service/Feature	0	0~1	0: Without limitation 1: With limitation
700-214	Auth Pathway Access - Job Status	0	0~1	0: Without limitation 1: With limitation
700-215	Auth Pathway Access - Device Status	0	0~1	0: Without limitation 1: With limitation
700-216	Auth Service Access - Copy	0	0~2	0: Without limitation 1: With limitation (Accessible) 2: With limitation (Not accessible)
700-217	Auth Service Access - Fax	0	0~2	0: Without limitation 1: With limitation(Accessible) 2: With limitation (Not accessible)
700-218	Auth Service Access - IFax	0	0~2	0: Without limitation 1: With limitation(Accessible) 2: With limitation (Not accessible)
700-219	Auth Service Access - Scan to Mail	0	0~2	0: Without limitation 1: With limitation(Accessible) 2: With limitation (Not accessible)
700-220	Auth Service Access - Scan to Box	0	0~2	0: Without limitation 1: With limitation(Accessible) 2: With limitation (Not accessible)
700-221	Auth Service Access - Scan to Server	0	0~2	0: Without limitation 1: With limitation(Accessible) 2: With limitation (Not accessible)
700-222	Auth Service Access - Scan to PC	0	0~2	0: Without limitation 1: With limitation(Accessible) 2: With limitation (Not accessible)
700-223	Auth Service Access - Document Print	0	0~2	0: Without limitation 1: With limitation(Accessible) 2: With limitation (Not accessible)
700-224	Auth Service Access - Photo Print	0	0~2	0: Without limitation 1: With limitation(Accessible) 2: With limitation (Not accessible)
700-225	Auth Service Access - Box	1	0~2	0: Without limitation 1: With limitation(Accessible) 2: With limitation (Not accessible)
700-226	Auth Service Access - Job Memory	0	0~2	0: Without limitation 1: With limitation(Accessible) 2: With limitation (Not accessible)
700-227	Auth Service Access - Job Flow	1	0~2	0: Without limitation 1: With limitation(Accessible) 2: With limitation (Not accessible)
700-228	Auth Service Access - Web Access	1	0~2	0: Without limitation 1: With limitation(Accessible) 2: With limitation (Not accessible)
700-229	Auth Service Access - BMLinkS	0	0~2	0: Without limitation 1: With limitation(Accessible) 2: With limitation (Not accessible)
700-230	Auth Service Access - CUI	1	0~2	0: Without limitation 1: With limitation(Accessible) 2: With limitation (Not accessible)
700-231	Auth Feature Access - Copy Color	0	0~1	0: Without limitation 1: With limitation
700-232	MiniOS Version	-	0~255	0 to 255

Table 1 Chain 700

Chain-Link	Name	Default	Range	Description
700-251	Scheduled Image Overwrite	0	0~1	0:OFF 1:ON
700-252	Scheduled Image Overwrite timing	2	1~3	
700-253	Scheduled Image Overwrite timing	0	0~23	
700-254	Scheduled Image Overwrite timing	0	0~59	
700-255	Scheduled Image Overwrite timing	0	0~6	
700-256	Scheduled Image Overwrite timing	1	1~28	
700-258	USB IC Card use mode	0	0~2	0:OFF 1:PKI 2:Job - PKI
700-259	SMIME file certificate	0	0~1	0:OFF 1:IC Smart Card
700-260	Scan file certificate	0	0~1	0:OFF 1:IC Smart Card
700-277	Color Copy Access Group DN	NULL		ASCII 256 BYTES
700-291	Min Password Length of User	0	0~12	0, 4~12
700-297	Serial# Prefix (1st digit)	-	-	Alphanumeric (ASCII)
700-298	Serial# Prefix (2nd digit)	-	-	Alphanumeric (ASCII)
700-299	Serial# Prefix (3rd digit)	-	-	Alphanumeric (ASCII)
700-300	Serial# Model Code	-	-	Alphanumeric (ASCII)
700-301	SEEPROM serial number _ 1	0	0~255	ASCII Read only
700-302	SEEPROM serial number _ 2	0	0~255	ASCII Read only
700-303	SEEPROM serial number _ 3	0	0~255	ASCII Read only
700-304	SEEPROM serial number _ 4	0	0~255	ASCII Read only
700-305	SEEPROM serial number _ 5	0	0~255	ASCII Read only
700-306	SEEPROM serial number _ 6	0	0~255	ASCII Read only
700-307	SEEPROM serial number _ 7	0	0~255	ASCII Read only
700-308	SEEPROM serial number _ 8	0	0~255	ASCII Read only
700-309	SEEPROM serial number _ 9	0	0~255	ASCII Read only
700-310	SEEPROM serial number _ 10	0	0~255	ASCII Read only
700-311	Battery backup SRAM serial number _ 1	0	0~255	ASCII Read only

Table 1 Chain 700

Chain-Link	Name	Default	Range	Description
700-312	Battery backup SRAM serial number _ 2	0	0~255	ASCII Read only
700-313	Battery backup SRAM serial number _ 3	0	0~255	ASCII Read only
700-314	Battery backup SRAM serial number _ 4	0	0~255	ASCII Read only
700-315	Battery backup SRAM serial number _ 5	0	0~255	ASCII Read only
700-316	Battery backup SRAM serial number _ 6	0	0~255	ASCII Read only
700-317	Battery backup SRAM serial number _ 7	0	0~255	ASCII Read only
700-318	Battery backup SRAM serial number _ 8	0	0~255	ASCII Read only
700-319	Battery backup SRAM serial number _ 9	0	0~255	ASCII Read only
700-320	Battery backup SRAM serial number _ 10	0	0~255	ASCII Read only
700-321	SEEPROM product number _ 1	0	0~255	ASCII Read only
700-322	SEEPROM product number _ 2	0	0~255	ASCII Read only
700-323	SEEPROM product number _ 3	0	0~255	ASCII Read only
700-324	SEEPROM product number _ 4	0	0~255	ASCII Read only
700-325	Battery backup SRAM product number _ 1	0	0~255	ASCII Read only
700-326	Battery backup SRAM product number _ 2	0	0~255	ASCII Read only
700-327	Battery backup SRAM product number _ 3	0	0~255	ASCII Read only
700-328	Battery backup SRAM product number _ 4	0	0~255	ASCII Read only
700-329	SEEPROM product code _ 1	0	0~255	ASCII
700-330	SEEPROM product code _ 2	0	0~255	ASCII
700-331	SEEPROM product code _ 3	0	0~255	ASCII
700-332	SEEPROM product code _ 4	0	0~255	ASCII
700-333	SEEPROM product code _ 5	0	0~255	ASCII
700-334	SEEPROM product code _ 6	0	0~255	ASCII
700-335	SEEPROM product code _ 7	0	0~255	ASCII
700-336	SEEPROM product code _ 8	0	0~255	ASCII

Table 1 Chain 700

Chain-Link	Name	Default	Range	Description
700-337	Device types _ data on SEEPROM	0	0~255	Multifunction products are the logical sum of the components P = 0x01 F = 0x02 C = 0x04 S = 0x08
700-338	Territory code_ SEEPROM	2	1~4	1 = FX 2 = XC 3 = XE 4 = AP Does not initialize
700-339	IOT S/W version _ major	0	0~65535	Read only
700-340	IOT S/W version _ minor	0	0~65535	Read only
700-341	IOT S/W version _ revision	0	0~65535	Read only
700-342	Controller S/W version _ major	0	0~65535	Read only
700-343	Controller S/W version _ minor	0	0~65535	Read only
700-344	Controller S/W version _ revision	0	0~65535	Read only
700-348	IIT S/W version _ major	0	0~65535	Read only
700-349	IIT S/W version _ minor	0	0~65535	Read only
700-350	IIT S/W version _ revision	0	0~65535	Read only
700-351	DADF S/W version _ major	0	0~65535	Read only
700-352	DADF S/W version _ minor	0	0~65535	Read only
700-353	DADF S/W version _ revision	0	0~65535	Read only
700-356	Auto Doc Delete -Passage Time - Minutes	0	0~59	
700-360	Product code backup _ 1	0	0~255	ASCII Read only
700-361	Product code backup _ 2	0	0~255	ASCII Read only
700-362	Product code backup _ 3	0	0~255	ASCII Read only
700-363	Product code backup _ 4	0	0~255	ASCII Read only
700-364	Product code backup _ 5	0	0~255	ASCII Read only
700-365	Product code backup _ 6	0	0~255	ASCII Read only
700-366	Product code backup _ 7	0	0~255	ASCII Read only
700-367	Product code backup _ 8	0	0~255	ASCII Read only
700-368	lpd buffer size (memory spool)	1024	512~32768	1 NVM step = 1 Kbyte in 256 KB increments
700-370	SA Group DN	NULL	-	ASCII 255 bytes
700-371	AA Group DN	NULL	-	ASCII 255 bytes

Table 1 Chain 700

Chain-Link	Name	Default	Range	Description
700-372	LDAP Search Filter	NULL	-	ASCII 512 bytes
700-379	SmartCard Authenticatin Certificate OID	NULL		“0000” ~ “FFFF”
700-380	SmartCard Signature Certificate OID	NULL		“0000” ~ “FFFF”
700-381	SmartCard Encryption Certificate OID	NULL		“0000” ~ “FFFF”
700-389	PCL buffer size (memory)	65535	2460~65535	1 NVM step = 1 Kbyte 0.25 MB increments
700-390	Memory for Email to print	256	64~1024	1 NVM step = 1 Kbyte
700-396	Auditron color mode for copy	0	0~2	Color mode for unauthenticated user 0 = Prohibit 1 = B/W 2 = B/W and low price color
700-397	Default print paper size	0	0~255	Set by country code 5 = A4 (XE default) 44 = Letter (XC default)
700-398	CE auditron mode	1	0~1	0 = Not display 1 = Display
700-399	Millimeters / inches	1	1~3	Set by country code 1 = mm (XE default) 3 = inch (XC default)
700-400	Contract TSC	1	0~1	0: Without contract 1: With contract
700-401	Paper size group _ NVM	1	1~5	1 = FX 2 = North America 3 = XE 4 = AP 5 = South America Does not initialize
700-402	Paper size group _ SEEPROM	1	1~5	1 = FX 2 = North America 3 = XE 4 = AP 5 = South America Does not initialize
700-404	802.1x authentication enable	0	0~1	0: Disable 1: Enable
700-405	802.1x authentication type	0	0~2	0: EAP_MD5 1: EAP_MSCHAPv2 2: EAP_PEAP_MSCHAPv2
700-406	802.1x authentication user name	NULL	-	ASCII character string of 128 bytes or less (NULL Terminate)
700-407	802.1x authentication Password	NULL	-	ASCII character string of 128 bytes or less (NULL Terminate)
700-408	802.1x authentication validate certifi-cate	0	0~1	0: Invalid 1: Valid (Valid only with EAP-PEAPv0/EAP-MS-CHAP-V2)
700-409	Custom Service Enable	0	0~1	0: Disable 1: Enable
700-413	Xerox Secure Access Server Address	NULL	-	To be designated with FQDN/IPv6/IPv4. 127-character string{NULL Terminate
700-414	Xerox Secure Access Server Pass	NULL	-	Pass in Server. 255-character string{NULL Terminate

Table 1 Chain 700

Chain-Link	Name	Default	Range	Description
700-415	Xerox Secure Access enable Local Login	0	0~1	0: Device cannot designate Log in. 1: Device can designate Log in.
700-416	Xerox Secure Access enable Accounting Code	0	0~1	0: Cannot obtain Accounting Code. 1: Can obtain Accounting Code.
700-417	Xerox Secure Access@Timeout	8	1~300	1 to 300(SECj
700-418	Xerox Secure Access Prompt default	Complete all steps required by the authentication device to gain access to the system.	-	255-character string{NULL Terminate
700-419	Xerox Secure Access Title default	“Login”	-	63-character string{NULL Terminate
700-420	SW download inhibition flag	0	0~1	0 = Permit 1 = Inhibit
700-421	Download product ID _ 1	0	0~255	Alpha numeric
700-422	Download product ID _ 2	0	0~255	Alpha numeric
700-423	Download product ID _ 3	0	0~255	Alpha numeric
700-424	Download product ID _ 4	0	0~255	Alpha numeric
700-425	Download product ID _ 5	0	0~255	Alpha numeric
700-426	Download product ID _ 6	0	0~255	Alpha numeric
700-427	Download product ID _ 7	0	0~255	Alpha numeric
700-428	Download product ID _ 8	0	0~255	Alpha numeric
700-430	Security PKI mode level	1	1~3	1 = Level 1 2 = Level 2 3 = Level 3
700-431	Security PKI certification type	0	0~2	0 = Not registered 1 = Self created 2 = Imported from outside
700-437	Security SSL enable	0	0~1	0 = Invalid 1 = Valid
700-440	Security S/MIME enable	0	0~1	0 = Invalid 1 = Valid
700-441	Security S/MIME certification index	0	0~65535	Initializes
700-442	Security S/MIME message digest mode	0	0~1	0 = SHA1 1 = MD5
700-443	Security S/MIME content cypher mode	0	0~3	0 = 3DES 1 = RC4-40 2 = RC4-64 3 = RC4-128
700-444	Security S/MIME signature mode	0	0~2	0 = Fixed to device certificate (initial value) 1 = Fixed to personal certificate 2 = Fixed to user certificate
700-445	Security SSL enable	443	0~65535	1 to 65535

Table 1 Chain 700

Chain-Link	Name	Default	Range	Description
700-446	Setting of HDD security overwrite	1	0~1	0 = Disable 1 = Enable
700-447	Number of security HDD overwrite times	3	0~3	1 = Once 3 = Three times
700-454	Security SNTP server info enable	0	0~1	0 = Disabled 1 = Enabled
700-455	Security SNTP info interval time	168	1~500	1 NVM step = 1 hour
700-458	MIO not signed reject	0	0~1	0 = Not inhibit 1 = Inhibit
700-459	MIO certification auto storage	0	0~1	0 = Disable 1 = Enable
700-460	Security SEC data restriction	0	0~1	0 = Disable 1 = Enable
700-461	Prohibit Receiving of Untrusted E-mail (@iFax)	0	0, 1	0: Do not prohibit, 1: Prohibit
700-462	SCANFILE Signature Device Certification	0	0~0XFFFFFFFF	0: TBD >0: Certificate Index Number
700-463	SCANFILE Signature Signer	0	0~2	0: Fixed as Device Certificate 1: Fixed as Personal Certificate 2: Fixed as User Certificate
700-464	XDW Signature	4	1~4	2: Always add signature (visible) 3: Do not add signature 4: User selection
700-465	PDF Signature	4	0~4	1: Always add signature (invisible) 2: Always add signature (visible) 3: Do not add signature 4: User selection
700-466	Print Delay Restriction Prohibition Settings	0	0, 1	0: Do not prohibit, 1: Prohibit
700-467	Time to Start Print Prohibited State (Hour)	21	0~23	0~23
700-468	Time to Start Print Prohibited State (Min)	0	0~59	0~59
700-469	Time to End Print Prohibited State (Hour)	9	0~23	0~23
700-470	Time to End Print Prohibited State (Min)	0	0~59	0~59
700-471	Output CO User Report	1	0, 1	0: FALSE (Prohibit), 1: TRUE (Allow)
700-490	Stored document LED on control	0	0~1	0 = All documents 1 = Fax only
700-500	IFAX to IFAX via box enable	0	0~1	0 = Disable 1 = Enable
700-501	IFAX to Email via box enable	0	0~1	0 = Disable 1 = Enable

Table 1 Chain 700

Chain-Link	Name	Default	Range	Description
700-502	Auto document delete from box enable	0	0~1	0 = Disable 1 = Enable
700-503	Number of days until auto delete from box	7	1~14	1 NVM step = 1 day
700-504	Number of hours until auto delete from extended box	3	0~23	1 NVM step = 1 hour
700-505	Number of minutes until auto delete from extended box	0	0~59	1 NVM step = 1 minute
700-506	Document delete from box after client pull	0	0~1	0 = Use mailbox setting 1 = Delete
700-510	Auto Doc delete for pay for print	0	0~1	0 = Disable 1 = Enable
700-511	Auto Doc delete for secure print	0	0~1	0 = Disable 1 = Enable
700-512	Auto Doc delete for sample print	0	0~1	0 = Disable 1 = Enable
700-513	Confirmation screen control for the Print Saved Job of Box Service	1	0, 1	0: Do not display, 1: Display
700-520	SESAMi manager port number	80	1~65535	1 to 65535
700-521	SESAMi manager max sessions	3	1~5	1 to 5
700-522	SESAMi manager connection time out	30	1~255	1 to 255
700-523	SESAMi jobflow service connection time out	60	1~900	1 to 900
700-530	Reboot when fault occur	1	0~1	0 = Disable 1 = Enable
700-540	Auditron Mode (Auditron Mode/Login Mode)	0: OFF	0~2	0: OFF, 1: INTERNAL AUDITRON, 2: NETWORK ACCOUNTING
700-541	Printing Restriction for Mailbox Print	1: ON	0~1	0: OFF (Not restricted), 1: ON (Restricted)
700-542	Restriction for outputting Electronic Document from Mailbox	1: ON	0~1	0: OFF (Not restricted), 1: ON (Restricted)
700-543	User Information Location (User Information Storage Location)	0: NVRAM	0~1	0: NVRAM, 1: HDD
700-544	Matching of Login Information	1: Enable	0~1	0: Disable, 1: Enable
700-545	Password Mode for Local Access (Login Password Mode)	0: OFF	0~1	0: OFF, 1: ON
700-546	Operation when Login Information is not available	0: Cancel	0~1	0: Cancel, 1: Store
700-547	User ID Notation	User ID	-	1~15 characters (7Bit ASCII)
700-548	Account ID Notation	Account ID	-	1~15 characters (7Bit ASCII)
700-549	Conceal UserID	0: FALSE	0~1	0: FALSE, 1: TRUE
700-550	Conceal AccountID	0: FALSE	0~1	0: FALSE, 1: TRUE
700-551	Remote Authentication Mode for Scan (Remote Login Mode for Scan)	0: OFF	0~2	0: OFF, 1: ON, 2: ON with Guest

Table 1 Chain 700

Chain-Link	Name	Default	Range	Description
700-552	Remote Authentication Service (Remote Login Service Selection)	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	0~255	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	Pay for Print Storing	0: Off	0~2	0: OFF, 1: ON, 2:Compulsion accumulates by the print job.
700-559	Enable/Disable Pay for Print Storing Job Command	0: Disable	0~1	0: Disable, 1: Enable
700-560	Operation for incorrect Login Information	0: Cancel	0~1	0: Cancel, 1: Store
700-561	Enable/Disable Pay for Print Control Job Command	0: Disable	0~1	0: Disable, 1: Enable
700-562	No Account User Print (Enable/Disable Non-Account Print)	0: Disable	0~1	0: Disable, 1: Enable
700-563	Maximum Number of Continuous KO Login Errors	5	0~10	0~10
700-564	Maximum Number of Login Errors	10	0~600	0~600
700-565	KDC IP Address-2	0.0.0.0	0.0.0.0~255.255.255.255	0.0.0.0~255.255.255.255
700-566	KDC Server Port Number-2	88	1~65535	Values between 1-65535
700-567	KDC FQDN-2	NULL character	-	Character below 255bytes valid in FQDN
700-568	KDC Realm Name-2	NULL character	-	Character string below 64bytes
700-580	KDC Server Port Number-3	88	1~65535	Values between 1-65535
700-581	KDC FQDN-3	NULL character	-	Character below 255bytes valid in FQDN
700-582	KDC Realm Name-3	NULL character	-	Character string below 64bytes
700-584	KDC Server Port Number-4	88	1~65535	Values between 1-65535
700-585	KDC FQDN-4	NULL character	-	Character below 255bytes valid in FQDN
700-586	KDC Realm Name-4	NULL character	-	Character string below 64bytes
700-587	KDC IP Address-5	0.0.0.0	-	0.0.0.0~255.255.255.255
700-588	KDC Server Port Number-5	88	1~65535	Values between 1-65535
700-589	KDC FQDN-5	NULL character	-	Character below 255bytes valid in FQDN
700-590	KDC Realm Name-5	NULL character	-	Character string below 64bytes
700-591	Direct Fax Job Restricted Mode	0: Allow	0, 1	0: Allow: 1 Prohibit
700-592	Auth Check Info for Net Job	1: Check	0~1	0: Not check 1: Check
700-594	Customize User Prompts	0:Prompt1(for User ID) and Prompt2(for Account ID)	0~3	0: Prompt1(for User ID) and Prompt2(for Account ID) 1: Only Prompt1(for User ID) 2: Only Prompt2(for Account ID) 3: None
700-595	MinPassword Length	0	0~12	0 to 12

Table 1 Chain 700

Chain-Link	Name	Default	Range	Description
700-596	SSMM Accounting Service Info Enabled	0: Disable	0~1	0: Disable 1: Enable
700-600	DC132 Supplementary Data Group 1 (IOT)	-	-	Auto setting
700-601	DC132 Supplementary Data Group 1 (SYS1)	-	-	Auto setting
700-602	DC132 Supplementary Data Group 1 (SYS2)	-	-	Auto setting
700-603	DC132 Supplementary Data Group 2 (IOT)	-	-	Auto setting
700-604	DC132 Supplementary Data Group 2 (SYS1)	-	-	Auto setting
700-605	DC132 Supplementary Data Group 2 (SYS2)	-	-	Auto setting
700-606	DC132 Supplementary Data Group 3 (IOT)	-	-	Auto setting
700-607	DC132 Supplementary Data Group 3 (SYS1)	-	-	Auto setting
700-608	DC132 Supplementary Data Group 3 (SYS2)	-	-	Auto setting
700-609	Security XPS Sign	4: According to user request	1~4	1: Always sign (Invisible) 3: Not sign 4: According to user request
700-610	IT Option Connection Settings	0: Do not connect	0, 1	[0: Do not connect, 1: Connect]
700-616	KDC FQDN - For Backup 1	NULL	-	Text (ASCII 256 Characters)
700-617	KDC FQDN - For Backup 2	NULL	-	Text (ASCII 256 Characters)
700-618	KDC FQDN - For Backup 3	NULL	-	Text (ASCII 256 Characters)
700-619	KDC FQDN - For Backup 4	NULL	-	Text (ASCII 256 Characters)
700-620	KDC FQDN - For Backup 5	NULL	-	Text (ASCII 256 Characters)
700-621	KDC Server Port Number - For Backup 1	88	1-65535	1-65535
700-622	KDC Server Port Number - For Backup 2	88	1-65535	1-65535
700-623	KDC Server Port Number - For Backup 3	88	1-65535	1-65535
700-624	KDC Server Port Number - For Backup 4	88	1-65535	1-65535
700-625	KDC Server Port Number - For Backup 5	88	1-65535	1-65535
700-626	Authentication agent - timeout	60 (sec)	1~300	1-300 (sec)
700-627	LDAP Authentication - Sequence Type	0: Direct Login	0, 1	0: Direct Login 1: Search and Login
700-628	LDAP Authentication - Login User Login Attributes Type	samAccount-Name	-	Text (ASCII 32 Characters)

Table 1 Chain 700

Chain-Link	Name	Default	Range	Description
700-629	LDAP Authentication - Login User Search Attributes Type	mail	-	Text (ASCII 32 Characters)
700-630	LDAP Authentication - User Name Additional Text	NULL	-	Text (ASCII 64 Characters)
700-631	LDAP Authentication - Enable/Disable User Name Additional Text	0: Disable	0, 1	0: Disable, 1: Enable
700-632	SMB Authentication - Domain Name 1	NULL	-	Text (ASCII 15 Characters)
700-633	SMB Authentication - Domain Name 2	NULL	-	Text (ASCII 15 Characters)
700-634	SMB Authentication - Domain Name 3	NULL	-	Text (ASCII 15 Characters)
700-635	SMB Authentication - Domain Name 4	NULL	-	Text (ASCII 15 Characters)
700-636	SMB Authentication - Domain Name 5	NULL	-	Text (ASCII 15 Characters)
700-642	SMB Authentication - Server/SMB Name 1	NULL	-	Text (ASCII 64 Characters)
700-643	SMB Authentication - Server/SMB Name 2	NULL	-	Text (ASCII 64 Characters)
700-644	SMB Authentication - Server/SMB Name 3	NULL	-	Text (ASCII 64 Characters)
700-645	SMB Authentication - Server/SMB Name 4	NULL	-	Text (ASCII 64 Characters)
700-646	SMB Authentication - Server/SMB Name 5	NULL	-	Text (ASCII 64 Characters)
700-652	SMTP Authentication - Specification Method	0: DOMAIN_NAME	0~3	0: DOMAIN NAME 1: SERVER NAME 2: SERVER ADDRESS 3: SERVER SMB NAME
700-653	Search User Login Attribute	“samAccount-Name”	-	Character string(ASCII 32 bytes)
700-654	Search User Search Attribute	NULL	-	Character string(ASCII 32 bytes)
700-655	Password Mode for Option	0	1	0: OFF 1: ON
700-660	Web Print Enable Time	0	0~255	0 or more 255 or less (unit: min.)

701-xxx Image Quality Setting NVM List

Table 1 Chain 701

Chain-Link	Name	Default	Range	Description
701-912	ADC Gradation Compensation Validity for A, B	1	0~1	0 = Invalid; 1 = Valid
701-917	ADC Tone Correction LUT Valid for E, F	1	0~1	0 = Invalid; 1 = Valid
701-924	Auto Gradation Compensation Validity for A, B	1	0~1	0 = Invalid; 1 = Valid
701-929	Auto Gradation Compensation Validity for E, F	1	0~1	0 = Invalid; 1 = Valid

702-xxx Job Setting NVM List

Table 1 Chain 702

Chain-Link	Name	Default	Range	Description
702-931	BufferCont Management Memory Partition Data	FALSE	0, 1	Expansion of memory partition size prohibition. TRUE: Prohibited FALSE: Not prohibited (Default) If the expansion of memory partition size is prohibited, memory partition expansion request by PfBufIoctl() will be refused.
702-932	External Scan Feature	0	0~2	0: None 1: ExtNetScan 2: CDIScan
702-934	Output Settings for Error Report during JFS Error	0	0, 1	0: Auto output Off, 1: Auto output On
702-935	Confirmation screen control for the Print Saved Job of Print Service	1	0, 1	0: Do not display, 1:Display
702-940	Size Type Settings during sending of FAX Document	2	1, 2	1: Standard, 2: Non-standard
702-941	Threshold Value Settings for size determination in Slow Scan direction during sending of FAX Document	10mm	0~10	0~10mm
702-942	“Mixed A3 and Ledger” Condition Settings for size determination in Slow Scan direction during sending of FAX Document	Conforms to RECEIVE_DOCSIZE_SELECT of “(A10 Country Specific System-DataDefault)” in the Fax-Card Features Specifications Manual.	1, 2	1: Mixed A3 and Ledger allowed 2: Mixed A3 and Ledger prohibited

710-xxx DADF NVM List

Table 1 Chain 710

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

Table 1 Chain 710

Chain-Link	Content	Default	Range	Meaning
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

711-xxx CVT DADF NVM List

Table 1 Chain 711

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)
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)

Table 1 Chain 711

Chain-Link	Content	Default	Range	1 Count	Meaning
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
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

Table 1 Chain 711

Chain-Link	Content	Default	Range	1 Count	Meaning
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.
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.

Table 1 Chain 711

Chain-Link	Content	Default	Range	1 Count	Meaning
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.
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 194mm/sec-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: 194mm/sec-speed mode Off 1: 194mm/sec-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

Table 1 Chain 711

Chain-Link	Content	Default	Range	1 Count	Meaning
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 Regi 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 Regi 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 Regi 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
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.

Table 1 Chain 711

Chain-Link	Content	Default	Range	1 Count	Meaning
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	-	

715-xxx IISS NVM List

Table 1 Chain 715

Chain-Link	Content	Default	Range	Meaning
715-007	Photograph scanning speed	0	0~1	To shift scanning speed in photograph scanning mode.0: Photograph scanning in half-speed mode1: Photograph scanning in normal speed mode
715-015	CVT Readout Position	2695	data unavailable	data unavailable
715-017	IIT Fail Bypass	0	0~1	0: Fail Bypass Off, 1: Fail Bypass On
715-018	Fan control mode	0	0~1	0: Normal mode1: Retail chain-store machine mode
715-020	No. of APS	1	0~1	0: 1 APS, 1: 2 APS
715-022	Lamp Fan Fail Bypass	0	0~1	To enable/disable Lamp Fan Fail detection.0: To detect Lamp Fan Fail1: Not to detect Lamp Fan Fail

Table 1 Chain 715

Chain-Link	Content	Default	Range	Meaning
715-023	Lamp Fan Low rotation ON time	15	0~60	Lamp Fan Low rotation ON time (in minute)
715-024	Lamp Fan stop time	0	0~60	Lamp Fan stop time (in minute)
715-025	FL Timer Set	0	0~1	0: Standard FL Timer settings (30min rest/0.5sec On), 1: Condensation mode setting (Diag 715-026, 715-027 timer settings apply)
715-026	Lamp ON Interval	30	0~60	Interval setting (unit: min.)
715-027	Lamp ON Time	1	0~60	Lamp ON time setting (unit: sec.)
715-030	IIT Defective part diagnosis	0	0~65535	To start IIT failure parts diagnosis by writing 1.When this NVM is read after failure parts diagnosis end, estimated failure parts No. is displayed.When Fail occurs during failure parts diagnosis, Fail code is recorded in this NVM, to end failure parts diagnosis.-Actually, 1 is not written.- When value other than 1 is written, incorrect write value error occurs
715-050	Platen SS Registration Adjustment	100	16~184	Slow Scan Direction Regi Correction Value (0.036mm/increment), Factory Settings
715-051	Platen SS Magnification 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 FS Registration Adjustment	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

Table 1 Chain 715

Chain-Link	Content	Default	Range	Meaning
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
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
715-092	W-Ref Correction coefficient Red	140	70~255	Red W-Ref Correction coefficient “To be adjusted at shipment”
715-093	W-Ref Correction coefficient Green	140	70~255	Green W-Ref Correction coefficient “To be adjusted at shipment”
715-094	W-Ref Correction coefficient Blue	140	70~255	Blue W-Ref Correction coefficient “To be adjusted at shipment”
715-097	CVT Density Level ADJ R	100	Data not available	Data not available
715-098	CVT Density Level ADJ G	100	Data not available	
715-099	CVT Density Level ADJ B	100	Data not available	Data not available
715-102	W-Ref Correction coefficient Red(Individual paper)	63	0~127	Red W-Ref Correction coefficient for correction to support individual paper
715-103	W-Ref Correction coefficient Green(Individual paper)	63	0~127	Green W-Ref Correction coefficient for correction to support individual paper
715-104	W-Ref Correction coefficient BLue(Individual paper)	63	0~127	Blue W-Ref Correction coefficient for correction to support individual paper
715-106	IIT Paper Code	0	0~8	0: NVM uses coefficient for each individual paper type 1: J paper, 2: P paper, 3: C2 paper, 4: Green100 paper, 5: Digital Color Xpression, 6: Color Tech+, 7: Xerox4200 paper, 8: Xerox Business
715-107	Nut_Angle_Front	990	0~1980	Light Axis Front Nut rotation angle (990~1980: Right revolution angle, 0~990: Left revolution angle)
715-108	Nut_Angle_Rear	990	0~1980	Light Axis Rear Nut rotation angle (990~1980: Right revolution angle, 0~990: Left revolution angle)
715-118	Lamp On Wait time before automatic tone correc-tion	0	0~300	Lamp On Wait time before automatic tone correction (Unit:sec)
715-119	Lamp On Wait time before W-Ref correction	0	0~300	Lamp On Wait time before W-Ref correction (Unit:sec)
715-185	Number of block for judgment of 0	0	0~32767	HWM detection: Number of block for 0 judgment (Block)
715-186	Number of block for judgment of 1	0	0~32767	HWM detection: Number of block for 1 judgment (Block)
715-187	Block line for CP original judgment	0	0~255	HWM detection: Number of block line for CP judgment
715-188	Number of block for WM judgment	0	0~65535	HWM detection: Number of block for WM judgment (Block)
715-189	Block line for WM judgment	0	0~255	HWM detecting: Number of block line for WM judgment
715-201	Extended BW/Color automatic recognition level adjustment	0	0~1	0: Normal1: To extend adjustment range
715-241	Black Line Correction Level Value (for Color)	8	0~15	Black Line Correction Strength Level Setting when reading Color, the larger the value, the stronger the correction strength (“0” means correction reset).

Table 1 Chain 715

Chain-Link	Content	Default	Range	Meaning
715-242	Black Line Correction Level Value (for BW)	8	0~15	Black Line Correction Strength Level Setting when reading BW, the larger the value, the stronger the correction strength (“0” means correction reset).
715-243	DCIC TEST MODE	0	0~7	Test Mode Setting for Designing Black Line Correction Parameter, “0” means normal operation.
715-249	White line elimination level (for background)	8	0~15	To set white line detection strength level for background.Detection strength increases as value increases (“0” to disable detection)
715-250	Black line elimination level (for background)	8	0~15	To set white line detection strength level for background.Detection strength increases as value increases (“0” to disable detection)
715-251	White line elimination level (for original)	8	0~15	To set white line detection strength level for original page Detection strength increases as value increases (“0” to disable detection)
715-252	Detection of error garbage	0	0~1	Garbage data detection result. “1” to detect error garbage data
715-263	Patch b* Correction (Detection)	0	Data not available	Data not available
715-269	Patch b* Correction (Image)	0	Data not available	Data not available
715-280	HOSEI_SCAN(for detection)	3	0~6	Correction coefficient No “To be adjusted at shipment”
715-281	HOSEI_SCAN(for image)	3	0~6	Correction coefficient No “To be adjusted at shipment”
715-282	CCD Calib Y patch scanned: Red	0	0~1023	CCD Calib YPatch patch scanned: Red (Reflectance LSB)“To be recorded at shipment”
715-283	CCD Calib Y patch scanned: Green	0	0~1023	CCD Calib YPatch patch scanned: Green (Reflectance LSB)“To be recorded at shipment”
715-284	CCD Calib Y patch scanned: Blue	0	0~1023	CCD Calib YPatch patch scanned: Blue (Reflectance LSB)“To be recorded at shipment”
715-285	CCD Calib M patch scanned: Red	0	0~1023	CCD Calib Match patch scanned: Red (Reflectance LSB)“To be recorded at shipment”
715-286	CCD Calib M patch scanned: Green	0	0~1023	CCD Calib MPatch patch scanned: Green (Reflectance LSB)“To be recorded at shipment”
715-287	CCD Calib M patch scanned: Blue	0	0~1023	CCD Calib MPatch patch scanned: Blue (Reflectance LSB)“To be recorded at shipment”
715-288	CCD Calib C patch scanned: Red	0	0~1023	CCD Calib CPatch patch scanned: Red (Reflectance LSB)“To be recorded at shipment”
715-289	CCD Calib C patch scanned: Green	0	0~1023	CCD Calib CPatch patch scanned: Green (Reflectance LSB)“To be recorded at shipment”
715-290	CCD Calib C patch scanned: Blue	0	0~1023	CCD Calib CPatch patch scanned: Blue (Reflectance LSB)“To be recorded at shipment”
715-291	CCD Calib PK patch scanned: Red	0	0~1023	CCD Calib PKPatch patch scanned: Red (Reflectance LSB)“To be recorded at shipment”
715-292	CCD Calib PK patch scanned: Green	0	0~1023	CCD Calib PKPatch patch scanned: Green(Reflectance LSB)“To be recorded at shipment”
715-293	CCD Calib PK patch scanned: Blue	0	0~1023	CCD Calib PKPatch patch scanned: Blue (Reflectance LSB)“To be recorded at shipment”
715-300	A6/Postcard Detection	0	0~2	0: Table default 1: A6SEF 2: PostcardSEF (mm series) or PostcardSEF (Inch series)
715-302	A4S/8.5in Detection 2	3	0~6	0: 210mm, 1: 211mm, 2: 212mm, 3: 213mm, 4: 214mm, 5: 215mm, 6: 216mm
715-303	B5/8x10 Detection	0	0~3	0: Table default 1: B5LEF or ExecutiveLEF 2: 8x10LEF/8x10.5LEF 3: Off
715-305	8.5x13/8.5x14 Detection	0	0~3	0: Table default 1: 12.4inch 2: 13inch 3: 14inch
715-306	Original Detection Table for Special Paper	0	0~2	0: Do not use Special Table 1: APS OFF, A4; APS ON, A3 2: APS OFF, Letter; APS ON, 17inch
715-307	Original Size Detection Table Switch	2	1~5	1: Inch13-2 2: mm-2 3: mm 4: Inch13-1 5: Inch14
715-308	5.5x8.5/Postcard Detection	0	0~2	0: Table default 1: A5SEF or 5.5x8.5SEF 2: PostCardLEF
715-310	A3/11x17 Detection	0	0~3	0: Table default 1: A3SEF 2: 11x17SEF 3: A3SEF, 11x17SEF
715-311	A4/8.5x11 Detection	0	0~3	0: Table default 1: A4LEF 2: 8.5x11LEF 3: 8.5x11LEF, A4LEF
715-312	Setting of Undefined/A6S threshold	90	50~110	To change fast scan threshold of Undefined and PostcardSEF/Post Card SEF/A6SEF. When other than 50 - 110 is set, fast scan threshold shall be 90mm.50:50mm -->110:110mm (in 1mm increments/1step)
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)

Table 1 Chain 715

Chain-Link	Content	Default	Range	Meaning
715-345	GCO/TFX Size Switch	1	0~1	0: GCO (16K/8K=270x195/270x390) 1: TFX (16K/8K=267x194/267x388)
715-346	B4/8K Fast Scan Threshold Value Setting	3	0~6	0: 256mm, 1: 258mm, 2: 260mm, 3: 262mm, 4: 264mm, 5: 266mm, 6: 268mm
715-347	8K/11x17SEF Fast Scan Threshold Value Setting	3	0~6	0: 269mm, 1: 271mm, 2: 273mm, 3: 275mm, 4: 277mm, 5: 279mm, 6: 281mm
715-349	B6/5x7 Detection	0	0~2	0: Table default 1: B6SEF 2: 5x7SEF
715-362	FL_CHK_NG_Count	0	0~65535	Lamp Check NG Count (Reset when lamp is replaced)
715-363	FL_CHK_NG_Data	0	0~1023	Data obtained when Lamp Check Fails (Read G Write data compared at checking)
715-418	AOCerr	0	0~255	No. of times the AOC flow has ended abnormally
715-550	BW copy with speed-prioritized AEBGR-AE adjustment level (Text/Photo)	0	0~4095	To set the value (0 - 15)?3 as elimination quantity (converted with 8bit).(x12 for conversion with 10 bit)Lower0 - 3bit: Platen 4bit - 7bit: machine loaded with CVT or DADF8bit - 11bit: machine loaded with CVT or DADF in duplex copy
715-551	Color copy with speed-prioritized AEBGR-AE adjustment level (Text/Photo)	0	0~4095	To set the value (0 - 15)?3 as elimination quantity (converted with 8bit).(x12 for conversion with 10 bit)Lower0 - 3bit: Platen 4bit - 7bit: machine loaded with CVT or DADF8bit - 11bit: machine loaded with CVT or DADF in duplex copy
715-552	BW copy with speed-prioritized AEBGR-AE adjustment level (Text)	0	0~4095	To set the value (0 - 15)?3 as elimination quantity (converted with 8bit).(x12 for conversion with 10 bit)Lower0 - 3bit: Platen 4bit - 7bit: machine loaded with CVT or DADF8bit - 11bit: machine loaded with CVT or DADF in duplex copy
715-553	Color copy with speed-prioritized AEBGR-AE adjustment level (Text)	0	0~4095	To set the value (0 - 15)?3 as elimination quantity (converted with 8bit).(x12 for conversion with 10 bit)Lower0 - 3bit: Platen 4bit - 7bit: machine loaded with CVT or DADF8bit - 11bit: machine loaded with CVT or DADF in duplex copy
715-554	BW Con-tone scan with speed-prioritized AEBGR-AE adjustment level (Text/Photo)	0	0~4095	To set the value (0 - 15)?3 as elimination quantity (converted with 8bit).(x12 for conversion with 10 bit)Lower0 - 3bit: Platen 4bit - 7bit: machine loaded with CVT or DADF8bit - 11bit: machine loaded with CVT or DADF in duplex copy
715-555	Con-tone color scan with speed-prioritized AEBGR-AE adjustment level (Text/Photo)	0	0~4095	To set the value (0-15) x3 as elimination quantity (converted with 8bit).(x12 for conversion with 10bit)Lower0 - 3bit?Platen 4bit - 7bit: machine loaded with CVT or DADF8bit - 11bit: machine loaded with CVT or DADF in duplex copy
715-600	AE1 FS External Area	255	0~65535	194mm/sec-speed AE/Fast Scan Direction undetected area INSTV At SMPST, SMPED setting
715-601	AE2 FS External Area	255	0~65535	194mm/sec-speed AE/Fast Scan Direction undetected area INSTV At HAEFST/HAEFSE setting
715-602	AE3 FS External Area	255	0~65535	194mm/sec-speed AE/Fast Scan Direction undetected area INSTV At MAEFST, MAEFSE setting (* Area used as detection area is used for PreIPS noise removal as well)
715-603	AE4 FS External Area	255	0~65535	194mm/sec-speed AE/Fast Scan Direction undetected area INSTV At NAEFST/NAEFSE setting
715-604	Line to Fix Variation	60	0~65535	194mm/sec-speed AE/Slow Scan Direction variable fixed position/NCON Slow Scan Edge AE Detection Amount (0.16mm increments)
715-605	HAE Line to Fix Variation	240	0~65535	End slow scan position in speed-prioritized AEDetection quantity of slow scan lead edge AE HAESSE
715-606	MAE Line to Fix Variation	240	0~65535	End slow scan position in speed-prioritized AE.Detection quantity of slow scan lead edge AE MAE-SSE(*Used also for PreIPS Detection area for noise elimination)
715-607	NAE Line to Fix Variation	240	0~65535	End slow scan position in speed-prioritized AE.Detection quantity of slow scan lead edge AE NAESS
715-608	Variation Control for BW Copy	1	0~1	LIM Control mode
715-609	CL_Copy Variation Control	1	0~1	LIM control mode
715-610	Variation Control for FAX, BinScan	1	0~1	LIM Control mode
715-611	Variation Control for ContoneScan	1	0~1	LIM Control mode
715-612	HAE Threshold for Background Color Suppres-sion	127	0~255	HAE histogram threshold.To be set in 100/255% increments. HAETH

Table 1 Chain 715

Chain-Link	Content	Default	Range	Meaning
715-613	NAE1 Threshold for Background Color Suppression	33	0~255	Total block number threshold of NAE (Threshold of total color block) To be set in 100/255% increments. NAEBLKTHC
715-614	NAE2 Threshold for Background Color Suppression	204	0~255	Total block number threshold of NAE (Threshold of total block for a specified color) To be set in 100/255% increments. NAEBLKTHY
715-615	NAE3 Threshold for Background Color Suppression	8	0~65535	Threshold of total line of NAE.To designate the number of line. NAETHC
715-616	NAE4 Threshold for Background Color Suppression	4	0~65535	Threshold of total line of NAE.To designate the number of line. NAETHY
715-617	AE Control of FS Length	0	0~1	0: Always use the document size detection result 1: Use the input document size as the detection size For AES parameter calculation.
715-618	Minimum FS Length for AE	500	0~65535	Fast Scan Detection Min. range (0.1mm increments) For AES parameter calculation.
715-619	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.
715-620	Slow scan magnification correction for AE parameter: Upper limit 2	4000	0~4000	Max. detection width in slow scan (1step = 0.1?).For MAE
715-621	Slow scan magnification correction for AE parameter: Upper limit 3	4000	0~4000	Max. detection width in slow scan (1step = 0.1?).For NAE
715-622	Slow scan magnification correction for AE parameter: Upper limit 4	4000	0~4000	Max. detection width in slow scan (1step = 0.1?).For HAE
715-629	Background suppression offset level in FAX I-tone scanning Text mode (Normal, Pencil)	0	0~8191	0: Strength Level 0 (standard), 1: Strength Level 1, 2: Strength Level 2, 3: Strength Level 3, 4: Strength Level 4, 5~15 and above: Strength Level 0 (standard) 0bit~3bit, Platen 4bit~7bit, CVT or DADF 8bit~11bit, CVT or DADF 2 Sided Copy
715-630	TP_BW_Copy_Fax Suppression Level of AE (Print, Photograph, Copy)	0	0~4095	0: Strength Level 0 (standard), 1: Strength Level 1, 2: Strength Level 2, 3: Strength Level 3, 4: Strength Level 4, 5~15 and above: Strength Level 0 (standard) 0bit~3bit, Platen 4bit~7bit, CVT or DADF 8bit~11bit, CVT or DADF 2 Sided Copy (* Used as the PreIPS EAER_DAT suppression level as well)
715-631	TP_BW_Copy_Fax Offset Level of AE (Print, Photograph, Copy)	273	0~4095	0: Strength Level 0 (standard), 1: Strength Level 1, 2: Strength Level 2, 3: Strength Level 3, 4: Strength Level 4, 5~15 and above: Strength Level 0 (standard) 0bit~3bit, Platen 4bit~7bit, CVT or DADF 8bit~11bit, CVT or DADF 2 Sided Copy
715-632	TX_BW_Copy_Fax Suppression Level of AE (Normal, Pencil Text)	0	0~4095	0: Strength Level 0 (standard), 1: Strength Level 1, 2: Strength Level 2, 3: Strength Level 3, 4: Strength Level 4, 5~15 and above: Strength Level 0 (standard) 0bit~3bit, Platen 4bit~7bit, CVT or DADF. 8bit~11bit, CVT or DADF 2 Sided Copy (* Used as the PreIPS EAER_DAT suppression level as well)
715-633	TX_BW_Copy_Fax Offset Level of AE (Normal, Pencil Text)	273	0~4095	0: Strength Level 0 (standard), 1: Strength Level 1, 2: Strength Level 2, 3: Strength Level 3, 4: Strength Level 4, 5~15 and above: Strength Level 0 (standard) 0bit~3bit, Platen 4bit~7bit, CVT or DADF 8bit~11bit, CVT or DADF 2 Sided Copy
715-634	TPL_BW_Copy_Fax Suppression Level of AE (Light Document)	0	0~4095	0: Strength Level 0 (standard), 1: Strength Level 1, 2: Strength Level 2, 3: Strength Level 3, 4: Strength Level 4, 5~15 and above: Strength Level 0 (standard) 0bit~3bit, Platen 4bit~7bit, CVT or DADF 8bit~11bit, CVT or DADF 2 Sided Copy (* Used as the PreIPS EAER_DAT suppression level as well)
715-635	TPL_BW_Copy_Fax Offset Level of AE (Light Document)	273	0~4095	0: Strength Level 0 (standard), 1: Strength Level 1, 2: Strength Level 2, 3: Strength Level 3, 4: Strength Level 4, 5~15 and above: Strength Level 0 (standard) 0bit~3bit, Platen 4bit~7bit, CVT or DADF 8bit~11bit, CVT or DADF 2 Sided Copy

Table 1 Chain 715

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
715-638	TP_CL_Copy Removable 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 (Parameter selection level shall be determined based on addition of TOOLS value (Level 0 - Level 4) and this NVM Level (0 - 4). For added value of Level 4 or larger, parameter selection level shall be Level 4.*Used also for PreIPS EADR_DAT Elimination level)
715-639	TP_CL_Copy offset Level of AE	0	0~4095	0: Strength level 0 (standard), 1: Strength level1, 2: Strength level23: Strength level3, 4: Strength level4, 5 - 15 or larger: Level 0(Standard)0bit - 3bit Platen 4bit - 7bit: machine loaded with CVT or DADF8bit - 11bit: machine loaded with CVT or DADF in duplex copy
715-640	TX_CL_Copy Removable Level of AE	0	0~4095	0: Strength level 0 (standard), 1: Strength level1, 2: Strength level23: Strength level3, 4: Strength level4, 5 - 15 or larger: Level 0(Standard)0bit - 3bit Platen 4bit - 7bit: machine loaded with CVT or DADF8bit - 11bit: machine loaded with CVT or DADF in duplex copy
715-641	TX_CL_Copy offset Level of AE	0	0~4095	0: Strength level 0 (standard), 1: Strength level1, 2: Strength level23: Strength level3, 4: Strength level4, 5 - 15 or larger: Level 0(Standard)0bit - 3bit Platen 4bit - 7bit: machine loaded with CVT or DADF8bit - 11bit: machine loaded with CVT or DADF in duplex 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
715-646	TP_CL_Contone Removable 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 (Parameter selection level shall be determined based on addition of TOOLS value (Level 0 - Level 4) and this NVM Level (0 - 4). For added value of Level 4 or larger, parameter selection level shall be Level 4.*Used also for PreIPS EADR_DAT Elimination level)
715-647	TP_CL_Contone offset Level of AE	0	0~4095	0: Strength Level 0 (standard), 1: Strength Level 1, 2: Strength Level 2, 3: Strength Level 3, 4: Strength Level 4, 5~15 and above: Strength Level 0 (standard) 0bit~3bit, Platen 4bit~7bit, CVT or DADF 8bit~11bit, CVT or DADF 2 Sided Copy

Table 1 Chain 715

Chain-Link	Content	Default	Range	Meaning
715-648	woTP_CL_Contone Removable 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 (* Used as the PreIPS EAER_DAT suppression level as well)
715-649	woTP_CL_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
715-660	2F-AE Lower Limit of Multiplied Value	0	0~255	To be used for calculation of HAE background quantity.In 1/255 increments, indicating that 1 consists of 255.
715-661	2F-AE Upper Limit of Multiplied Value	255	0~255	To be used for calculation of HAE background quantity.Value shall be set so that multiplication coefficient for upper limit value Multiplication coefficient for lower limit value= 255.In 1/255 increments, indicating that 1 consists of 255
715-662	Offset for 2F AE Control	8	0~255	Value to be added (subtracted) for comparison between RAE background quantity and HAE background quantity.When the value is larger, the 2nd side will be more difficult to select.
715-663	Threshold for 2F AE Control	16	0~255	Value to be compared with HAE background quantity when 2-side AE is selected.2-side AE is not selected when HAE background quantity is below the value of this NVM
715-664	Mode Control of 2F AE	0	0~3	0: To enable 2-side AE control, 1: To forcibly select the 1st side (L0),2: To forcibly output the 2nd side (L1
715-668	Control of 2C COPY	0	0~1	2-color copy reproduction control0:?Normal (Imari-MF-equivalent)1:?1301? system (Yellow not reproduced)
715-669	Control of Tracing Paper Mode	0	0~1	0:,Normal, 1: Tracing Paper mode (* Used as PreIPS C mode as well)
715-680	CL Balance Def Y / Low density	4	0~8	Default Color Balance Adjustment level Y color, Low density
715-681	CL Balance Def Y / Medium density	4	0~8	Default Color Balance Adjustment level Y color, Medium density
715-682	CL Balance Def Y / High density	4	0~8	Default Color Balance Adjustment level Y color, High density
715-683	CL Balance Def M / Low density	4	0~8	Default Color Balance Adjustment level M color, Low density
715-684	CL Balance Def M / Medium density	4	0~8	Default Color Balance Adjustment level M color, Medium density
715-685	CL Balance Def M / High density	4	0~8	Default Color Balance Adjustment level M color, High density
715-686	CL Balance Def C / Low density	4	0~8	Default Color Balance Adjustment level C color, Low density
715-687	CL Balance Def C / Medium density	4	0~8	Default Color Balance Adjustment level C color, Medium density
715-688	CL Balance Def C / High density	4	0~8	Default Color Balance Adjustment level C color, High density
715-689	CL Balance Def K / Low Density	4	0~8	Default Color Balance Adjustment Level K Color Low Density
715-690	CL Balance Def K / Medium Density	4	0~8	Default Color Balance Adjustment Level K Color Medium Density
715-691	CL Balance Def K / High Density	4	0~8	Default Color Balance Adjustment Level K Color High Density
715-702	PLTN/Belt FS Reduce/Enlarge Adjustment	50	0~100	Fine adjustment for Fast Scan Direction Reduce/Enlarge ratios. Specify within the range of 0 and 100 in increments of 1. The value indicates the fine adjustment with 0=-5%, 50=0% and 100=5% at +/-5% (0.1% increments). (No adjustment in Factory Settings)
715-703	CVT FS Reduce/Enlarge Adjustment	50	0~100	Fine adjustment for Fast Scan Direction Reduce/Enlarge ratios. Specify within the range of 0 and 100 in increments of 1. The value indicates the fine adjustment with 0=-5%, 50=0% and 100=5% at +/-5% (0.1% increments). (No adjustment in Factory Settings)

Table 1 Chain 715

Chain-Link	Content	Default	Range	Meaning
715-704	IPS Through Setting1	0	0~65535	IPS Through Setting 1. Force to skip Image Processing functions at memory sample scan. Change a value at S/W & H/W DEBUG. Always set “0” in normal use. (Handle with care) --The usage is as follows: Whether to execute/force to skip functions is assigned to each bit. However, you can specify multiple bits at a time. [PF1]| [PF2],D'0: AES | BEXG_TH,D'1: DF39 | FSRE_TH,D'2: SSR | SSR_TH,D'3: FSRE | NSP_TH,D'4: NSP | AER_TH,D'5: 4DLUT | TRC2_TH,D'6: 5AER | ED_TH,D'7: 5MUL | SEL_TH,D'8: 5MWA | SEL2_TH,D'9: 4AER | (spare),D'10: 4MUL | (spare),D'11: TRC | (spare),D'12: ED | (spare),D'13: DIRECT | (spare),D'14: (spare) | (spare),D'15: (spare) | (spare) The specified bit value is: B'0: Unchanged, B'1: Forced to skip.
715-705	IPS Bypass Setting2	0	0~65535	IPS Through setting2.To set 4DLUT Through mode.This Through setting is enabled only when 4DLUT is set to Forced Through with “IPS Through setting1”.To change value at S/W & H/W DEBUG.0: L*a*b* Through from Y block1: L*a*b* Through from M block2: L*a*b* Through from C block3: L*a*b* Through from K block4: MCKL*a*b* Through from Y block7 - 65535: 0h Output
715-720	Normal Density Text (BW Copy)	128	0~256	B/W COPY Text Normal Density Adjustment
715-721	High Density Text (BW Copy)	128	0~256	B/W COPY Text Darker 3 Density Adjustment
715-722	Normal Density Text (Scan/Fax)	128	0~256	Scan/FAX Text Normal Density Adjustment
715-723	High Density Text (Scan/Fax)	128	0~256	Scan/FAX Text Darker 3 Density Adjustment
715-724	PLTN RAE SS Not Detect Area	0	0~65535	Slow Scan Non-detection area Setup Value at Real Time AE for Platen model. BASE, HAEST, MAESST, NAESS
715-725	DADF-P-Job RAE SS Not Detect Area	0	0~65535	Slow Scan Non-detection area Setup Value at Real Time AE for DADF model Platen job. Or, Slow Scan Non-detection area Setup Value at Real Time AE for CVT job. BASE, HAEST, MAESST, NAESS
715-726	DADF-D-Job RAE SS Not Detect Area	0	0~65535	Slow Scan Non-detection area Setup Value at Real Time AE for DADF model DADF job. BASE, HAEST, MAESST, NAESS
715-780	B-Hue Start Degree	270	0~360	1 step in 1 deg. increments. When Start>End, value means End - 360deg., and 0 deg. - Start
715-781	B-Hue End Degree	320	0~360	1 step in 1 deg. increments. When Start>End, value means End - 360deg., and 0 deg. - Start
715-782	G-Hue Start Degree	110	0~360	1 step in 1 deg. increments. When Start>End, value means End - 360deg., and 0 deg. - Start
715-783	G-Hue End Degree	200	0~360	1 step in 1 deg. increments. When Start>End, value means End - 360deg., and 0 deg. - Start
715-784	R-Hue Start Degree	350	0~360	1 step in 1 deg. increments. When Start>End, value means End - 360deg., and 0 deg. - Start
715-785	R-Hue End Degree	60	0~360	1 step in 1 deg. increments. When Start>End, value means End - 360deg., and 0 deg. - Start
715-786	Y-Hue Start Degree	60	0~360	1 step in 1 deg. increments. When Start>End, value means End - 360deg., and 0 deg. - Start
715-787	Y-Hue End Degree	120	0~360	1 step in 1 deg. increments. When Start>End, value means End - 360deg., and 0 deg. - Start
715-788	M-Hue Start Degree	320	0~360	1 step in 1 deg. increments. When Start>End, value means End - 360deg., and 0 deg. - Start
715-789	M-Hue End Degree	10	0~360	1 step in 1 deg. increments. When Start>End, value means End - 360deg., and 0 deg. - Start
715-790	C-Hue Start Degree	190	0~360	1 step in 1 deg. increments. When Start>End, value means End - 360deg., and 0 deg. - Start
715-791	C-Hue End Degree	280	0~360	1 step in 1 deg. increments. When Start>End, value means End - 360deg., and 0 deg. - Start
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)

Table 1 Chain 715

Chain-Link	Content	Default	Range	Meaning
715-810	IISS LOGIC Fail	0	0~65535	Accumulative Fail Counter value. (Write not permitted)
715-811	(Same as above)	0	0~65535	Accumulative Fail Counter value since it was last reset. (Write not permitted)
715-814	Lamp Illumination Fail	0	0~65535	Accumulative Fail Counter value. (Write not permitted)
715-815	(Same as above)	0	0~65535	Accumulative Fail Counter value since it was last reset. (Write not permitted)
715-816	CRG Over Run Fail	0	0~65535	Accumulative Fail Counter value. (Write not permitted)
715-817	(Same as above)	0	0~65535	Accumulative Fail Counter value since it was last reset. (Write not permitted)
715-822	AGC Fail	0	0~65535	Accumulative Fail Counter value. (Write not permitted)
715-823	(Same as above)	0	0~65535	Accumulative Fail Counter value since it was last reset. (Write not permitted)
715-824	AOC Fail	0	0~65535	Accumulative Fail Counter value. (Write not permitted)
715-825	(Same as above)	0	0~65535	Accumulative Fail Counter value since it was last reset. (Write not permitted)
715-826	IPS PWBA Fail	0	0~65535	Accumulative Fail Counter value. (Write not permitted)
715-827	(Same as above)	0	0~65535	Accumulative Fail Counter value since it was last reset. (Write not permitted)
715-840	IPS PWBA Memory Fail Total	0	0~65535	Accumulated Fail Counter value (Not writable)
715-841	IPS PWBA Memory Fail Rese	0	0~65535	Accumulated Fail Counter value at the last count clearing (Not writable)
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)

719-xxx Configuration NVM List

Table 1 Chain 719

Chain-Link	Name	Default	Range	Remarks
719-008	Market Information	0	0~3	0: FX, 1: AP, 2: XC, 3: XE
719-009	IISS Major Version	0	0~65535	IISS Major Version No. (Same as when downloaded)
719-010	IISS Minor Version	0	0~65535	IISS Minor Version No. (Same as when downloaded)
719-011	IISS Revision Version	0	0~65535	IISS Revision Version No. (Same as when downloaded)
719-012	IISS Patch Version	0	0~65535	IISS Patch Version No. (Same as when downloaded)
719-013	ADF Major Version	0	0~65535	ADF Major Version No. (Same as when downloaded)
719-014	ADF Minor Version	0	0~65535	ADF Minor Version No. (Same as when downloaded)
719-015	ADF Revision Version	0	0~65535	ADF Revision Version No. (Same as when downloaded)
719-016	ADF Patch Version	0	0~65535	ADF Patch Version No. (Same as when downloaded)
719-017	IPL Version	0	0~65535	IPL Version No.
719-018	Black line removal FPGA Version	0	0~6553	Black line removal FPGA Version number

720-xxx Meter Counter NVM List

Table 1 Chain 720

Chain-Link	Name	Default	Range	Description
720-002	Billing Display	PFV_BILLING_TYPE_1	1~7	Meter Counter. 1: Billing 1, 2: Billing 2, 3: Billing 3, 4: Billing 4, 5: Billing 5, 6: Billing 6, 7: Billing 7
720-003	Master Print-Full Color	-	0~19999999	Meter Counter
720-004	Master Print-Color 1	-	0~19999999	Meter Counter
720-005	Master Print-Color 2	-	0~19999999	Meter Counter
720-006	Master Print-B&W	-	0~19999999	Meter Counter
720-007	Master Copy-Full Color	-	0~19999999	Meter Counter
720-008	Master Copy-Color2	-	0~19999999	Meter Counter
720-009	Master Copy-B&W	-	0~19999999	Meter Counter
720-010	Master FAX-Full Color	-	0~19999999	Meter Counter
720-011	Master FAX-B&W	-	0~19999999	Meter Counter
720-046	Master Large Size B&W	-	0~19999999	Meter Counter
720-047	Master Large Size Color	-	0~19999999	Meter Counter
720-052	Billing Count Type	0	0~2	Meter Counter. 0: STANDARD, 1: CUSTOM 1, 2: CUSTOM
720-053	Master Modal Color	-	0~19999999	Meter Counter
720-054	Master Modal B&W	-	0~19999999	Meter Counter
720-055	Backup1 Modal Color Counter	-	0~19999999	Meter Counter
720-057	Modal Break Point	10	10~100	Meter Counter

730-xxx, 731-xxx, 732-xxx, 733-xxx, 734-xxx Stored-Data

Table 1 Stored Data

Chain-Link	NVM Name	PWS Display	Initial Value	Setup Range	Description
730-010	Control of correctly authenticated print job at Authentication Mode of Print Auditron.	Pay for Print - Correct Account	0	0, 1	0: Print, 1: Forced save
731-001~999	Modem Speed	Speed Dial setting for Modem Speed (Link 1-500)	0	-	0: Follow the modem speed of system data, 1: 2400bps, 2: 4800bps, 3: 7200bps, 4: 9600bps, 5: 12000bps, 6: 144000bps, 7: 16800bps, 8: 19200bps, 9: 21600bps, 10: 24000bps, 11: 26400bps, 12: 28800bps, 13: 31200bps, 14: 33600bps, Speed Dial (Address Book) (999 stations)
732-001~999	Super G3 Disable Setting	Speed Dial setting for Super G3 (Link 1-500=Dial)	0	0~1	Speed Dial (Address Book) (999 stations) 0: Enable, 1: Disable
733-001~999	ECM Disable Setting	Speed Dial setting for ECM (Link 1-500=Dial)	0	0~1	Speed Dial (Address Book) (999 stations) 0: Enable, 1: Disable
734-001~999	JBIG Disable Setting	Speed Dial setting for JBIG (Link 1-500=Dial)	0	0~1	Speed Dial (Address Book) (999 stations) 0: Enable, 1: Disable

740-xxx IOT Manager NVM List

Table 1 Chain 740

Chain-Link	Name	Default	Range	Description
740-020	Market Code	XC=2; XE=3	-	XC=2; XE=3
740-024	RegiCon Request Flag	0	0~255	0=Performed; 1=Not performed
740-025	Edge Check Request Flag	0	0~255	0=Performed; 1=Not performed
740-026	ProCon Request Flag	0	0~255	0=Performed; 1=Not performed
740-027	Temperature when act RegiCon	0	0~255	20 degrees C/ bit
740-028	Date when act PowerOn-SetUp or NextDay-SetUp	0	0~255	Date
740-032	Source of IOT-Fin communication failure	0	0~65535	0-65534: Detected by IOT 65535: Detected by Finisher
740-033	OutCont Status (Main) at IOT-Fin communication failure detection	0	0~65535	OutCont DeviceStatus (Main)
740-034	OutCont Status (Sub) at IOT-Fin communication failure detection	0	0~65535	OutCont DeviceStatus (Sub)
740-035	Option detection switch	0	0~255	0 Automatic detection of tray type 1 1TM 2 TTM 3 3TM 4 Duplex + 1TM 5 Duplex + TTM 6 Duplex + 3TM 7 Duplex 8 or more: None
740-082	Max number of BW print pages when Color Toner is empty	1000	0~2000	Max. number of printable sheet in BW at color toner Empty. When 0 is set, printing is disabled if Toner Empty occurs with even one color
740-083	Number of BW print pages when Color Toner is empty	0	0~2000	BW print counter at color toner Empty

741-xxx Drive NVM List

Table 1 Chain 741

Chain-Link	Name	Default	Range	Description
741-054	NVM_PR_MOT_HIGH_PULSE (PR (Drum) Motor Speed Fine Adjustment (Standard)	9318	0~65535	Performs fine adjustment of Drum speed at standard speed. Each bit raises or lowers the drum speed by approx. 0.05% with respect to the initial value.
741-055	NVM_PR_MOT_LOW_PULSE (PR (Drum) Motor Speed Fine Adjustment (Heavy Weight /Transparency)	18642	0~65535	Fine adjusts the Drum speed at half speed. Each bit raises or lowers the drum speed by approx. 0.05% with respect to the initial value.
741-056	Belt Home Fail Too Long counter	0	0~3	It is necessary to reset the counter to reenable operation if the value reaches 3.
741-057	NoPaperRun Mode SW	0	0~2	0=Normal NoPaperRun 1=MainMotor Stop 2=Main/Dev. Motor Stop
741-067	NVM_IBT_MOT_DOUBLE_PULSE IBT Motor speed Fine Adjustment (Double Speed	1166	0~65535	Fine Adjusts the IBT drive motor at double speed.

Table 1 Chain 741

Chain-Link	Name	Default	Range	Description
741-068	NVM_PR_MOT_DOUBLE_PULSE (PR (Drum) Motor Speed Fine Adjustment (Double Speed)	4998	0~65535	Fine adjusts the Drum Speed at double speed. Increases the Drum Speed by +1 (approx. 0.05%) with respect to the initial value. Decreases the Drum Speed by -1 (approx. 0.05%).
741-108	NVM_MAIN_MOT_HIGH_PULSE(Main motor speed fine adjustment (104 pulse)	8762	0~65535	Fine adjusts the Main Drive Motor at standard speed.
741-110	NVM_MAIN_MOT_DOUBLE_PULSE(Main motor speed fine adjustment [165 pulse])	4700	0~65535	Fine adjusts the Main Drive Motor at 165 pulse speed.
741-111	Belt Length Variable	10	0~24	Correction of belt peripheral length for lead registration (0.2544 mm/bit)
741-112	IBT Motor Reverse Switch	1	0~2	Switch to reverse IBT Motor rotation at job end0=Disable; 1=Enable; 2=Forced implementation during job
741-113	PR Motor Reverse Switch	0	0~1	Switch to reverse PR Motor rotation at job end0=Disable; 1=Enable
741-114	Reverse time	13	12~25	Time from the reverse rotation-start signal until the reverse rotation-disabling signal (10 msec/bit)IBT: Time of step-up + constant speedPR: Time from On to Off of Reverse rotation port (Excluding time of step-down and stop)
741-115	Threshold for PV Counter	200	1~65535	Reverse rotation interval by PV
741-116	PV Counter for Drive	0	0~65535	Total PV from the previous reverse rotation
741-119	NVM_PR_MOT_TOP_PULSE (drum motor speed fine adjustment [208 pulse])	4656	0~65535	Fine adjusts the Drum Speed at top speed. Increases the Drum Speed by +1 (approx. 0.05%) with respect to the initial value. Decreases the Drum Speed by -1 (approx. 0.05%).
741-120	NVM_MAIN_MOT_TOP_PULSE(Main motor speed fine adjustment [208 pulse])	4376	0~65535	Fine adjusts the Main Drive Motor at top speed.
741-121	NVM _DEVE_MOT_HIGH_PULSE (Developer Motor fine speed adjust-ment [104 pulse]	10808	10808~13878	Fine adjusts the Main Drive Motor at top speed.
741-122	NVM _DEVE_MOT_LOW_PULSE (Developer Motor fine speed adjust-ment [52 pulse]	21616	21616~27756	Fine adjusts the Main Drive Motor at top speed.
741-123	NVM _DEVE_MOT_Double_PULSE (Developer Motor fine speed adjust-ment [194 pulse]	5796	5404~8708	Fine adjusts the Main Drive Motor at top speed.
741-127	SW_BW-YMC_PR&DeveMOT Speed Settings	0	0~1	0:52 1:104

742-xxx Paper Handling NVM List

Table 1 Chain 742

Chain-Link	Name	Default	Range	Description
742-001	Invert Clutch CW Off Timing	91	0~163	Paper inversion position adjustment (P Speed) (1bit=2.4462 msec.)
742-002	Invert Clutch CW Off Timing (Process Speed194mm/sec)	90	0~259	Paper inversion position adjustment (Double Speed) (1bit=1.5418 msec.)
742-003	Invert Clutch CW Off Timing (104mm/ sec. Heavy 1)	91	0~259	Adjustment of paper inversion position (104mm/sec.) Heavy1Clutch off 238msec after Fuser Exit sensor off

Table 1 Chain 742

Chain-Link	Name	Default	Range	Description
742-006	RegiLoop Length Adjust (Tray Standard Paper)	43	0~81	Regi Loop Length Adjustment (P Speed) for Standard Paper from Tray (2.4462 msec/bit)
742-007	RegiLoop Length Adjust (Tray Standard Paper) (Process Speed194mm/sec)	65	0~114	Regi Loop Length Adjustment (Double Speed) for Standard Paper from Tray (1bit=1.5418 msec.)
742-008	RegiLoop Length Adjust (Tray Heavy 1)	45	0~81	Regi Loop Length Adjustment (P Speed) for Heavy Weight1paper from Tray (2.4462 msec/bit)
742-009	RegiLoop Length Adjust (Tray 5 Standard Paper)	45	0~81	Regi Loop Length Adjustment (P Speed) for Standard Paper from Tray 5 (1bit=2.4462 msec.)
742-010	RegiLoop Length Adjust (Tray 5 Heavy 1)	46	0~81	Regi Loop Length Adjustment (P Speed) for Heavy Weight1paper from Tray 5 (2.4462 msec/bit)
742-011	RegiLoop Length Adjust (Tray 5 Standard Paper) (Process Speed194mm/sec)	65	0~114	Regi Loop Length Adjustment (Double Speed) for Standard Paper from Tray 5 (1bit=1.322 msec.)
742-013	RegiLoop Length Adjust (Tray 5 Heavy2 Paper) (104mm/sec.)	24	0~81	Regi Loop Length Adjustment (Half Speed) for Heavy Weight Paper from Tray 5 (1bit=5.025ms msec.)
742-014	RegiLoop Length Adjust (DUP) (2sheets of paper)	33	0~81	Regi Loop Length Adjustment (P Speed) from Up (Feeding length Letter-LEF and Shorter) (2.4462 msec/bit)
742-015	RegiLoop Length Adjust (DUP) (194mm/sec)	45	0~144	Regi Loop Length Adjustment (Double Speed) from Dup (1bit=1.31136 msec.)
742-017	Dup On Timing (From Regi Start)	20	0~40	Synchronize adjustment to be same as Regi Clutch at Regi Start (P Speed). (1bit=2.4462 msec.)
742-018	Full Stack Paper Sensing Condition	7	1~24	Full Stack Detection Condition (1bit=5sec).
742-019	Full Stack Paper Cancel Condition	1	1~30	Full Stack Cancel Condition (1bit=1 sec.)
742-020	Feed Start Timing (Tray 5) (Process Speed194mm/sec)	41	0~82	Feed Start Timing Adjustment from Pitch (P Speed) (850~1050 msec.). Default=950ms (1bit=2.4462 msec.)
742-021	Feed Start Timing (Tray 5) (Process Speed194mm/sec)	150	0~300	Feed Start Timing Adjustment from Pitch (Double Speed) (100~500 msec.) (1bit=1.5418 msec.)
742-022	Feed Motor Off Timing	10	0~35	Feed Motor Off Timing Adjustment from T/A Nip (1bit=10 msec.)
742-023	Regi Clutch Off Timing (104mm/sec)	41	12~81	Adjusts the time between the when paper rear edge passes the Regi Sensor and the Regi Clutch turns Off (P Speed) (90~290 msec.). Default=190ms (1bit=2.4462 msec.)
742-024	Regi Clutch Off Timing (Process Speed194mm/sec)	76	0~152	Adjusts the time between when the paper rear edge passes the Regi Sensor and the Regi Clutch Turns Off (Double Speed) (1bit=1.5418 msec.)
742-025	Adjust Side Regi (All)	25	0~50	Side Regi Adjustment (ALL, Offset value) (1bit=0.211mm)
742-026	Adjust Side Regi (Tray 5)	20	0~50	Side Regi Adjustment (Tray 5) (1bit=0.211mm)
742-027	Adjust Side Regi (Dup)	22	0~50	Side Regi Adjustment (Dup) (1bit=0.211mm)
742-028	Adjust Lead Regi (All)	15	0~40	Lead Regi Adjustment (ALL, Offset value) (1bit=0.2544mm)
742-029	Adjust Lead Regi (Tray) (Process Speed104mm/sec)	22	0~40	Lead Regi Adjustment (P Speed) from Tray (1bit=0.2544mm)
742-030	Adjust Lead Regi (Tray) (Process Speed194mm/sec)	21	0~40	Lead Regi Adjustment (Double Speed) from Tray (1bit=0.2544mm)
742-031	Adjust Lead Regi (Tray 5) (Standard Paper)(Process Speed104mm/sec)	23	0~40	Lead Regi Adjustment (P Speed) Standard Paper from Tray 5 (1bit=0.2544mm)
742-032	Adjust Lead Regi (Tray 5) (Standard Paper) (Process Speed194mm/sec)	21	0~40	Lead Regi Adjustment (Double Speed) Standard Paper from Tray 5 (1bit=0.2544mm)
742-033	Adjust Lead Regi (Tray 5) (Heavy1) (Process Speed194mm/sec)	20	0~40	Lead Regi Adjustment (P Speed) Heavy Weight Paper 1 from Tray 5 (1bit=0.2544mm)

Table 1 Chain 742

Chain-Link	Name	Default	Range	Description
742-034	Adjust Lead Regi (Tray 5) (Heavy2) (Process Speed194mm/sec)	7	0~40	Lead Regi Adjustment (Half Speed) Heavy Weight Paper 2 from Tray 5 (1bit=0.2544mm)
742-035	Adjust Lead Regi (Tray 5) (Heavy 1)	20	0~40	Lead Regi Adjustment (Half Speed) Heavy Weight Paper 1 from Tray 5 (1bit=0.2544mm)
742-036	Adjust Lead Regi (Tray 5) (Heavy 2)	24	0~40	Lead Regi Adjustment (Half Speed) Heavy Weight Paper 2 from Tray 5 (1bit=0.2544mm)
742-037	Adjust Lead Regi (Dup)	22	0~40	Lead Regi Adjustment (P Speed) (Side2) (1bit=0.2544mm)
742-038	Adjust Lead Regi (Dup)	21	0~40	Lead Regi Adjustment (Double Speed) (Side2) (1bit=0.2544mm)
742-039	Jam Bypass	0	0~255	0=Normal Mode 255=Jam Bypass
742-040	OCT Start Timing (Offset)	112	0~202	OCT (Offset) Start Timing Adjustment (P Speed) (1bit=2.4462 msec.)
742-041	OCT Start Timing (Offset) (Process Speed194mm/sec)	59	0~202	OCT (Offset) Start Timing Adjustment (Double Speed) (1bit=1.31136 msec.)
741-042	OCT Start Timing (Offset) (Process Speed104mm/sec)	112	0~202	OCT (Offset) Start Timing Adjustment (Heavy1) (1bit=2.4462 msec.)
742-046	Face Up Tray Condition	0	0~1	Face Up Tray Present 0=No 1=Yes
742-047	OCT Start Timing (Home)	17	0~112	OCT (Home) Start Timing Adjustment (P Speed) (1bit=2.4462 msec.)
742-048	OHP Sheet Sensing Condition	1	0~1	Transparency Detection; 1=Detect; 0=Does not detect
742-049	Tray 5 Side Guide min. Data	972	927~1017	Saves the Tray 5 Size Detection min. Value (1bit=1mm)
742-050	Tray 5 Side Guide Max Data	52	7~97	Saves the Tray 5 Size Detection Max Value (1mm/bit)
742-051	Feed Start Timing(1Tray)(104)	82	0~163	To adjust the time from Pitch Reference signal IOT to FEED start250 - 650
742-052	Feed Start Timing(1Tray)(194)	82	0~163	To adjust timing from Pitch to Feed Start(194 speed
742-053	Adjust Side Regi Tray 1	22	0~50	Side Regi adjustment of Tray 1 (1bit=0.211mm)
742-054	PAPER THE RESTIOT 1Tray	0	0~6000	To store accumulated lift-up time from Tray insertion For remaining detection calculation=A
742-055	Pre-T/A Start Timing 3TM-Tray 2	74	0~115	Adjusts the Time between Pre-T/A Starts and Standard Signal (IOT) (303~803 msec.) (1bit=2.4462 msec.)
742-056	Pre-T/A Start Timing 3TM-Tray 3	74	0~115	Adjusts the Time between Pre-T/A Starts and Standard Signal (IOT) (365~865 msec.) (1bit=2.4462 msec.)
742-057	Pre-T/A Start Timing 3TM-Tray 4	74	0~115	Adjusts the Time between Pre-T/A Starts and Standard Signal (IOT) (429~929 msec.) (1bit=2.4462 msec.)
742-058	Pre-T/A Start Timing TTM-Tray 2	10	0~16	Adjusts the Time between Pre-T/A Starts and Standard Signal (IOT) (1bit=2.4462 msec.)
742-059	Pre-T/A Start Timing TTM-Tray 3	74	0~115	Adjusts the Time between Pre-T/A Starts and Standard Signal (IOT) (457~957 msec.) (1bit=2.4462 msec.)
742-060	Pre-T/A Start Timing TTM-Tray 4	74	0~115	Adjusts the Time between Pre-T/A Starts and Standard Signal (IOT) (431~931 msec.) (1bit=2.4462 msec.)
742-061	PRE T/A START TIMING 1TM-1	102	0~204	To adjust the time from PRE T/A start to Reference Signal (IOT)303 - 803ms
742-062	Adjust Pre-Feed Position 3TM-Tray 2	0	0~40	Set time between Feed Out Sensor On and Feed Motor Off (0~400 msec (1bit=10 msec.)
742-063	Adjust Pre-Feed Position 3TM-Tray 3	0	0~40	Set time between Feed Out Sensor On and Feed Motor Off (0~400 msec.). (1bit=10 msec.)
742-064	Adjust Pre-Feed Position 3TM-Tray 4	0	0~40	Set time between Feed Out Sensor On and Feed Motor Off (0~400 msec.). (1bit=10 msec.)
742-065	Adjust Pre-Feed Position TTM-Tray 2	0	0~40	Set time between Feed Out Sensor On and Feed Motor Off (0~400 msec.). (1bit=10 msec.)
742-066	Adjust Pre-Feed Position TTM-Tray 3	0	0~40	Set time between Feed Out Sensor On and Feed Motor Off (0~400 msec.). (1bit=10 msec.)
742-067	Adjust Pre-Feed Position TTM-Tray 4	37	10~50	Set time between Feed Out Sensor On and Feed Motor Off (100~500 msec.). (1bit=10 msec.) Default=370ms
742-068	Adjust Pre-Feed Position 1TM-1	0	0~40	Set time between Feed Out Sensor On and Feed Motor Off (0~400 msec.). (1bit=10 msec.)
742-069	Main Feed Start Timing 3TM-Tray 2	20	0~44	Set time between Main Feed Start and the Pre-T/A (330~830 msec.). (1bit=10 msec.)
742-070	Main Feed Start Timing 3TM-Tray 3	20	0~44	Sets time between Main Feed Start and Pre-T/A (570~1070 msec.). (1bit=10 msec.)
742-071	Main Feed Start Timing 3TM-Tray 4	20	0~44	Sets time between Main Feed Start and Pre-T/A (810~1310 msec.). (1bit=10 msec.)
742-072	Main Feed Start Timing TTM-Tray 2	20	0~44	Sets time between Main Feed Start and Pre-T/A (330~830 msec.). (1bit=10 msec.)
742-073	Main Feed Start Timing TTM-Tray 3	20	0~44	Sets time between Main Feed Start and Pre-T/A (780~1280 msec.). (1bit=10 msec.)
742-074	Main Feed Start Timing TTM-Tray 4	20	0~44	Sets time between Main Feed Start and Pre-T/A (1410~1910 msec.). (1bit=10 msec.)

Table 1 Chain 742

Chain-Link	Name	Default	Range	Description
742-075	MAIN FEED START TIMING 1TM-1	2	0~50	To adjust the time from MAIN FEED start to PRE T/A330 - 830ms
742-076	Adjust Side Regi Tray 2	20	0~50	Side Regi adjustment of Tray 2 (1bit=0.211mm)
742-077	Adjust Side Regi Tray 3	20	0~50	Side Regi adjustment of Tray 3 (1bit=0.211mm)
742-078	Adjust Side Regi Tray 4	20	0~50	Side Regi adjustment votary 4 (1bit=0.211mm)
742-079	Adjust Side Regi Tray Module All	25	0~50	Side Regi adjustment of Trays 2, 3, 4 (Batch adjustment) (1bit=0.211mm)
742-080	Paper remaining (calc) 3TM-Tray 2	0	0~6000	Saves the cumulative Lift-up time from Tray insertion (Calculation of remaining paper level detected).
742-081	Paper remaining (calc) 3TM-Tray 3	0	0~6000	Saves the cumulative Lift-up time from Tray insertion (Calculation of remaining paper level detected).
742-082	Paper remaining (calc) 3TM-Tray 4	0	0~6000	Saves the cumulative Lift-up time from Tray insertion (Calculation of remaining paper level detected).
742-083	Paper remaining (calc) TTM-Tray 2	0	0~6000	Saves the cumulative Lift-up time from Tray insertion (Calculation of remaining paper level detected).
742-084	Paper remaining (calc) TTM-Tray 3	0	0~12000	Saves the cumulative Lift-up time from Tray insertion (Calculation of remaining paper level detected).
742-085	Paper remaining (calc) TTM-Tray 4	0	0~15000	Saves the cumulative Lift-up time from Tray insertion (Calculation of remaining paper level detected).
742-086	Paper remaining (call) TTM-Tray 1	0	0~6000	Saves the cumulative Lift-up time from Tray insertion (For remaining quantity detection calculation = A)
742-087	OCT present	1	0~1	0=Not available; 1=Available
742-088	Dup On Timing (From Regi Start) (Process Speed194mm/sec)	20	0~40	Synchronize adjustment to be same as the Regi Clutch at Regi Start (Double Speed) (1bit=1.31136 msec.)
742-089	OCT Start Timing (Home) (Process Speed194mm/sec)	17	0~112	OCT (Home) Start Timing Adjustment (Double Speed) (1bit=1.31136 msec.)
742-090	OCT Start Timing (Home) (Process Speed104mm/sec)	17	0~112	OCT (Home) Start Timing Adjustment (Heavy 1) (1bit=2.4462 msec.)
742-093	Pre-T/A Start Timing 3TM-Tray 2	139	0~215	Adjusts the Time between Pre-T/A Starts and Standard Signal (IOT) (303~803 msec.) (1bit=1.31136 msec.)
742-094	Pre-T/A Start Timing 3TM-Tray 3	139	0~215	Adjusts the Time between Pre-T/A Starts and Standard Signal (IOT) (365~865 msec.) (1bit=1.31136 msec.)
742-094	Pre-T/A Start Timing 3TM-Tray 3	139	0~215	Adjusts the Time between Pre-T/A Starts and Standard Signal (IOT) (365~865 msec.) (1bit=1.311368 msec.)
742-095	Pre-T/A Start Timing 3TM-Tray 4	139	0~215	Adjusts the Time between Pre-T/A Starts and Standard Signal (IOT) (429~929 msec.) (1bit=1.31136 msec.)
742-096	Pre-T/A Start Timing TTM-Tray 3	139	0~215	Adjusts the Time between Pre-T/A Starts and Standard Signal (IOT) (457~957 msec.) (1bit=1.31136 msec.)
742-097	Pre-T/A Start Timing TTM-Tray 4	139	0~215	Adjusts the Time between Pre-T/A Starts and Standard Signal (IOT) (431~931 msec.) (1bit=1.31136 msec.)
742-098	Main Feed Start Timing 3TM-Tray 2	38	0~83	Sets time between Main Feed Start and Pre-T/A (330~830 msec.). (1bit=1.5418 msec.)
742-099	Main Feed Start Timing 3TM-Tray 3	38	0~83	Sets time between Main Feed Start and Pre-T/A (570~1070 msec.). (1bit=1.5418 msec.)
742-100	Main Feed Start Timing 3TM-Tray 4	38	0~83	Sets time between Main Feed Start and Pre-T/A (810~1310 msec.). (1bit=1.5418 msec.)
742-101	Main Feed Start Timing TTM-Tray 3	38	0~83	Sets time between Main Feed Start and Pre-T/A (780~1280 msec.). (1bit=1.5418 msec.)
742-102	Main Feed Start Timing TTM-Tray 4	38	0~83	Sets time between Main Feed Start and Pre-T/A (1410~1910 msec.). (1bit=1.5418 msec.)
742-103	Select Metric or Inch (Tray 5 Auto Detect)	XC=1; XE=0	0~1	0=metric (A/B) paper; 1=Inch-sized paper
742-104	Select 2ndBTR Cleaning (Tray 5 Auto Detect)	1	0~1	0=No; 1=Yes
742-105	RegiLoop Length Adjust (DUP)	35	0~79	Lead Regi Length Adjustment (P Speed) from Dup (Feeding Length Letter-LEF and longer)Default=157ms (1bit=2.4462 msec.)
742-106	Pre-T/A Start Timing 3TM-Tray 2 (Half)	37	0~58	Adjusts the Time between Pre-T/A Starts and Standard Signal (IOT) (303~803 msec.) (1bit=4.8924 msec.)
742-107	Pre-T/A Start Timing 3TM-Tray 3 (Half)	37	0~58	Adjusts the Time between Pre-T/A Starts and Standard Signal (IOT) (365~865 msec.) (1bit=4.8924 msec.)
742-108	Pre-T/A Start Timing 3TM-Tray 4 (Half)	37	0~58	Adjusts the Time between Pre-T/A Starts and Standard Signal (IOT) (429~929 msec.) (1bit=4.8924 msec.)
742-109	Pre-T/A Start Timing TTM-Tray 3 (Half)	37	0~58	Adjusts the Time between Pre-T/A Starts and Standard Signal (IOT) (457~957 msec.) (1bit=4.8924 msec.)
742-110	Pre-T/A Start Timing TTM-Tray 4 (Half)	37	0~58	Adjusts the Time between Pre-T/A Starts and Standard Signal (IOT) (431~931 msec.) (1bit=4.8924 msec.)

Table 1 Chain 742

Chain-Link	Name	Default	Range	Description
742-111	Main Feed Start Timing 3TM-Tray 2 (Half)	10	0~22	Sets time between Main Feed Start and Pre-T/A (330~830 msec.). (1bit=4.8924 msec.)
742-112	Main Feed Start Timing 3TM-Tray 3 (Half)	10	0~22	Sets time between Main Feed Start and Pre-T/A (570~1070 msec.). (1bit=4.8924 msec.)
742-113	Main Feed Start Timing 3TM-Tray 4 (Half)	10	0~22	Sets time between Main Feed Start and Pre-T/A (810~1310 msec.) (1bit=4.8924 msec.)
742-114	Main Feed Start Timing TTM-Tray 3 (Half)	10	0~22	Sets time between Main Feed Start and Pre-T/A (780~1280 msec.) (1bit=4.8924 msec.)
742-115	Main Feed Start Timing TTM-Tray 4 (Half)	10	0~22	Sets time between Main Feed Start and Pre-T/A (1410~1910 msec.) (1bit=4.8924 msec.)
742-116	Tray Type selection	XC=1; XE=0	0~2	Set Tray Type to appropriate mkt setting: 0=metric; 1=inch; 2=FX K-size
742-118	Regi Loop Length Adjust (Tray 5 Long Document)(104mm/sec.)	19	0~81	2.4462 msec/bit
742-120	Adjust Lead Regi (104mm/sec.) (Heavy1)	20	0~40	Lead Regi adjustment (Heavy1) at 104mm/sec. (0.2544mm/bit)
742-121	Adjust Lead Regi (104mm/sec.) (Heavy1)	25	0~40	Lead Regi adjustment (Heavy1) from Tray 5 at 104mm/sec. (0.2544mm/bit)
742-122	Adjust Lead Regi (104mm/sec.) (Heavy1)	21	0~40	Lead Regi adjustment (Heavy1) from Duplex at 104mm/sec. (0.2544mm/bit)
742-123	RegiLoop Length Adjust (Duplex Heavy1) (104mm/sec., 2-sheet feed)	39	0~81	RegiLoop adjustment(104mm/sec.) Heavy1 from Dup (Feed length: Letter LEF or smaller) (1bit=2.4462 msec.)
742-124	RegiLoop Length Adjust (Duplex Heavy1) (104mm/sec., 1-sheet feed)	35	0~79	RegiLoop adjustment(104mm/sec.) Heavy1 from Dup (Feed length exceeding LetterLEF)Regi Sensor On - DUP MOT Step Down start: 86.66msec
742-125	T/A Motor2 Off Timing	53	33~73	T/A Motor Stop timing at TTM #4T/A Roll Pre Feed (10 msec/bit)
742-126	T/A Motor2 Start Timing	110	90~130	T/A Motor Start timing at TTM #4T/A Roll Pre Feed (10 msec/bit)
742-127	T/A Motor Off Acceptance	48	28~68	TTM #4T/A Roll Pre Feed implementation reject/accept (10 msec/bit)
742-128	Feed Roller Warning	298500	0~1500000	Tray Feed Roller Warning display timing (number of feeds)
742-129	Adjust Lead Regi (52mm/sec.) (Heavy2)	20	0~40	Lead Regi adjustment (52mm/sec.) from Tray (Heavy2) (0.2544mm/bit)
742-130	Adjust Lead Regi (52mm/sec.) (Heavy2)	41	0~81	RegiLoop adjustment (52mm/sec.) from Tray (Heavy2) (5.025msec/bit)
742-150	Invert Clutch CW Off Timing(208mm/sec.)	87	0~259	Paper inversion position adjustment (208mm/s speed) (1.2231msec/bit)
742-151	Regi Loop Length Adjust(Tray1 Standard Paper) (208mm/sec.)	56	0~81	RegiLoop adjustment(208mm/sec.) Standard Paper from Tray 1 (1.2231msec/bit)
742-152	Regi Loop Length Adjust(Tray2,3,4 Standard Paper) (208mm/sec.)	53	0~81	RegiLoop adjustment(208mm/sec.) Standard Paper from Trays 2, 3,4 1bit = 1.2231ms
742-153	Regi Loop Length Adjust (MSI Standard Paper) (208mm/sec.)	59	0~81	RegiLoop adjustment(208mm/sec.) Standard Paper from MSI 1bit = 1.2231ms
742-154	RegiLoopLengthAdjust(DUP) (208mm/sec.)	26	0~152	RegiLoop adjustment(208mm/sec.) From Dup Regi Sensor On - DUP MOT Step Down start: 86.66msec 1bit = 1.2231ms
742-155	Dup On Timing (From Regi Start) (208mm/sec.)	20	0~40	Adjustment of synchronization with RegiClutch at Regi start (208mm/sec.) 1bit = 1.2231ms

Table 1 Chain 742

Chain-Link	Name	Default	Range	Description
742-156	Feed Start Timing (MSI) (208mm/sec.)	150	0~300	Adjustment of Feed Start Timing from Pitch (208mm/sec.) 1bit = 1.2231ms
742-157	Regi Clutch Off Timing (208mm/sec.)	66	50~152	Adjustment of time from when paper trail edge passes Regi Sensor until Regi Clutch Off (208mm/sec.) 1bit = 1.2231ms
742-158	Adjust Lead Regi (Tray) (208mm/sec.)	20	0~40	Lead Regi Timing adjustment From Tray (208mm/sec.) 1bit = 1.2231ms
742-159	Adjust Lead Regi (MSI) (208mm/sec.)	24	0~40	Lead Regi Timing adjustment From MSI (208mm/sec.) 1bit = 1.2231ms
742-160	ADJUST LEAD REGI (DUP) (208mm/sec.)	20	0~40	Lead Regi Timing adjustment From Dup (208mm/sec.) 1bit = 1.2231ms
742-161	OCT Start Timing (208mm/sec.) (Offset)	59	0~202	Adjustment of the OCT Offset Start Time (208mm/sec.)
742-162	OCT timing (Home position) (208mm/sec.)	17	0~112	Adjustment of the OCT Home Start Time (208mm/sec.)
742-163	RegiLoopLengthAdjust (Label paper from MSI) (104mm/sec.)	38	0-81	RegiLoop length adjustment(104mm/sec.) From MSI Label Paper
742-164	RegiLoopLengthAdjust (Label paper from MSI) (52mm/sec.)	33	0-81	RegiLoop length adjustment(52mm/sec.) From MSI Label Paper
742-167	Feed Start Timing(1Tray) (208mm/sec.)	82	0~163	Adjustment of Feed Start timing from Pitch (208mm/sec.)
742-168	Pre T/A Start Timing 3TM -1-(208mm/sec.)	118	0~183	To adjust the time from PRE T/A start to Reference Signal (IOT) (208mm/sec)(303 - 803ms) 1bit = 1.2231ms
742-169	Pre T/A Start Timing 3TM -2-(208mm/sec.)	118	0~183	To adjust the time from PRE T/A start to Reference Signal (IOT)(208)mm/sec(365 - 865ms) 1bit = 1.2231ms
742-170	Pre T/A Start Timing 3TM - 3-(208mm/sec.)	118	0~183	To adjust the time from PRE T/A start to Reference Signal (IOT)(208)mm/sec(429 - 929ms) 1bit = 1.2231ms
742-171	Pre T/A Start Timing TTM -2-(208mm/sec.)	118	0~183	To adjust the time from PRE T/A start to Reference Signal (IOT)(208)(457 - 957ms) 1bit = 1.2231ms
742-172	Pre T/A Start Timing TTM-3(208mm/sec.)	118	0~183	To adjust the time from PRE T/A start to Reference Signal (IOT)(208)(431 - 931ms) 1bit = 1.2231ms
742-173	Main Feed Start Timing 3TM-1 (208mm/sec.)	32	0~71	To adjust the time from MAIN FEED start to PRE T/A(208mm/sec.) (330 - 830ms) 1bit = 1.2231ms
742-174	Main Feed Start Timing 3TM-2 (208mm/sec.)	32	0~71	To adjust the time from MAIN FEED start to PRE T/A(208mm/sec.) (570 - 1070ms) 1bit = 1.2231ms
742-175	Main Feed Start Timing 3TM-3 (208mm/sec.)	32	0~71	To adjust the time from MAIN FEED start to PRE T/A(208mm/sec. (810 - 1310ms) 1bit = 1.2231ms
742-176	Main Feed Start Timing TTM-2 (208mm/sec.)	32	0~71	To adjust the time from MAIN FEED start to PRE T/A(208mm/sec.) (780 - 1280ms) 1bit = 1.2231ms
742-177	Main Feed Start Timing TTM-3 (208mm/sec.)	32	0~71	To adjust the time from MAIN FEED start to PRE T/A(208mm/sec.) (1410 - 1910ms)
742-178	T/A Motor-2 OFF Timing(208mm/sec.)	53	33~73	T/A Motor stop timing for TTM #4T/A Roll Pre Feed (208mm/sec.)
742-179	T/A MOTOR-2 START Timing (208mm/sec.)	110	90~130	T/A Motor start timing for TTM #4T/A Roll Pre Feed(208mm/sec.)
742-180	T/A MOTOR OFF ACCEPTANCE (208mm/sec.)	48	28~68	To judge whether to perform TTM#4 T/A Roll Pre-feed (208mm/sec.)
742-181	Exit Gate Sol Off Timer (208mm/sec.) (SimplexFaceUp Mode)	10	10~20	Exit Gate Sol Off Timer(208mm/sec.) (SimplexFaceUp Mode)

Table 1 Chain 742

Chain-Link	Name	Default	Range	Description
742-182	Exit Gate Sol Off Timer(194mm/sec)(SimplexFaceUp Mode)	10	10~20	Exit Gate Sol Off Timer(165mm/sec.) (SimplexFaceUp Mode)
742-183	Exit Gate Sol Off Timer(104mm/sec)(SimlexFaceUp Mode)	10	10~20	Exit Gate Sol Off Timer(104mm/sec.) (SimlexFaceUp Mode)
742-184	Exit Gate Sol Off Timer(52mm/sec)(SimlexFaceUp Mode)	10	10~20	Exit Gate Sol Off Timer(52mm/sec.) (SimlexFaceUp Mode)
742-185	Dup Gate Sol Off Timer(208mm/sec)(SimplexFaceUp Mode)	10	10~20	Dup Gate Sol Off Timer(208mm/sec.) (SimplexFaceUp Mode)
742-186	Dup Gate Sol Off Timer(165mm/sec)(SimplexFaceUp Mode)	10	10~20	Dup Gate Sol Off Timer(165mm/sec.) (SimplexFaceUp Mode)
742-187	Dup Gate Sol Off Timer(104mm/sec)(SimplexFaceUp Mode)	10	10~20	Dup Gate Sol Off Timer(104mm/sec.) (SimplexFaceUp Mode)
742-188	Dup Gate Sol Off Timer(52mm/sec)(SimplexFaceUp Mode)	10	10~20	Dup Gate Sol Off Timer(52mm/sec.) (SimplexFaceUp Mode)
742-207	#1T/A Motor On Timing (From Regi Start) (Tray 52mm/sec.)	20	8~32	Adjustment of synchronization with RegiClutch at Regi start (Tray 52mm/sec.)
742-208	#1T/A Motor On Timing (From Regi Start) (Tray 52mm/sec.) (Label paper)	20	8~32	Adjustment of synchronization with RegiClutch at Regi start (Tray 52mm/sec.) (Label paper mode)
742-209	#1T/A Motor On Timing (From Regi Start) (MSI 52mm/sec.)	20	8~32	Adjustment of synchronization with RegiClutch at Regi start (MSI 52mm/sec.)
742-210	#1T/A Motor On Timing (From Regi Start) (MSI 52)(Label paper)	20	8~32	Adjustment of synchronization with RegiClutch at Regi start (MSI 52mm/sec.) (Label paper mode)
742-211	#1T/A Motor On Timing (From Regi Start) (Tray 104mm/sec.)	20	8~32	Adjustment of synchronization with RegiClutch at Regi start (Tray 104mm/sec.)
742-212	#1T/A Motor On Timing (From Regi Start) (Tray 104mm/sec.) (Label paper)	20	8~32	Adjustment of synchronization with RegiClutch at Regi start (Tray 104mm/sec.) (Label Paper mode)
742-213	#1T/A Motor On Timing (From Regi Start) (MSI 104mm/sec.)	35	8~48	Adjustment of synchronization with RegiClutch at Regi start (MSI 104mm/sec.)
742-214	#1T/A Motor On Timing (From Regi Start) (Tray 104mm/sec.) (Label paper)	35	8~80	Adjustment of synchronization with RegiClutch at Regi start (MSI 104mm/sec.) (Label paper mode)
742-215	#1T/A Motor On Timing (From Regi Start) (Tray 194mm/sec.)	20	8~32	Adjustment of synchronization with RegiClutch at Regi start (Tray 194mm/sec.) (1 bit=1.31136ms)
742-216	#1T/A Motor On Timing (From Regi Start) (MSI 194mm/sec.)	20	8~32	Adjustment of synchronization with RegiClutch at Regi start (MSI 194mm/sec.) (1 bit=1.31136ms)
742-217	#1T/A Motor On Timing (From Regi Start) (Tray 208mm/sec.)	20	8~32	Adjustment of synchronization with RegiClutch at Regi start (Tray 208mm/sec.) (1 bit=1.2231ms)
742-218	#1T/A Motor On Timing (From Regi Start) (MSI 208mm/sec.)	20	8~32	Adjustment of synchronization with RegiClutch at Regi start (MSI 208mm/sec.) (1 bit=1.2231ms)
742-222	Dup Motor On Timing (When inverted paper is fed in at 208mm/sec. with 1-sheet feed)	90	6~206	Dup Motor On Time from CW Clutch On to Dup Motor On (208mm/sec. speed with 1-sheet feed) (1 bit=1.222ms)
742-223	Dup Motor On Timing (When inverted paper is fed in at 208mm/sec. with 2-sheet feed)	90	6~206	Dup Motor On Time from CW Clutch On to Dup Motor On (208mm/sec. speed with 2-sheet feed) (1 bit=1.222ms)

Table 1 Chain 742

Chain-Link	Name	Default	Range	Description
742-224	Dup Motor speed decrease Timing When inverted paper is fed in at 208mm/sec. with 1-sheet feed?	188	6~206	Dup Motor speed decrease from 400 to 302mm/sec. (208mm/sec. with 1-sheet feed) (1 bit=1.222ms)
742-225	Dup Motor speed decrease Timing When inverted paper is fed in at 208mm/sec. with 2-sheet feed?	188	6~206	Dup Motor speed decrease from 400 to 302mm/sec. (208mm/sec. with 2-sheet feed) (1 bit=1.222ms)
742-226	Dup Motor current value switching Timing (Before Step-up start)	16	0~255	Motor current switching timing (Before Step Up start, 0.76-->1.14A) (1 bit=1.222ms)
742-227	Dup Motor current value switching Timing (After Step-up end)	16	0~255	Motor current switching timing (After Step Up end, 1.14-->0.76A) (1 bit=1.222ms)
742-228	Dup Motor current value switching Timing (Before Step-down start)	16	0~255	Motor current switching timing (Before Step Down start, 0.76-->1.14A) (1 bit=1.222ms)
742-229	Dup Motor current value switching Timing (After Step-down end)	16	0~255	Motor current switching timing (After Step Down end, 1.14-->0.76A) (1 bit=1.222ms)
742-230	Dup Motor current value switching Timing (Before speed decrease start)	16	0~255	Motor current switching timing (Before Slowdown start, 0.76-->1.14A) (1 bit=1.222ms)
742-231	Dup Motor current value switching Timing (After speed decrease end)	16	0~255	Motor current switching timing (After Slowdown end, 1.14-->0.76A) (1 bit=1.222ms)
742-232	Dup Motor current value switching Timing (Before Slow-up start)	16	0~255	Motor current switching timing (Before Slow-up start, 0.76-->1.14A) (1 bit=1.222ms)
742-233	Dup Motor current value switching Timing (After Slow-up end)	16	0~255	Motor current switching timing (After Slow-up end, 1.14-->0.76A) (1 bit=1.222ms)
742-234	Invert Clutch CCW On Timing (208mm/sec.)	82	0~255	Adjustment of CCW Clutch connection time (208mm/sec.) (1 bit=1.222ms)
742-235	Exit Gate Sol Off Timing) (208mm/sec., Face Down)	626	544~708	Exit Gate Off Timing Paper feed for Face Down (208mm/sec.) (1 bit=1.222ms)
742-236	Exit Gate Sol Off Timing (194mm/sec., Face Down)	572	496~648	Exit Gate Off Timing Paper feed for Face Down (194mm/sec.) (1 bit=1.31136ms)
742-237	Exit Gate Sol Off Timing (208 speed, Face Up)	925	843~1007	Exit Gate Off Timing Paper feed for Face Down (208mm/sec.) (1 bit=1.222ms)
742-238	Exit Gate Sol Off Timing (194 speed, Face Up)	864	864~1016	Exit Gate Off Timing Paper feed for Face Down (194mm/sec.) (1 bit=1.31136ms)
742-239	Exit Gate Sol voltage value timing	10	0~255	Exit Gate Solenoid current value switching Timing (1 bit= 10ms)
742-240	OCT Motor rotation time (Home, 208mm/sec.)	115	15~200	OCT CW rotation time (1 bit=1.222ms)
742-241	OCT Motor rotation time (Execute, 208mm/sec.)	99	15~200	OCT CCW rotation time (1 bit=1.222ms)
742-242	Dup Motor Off Timing(208 speed, Letter-G)	450	286~491	Dup Motor Off Time from Side2 Regi start to Dup Motor Step-Down (208mm/sec., Letter-G) (1 bit=1.222ms)
742-243	Dup Motor Off Timing(194 speed, Letter-G)	385	320~482	Dup Motor Off Time from Side2 Regi start to Dup Motor Step-Down (194mm/sec., Letter-G) (1 bit=1.31136ms)
742-244	Dup Motor Off Timing(104 speed, Letter-G)	437	343~446	Dup Motor Off Time from Side2 Regi start to Dup Motor Step-Down (104mm/sec., Letter-G) (1 bit=2.4462ms)

Table 1 Chain 742

Chain-Link	Name	Default	Range	Description
742-245	Invert Clutch CCW On Timing (speed of 194)	65	0~255	CCW Clutch connection time adjustment (194 speed) (1 bit=1.31136ms)
742-246	Dup Motor pre-excitation timing (Before Step-up start)	82	0~255	Dup Motor Pre excitation timing (1 bit=1.222ms)
742-252	Reference value for Dup Loop quantity correction (208mm/sec.)	282	0~584	Reference value for Dup Loop quantity adjustment (208mm/sec.)
742-253	Reference value for Dup Loop quantity correction (at 194mm/sec. with 1-sheet feed)	379	303~455	Reference value for Dup Loop quantity adjustment (194mm/sec. with 1-sheet feed) (1 bit=1.31136ms)
742-255	Reference value for Dup Loop quantity correction (Heavyweight paper1 at P speed with 1-sheet feed)	288	0~576	Reference value for Dup Loop quantity adjustment (Heavyweight paper1 at P speed with 1-sheet feed) (1 bit=2.4462ms)
742-256	Reference value for Dup Loop quantity correction (Heavyweight paper2 at P speed with 2-sheet feed)	520	0~1040	Reference value for Dup Loop quantity adjustment (Heavyweight paper1 at P speed with 2-sheet feed) (1 bit=2.4462ms)
742-257	Correction coefficient of Dup Loop quantity adjustment (Direct) 208mm/sec.	990	0~1000	Correction coefficient of Dup Loop quantity adjustment (Direct) (208mm/sec.)
742-258	Correction coefficient of Dup Loop quantity adjustment (indirect) 208mm/sec.	990	0~1000	Correction coefficient of Dup Loop quantity adjustment (indirect) (208mm/sec.)
742-259	To disable/enable Dup Loop quantity correction (208mm/sec.)	1	0~1	0: Without correction, 1: With correction
742-260	To disable/enable Dup Loop quantity correction (at 194mm/sec. with 1-sheet feed	1	0~1	0: Without correction, 1: With correction
742-262	To disable/enable Dup Loop quantity correction (Heavyweight paper1 at P speed with 1-sheet feed)	0	0~1	0: Without correction, 1: With correction
742-263	To disable/enable Dup Loop quantity correction (Heavyweight paper1at P speed with 2-sheet feed)	0	0~1	0: Without correction, 1: With correction
742-264	Remote maintenance Warning ratio of measured paper handling value	90	0~100	
742-265	Remote maintenance Item number out of warning send condition (No1)	0	0~255	'-When bit is set, warning is not sent.0bit: Item number 1 1bit: Item number 22bit: Item number 3 3bit: Item number 44bit: Item number 5 5bit: Item number 66bit: Item number 7 7bit: Item number 8
742-266	Remote maintenance Item number out of warning send condition (No2)	0	0~255	When bit is set, warning is not sent.0bit: Item number 9 1bit: Item number 102bit: Item number 11 3bit: Item number 124bit: Item number 13 5bit: Item number 146bit: Item number 15 7bit: Item number 16
742-267	Remote maintenance Item number out of warning send condition (No3)	1	0~255	When bit is set, warning is not sent.0bit: Item number 17 1bit: Item number 182bit: Item number 19 3bit: Item number 204bit: Item number 21 5bit: Item number 226bit: Item number 23 7bit: Item number 24
742-268	Remote maintenance Item number out of warning send condition (No4)	0	0~255	When bit is set, warning is not sent.0bit: Item number 25 1bit: Item number 262bit: Item number 27 3bit: Item number 284bit: Item number 29 5bit: Item number 306bit: Item number 31 7bit: Item number 32
742-269	Remote maintenance Item number out of warning send condition (No5)	0	0~255	When bit is set, warning is not sent.0bit: Item number 33 1bit: Item number 342bit: Item number 35 3bit: Item number 364bit: Item number 37 5bit: Item number 386bit: Item number 39 7bit: Item number 40

Table 1 Chain 742

Chain-Link	Name	Default	Range	Description
742-270	Correction coefficient of Dup Loop quantity adjustment (Direct) at 194mm/sec., 2-sheet feed	990	0~1000	Correction coefficient of Dup Loop quantity adjustment (Direct) at 194mm/sec. 2-sheet feed
742-271	Correction coefficient of Dup Loop quantity adjustment (Direct) at 194mm/sec., 1-sheet feed	990	0~1000	Correction coefficient of Dup Loop quantity adjustment (Direct) at 194mm/sec. 1-sheet feed
742-274	Correction coefficient of Dup Loop quantity adjustment (Direct) 104mm/sec., 2-sheet feed	990	0~1000	Correction coefficient of Dup Loop quantity adjustment (Direct) 104 mm/sec., 2-sheet feed
742-275	Correction coefficient of Dup Loop quantity adjustment (indirect) 104mm/sec., 2-sheet feed	990	0~1000	Correction coefficient of Dup Loop quantity adjustment (indirect) 104 mm/sec., 2-sheet feed
742-276	Correction coefficient of Dup Loop quantity adjustment (Direct) 104mm/sec., 1-sheet feed	990	0~1000	Correction coefficient of Dup Loop quantity adjustment (Direct) 104 mm/sec., 1-sheet feed
742-277	Correction coefficient of Dup Loop quantity adjustment (indirect) 104mm/sec., 1-sheet feed	990	0~1000	Correction coefficient of Dup Loop quantity adjustment (indirect) 104 mm/sec., 1-sheet feed
742-297	Adjust Side Regi (DUP Sheet Width)	2160	0~3200	Paper width correction/designation for DUP Side Regi (Applicable to input value or less)
742-298	Adjust Side Regi (DUP Sheet Width Offset)	32	0~50	Paper width correction/offset value for DUP Side Regi (25: Offset 0mm)
742-497	DupMotorOn Timing (Process Speed = 194ms)	145	100~190	Dup Motor OnTime between CW Clutch On and Dup Motor On (190msec=Initial value is 145) (194 mm/sec?Feed 1 sheet) (1bit= 1.31136ms)
742-498	Dup MotorOn Timing (Invert,Speed of 194ms ,2 sheeets of paper)	145	100~190	Dup Motor On Time between CW Clutch On and Dup Motor On (190msec= Initial value is 145) (194 mm/sec, Feed 2 sheets) (1bit= 1.31136ms)
742-499	Change timing of current value,DupMotor (Process Speed = 194,Start of step up)	76	0~152	Timing for switching Motor current value (194, Before Step Up, 0.76 -1.14A) (1bit= 1.31136ms)
742-500	Change timing of current value,DupMotor (Process Speed = 194, End of step up)	15	0~152	Timing for switching Motor current value (194, After Step Up, 1.14 - 0.76A) (1bit= 1.31136ms)
742-501	Change timing of current value,DupMotor (Process Speed = 194, Start of step down)	15	0~152	Timing for switching Motor current value (194, before Step Down, 0.76 - 1.14A) (1bit= 1.31136ms)
742-502	Change timing of current value,DupMotor (Process Speed = 194, End of step down)	15	0~152	Timing for switching Motor current value (194, After Step Down, 1.14 - 0.76A) (1bit= 1.31136ms)
742-503	Change timing of current value,DupMotor (Process Speed =194, Start of Slowdown)	15	0~152	Timing for switching Motor current value (194, Before Slowdown, 1.14 - 0.76A) (1bit= 1.31136ms)
742-504	Change timing of current value,DupMotor (Process Speed =194, End of Slowdown)	15	0~152	Timing for switching Motor current value (194, After Slowdown, 1.14 - 0.76A) (1bit= 1.31136ms)

Table 1 Chain 742

Chain-Link	Name	Default	Range	Description
742-505	Change timing of current value,DupMotor (Process Speed =194, Start of Slowup)	15	0~152	Timing for switching Motor current value (194, Before Slow Up, 1.14 - 0.76A) (1bit= 1.31136ms)
742-506	Change timing of current value,DupMotor (Process Speed =194, End of Slowup)	15	0~152	Timing for switching Motor current value (194, After Slow Up, 1.14 - 0.76A) (1bit= 1.31136ms)
742-507	Change timing of current value,DupMotor(Process Speed = 194, Start of step up, 0-372)	76	0~152	Timing for switching Motor current value (194, Before Step Up, 0 - 372mm/sec, 0.76 - 1.14A) (1bit= 1.31136ms)
742-508	Change timing of voltage,194,DupMotor On Process Speed = 194	76	0~152	Pre excitation timing of DupMotor,194 mm/sec (1bit= 1.31136ms)
742-509	Change timing of voltage,194,DupMotor On, 0-372 Process Speed = 194	76	0~152	Pre excitation timing of DupMotor,194 mm/sec to 372 (1bit= 1.31136ms)
742-510	Process Speed:194 DupMot Feedback Control	375	299~451	DupMot Feedback control Change standard value depending on the value measured at DupWaitSNROn~DupMot slow down start. (1bit= 1.31136ms)
742-511	Process Speed:194 DupMot Feedback Control	372	296~448	DupMot Feedback control Change standard value depending on the value measured at DupWaitSNROn~DupMot slow down start. (1bit= 1.31136ms)
742-512	Process Speed:194 DupMot Feedback Control	368	292~444	DupMot Feedback control Change standard value depending on the value measured at DupWaitSNROn~DupMot slow down start. (1bit= 1.31136ms)
742-513	Process Speed:194 DupMot Feedback Control	365	289~441	DupMot Feedback control Change standard value depending on the value measured at DupWaitSNROn~DupMot slow down start. (1bit= 1.31136ms)
742-514	Process Speed:194 DupMot Feedback Control	361	285~437	DupMot Feedback control Change standard value depending on the value measured at DupWaitSNROn~DupMot slow down start. (1bit= 1.31136ms)
742-515	Process Speed:194 DupMot Feedback Control	358	282~434	DupMot Feedback control Change standard value depending on the value measured at DupWaitSNROn~DupMot slow down start. (1bit= 1.31136ms)
742-516	Process Speed:194 DupMot Feedback Control	354	278~430	DupMot Feedback control Change standard value depending on the value measured at DupWaitSNROn~DupMot slow down start. (1bit= 1.31136ms)
742-517	Process Speed:194 DupMot Feedback Control	351	275~427	DupMot Feedback control Change standard value depending on the value measured at DupWaitSNROn~DupMot slow down start. (1bit= 1.31136ms)
742-518	Process Speed:194 DupMot Feedback Control	347	271~423	DupMot Feedback control Change standard value depending on the value measured at DupWaitSNROn~DupMot slow down start. (1bit= 1.31136ms)
742-519	Process Speed:194 DupMot Feedback Control	343	267~419	DupMot Feedback control Change standard value depending on the value measured at DupWaitSNROn~DupMot slow down start. (1bit= 1.31136ms)
742-520	Process Speed:194 DupMot Feedback Control	340	264~416	DupMot Feedback control Change standard value depending on the value measured at DupWaitSNROn~DupMot slow down start. (1bit= 1.31136ms)

Table 1 Chain 742

Chain-Link	Name	Default	Range	Description
742-521	Process Speed:194 DupMot Feedback Control	336	260~412	DupMot Feedback control Change standard value depending on the value measured at DupWaitSNROn~DupMot slow down start. (1bit= 1.31136ms)
742-522	Process Speed:194 DupMot Feedback Control	333	257~409	DupMot Feedback control Change standard value depending on the value measured at DupWaitSNROn~DupMot slow down start. (1bit= 1.31136ms)
742-523	Process Speed:194 DupMot Feedback Control	329	253~405	DupMot Feedback control Change standard value depending on the value measured at DupWaitSNROn~DupMot slow down start. (1bit= 1.31136ms)
742-524	FEED START TIMING 1Tray(208/216mm>L ≥ 210.2mm)	123	0~163	Pitch Feed Start Timing 208/216 >L ≥ 210.2mm (1bit= 1.31136ms)

743-xxx Nohad NVM List

Table 1 Chain 743

Chain-Link	Name	Default	Range	Description
743-019	FAN operation (or FAN operation On/ Off) setting	1	0~1	1= FAN available (or FAN operation On)2= FAN not available (or FAN operation Off)

744-xxx Fuser NVM List

Table 1 Chain 744

Chain-Link	Name	Default	Range	Description
744-001	STS-1 Cont Temp- Low Pwr Mode	120	0~160 (1 bit=1 deg. C)	Main-Lamp temperature control in Low-Power Mode. Setting the default as 0 degrees Celsius is same as Fuser-Off. It is necessary for high temperature for recovery Time Claim.
744-002	STS-2 Cont Temp in Low Pwr Mode	120	0~160 (1 bit=1 deg. C)	Sub-Lamp temperature control in Low-Power Mode. Setting the default as 0 degrees Celsius is same as Fuser-Off. It is necessary for high temperature for recovery Time Claim.
744-003	UM status by High Temperature Error Detection	0	0~2	0 (Normal) or 1 (STS-1 High Temperature Error Detection) or 2 (STS-2 High Temperature Error Detection).UM Status occurs when either STS-1 or STS-2 High Temperature Error Detection is detected. Once this occurs, UM cannot be canceled unless this NVM value is changed to 0 by entering the Diag Mode in the Interlock-Open status of the M/C-Front Cover.
744-004	STS-2 High-temp-not-ready Temp	230	150~250 (1 bit=1 deg.C)	Once the STS-2 reaches high temperature not-ready temperature, the Fuser is moved to sagging status. This is because when continuous run is performed for A5SEF and below, Temperature Distribution Control would fail.
744-005	STS-1 Ready Temperature	155	100~160	For optimization of Ready to Copy temperature distribution (1 bit=1 deg.C)
744-006	STS-2 Ready temperature	135	100~160	For optimization of Ready to Copy temperature distribution (1 bit=1 deg.C).
744-007	STS-1 Stand-by temperature	170	100~180	For optimization of Standby temperature distribution (1 bit=1 deg.C).
744-008	STS-2 Stand-by temperature	170	100~180	For optimization of Standby temperature distribution (1 bit=1 deg.C).

Table 1 Chain 744

Chain-Link	Name	Default	Range	Description
744-051	Environment temperature correction	3	0~5	Environment dependent correction coefficient for level of fusing. Temperature AD value shift amount when the environment temperature varies 1 degrees Celsius from 20 degrees Celsius. Corrects the target temperature of Ready temperature/Standby temperature/RUN. Both STS-1 and STS-2 have the same temperature. Corrects between 10 ~ 20 degrees Celsius. Correction is not performed outside this range. 0=No correction; 1=0.2 degrees Celsius/Environment Temperature (Maximum 2 degrees Celsius); 2=0.4 degrees Celsius/Environment Temperature (Maximum 4 degrees Celsius); 3=0.6 degrees Celsius/Environment Temperature (Maximum 6 degrees Celsius); 4=0.8 degrees Celsius/Environment Temperature (Maximum 8 degrees Celsius); 5=1.0 degrees Celsius/Environment Temperature (Maximum 10 degrees Celsius)
744-085	Plain Paper S Setting Temperature	5	0~5	0=Light Weight paper (55~63gsm); 1=Plain paper (64~70gsm); 2=Plain paper (71~80gsm); 3=Bond (81~89gsm); 4=Bond (90~98gsm); 5=Bond (99~105gsm)
744-194	Environment Sensor temperature	40	0~80 (1 deg.C/ bit)	Environment Sensor temperature read @ power on. Environment controlled based on this factor
744-195	Environment correction working temperature (STS-1, 2)	35	20~50 (1 bit=1 deg.C)	When temperature of STS1/2 is the set value or lower, the environment sensor temperature is read.
744-196	B/W Plain Paper S Setting Temperature	2	0~2	0=Light Weight paper (55~63gsm) 1=Plain paper (64~80gsm) 2=Bond (81~105gsm)
744-197	104mm/sec. OHP pitch adjustment value	0	0~10 (1 count=1 pitch)	OHP blocking measures; It prevents OHP blocking by lowering the PPM with increase of pitch. A4LEF=PPM=66/(4+NVM value) A4SEF=PPM=66/(5+NMV value)
744-198	52mm/sec. OHP pitch adjustment value	1	0~10 (1 count=1 pitch)	OHP blocking measures; It prevents OHP blocking by lowering the PPM with increase of pitch. A4LEF=PPM=33/(3+NVM value) A4SEF=PPM=33/(4+NVM value)
744-248	Condensation Guard Mode	0	0~10	Wait time from Fuser Ready.0: Stop,?1:1min Wait 2:2min 3:3min 4:4min 5min?6:6min 7:7min 8:8min 9:9min?10:10min
744-249	STS-1 Ready temperature #2	155	100~160	STS-1 Ready temperature for STS-1, 2 - temperature value of 744-253 or lower at recovery from Low-Power/Sleep mode (1 bit=1 deg.C)
744-250	STS-2 Ready temperature #2	135	100~160	STS-2 Ready temperature for STS-1, 2 - temperature value of 744-253 or lower at recovery from Low-Power/Sleep mode (1 bit=1 deg.C)
744-251	STS-1 Ready temperature #3	155	100~160	STS-1 Ready temperature for STS-1, 2 - temperature value of 744-253 or higher at recovery from Low-Power/Sleep mode (1 bit=1 deg.C)
744-252	STS-2 Ready temperature #3	155	100~160	STS-2 Ready temperature for STS-1, 2 - temperature value of 744-253 or higher at recovery from Low-Power/Sleep mode (1 bit=1 deg.C)
744-253	Change Ready temperature	45	20~100	Threshold for changing Ready temperature at recovery from Low-Power/Sleep mode
744-474	Phase Control	0	0~1	To disable/enable phase control of FLKCPU (Enable: 0, Disable: 1)
744-493	result of judgement 50Hz or 60Hz	1	1~3	1:50Hz2:60Hz3: Cannot be judged
744-495	Idling Time of Standard A	0	0~30	Dead cycle time before Plain Paper A is printed in color mode (1bit = 1sec)
744-496	Idling Time of Standard B	0	0~30	Dead cycle time before Plain Paper B is printed in color mode (1bit = 1sec)
744-497	Idling Time of Standard C	0	0~30	Dead cycle time before Plain Paper C is printed in color mode (1bit = 1sec)
744-498	Idling Time of Standard D	0	0~30	Dead cycle time before Plain Paper D is printed in color mode (1bit = 1sec)
744-499	Idling Time of Standard E	0	0~30	Dead cycle time before Plain Paper E is printed in color mode (1bit = 1sec)
744-500	Idling Time of Standard F	0	0~30	Dead cycle time before Plain Paper F is printed in color mode (1bit = 1sec)
744-501	Idling Time of Standard G	0	0~30	Dead cycle time before Plain Paper Gis printed in color mode (1bit = 1sec)
744-502	Idling Time of Standard S	10	0~30	Dead cycle time before Plain Paper S is printed in color mode (1bit = 1sec)
744-503	Idling Time of Standard S	10	0~30	Dead cycle time before Plain Paper S is printed in monochrome mode (1bit = 1°C)

Table 1 Chain 744

Chain-Link	Name	Default	Range	Description
744-504	STS-1 and STS-2 Stand-by TEMP after printing	180	160~200	Stand-by temperature after print. To optimize temperature distribution (1bit = 1°C)
744-505	Applied Time for STS-1 and STS-2 Stand-by TEMP	60	0~100	Stand-by temperature after print. To optimize temperature distribution (1bit = 1°C)
744-506	Shift from STS-1 and STS-2 Stand-by TEMP after printing	2	0~20	Stand-by temperature after print. To optimize temperature distribution (1bit = 1°C)
744-507	Shift from Stand-by 2 TEMP	5	0~20	Control using (1) Standby temperature after receiving Cycle Up + (2) Standby 2 shift temperature. Cycle Shift to Run temperature after receiving K-Pitch (prevent Droop) (1bit = 1°C)

746-xxx Xero Transfer NVM List

Table 1 Chain 746

Chain-Link	Name	Default	Range	Description
746-006	2nd Resistance detection calculation results	245	77~921 (1bit=-4.888V)	Measures the resistance of the Secondary Transfer part composed of 2nd BTR and Backup Roll at printable -1000V and display the voltage at Secondary Transfer corresponding that resistance. Secondary Transfer Voltage=245x-4.888=-1200V (Display range=500V~- 4500V)
746-007	Final output value (Voltage value)	17	0~1023 (1bit=1M Ohm)	Measures and displays the resistance of the Secondary Transfer part composed of 2nd BTR and Backup Roll at printable -1000V. (Display range=0~1023M Ohm)
746-009	Calculation results of Absolute Humidity	9	0~200	Displays the absolute humidity calculated from the relative humidity and relative temperature. (Absolute Humidity=(5.375-0.077*Temperature+0.027*Temperature 2)*Humidity/100)
746-012	2nd Output	276	0~921 (1bit=-4.888V)	For Component Control (0~- 4500V)
746-013	DTS Output	818	0~818 (1bit=-3.666V)	For Component Control (0~- 3000V)
746-017	Resistance detection calculation results Y	71	31~255 (1bit=0.196A)	Displays the output current corresponding to the resistance of the Primary Transfer part calculated from the voltage measured at fixed current (10 A) in Y Color 1ST BTR.
746-018	Resistance detection calculation results M	71	31~255 (1bit=0.196A)	Displays the output current corresponding to the resistance of the Primary Transfer part calculated from the voltage measured at fixed current (10 A) in M Color 1ST BTR.
746-019	Resistance detection calculation results C	71	31~255 (1bit=0.196A)	Displays the output current corresponding to the resistance of the Primary Transfer part calculated from the voltage measured at fixed current (10 A) in C Color 1ST BTR.
746-020	Resistance detection calculation results K	142	25~459 (1bit=0.196A)	Displays the output current corresponding to the resistance of the Primary Transfer part calculated from the voltage measured at fixed current (10 A) in K Color 1ST BTR.
746-021	1ST BTR Output Remote Normal-speed Y	100	0~200 (1bit=1%)	For primary transfer output adjustment of Y Color at FC104mmsec. Displays the multiplication value in primary transfer current of 746-017. ex., At 150=Primary Transfer Current=14 Ax1.5=21 A
746-022	1ST BTR Output Remote Normal-speed M	100	0~200 (1bit=1%)	For primary transfer output adjustment of M Color at FC104mmsec. Displays the multiplication value in primary transfer current of 746-018. ex., At 150=Primary Transfer Current=14 Ax1.5=21 A
746-023	1ST BTR Output Remote Normal-speed C	100	0~200 (1bit=1%)	For primary transfer output adjustment of C Color at FC104mmsec. Displays the multiplication value in primary transfer current of 746-019. ex., At 150=Primary Transfer Current=14 Ax1.5=21 A
746-024	1ST BTR Output Remote Normal-speed K	100	0~200 (1bit=1%)	For primary transfer output adjustment of K Color at FC104mmsec. Displays the multiplication value in primary transfer current of 746-020. ex., At 150=Primary Transfer Current=14 Ax1.5=21 A
746-025	1ST BTR Output Remote Half-speed FC Y	100	0~200 (1bit=1%)	For primary transfer output adjustment of Y Color at FC52mmsec. Displays the multiplication value in primary transfer current of 746-017. ex., @ 50=Primary Transfer Current=14 Ax0.5=7 A
746-026	1ST BTR Output Remote Half-speed FC M	100	0~200 (1bit=1%)	For primary transfer output adjustment of M Color at FC52mmsec. Displays the multiplication value in primary transfer current of 746-018. ex., At 50=Primary Transfer Current=14 Ax0.5=7 A

Table 1 Chain 746

Chain-Link	Name	Default	Range	Description
746-027	1ST BTR Output Remote Half-speed FC C	100	0~200 (1bit=1%)	For primary transfer output adjustment of C Color at FC52mmsec. Displays the multiplication value in primary transfer current of 746-197. ex., At 50=Primary Transfer Current=14 Ax0.5=7 A
746-028	1ST BTR Output Remote Half-speed FC K	100	0~200 (1bit=1%)	For primary transfer output adjustment of K Color at FC52mmsec. Displays the multiplication value in primary transfer current of 746-020. ex., At 50=Primary Transfer Current=14 Ax0.5=7 A
746-029	1ST BTR Output Remote 194mm/sec-speed BW K Side 1	100	0~255 (1bit=1%)	For primary transfer output adjustment of K Color at BW 194mmsec Side 1. Displays the multiplication value in primary transfer current of 746-020
746-030	1ST BTR Output Remote Normal-speed BW K	100	0~200 (1bit=1%)	For primary transfer output adjustment of K Color at BW 104mmsec. Displays the multiplication value in primary transfer current of 746-020
746-031	1ST BTR Output Remote Half-speed BW K	100	0~200 (1bit=1%)	For primary transfer output adjustment of K Color at BW 52mmsec. Displays the multiplication value in primary transfer current of 746-020
746-032	1ST BTR Present Output Y	112	31~255 (1bit=0.196A)	Displays the Resistance Detection Calculation (results x remote).
746-033	1ST BTR Present Output M	112	31~255 (1bit=0.196A)	Displays the Resistance Detection Calculation (results x remote).
746-034	1ST BTR Present Output C	112	31~255 (1bit=0.196A)	Displays the Resistance Detection Calculation (results x remote).
746-035	1ST BTR Present Output K	224	25~459 (1bit=0.196A)	Displays the Resistance Detection Calculation (results x remote).
746-059	Remote for Plain paper A Side1	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of Plain paper A side 1. Displays the multiplication value in secondary transfer resistance calculation result of 746-006.
746-060	Remote for Plain paper B Side1	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of Plain paper B side 1. Displays the multiplication value in secondary transfer resistance calculation result of 746-006.
746-061	Remote for Plain paper C Side1	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of Plain paper C side 1. Displays the multiplication value in secondary transfer resistance calculation result of 746-006.
746-062	Remote for Plain paper D/E Side1	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of Plain paper D/E side 1. Displays the multiplication value in secondary transfer resistance calculation result of 746-006.
746-063	Remote for Plain paper F/G Side1	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of Plain paper F/G side 1
746-064	Remote for Plain paper S Side1	100	0~200 (1bit=1%)	Secondary Transfer output adjustment of Plain paper S side 1. Displays the multiplication value in secondary transfer resistance calculation result of 746-006.
746-065	Remote for Label stock Side1	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of Label side 1 Displays the multiplication value in secondary transfer resistance calculation result of 746-006.
746-066	Remote for Lightweight paper Side1	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of Thin paper side 1. Displays the multiplication value in secondary transfer resistance calculation result of 746-006.
746-067	Remote for Heavy Weight paper1 Side1	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of Heavy Weight paper 1 side 1. Displays the multiplication value in secondary transfer resistance calculation result of 746-006.
746-068	Remote for Heavy Weight paper2 Side1	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of Heavy Weight paper 2 side 1. Displays the multiplication value in secondary transfer resistance calculation result of 746-006.
746-069	Remote for Postcard Side1	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of Postcard side 1. Displays the multiplication value in secondary transfer resistance calculation result of 746-006.
746-070	Remote for Envelope Side1	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of Envelope side 1. Displays the multiplication value in secondary transfer resistance calculation result of 746-006.
746-071	Remote for MLT-faced Postcard Side1	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of MLT-faced Postcard side 1. Displays the multiplication value in secondary transfer resistance calculation result of 746-006.

Table 1 Chain 746

Chain-Link	Name	Default	Range	Description
746-072	Remote for Transparency Side1	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of Transparency side 1. Displays the multiplication value in secondary transfer resistance calculation result of 746-006.
746-073	Remote for Tack Film Side1	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of Tack Film side 1. Displays the multiplication value in secondary transfer resistance calculation result of 746-006.
746-074	Remote for Heavy Weight coated paper1 Side1	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of Coated paper 1 side 1. Displays the multiplication value in secondary transfer resistance calculation result of 746-006.
746-075	Remote for Heavy Weight coated paper2 Side1	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of Coat paper 2 side 1. Displays the multiplication value in secondary transfer resistance calculation result of 746-006.
746-076	Remote for Plain paper A Side2	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of Plain paper A side 2. Displays the multiplication value in secondary transfer resistance calculation result of 746-006.
746-077	Remote for Plain paper B Side2	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of Plain paper B side 2. Displays the multiplication value in secondary transfer resistance calculation result of 746-006.
746-078	Remote for Plain paper C Side2	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of Plain paper C side 2. Displays the multiplication value in secondary transfer resistance calculation result of 746-006.
746-079	Remote for Plain paper D/E Side2	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of Plain paper D/E side 2. Displays the multiplication value in secondary transfer resistance calculation result of 746-006.
746-080	Remote for Plain paper F/G Side2	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of Plain paper F/G side 2. Displays the multiplication value in secondary transfer resistance calculation result of 746-006.
746-081	Remote for Plain paper S Side2	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of Plain paper S side 2. Displays the multiplication value in secondary transfer resistance calculation result of 746-006.
746-082	Remote for Heavy Weight paper1 Side2	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of Heavy Weight paper 1 side 2. Displays the multiplication value in secondary transfer resistance calculation result of 746-006.
746-083	Remote for Heavy Weight paper2 Side2	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of Heavy Weight paper 2 side 2. Displays the multiplication value in secondary transfer resistance calculation result of 746-006.
746-084	Remote for Postcard Side2	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of Postcard side 2. Displays the multiplication value in secondary transfer resistance calculation result of 746-006.
746-085	Remote for Envelope Side2	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of Envelope side 2. Displays the multiplication value in secondary transfer resistance calculation result of 746-006.
746-086	Remote for MLT-faced Postcard Side2	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of MLT-faced Postcard side 2. Displays the multiplication value in secondary transfer resistance calculation result of 746-006.
746-087	Remote for Heavy Weight coated paper1 Side2	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of Coat paper 1 side 2. Displays the multiplication value in secondary transfer resistance calculation result of 746-006.
746-088	Remote for Heavy Weight coated paper2 Side2	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of Coat paper 2 side 2. Displays the multiplication value in secondary transfer resistance calculation result of 746-006.
746-089	2ND BTR Present Output	245	77~921 (1bit=-6.515V)	(- 500V~- 6000V) Resistance Detection Calculation results x remote.
746-090	Plain paper S Control NVM1 (FC Side1)	4	0~6	0=Control -S-1 (FCside1 secondary transfer output for P paper) 1=Control -S-2 (FCside1 secondary transfer output for recycled paper) 2=Control -S-3 (FCside1 secondary transfer output for 4024 20lb) 3=Control -S-4 (FCside1 secondary transfer output for 4024 24lb) 4=Control -S-5 (FCside1 secondary transfer output for paper applicable to the 4 items described above) 5=Control -S-6 (FCside1 secondary transfer output based on the secondary transfer coefficient stored in the undisclosed NVM locations 746-304~355)
746-091	Plain paper S Control NVM1 (BW Side1)	0	0~1	0=Control -S-7 (For BW side 1 of Plain paper A~G) 1=Control -S-8 (For BW side 1 of paper applicable to the above)

Table 1 Chain 746

Chain-Link	Name	Default	Range	Description
746-092	Plain paper S Control NVM1 (FC Side2)	4	0~5	0=Control -S-9 (FCside2 secondary transfer output for P paper) 1=Control -S-10 (FCside2 secondary transfer output for recycle paper) 2=Control -S-11 (FCside2 secondary transfer output for 4024 20lb) 3=Control -S-12 (FCside2 secondary transfer output for of 4024 24lb) 4=Control -S-13 (FCside2 secondary transfer output for paper applicable to the 4 items described above) 5=Control -S-14 (FCside2 secondary transfer output based on the secondary transfer coefficient stored in the undisclosed NVM locations 746-356~407)
746-146	CoefficientA0 for Simp 4C Heavyweight paper 2S	100	0~6000	Coefficient A Number 0
746-147	CoefficientA1 for Simp 4C Heavyweight paper 2S	100	0~6000	Coefficient A Number 1
746-148	CoefficientA2 for Simp 4C Heavyweight paper 2S	100	0~6000	Coefficient A Number 2
746-149	CoefficientA3 for Simp 4C Heavyweight paper 2S	100	0~6000	Coefficient A Number 3
746-150	CoefficientA4 for Simp 4C Heavyweight paper 2S	100	0~6000	Coefficient A Number 4
746-151	CoefficientA5 for Simp 4C Heavyweight paper 2S	100	0~6000	Coefficient A Number 5
746-152	CoefficientA6 for Simp 4C Heavyweight paper 2S	100	0~6000	Coefficient A Number 6
746-153	CoefficientA7 for Simp 4C Heavyweight paper 2S	100	0~6000	Coefficient A Number 7
746-154	CoefficientA8 for Simp 4C Heavyweight paper 2S	100	0~6000	Coefficient A Number 8
746-155	CoefficientA9 for Simp 4C Heavyweight paper 2S	30	0~6000	Coefficient A Number 9
746-156	CoefficientB0 for Simp 4C Heavyweight paper 2S	1380	0~6000	Coefficient B Number 0
746-157	CoefficientB1 for Simp 4C Heavyweight paper 2S	1380	0~6000	Coefficient B Number 1
746-158	CoefficientB2 for Simp 4C Heavyweight paper 2S	1380	0~6000	Coefficient B Number 2
746-159	CoefficientB3 for Simp 4C Heavyweight paper 2S	1380	0~6000	Coefficient B Number 3
746-160	CoefficientB4 for Simp 4C Heavyweight paper 2S	1380	0~6000	Coefficient B Number 4
746-161	CoefficientB5 for Simp 4C Heavyweight paper 2S	1820	0~6000	Coefficient B Number 5
746-162	CoefficientB6 for Simp 4C Heavyweight paper 2S	1820	0~6000	Coefficient B Number 6
746-163	CoefficientB7 for Simp 4C Heavyweight paper 2S	1820	0~6000	Coefficient B Number 7
746-164	CoefficientB8 for Simp 4C Heavyweight paper 2S	1820	0~6000	Coefficient B Number 8

Table 1 Chain 746

Chain-Link	Name	Default	Range	Description
746-165	CoefficientB9 for Simp 4C Heavyweight paper 2S	2408	0~6000	Coefficient B Number 9
746-166	CoefficientD0 for Simp 4C Heavyweight paper 2S	10	0~6000	Coefficient D Number 0
746-167	CoefficientD1 for Simp 4C Heavyweight paper 2S	10	0~6000	Coefficient D Number 1
746-168	CoefficientD2 for Simp 4C Heavyweight paper 2S	10	0~6000	Coefficient D Number 2
746-169	CoefficientD3 for Simp 4C Heavyweight paper 2S	10	0~6000	Coefficient D Number 3
746-170	CoefficientD4 for Simp 4C Heavyweight paper 2S	10	0~6000	Coefficient D Number 4
746-171	CoefficientD5 for Simp 4C Heavyweight paper 2S	10	0~6000	Coefficient D Number 5
746-172	CoefficientD6 for Simp 4C Heavyweight paper 2S	10	0~6000	Coefficient D Number 6
746-173	CoefficientD7 for Simp 4C Heavyweight paper 2S	10	0~6000	Coefficient D Number 7
746-174	CoefficientD8 for Simp 4C Heavyweight paper 2S	10	0~6000	Coefficient D Number 8
746-175	CoefficientD9 for Simp 4C Heavyweight paper 2S	10	0~6000	Coefficient D Number 9
746-176	CoefficientE0 for Simp 4C Heavyweight paper 2S	2536	0~6000	Coefficient E Number 0
746-177	CoefficientE1 for Simp 4C Heavyweight paper 2S	2536	0~6000	Coefficient E Number 1
746-178	CoefficientE2 for Simp 4C Heavyweight paper 2S	2536	0~6000	Coefficient E Number 2
746-179	CoefficientE3 for Simp 4C Heavyweight paper 2S	2536	0~6000	Coefficient E Number 3
746-180	CoefficientE4 for Simp 4C Heavyweight paper 2S	2536	0~6000	Coefficient E Number 4
746-181	CoefficientE5 for Simp 4C Heavyweight paper 2S	2536	0~6000	Coefficient E Number 5
746-182	CoefficientE6 for Simp 4C Heavyweight paper 2S	2536	0~6000	Coefficient E Number 6
746-183	CoefficientE7 for Simp 4C Heavyweight paper 2S	2536	0~6000	Coefficient E Number 7
746-184	CoefficientE8 for Simp 4C Heavyweight paper 2S	2536	0~6000	Coefficient E Number 8
746-185	CoefficientE9 for Simp 4C Heavyweight paper 2S	2536	0~6000	Coefficient E Number 9
746-186	CoefficientG0 for Simp 4C Heavyweight paper 2S	2836	0~6000	Coefficient G Number 0

Table 1 Chain 746

Chain-Link	Name	Default	Range	Description
746-187	CoefficientG1 for Simp 4C Heavyweight paper 2S	2836	0~6000	Coefficient G Number 1
746-188	CoefficientG2 for Simp 4C Heavyweight paper 2S	2836	0~6000	Coefficient G Number 2
746-189	CoefficientG3 for Simp 4C Heavyweight paper 2S	2836	0~6000	Coefficient G Number 3
746-190	CoefficientG4 for Simp 4C Heavyweight paper 2S	2836	0~6000	Coefficient G Number 4
746-191	CoefficientG5 for Simp 4C Heavyweight paper 2S	2836	0~6000	Coefficient G Number 5
746-192	CoefficientG6 for Simp 4C Heavyweight paper 2S	2836	0~6000	Coefficient G Number 6
746-193	CoefficientG7 for Simp 4C Heavyweight paper 2S	2836	0~6000	Coefficient G Number 7
746-194	CoefficientG8 for Simp 4C Heavyweight paper 2S	2836	0~6000	Coefficient G Number 8
746-195	CoefficientG9 for Simp 4C Heavyweight paper 2S	2836	0~6000	Coefficient G Number 9
746-196	CoefficientC for Simp 4C Heavyweight paper 2S	84	0~6000	Coefficient C
746-197	CoefficientF for Simp 4C Heavyweight paper 2S	300	0~6000	Coefficient F
746-408	Output Remote for DTS normal-speed Side1	100	0~100 (1bit=1%)	Displays the multiplication value for DTS output adjustment
746-409	Output Remote for DTS normal-speed Side2	0	0~100 (1bit=1%)	Displays the multiplication value for DTS output adjustment
746-410	Output Remote for DTS half-speed Side1	0	0~100 (1bit=1%)	Displays the multiplication value for DTS output adjustment
746-411	Output Remote for DTS half-speed Side2	0	0~100 (1bit=1%)	Displays the multiplication value for DTS output adjustment
746-412	Output Remote for DTS 194-speed Side1	100	0~100 (1bit=1%)	Displays the multiplication value for DTS output adjustment
746-413	Output Remote for DTS 194-speed Side2	0	0~100 (1bit=1%)	Displays the multiplication value for DTS output adjustment
746-423	Toner Band Width (in process direction)	3	0~47 (1bit=1mm)	For adjustment of Toner Band Width in process direction
746-424	Toner Band Width (in axial direction)	137	0~137	For adjustment of Toner Band Width in axial direction (1bit=1mm)
746-425	Toner Band Density	60	10~100	For adjustment of Toner Band Density (1bit=1%)
746-959	2nd Cln Minus Bias Output (for Environment no.0, 1, 2, 3)	92	77~921	For 2ND BTR Cleaning Bias setup for each environment (1bit=-6.515V)
746-960	2nd Cln Minus Bias Output (for Environment no.4)	92	77~921	For 2ND BTR Cleaning Bias setup for each environment (1bit=-6.515V)
746-961	2nd Cln Minus Bias Output (for Environment no.5, 6)	92	77~921	For 2ND BTR Cleaning Bias setup for each environment (1bit=-6.515V)

Table 1 Chain 746

Chain-Link	Name	Default	Range	Description
746-962	2nd Cln Minus Bias Output (for Environment no.7, 8, 9)	92	77~921	For 2ND BTR Cleaning Bias setup for each environment (1bit=-6.515V)
746-963	Y offset distance	16	0~16	Distance between Drum contact and 1ST BTR (0ms~39ms - 1bit=1 msec.)
746-964	M offset distance	16	0~16	Distance between Drum contact and 1ST BTR (0ms~39ms - 1bit=1 msec.)
746-965	C offset distance	16	0~16	Distance between Drum contact and 1ST BTR (0ms~39ms - 1bit=1 msec.)
746-966	K offset distance	16	0~16	Distance between Drum contact and 1ST BTR (0ms~39ms - 1bit=1 msec.)
746-967	1st BTR Vmonitor Y	36	4~178	Displays the voltage at primary transfer resistance detection (100~5000V - 1bit=28.01V)
746-968	1st BTR Vmonitor M	36	4~178	Displays the voltage at primary transfer resistance detection (100~5000V - 1bit=28.01V)
746-969	1st BTR Vmonitor C	36	4~178	Displays the voltage at primary transfer resistance detection (100~5000V - 1bit=28.01V)
746-970	1st BTR Vmonitor K	36	4~178	Displays the voltage at primary transfer resistance detection (100~5000V - 1bit=28.01V)
746-971	Remote for Plain paper A ~D, F Normal speed BW Side1	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of Plain paper A ~D, F 104mmsec side1 BW. Displays the multiplication value in secondary transfer resistance calculation result of 746-006.
746-972	Remote for Plain paper A ~D, F twice speed BW Side1	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of Plain paper A ~D, F 194mmsec side1 BW. Displays the multiplication value in secondary transfer resistance calculation result of 746-006.
746-973	Remote for Plain paper A ~D, F Normal speed BW Side2	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of Plain paper A ~D, F 104mmsec side2 BW. Displays the multiplication value in secondary transfer resistance calculation result of 746-006.
746-974	Remote for Plain paper A ~D, F twice speed BW Side2	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of Plain paper A ~D, F 194mmsec side2 BW. Displays the multiplication value in secondary transfer resistance calculation result of 746-006.
746-975	Remote for Plain paper S Normal speed BW Side1	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of Plain paper S 104mmsec side1 BW. Displays the multiplication value in secondary transfer resistance calculation result of 746-006.
746-976	Remote for Plain paper S 194 speed BW Side1	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of Plain paper S 194mmsec side1 BW. Displays the multiplication value in secondary transfer resistance calculation result of 746-006.
746-977	Remote for Plain paper S Normal speed BW Side2	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of Plain paper S 104mmsec side2 BW. Displays the multiplication value in secondary transfer resistance calculation result of 746-006.
746-978	Remote for Plain paper S 194 speed BW Side2	100	0~200 (1bit=1%)	For Secondary Transfer output adjustment of Plain paper S 194mmsec side2 BW. Displays the multiplication value in secondary transfer resistance calculation result of 746-006.
746-979	Delay Time for 1st BTR Home Positioning	300	0~6000 (1bit=0.1 sec.)	Delay Time 0~10min
746-980	Selection Heavy Weight paper1	0	0~1	0=Secondary Transfer Voltage for Heavy Weight Paper 1. 1=Secondary Transfer Voltage for Heavy Weight Coated Paper 1
746-981	Selection Heavy Weight paper2	0	0~1	0=Secondary Transfer Voltage for Heavy Weight Paper 2. 1=Secondary Transfer Voltage for Heavy Weight Coated Paper 2
746-982	Remote for high resistance normal speed FC	115	100~115	Applicable when 2nd Transfer System resistance is 746-987.ex) 2nd Transfer Result of resistance detection calculation 746-60746-982=2nd Transfer output voltage
746-983	Remote for high resistance half speed FC	100	100~115	Applicable when 2nd Transfer System resistance is 746-987.ex) 2nd Transfer Result of resistance detection calculation 746-60746-982=2nd Transfer output voltage
746-984	Remote for high resistance 194 speed FC	100	100~115	Applicable when 2nd Transfer System resistance is 746-987.ex) 2nd Transfer Result of resistance detection calculation 746-60746-982=2nd Transfer output voltage
746-985	Remote for high resistance normal speed B/W	100	100~115	Applicable when 2nd Transfer System resistance is 746-987.ex) 2nd Transfer Result of resistance detection calculation 746-60746-982=2nd Transfer output voltage
746-986	Remote for high resistance half speed B/W	100	100~115	Applicable when 2nd Transfer System resistance is 746-987.ex) 2nd Transfer Result of resistance detection calculation 746-60746-982=2nd Transfer output voltage
746-987	high resistance threshold	225	0~255	2nd Transfer resistance when 1000V is applied.For System resistance of this value or larger, 746-982 to 987 Remote shall be applicable.

Table 1 Chain 747

Chain-Link	Name	Default	Range	Description
747-417	DTS Present Output	818	0~818	Display Environment * Remote (3.666V/bit)
747-418	Remote for resistance -194mm/sec-speed FC	100	100~255	Available when 2nd transfer system resistance is 746-955.Ex.2nd transfer resistance detection calculation result x 746-067 x 746-955=2nd Transfer Output Voltage (v)
747-419	1st BTR Remote/194mm/sec-speed/ FC/ Y	100	0~357	For 1st transfer output adjustment for Y. Multiply by (1st transfer current in 746-020)/100.Ex. In case of 157: 1st transfer current=14A x 1.57=22A
747-420	1st BTR Remote/194mm/sec-speed/FC/ M	100	0~357	For 1st transfer output adjustment for M. Multiply by (1st transfer current in 746-020)/100.Ex. In case of 157: 1st transfer current=14A x 1.57=22A
747-421	1st BTR Remote/194mm/sec-speed/FC/ C	100	0~357	For 1st transfer output adjustment for C. Multiply by (1st transfer current in 746-020)/100.Ex. In case of 157: 1st transfer current=14A x 1.57=22A
747-422	1st BTR Remote/194mm/sec-speed/FC / K	100	0~357	For 1st transfer output adjustment for C. Multiply by (1st transfer current in 746-020)/100.Ex. In case of 157: 1st transfer current=14A x 1.57=22A
747-425	1st Output M	112	31~255	For Component Control M (1 bit=0.196A)
747-426	1st Output C	112	31~255	For Component Control M (1 bit=0.196A)
747-427	Environment establishment for toner band	9	0~9	1: To generate for selected Environment NO.1 or less2:To generate for selected Environment NO.2 or less3:To generate for selected Environment NO.3 or less4:To generate for selected Environment NO.4 or less5:To generate for selected Environment NO.5 or less6:To generate for selected Environment NO.6 or less7:To generate for selected Environment NO.7 or less8:To generate for selected Environment NO.8 or less9:To generate for selected Environment NO.9 or less
747-428	2nd BTR Output Remote/ 194mm/sec-speed/ FC/ Side 1/ Plain Paper A	100	0~200	For adjustment of 2nd Transfer output with 165mm/sec. Plain paperA Side1.Value to multiply the result of 746-006 2nd Transfer resistance calculation is displayed.Ex.: In case of 100: 2nd Transfer voltage = 245-4.8881.0=-1200VEx.: In case of 150: 2nd Transfer voltage = 245-4.8881.5=-1800V
747-429	2nd BTR Output Remote/ 194mm/sec-speed/ FC/ Side 1/ Plain Paper B	100	0~200	For adjustment of 2nd Transfer output with 165mm/sec. Plain paperB Side1.Value to multiply the result of 746-006 2nd Transfer resistance calculation is displayed.Ex.: In case of 100: 2nd Transfer voltage = 245-4.8881.0=-1200VEx.: In case of 150: 2nd Transfer voltage = 245-4.8881.5=-1800V
747-430	2nd BTR Output Remote/ 194mm/sec-speed/ FC/ Side 1/ Plain Paper C	100	0~200	For adjustment of 2nd Transfer output with 165mm/sec. Plain paperC Side1.Value to multiply the result of 746-006 2nd Transfer resistance calculation is displayed.Ex.: In case of 100: 2nd Transfer voltage = 245-4.8881.0=-1200VEx.: In case of 150: 2nd Transfer voltage = 245-4.8881.5=-1800V
747-431	2nd BTR Output Remote/ 194mm/sec-speed/ FC/Side1/Plain Paper D/E	100	0~200	For adjustment of 2nd Transfer output with 165mm/sec. Plain paperD/E Side1.Value to multiply the result of 746-006 2nd Transfer resistance calculation is displayed.Ex.: In case of 100: 2nd Transfer voltage = 245-4.8881.0=-1200VEx.: In case of 150: 2nd Transfer voltage = 245-4.8881.5=-1800V
747-432	2nd BTR Output Remote/ 194mm/sec-speed/ FC/Side1/Plain Paper F/G	100	0~200	For adjustment of 2nd Transfer output with 165mm/sec. Plain paperF/G Side1.Value to multiply the result of 746-006 2nd Transfer resistance calculation is displayed.Ex.: In case of 100: 2nd Transfer voltage = 245-4.8881.0=-1200VEx.: In case of 150: 2nd Transfer voltage = 245-4.8881.5=-1800V
747-433	2nd BTR Output Remote/ 194mm/sec-speed/ FC/ Side1/Plain Paper S	100	0~200	For adjustment of 2nd Transfer output with 165mm/sec. Plain paperS Side1.Value to multiply the result of 746-006 2nd Transfer resistance calculation is displayed.Ex.: In case of 100: 2nd Transfer voltage = 245-4.8881.0=-1200VEx.: In case of 150: 2nd Transfer voltage = 245-4.8881.5=-1800V
747-434	2nd BTR Output Remote/ 194mm/sec-speed/ FC/ Side1/thin paper	100	0~200	For adjustment of 2nd Transfer output with 165mm/sec. Thin paper Side1.Value to multiply the result of 746-006 2nd Transfer resistance calculation is displayed.Ex.: In case of 100: 2nd Transfer voltage = 245-4.8881.0=-1200VEx.: In case of 150: 2nd Transfer voltage = 245-4.8881.5=-1800V
747-435	2nd BTR Output Remote/ 194mm/sec-speed/ FC/ Side2/Plain Paper A	100	0~200	For adjustment of 2nd Transfer output with 165mm/sec. Plain paperA Side2.Value to multiply the result of 746-006 2nd Transfer resistance calculation is displayed.Ex.: In case of 100: 2nd Transfer voltage = 245-4.8881.0=-1200VEx.: In case of 150: 2nd Transfer voltage = 245-4.8881.5=-1800V

Table 1 Chain 747

Chain-Link	Name	Default	Range	Description
747-436	2nd BTR Output Remote/ 194mm/sec-speed/ FC/ Side2/Plain Paper B	100	0~200	For adjustment of 2nd Transfer output with 165mm/sec. Plain paperB Side2.Value to multiply the result of 746-6 2nd Transfer resistance calculation is displayed.Ex.: In case of 100: 2nd Transfer voltage = 245-4.8881.0=-1200VEx.: In case of 150: 2nd Transfer voltage = 245-4.8881.5=-1800V
747-437	2nd BTR Output Remote/ 194mm/sec-speed/ FC/ Side2/Plain Paper c	100	0~200	For adjustment of 2nd Transfer output with 165mm/sec. Plain paperC Side2.Value to multiply the result of 746-006 2nd Transfer resistance calculation is displayed.Ex.: In case of 100: 2nd Transfer voltage = 245-4.8881.0=-1200VEx.: In case of 150: 2nd Transfer voltage = 245-4.8881.5=-1800V
747-438	2nd BTR Output Remote/ 194mm/sec-speed/ FC/Side2/Plain Paper D/E	100	0~200	For adjustment of 2nd Transfer output with 165mm/sec. Plain paperD/E Side2.Value to multiply the result of 746-006 2nd Transfer resistance calculation is displayed.Ex.: In case of 100: 2nd Transfer voltage = 245-4.8881.0=-1200VEx.: In case of 150: 2nd Transfer voltage = 245-4.8881.5=-1800V
747-439	2nd BTR Output Remote/ 194mm/sec-speed/ FC/Side2/Plain Paper F/G	100	0~200	For adjustment of 2nd Transfer output with 165mm/sec. Plain paperF/G Side2.Value to multiply the result of 746-006 2nd Transfer resistance calculation is displayed.Ex.: In case of 100: 2nd Transfer voltage = 245-4.8881.0=-1200VEx.: In case of 150: 2nd Transfer voltage = 245-4.8881.5=-1800V
747-440	2nd BTR Output Remote/ 194mm/sec-speed/ FC/ Side2/Plain Paper S	100	0~200	For adjustment of 2nd Transfer output with 165mm/sec. Plain paperS Side2.Value to multiply the result of 746-006 2nd Transfer resistance calculation is displayed.Ex.: In case of 100: 2nd Transfer voltage = 245-4.8881.0=-1200VEx.: In case of 150: 2nd Transfer voltage = 245-4.8881.5=-1800V
747-441	2nd BTR Output Remote/normal speed/ Side1/Heavy paper 1B	100	0~200	For adjustment of 2nd Transfer output with Heavyweight paper1B Side1.Value to multiply the result of 746-6 2nd Transfer voltage calculation is displayed.Ex.: In case of 100: V=(746-6)*-6.515*1.0= 1200VEx.: In case of 150: V=(746-6)*-6.515*1.5= 1800V
747-442	2nd BTR Output Remote/normal speed/ Side1/Heavy paper 1S	100	0~200	For adjustment of 2nd Transfer output with Heavyweight paper1S Side1.Value to multiply the result of 746-6 2nd Transfer voltage calculation is displayed.Ex.: In case of 100: V=(746-6)*-6.515*1.0= 1200VEx.: In case of 150: V=(746-6)*-6.515*1.5= 1800V
747-443	2nd BTR Output Remote/low speed/ Side1/Heavy paper 1B	100	0~200	For adjustment of 2nd Transfer output with Heavyweight paper2B Side1.Value to multiply the result of 746-6 2nd Transfer voltage calculation is displayed.Ex.: In case of 100: V=(746-6)*-6.515*1.0= 1200VEx.: In case of 150: V=(746-6)*-6.515*1.5= 1800V
747-444	2nd BTR Output Remote/low speed/ Side1/Heavy paper 2S	100	0~200	For adjustment of 2nd Transfer output with Heavyweight paper1S Side1.Value to multiply the result of 746-6 2nd Transfer voltage calculation is displayed.Ex.: In case of 100: V=(746-6)*-6.515*1.0= 1200VEx.: In case of 150: V=(746-6)*-6.515*1.5= 1800V
747-445	2nd BTR Output Remote/normal speed/ Side2/Heavy paper 1B	100	0~200	For adjustment of 2nd Transfer output with Heavyweight paper1B Side2.Value to multiply the result of 746-6 2nd Transfer voltage calculation is displayed.Ex.: In case of 100: V=(746-6)*-6.515*1.0= 1200VEx.: In case of 150: V=(746-6)*-6.515*1.5= 1800V
747-446	2nd BTR Output Remote/normal speed/ Side2/Heavy paper 1S	100	0~200	For adjustment of 2nd Transfer output with Heavyweight paper1S Side2.Value to multiply the result of 746-6 2nd Transfer voltage calculation is displayed.Ex.: In case of 100: V=(746-6)*-6.515*1.0= 1200VEx.: In case of 150: V=(746-6)*-6.515*1.5= 1800V
747-447	2nd BTR Output Remote/low speed/ Side2/Heavy paper 2B	100	0~200	For adjustment of 2nd Transfer output with Heavyweight paper2B Side2.Value to multiply the result of 746-6 2nd Transfer voltage calculation is displayed.Ex.: In case of 100: V=(746-6)*-6.515*1.0= 1200VEx.: In case of 150: V=(746-6)*-6.515*1.5= 1800V
747-448	2nd BTR Output Remote/low speed/ Side2/Heavy paper 2S	100	0~200	For adjustment of 2nd Transfer output with Heavyweight paper2S Side2.Value to multiply the result of 746-6 2nd Transfer voltage calculation is displayed.Ex.: In case of 100: V=(746-6)*-6.515*1.0= 1200VEx.: In case of 150: V=(746-6)*-6.515*1.5= 1800V
747-449	2nd BTR Output Remote/normal speed/ Side1/Heavy paper 1C	100	0~200	For adjustment of 2nd Transfer output with Heavyweight paper1C Side1.Value to multiply the result of 746-6 2nd Transfer voltage calculation is displayed.Ex.: In case of 100: V=(746-6)*-6.515*1.0= 1200VEx.: In case of 150: V=(746-6)*-6.515*1.5= 1800V
747-450	2nd BTR Output Remote/low speed/ Side1/Heavy paper 2C	100	0~200	For adjustment of 2nd Transfer output with Heavyweight paper2C Side1.Value to multiply the result of 746-6 2nd Transfer voltage calculation is displayed.Ex.: In case of 100: V=(746-6)*-6.515*1.0= 1200VEx.: In case of 150: V=(746-6)*-6.515*1.5= 1800V

Table 1 Chain 747

Chain-Link	Name	Default	Range	Description
747-451	2nd BTR Output Remote/low speed/ Side1/Heavy paper 2D	100	0~200	For adjustment of 2nd Transfer output with Heavyweight paper2D Side1.Value to multiply the result of 746-6 2nd Transfer voltage calculation is displayed.Ex.: In case of 100: V=(746-6)*-6.515*1.0= 1200VEx.: In case of 150: V=(746-6)*-6.515*1.5= 1800V
747-452	2nd BTR Output Remote/normal speed/ Side2/Heavy paper 1C	100	0~200	For adjustment of 2nd Transfer output with Heavyweight paper1C Side2.Value to multiply the result of 746-6 2nd Transfer voltage calculation is displayed.Ex.: In case of 100: V=(746-6)*-6.515*1.0= 1200VEx.: In case of 150: V=(746-6)*-6.515*1.5= 1800V
747-453	2nd BTR Output Remote/low speed/ Side1/Heavy coated paper1	100	0~200	For adjustment of 2nd Transfer output with Heavy coated paper Side1.Value to multiply the result of 746-6 2nd Transfer voltage calculation is displayed.Ex.: In case of 100: V=(746-6)*-6.515*1.0= 1200VEx.: In case of 150: V=(746-6)*-6.515*1.5= 1800V
747-454	2nd BTR Output Remote/low speed/ Side2/Heavy coated paper1	100	0~200	For adjustment of 2nd Transfer output with Heavy coated paper Side2.Value to multiply the result of 746-6 2nd Transfer voltage calculation is displayed.Ex.: In case of 100: V=(746-6)*-6.515*1.0= 1200VEx.: In case of 150: V=(746-6)*-6.515*1.5= 1800V
747-455	Low speed 1st Transfer FC K ECC #6	500	0~3570	Environment Control Coefficient of 1st transfer output for K Ex.: In case of 1000: A=((value in 746-020)+(value in 746-303))x(value in 746-028)x 1.0 Ex: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-028)1.5
747-456	Low speed 1st Transfer FC K ECC #7	500	0~3570	Environment Control Coefficient of 1st transfer output for K Ex.: In case of 1000: A=((value in 746-020)+(value in 746-303))x(value in 746-028)x 1.0 Ex: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-028)1.5
747-457	Low speed 1st Transfer FC K ECC #8	500	0~3570	Environment Control Coefficient of 1st transfer output for K Ex.: In case of 1000: A=((value in 746-020)+(value in 746-303))x(value in 746-028)x 1.0 Ex: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-028)1.5
747-458	Low speed 1st Transfer FC K ECC #9	500	0~3570	Environment Control Coefficient of 1st transfer output for K Ex.: In case of 1000: A=((value in 746-020)+(value in 746-303))x(value in 746-028)x 1.0 Ex: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-028)1.5
747-459	194mm/sec-speed 1st Transfer B/W K ECC #1	2000	0~35700	Environment Control Coefficient of 1st transfer output for K Ex.: In case of 1000: A=((value in 746-020)+(value in 746-303))x(value in 746-028)x 1.0 Ex: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-028)1.5
747-460	194mm/sec-speed 1st Transfer B/W K ECC #2	2214	0~3570	Environment Control Coefficient of 1st transfer output for K Ex.: In case of 1000: A=((value in 746-020)+(value in 746-303))x(value in 746-029)x 1.0 Ex: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-029)1.5
747-461	194mm/sec-speed 1st Transfer B/W K ECC #3	2214	0~3570	Environment Control Coefficient of 1st transfer output for K Ex.: In case of 1000: A=((value in 746-020)+(value in 746-303))x(value in 746-029)x 1.0 Ex: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-029)1.5
747-462	194mm/sec-speed 1st Transfer B/W K ECC #4	2071	0~3570	Environment Control Coefficient of 1st transfer output for K Ex.: In case of 1000: A=((value in 746-020)+(value in 746-303))x(value in 746-029)x 1.0 Ex: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-029)1.5
747-463	194mm/sec-speed 1st Transfer B/W K ECC #5	2071	0~3570	Environment Control Coefficient of 1st transfer output for K Ex.: In case of 1000: A=((value in 746-020)+(value in 746-303))x(value in 746-029)x 1.0 Ex: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-029)1.5
747-464	194mm/sec-speed 1st Transfer B/W K ECC #6	2071	0~3570	Environment Control Coefficient of 1st transfer output for K Ex.: In case of 1000: A=((value in 746-020)+(value in 746-303))x(value in 746-029)x 1.0 Ex: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-029)1.5
747-465	194mm/sec-speed 1st Transfer B/W K ECC #7	2071	0~3570	Environment Control Coefficient of 1st transfer output for K Ex.: In case of 1000: A=((value in 746-020)+(value in 746-303))x(value in 746-029)x 1.0 Ex: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-029)1.5

Table 1 Chain 747

Chain-Link	Name	Default	Range	Description
747-466	194mm/sec-speed 1st Transfer B/W K ECC #8	2643	0~3570	Environment Control Coefficient of 1st transfer output for K Ex.: In case of 1000: A=((value in 746-020)+(value in 746-303))x(value in 746-029)x 1.0 Ex: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-029)1.5
747-467	194mm/sec-speed 1st Transfer B/W K ECC #9	2643	0~3570	Environment Control Coefficient of 1st transfer output for K Ex.: In case of 1000: A=((value in 746-020)+(value in 746-303))x(value in 746-029)x 1.0 Ex: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-029)1.5
747-468	Normal speed 1st Transfer B/W K ECC #1	1143	0~3570	Environment Control Coefficient of 1st transfer output for K Ex.: In case of 1000: A=((value in 746-020)+(value in 746-303))x(value in 746-030)x 1.0 Ex: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-030)1.5
747-469	Normal speed 1st Transfer B/W K ECC #2	1143	0~3570	Environment Control Coefficient of 1st transfer output for K Ex.: In case of 1000: A=((value in 746-020)+(value in 746-303))x(value in 746-030)x 1.0 Ex: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-030)1.5
747-470	Normal speed 1st Transfer B/W K ECC #3	1143	0~3570	Environment Control Coefficient of 1st transfer output for K Ex.: In case of 1000: A=((value in 746-020)+(value in 746-303))x(value in 746-030)x 1.0 Ex: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-030)1.5
747-471	Normal speed 1st Transfer B/W K ECC #4	1071	0~3570	Environment Control Coefficient of 1st transfer output for K Ex.: In case of 1000: A=((value in 746-020)+(value in 746-303))x(value in 746-030)x 1.0 Ex: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-030)1.5
747-472	Normal speed 1st Transfer B/W K ECC #5	1071	0~3570	Environment Control Coefficient of 1st transfer output for K Ex.: In case of 1000: A=((value in 746-020)+(value in 746-303))x(value in 746-030)x 1.0 Ex: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-030)1.5
747-473	Normal speed 1st Transfer B/W K ECC #6	1071	0~3570	Environment Control Coefficient of 1st transfer output for K Ex.: In case of 1000: A=((value in 746-020)+(value in 746-303))x(value in 746-030)x 1.0 Ex: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-030)1.5
747-474	Normal speed 1st Transfer B/W K ECC #7	1071	0~3570	Environment Control Coefficient of 1st transfer output for K Ex.: In case of 1000: A=((value in 746-020)+(value in 746-303))x(value in 746-030)x 1.0 Ex: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-030)1.5
747-475	Normal speed 1st Transfer B/W K ECC #8	1357	0~35700	Environment Control Coefficient of 1st transfer output for K Ex.: In case of 1000: A=((value in 746-020)+(value in 746-303))x(value in 746-030)x 1.0 Ex: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-030)1.5
747-476	Normal speed 1st Transfer B/W K ECC #9	1357	0~3570	Environment Control Coefficient of 1st transfer output for K Ex.: In case of 1000: A=((value in 746-020)+(value in 746-303))x(value in 746-030)x 1.0 Ex: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-030)1.5
747-477	Low speed 1st Transfer B/W K ECC #1	500	0~3570	Environment Control Coefficient of 1st transfer output for K Ex.: In case of 1000: A=((value in 746-020)+(value in 746-303))x(value in 746-031)x 1.0 Ex: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-031)1.5
747-478	Low speed 1st Transfer B/W K ECC #2	500	0~3570	Environment Control Coefficient of 1st transfer output for K Ex.: In case of 1000: A=((value in 746-020)+(value in 746-303))x(value in 746-031)x 1.0 Ex: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-031)1.5
747-479	Low speed 1st Transfer B/W K ECC #3	500	0~3570	Environment Control Coefficient of 1st transfer output for K Ex.: In case of 1000: A=((value in 746-020)+(value in 746-303))x(value in 746-031)x 1.0 Ex: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-031)1.5
747-480	Low speed 1st Transfer B/W K ECC #4	500	0~3570	Environment Control Coefficient of 1st transfer output for K Ex.: In case of 1000: A=((value in 746-020)+(value in 746-303))x(value in 746-031)x 1.0 Ex: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-031)1.5

Table 1 Chain 747

Chain-Link	Name	Default	Range	Description
747-481	Low speed 1st Transfer B/W K ECC #5	500	0~3570	Environment Control Coefficient of 1st transfer output for K Ex.: In case of 1000: A=((value in 746-020)+(value in 746-303))x(value in 746-031)x 1.0 Ex: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-031)1.5
747-482	Low speed 1st Transfer B/W K ECC #6	500	0~3570	Environment Control Coefficient of 1st transfer output for K Ex.: In case of 1000: A=((value in 746-020)+(value in 746-303))x(value in 746-031)x 1.0 Ex: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-031)1.5
747-483	Low speed 1st Transfer B/W K ECC #7	500	0~2000	Environment Control Coefficient of 1st transfer output for K Ex.: In case of 1000: A=((value in 746-020)+(value in 746-303))x(value in 746-031)x 1.0 Ex: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-031)1.5
747-484	Low speed 1st Transfer B/W K ECC #8	500	0~2000	Environment Control Coefficient of 1st transfer output for K Ex.: In case of 1000: A=((value in 746-020)+(value in 746-303))x(value in 746-031)x 1.0 Ex: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-031)1.5
747-485	Low speed 1st Transfer B/W K ECC #9	500	0~2000	Environment Control Coefficient of 1st transfer output for K Ex.: In case of 1000: A=((value in 746-020)+(value in 746-303))x(value in 746-031)x 1.0 Ex: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-031)1.5
747-490	208mm/sec. 1st Transfer BW K Environment Control CoefficientNO.1 Side1	2357	0~3750	Environment Correction Coefficient for 1st Transfer output with K colorEx.: In case of 1000: A=((value in 746-020)+(value in (746-303))(value in 746-029)1.0Ex.: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-029)1.5
747-491	208mm/sec. 1st Transfer BW K Environment Control CoefficientNO.2 Side1	2357	0~3750	Environment Correction Coefficient for 1st Transfer output with K colorEx.: In case of 1000: A=((value in 746-020)+(value in (746-303))(value in 746-029)1.0Ex.: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-029)1.5
747-492	208mm/sec. 1st Transfer BW K Environment Control CoefficientNO.3 Side1	2357	0~3750	Environment Correction Coefficient for 1st Transfer output with K colorEx.: In case of 1000: A=((value in 746-020)+(value in (746-303))(value in 746-029)1.0Ex.: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-029)1.5
747-493	208mm/sec. 1st Transfer BW K Environment Control CoefficientNO.4 Side1	2143	0~3750	Environment Correction Coefficient for 1st Transfer output with K colorEx.: In case of 1000: A=((value in 746-020)+(value in (746-303))(value in 746-029)1.0Ex.: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-029)1.5
747-494	208mm/sec. 1st Transfer BW K Environment Control CoefficientNO.5 Side1	2143	0~3750	Environment Correction Coefficient for 1st Transfer output with K colorEx.: In case of 1000: A=((value in 746-020)+(value in (746-303))(value in 746-029)1.0Ex.: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-029)1.5
747-495	208mm/sec. 1st Transfer BW K Environment Control CoefficientNO.6 Side1	2143	0~3750	Environment Correction Coefficient for 1st Transfer output with K colorEx.: In case of 1000: A=((value in 746-020)+(value in (746-303))(value in 746-029)1.0Ex.: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-029)1.5
747-496	208mm/sec. 1st Transfer BW K Environment Control CoefficientNO.7 Side1	2143	0~3750	Environment Correction Coefficient for 1st Transfer output with K colorEx.: In case of 1000: A=((value in 746-020)+(value in (746-303))(value in 746-029)1.0Ex.: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-029)1.5
747-497	208mm/sec. 1st Transfer BW K Environment Control CoefficientNO.8 Side1	2857	0~3750	Environment Correction Coefficient for 1st Transfer output with K colorEx.: In case of 1000: A=((value in 746-020)+(value in (746-303))(value in 746-029)1.0Ex.: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-029)1.5
747-498	208mm/sec. 1st Transfer BW K Environment Control CoefficientNO.9 Side1	2857	0~3750	Environment Correction Coefficient for 1st Transfer output with K colorEx.: In case of 1000: A=((value in 746-020)+(value in (746-303))(value in 746-029)1.0Ex.: In case of 1500: A=((value in 746-020)+(value in 746-303))(value in 746-029)1.5
747-499	1ST BTR Output remote for BW K Side1at 208mm/sec.	100	0~255	For adjustment of 1st Transfer output with K color Side1 BW 208 msec.Value to multiply 1st Transfer current of 746-20 is displayed.Ex: In case of 200: Current for 1st Transfer = 14A2.0=28AEx: In case of 157: Current for 1st Transfer = 14A1.57=22A

Table 1 Chain 747

Chain-Link	Name	Default	Range	Description
747-500	Output remote for DTS 208mm/sec. Side1	100	0~100	Value to multiply for DTS output adjustment is displayed.Ex: In case of 100: DTS voltage=30001.0=3000VEx: In case of 0: DTS voltage=30000=-0V
747-501	Output remote for DTS 208mm/sec. Side2	0	0~100	Value to multiply for DTS output adjustment is displayed.Ex: In case of 100: DTS voltage=30001.0=3000VEX: 5 In case of 0: DTS voltage=30000.5=1500V
747-502	Remote for Plain paperA - G BW Side1 at 208mm/sec.	100	0~200	For adjustment of 2nd Transfer output with Plain paperA - G, 194mmsec, Side1, BW.Value to multiply the calculation result of 2nd Transfer resistance of 746-6 is displayed.Ex: In case of 100: 2nd Transfer voltage =2456.5151.0=1596VEx: In case of 150: 2nd Transfer voltage =2456.5151.5=2394V
747-503	Remote for Plain paperA - G BW Side2 at 208mm/sec.	100	0~200	For adjustment of 2nd Transfer output with Plain paperA - G, 194mmsec, Side2, BW.Value to multiply the calculation result of 2nd Transfer resistance of 746-6 is displayed.Ex: In case of 100: 2nd Transfer voltage =2456.5151.0=1596VEx: In case of 150: 2nd Transfer voltage =2456.5151.5=2394V
747-504	Remote for Plain paperS BW Side1 at 208mm/sec.	100	0~200	For adjustment of 2nd Transfer output with Plain paperS, 194mmsec, Side1, BW.Value to multiply the calculation result of 2nd Transfer resistance of 746-6 is displayed.Ex: In case of 100: 2nd Transfer voltage =2456.5151.0=1596VEx: In case of 150: 2nd Transfer voltage =2456.5151.5=2394V
747-505	Remote for Plain paperS BW Side2 at 208mm/sec.	100	0~200	For adjustment of 2nd Transfer output with Plain paperS, 194mmsec, Side2, BW.Value to multiply the calculation result of 2nd Transfer resistance of 746-6 is displayed.Ex: In case of 100: 2nd Transfer voltage =2456.5151.0=1596VEx: In case of 150: 2nd Transfer voltage =2456.5151.5=2394V
747-509	1ST BTR Output remote for 104mm/sec. FC Y Side2	100	0~200	For adjustment of 1st Transfer output with Y color, FC, 104mmsec, Side2. Value to multiply 1st Transfer current of 746-17 is displayed.Ex: In case of 100:Current for 1st Transfer =14A1.0=14AEx: In case of 86:Current for 1st Transfer =14A0.86=12A
747-510	1ST BTR Output remote for 104mm/sec. FC m Side2	100	0~200	For adjustment of 1st Transfer output with M color, FC, 104mmsec, Side2. Value to multiply 1st Transfer current of 746-17 is displayed.Ex: In case of 100:Current for 1st Transfer =14A1.0=14AEx: In case of 86:Current for 1st Transfer =14A0.86=12A
747-511	1ST BTR Output remote for 104mm/sec. FC C Side2	100	0~200	For adjustment of 1st Transfer output with C color, FC, 104mmsec, Side2. Value to multiply 1st Transfer current of 746-17 is displayed.Ex: In case of 100:Current for 1st Transfer =14A1.0=14AEx: In case of 86:Current for 1st Transfer =14A0.86=12A
747-512	1ST BTR Output remote for 104mm/sec. FC K Side2	100	0~200	For adjustment of 1st Transfer output with K color, FC, 104mmsec, Side2. Value to multiply 1st Transfer current of 746-17 is displayed.Ex: In case of 100:Current for 1st Transfer =14A1.0=14AEx: In case of 86:Current for 1st Transfer =14A0.86=12A
747-513	1ST BTR Output remote for 52mm/sec. FC Y Side2	100	0~200	For adjustment of 1st Transfer output with Y color, FC, 52mmsec, Side1.Value to multiply 1st Transfer current of 746-17 is displayed.Ex: In case of 50:Current for 1st Transfer =14A0.5=7A
747-514	1ST BTR Output remote for 52mm/sec. FC M Side2	100	0~200	For adjustment of 1st Transfer output with M color, FC, 52mmsec, Side1.Value to multiply 1st Transfer current of 746-17 is displayed.Ex: In case of 50:Current for 1st Transfer =14A0.5=7A
747-515	1ST BTR Output remote for 52mm/sec. FC C Side2	100	0~200	For adjustment of 1st Transfer output with C color, FC, 52mmsec, Side1.Value to multiply 1st Transfer current of 746-17 is displayed.Ex: In case of 50:Current for 1st Transfer =14A0.5=7A
747-516	1ST BTR Output remote for 52mm/sec. FC K Side2	100	0~200	For adjustment of 1st Transfer output with K color, FC, 52mmsec, Side1.Value to multiply 1st Transfer current of 746-17 is displayed.Ex: In case of 50:Current for 1st Transfer =14A0.5=7A
747-517	1ST BTR Output remote for 165mm/sec. BW K Side2	100	0~255	For adjustment of 1st Transfer output with K color, BW, 165mmsec, Side1.Value to multiply 1st Transfer current of 746-20 is displayed.Ex: In case of 200:Current for 1st Transfer =14A2.0=28AEx: In case of 157:Current for 1st Transfer =14A1.57=22A
747-518	1ST BTR Output remote for 104mm/sec. BW K Side2	100	0~200	For adjustment of 1st Transfer output with K color, BW, 104mmsec, Side1Value to multiply 1st Transfer current of 746-20 is displayed.Ex: In case of 100:Current for 1st Transfer =14A1.0=14A
747-519	1ST BTR Output remote for 52mm/sec. BW K Side2	100	0~200	For adjustment of 1st Transfer output with K color, BW, 52mmsec, Side 2Value to multiply 1st Transfer current of 746-20 is displayed.Ex: In case of 100:Current for 1st Transfer =14A1.0=14A

Table 1 Chain 747

Chain-Link	Name	Default	Range	Description
747-520	1ST BTR Output remote for 194mm/sec. FC Y Side2	100	0~357	For adjustment of 1st Transfer output with Y color, FC, 194mmsec, Side1.Value to multiply 1st Transfer current of 746-20 is displayed.Ex: In case of 157:Current for 1st Transfer =14A1.57=22A
747-521	1ST BTR Output remote for 194mm/sec. FC M Side2	100	0~357	For adjustment of 1st Transfer output with M color, FC, 194mmsec, Side 2.Value to multiply 1st Transfer current of 746-20 is displayed.Ex: In case of 157:Current for 1st Transfer =14A1.57=22A
747-522	1ST BTR Output remote for 194mm/sec. FC C Side2	100	0~357	For adjustment of 1st Transfer output with C color, FC, 194mmsec, Side 2.Value to multiply 1st Transfer current of 746-20 is displayed.Ex: In case of 157:Current for 1st Transfer =14A1.57=22A
747-523	1ST BTR Output remote for 194mm/sec. FC K Side2	100	0~357	For adjustment of 1st Transfer output with K color, FC, 194mmsec, Side 2.Value to multiply 1st Transfer current of 746-20 is displayed.Ex: In case of 157:Current for 1st Transfer =14A1.57=22A
747-524	1ST BTR Output remote for 208mm/sec. BW K Side2	100	0~255	For adjustment of 1st Transfer output with K color, BW, 208mmsec, Side1.Value to multiply 1st Transfer current of 746-20 is displayed.Ex: In case of 200:Current for 1st Transfer =14A2.0=28AEx: In case of 157:Current for 1st Transfer =14A1.57=22A
747-525	FC Y Environment Correction Coefficient for 194mmsec and Environment NO.1 Side2	1643	0~3570	Environment Correction Coefficient of 1st Transfer output for Y colorEx: In case of 1000:A=((the value in 746-017)+(the value in 746-303))(the value in 747-419)1.0Ex: In case of 1500:A=((the value in 746-017)+(the value in 746-303))(the value in 747-419)1.5
747-526	FC Y Environment Correction Coefficient for 194mmsec and Environment NO.2 Side2	1643	0~3570	Environment Correction Coefficient of 1st Transfer output for Y colorEx: In case of 1000:A=((the value in 746-017)+(the value in 746-303))(the value in 747-419)1.0Ex: In case of 1500:A=((the value in 746-017)+(the value in 746-303))(the value in 747-419)1.5
747-527	FC Y Environment Correction Coefficient for 194mmsec and Environment NO.3 Side2	1643	0~3570	Environment Correction Coefficient of 1st Transfer output for Y colorEx: In case of 1000:A=((the value in 746-017)+(the value in 746-303))(the value in 747-419)1.0Ex: In case of 1500:A=((the value in 746-017)+(the value in 746-303))(the value in 747-419)1.5
747-528	FC Y Environment Correction Coefficient for 194mmsec and Environment NO.4 Side2	1643	0~3570	Environment Correction Coefficient of 1st Transfer output for Y colorEx: In case of 1000:A=((the value in 746-017)+(the value in 746-303))(the value in 747-419)1.0Ex: In case of 1500:A=((the value in 746-017)+(the value in 746-303))(the value in 747-419)1.5
747-529	FC Y Environment Correction Coefficient for 194mmsec and Environment NO.5 Side2	1643	0~3570	Environment Correction Coefficient of 1st Transfer output for Y colorEx: In case of 1000:A=((the value in 746-017)+(the value in 746-303))(the value in 747-419)1.0Ex: In case of 1500:A=((the value in 746-017)+(the value in 746-303))(the value in 747-419)1.5
747-530	FC Y Environment Correction Coefficient for 194mmsec and Environment NO.6 Side2	1643	0~3570	Environment Correction Coefficient of 1st Transfer output for Y colorEx: In case of 1000:A=((the value in 746-017)+(the value in 746-303))(the value in 747-419)1.0Ex: In case of 1500:A=((the value in 746-017)+(the value in 746-303))(the value in 747-419)1.5
747-531	FC Y Environment Correction Coefficient for 194mmsec and Environment NO.7 Side2	1643	0~3570	Environment Correction Coefficient of 1st Transfer output for Y colorEx: In case of 1000:A=((the value in 746-017)+(the value in 746-303))(the value in 747-419)1.0Ex: In case of 1500:A=((the value in 746-017)+(the value in 746-303))(the value in 747-419)1.5
747-532	FC Y Environment Correction Coefficient for 194mmsec and Environment NO.8 Side2	1643	0~3570	Environment Correction Coefficient of 1st Transfer output for Y colorEx: In case of 1000:A=((the value in 746-017)+(the value in 746-303))(the value in 747-419)1.0Ex: In case of 1500:A=((the value in 746-017)+(the value in 746-303))(the value in 747-419)1.5
747-533	FC Y Environment Correction Coefficient for 194mmsec and Environment NO.9 Side2	1643	0~3570	Environment Correction Coefficient of 1st Transfer output for Y colorEx: In case of 1000:A=((the value in 746-017)+(the value in 746-303))(the value in 747-419)1.0Ex: In case of 1500:A=((the value in 746-017)+(the value in 746-303))(the value in 747-419)1.5
747-534	FC Y Environment Correction Coefficient for 104mmsec and Environment NO.1 Side2	857	0~3570	Environment Correction Coefficient of 1st Transfer output for Y colorEx: In case of 1000:A=((the value in 746-017)+(the value in 746-303))(the value in 747-421)1.0Ex: In case of 1500:A=((the value in 746-017)+(the value in 746-303))(the value in 747-421)1.5
747-535	FC Y Environment Correction Coefficient for 104mmsec and Environment NO.2 Side2	857	0~3570	Environment Correction Coefficient of 1st Transfer output for Y colorEx: In case of 1000:A=((the value in 746-017)+(the value in 746-303))(the value in 747-421)1.0Ex: In case of 1500:A=((the value in 746-017)+(the value in 746-303))(the value in 747-421)1.5

Table 1 Chain 747

Chain-Link	Name	Default	Range	Description
747-536	FC Y Environment Correction Coefficient for 104mmsec and Environment NO.3 Side2	857	0~3570	Environment Correction Coefficient of 1st Transfer output for Y colorEx: In case of 1000:A=((the value in 746-017)+(the value in 746-303))(the value in 747-421)1.0Ex: In case of 1500:A=((the value in 746-017)+(the value in 746-303))(the value in 747-421)1.5
747-537	FC Y Environment Correction Coefficient for 104mmsec and Environment NO.4 Side2	857	0~3570	Environment Correction Coefficient of 1st Transfer output for Y colorEx: In case of 1000:A=((the value in 746-017)+(the value in 746-303))(the value in 747-421)1.0Ex: In case of 1500:A=((the value in 746-017)+(the value in 746-303))(the value in 747-421)1.5
747-538	FC Y Environment Correction Coefficient for 104mmsec and Environment NO.5 Side2	857	0~3570	Environment Correction Coefficient of 1st Transfer output for Y colorEx: In case of 1000:A=((the value in 746-017)+(the value in 746-303))(the value in 747-421)1.0Ex: In case of 1500:A=((the value in 746-017)+(the value in 746-303))(the value in 747-421)1.5
747-539	FC Y Environment Correction Coefficient for 104mmsec and Environment NO.6 Side2	857	0~3570	Environment Correction Coefficient of 1st Transfer output for Y colorEx: In case of 1000:A=((the value in 746-017)+(the value in 746-303))(the value in 747-421)1.0Ex: In case of 1500:A=((the value in 746-017)+(the value in 746-303))(the value in 747-421)1.5
747-540	FC Y Environment Correction Coefficient for 104mmsec and Environment NO.7 Side2	857	0~3570	Environment Correction Coefficient of 1st Transfer output for Y colorEx: In case of 1000:A=((the value in 746-017)+(the value in 746-303))(the value in 747-421)1.0Ex: In case of 1500:A=((the value in 746-017)+(the value in 746-303))(the value in 747-421)1.5
747-541	FC Y Environment Correction Coefficient for 104mmsec and Environment NO.8 Side2	857	0~3570	Environment Correction Coefficient of 1st Transfer output for Y colorEx: In case of 1000:A=((the value in 746-017)+(the value in 746-303))(the value in 747-421)1.0Ex: In case of 1500:A=((the value in 746-017)+(the value in 746-303))(the value in 747-421)1.5
747-542	FC Y Environment Correction Coefficient for 104mmsec and Environment NO.9 Side2	857	0~3570	Environment Correction Coefficient of 1st Transfer output for Y colorEx: In case of 1000:A=((the value in 746-017)+(the value in 746-303))(the value in 747-421)1.0Ex: In case of 1500:A=((the value in 746-017)+(the value in 746-303))(the value in 747-421)1.5
747-543	FC Y Environment Correction Coefficient for 52mmsec and Environment NO.1 Side2	429	0~3570	Environment Correction Coefficient of 1st Transfer output for Y colorEx: In case of 1000:A=((the value in 746-017)+(the value in 746-303))(the value in 747-425)1.0Ex: In case of 1500:A=((the value in 746-017)+(the value in 746-303))(the value in 747-425)1.5
747-544	FC Y Environment Correction Coefficient for 52mmsec and Environment NO.2 Side2	429	0~3570	Environment Correction Coefficient of 1st Transfer output for Y colorEx: In case of 1000:A=((the value in 746-017)+(the value in 746-303))(the value in 747-425)1.0Ex: In case of 1500:A=((the value in 746-017)+(the value in 746-303))(the value in 747-425)1.5
747-545	FC Y Environment Correction Coefficient for 52mmsec and Environment NO.3 Side2	429	0~3570	Environment Correction Coefficient of 1st Transfer output for Y colorEx: In case of 1000:A=((the value in 746-017)+(the value in 746-303))(the value in 747-425)1.0Ex: In case of 1500:A=((the value in 746-017)+(the value in 746-303))(the value in 747-425)1.5
747-546	FC Y Environment Correction Coefficient for 52mmsec and Environment NO.4 Side2	429	0~3570	Environment Correction Coefficient of 1st Transfer output for Y colorEx: In case of 1000:A=((the value in 746-017)+(the value in 746-303))(the value in 747-425)1.0Ex: In case of 1500:A=((the value in 746-017)+(the value in 746-303))(the value in 747-425)1.5
747-547	FC Y Environment Correction Coefficient for 52mmsec and Environment NO.5 Side2	429	0~3570	Environment Correction Coefficient of 1st Transfer output for Y colorEx: In case of 1000:A=((the value in 746-017)+(the value in 746-303))(the value in 747-425)1.0Ex: In case of 1500:A=((the value in 746-017)+(the value in 746-303))(the value in 747-425)1.5
747-548	FC Y Environment Correction Coefficient for 52mmsec and Environment NO.6 Side2	429	0~3570	Environment Correction Coefficient of 1st Transfer output for Y colorEx: In case of 1000:A=((the value in 746-017)+(the value in 746-303))(the value in 747-425)1.0Ex: In case of 1500:A=((the value in 746-017)+(the value in 746-303))(the value in 747-425)1.5
747-549	FC Y Environment Correction Coefficient for 52mmsec and Environment NO.7 Side2	429	0~3570	Environment Correction Coefficient of 1st Transfer output for Y colorEx: In case of 1000:A=((the value in 746-017)+(the value in 746-303))(the value in 747-425)1.0Ex: In case of 1500:A=((the value in 746-017)+(the value in 746-303))(the value in 747-425)1.5
747-550	FC Y Environment Correction Coefficient for 52mmsec and Environment NO.8 Side2	429	0~3570	Environment Correction Coefficient of 1st Transfer output for Y colorEx: In case of 1000:A=((the value in 746-017)+(the value in 746-303))(the value in 747-425)1.0Ex: In case of 1500:A=((the value in 746-017)+(the value in 746-303))(the value in 747-425)1.5

Table 1 Chain 747

Chain-Link	Name	Default	Range	Description
747-551	FC Y Environment Correction Coefficient for 52mmsec and Environment NO.9 Side2	429	0~3570	Environment Correction Coefficient of 1st Transfer output for Y colorEx: In case of 1000:A=((the value in 746-017)+(the value in 746-303))(the value in 747-425)1.0Ex: In case of 1500:A=((the value in 746-017)+(the value in 746-303))(the value in 747-425)1.5
747-552	FC M Environment Correction Coefficient for 194mmsec and Environment NO.1 Side2	1643	0~3570	Environment Correction Coefficient of 1st Transfer output for M colorEx: In case of 1000:A=((the value in 746-018)+(the value in 746-303))(the value in 747-420)1.0Ex: In case of 1500:A=((the value in 746-018)+(the value in 746-303))(the value in 747-420)1.5
747-553	FC M Environment Correction Coefficient for 194mmsec and Environment NO.2 Side2	1643	0~3570	Environment Correction Coefficient of 1st Transfer output for M colorEx: In case of 1000:A=((the value in 746-018)+(the value in 746-303))(the value in 747-420)1.0Ex: In case of 1500:A=((the value in 746-018)+(the value in 746-303))(the value in 747-420)1.5
747-554	FC M Environment Correction Coefficient for 194mmsec and Environment NO.3 Side2	1643	0~3570	Environment Correction Coefficient of 1st Transfer output for M colorEx: In case of 1000:A=((the value in 746-018)+(the value in 746-303))(the value in 747-420)1.0Ex: In case of 1500:A=((the value in 746-018)+(the value in 746-303))(the value in 747-420)1.5
747-555	FC M Environment Correction Coefficient for 194mmsec and Environment NO.4 Side2	1643	0~3570	Environment Correction Coefficient of 1st Transfer output for M colorEx: In case of 1000:A=((the value in 746-018)+(the value in 746-303))(the value in 747-420)1.0Ex: In case of 1500:A=((the value in 746-018)+(the value in 746-303))(the value in 747-420)1.5
747-556	FC M Environment Correction Coefficient for 194mmsec and Environment NO.5 Side2	1643	0~3570	Environment Correction Coefficient of 1st Transfer output for M colorEx: In case of 1000:A=((the value in 746-018)+(the value in 746-303))(the value in 747-420)1.0Ex: In case of 1500:A=((the value in 746-018)+(the value in 746-303))(the value in 747-420)1.5
747-557	FC M Environment Correction Coefficient for 194mmsec and Environment NO.6 Side2	1643	0~3570	Environment Correction Coefficient of 1st Transfer output for M colorEx: In case of 1000:A=((the value in 746-018)+(the value in 746-303))(the value in 747-420)1.0Ex: In case of 1500:A=((the value in 746-018)+(the value in 746-303))(the value in 747-420)1.5
747-558	FC M Environment Correction Coefficient for 194mmsec and Environment NO.7 Side2	1643	0~3570	Environment Correction Coefficient of 1st Transfer output for M colorEx: In case of 1000:A=((the value in 746-018)+(the value in 746-303))(the value in 747-420)1.0Ex: In case of 1500:A=((the value in 746-018)+(the value in 746-303))(the value in 747-420)1.5
747-559	FC M Environment Correction Coefficient for 194mmsec and Environment NO.8 Side2	1643	0~3570	Environment Correction Coefficient of 1st Transfer output for M colorEx: In case of 1000:A=((the value in 746-018)+(the value in 746-303))(the value in 747-420)1.0Ex: In case of 1500:A=((the value in 746-018)+(the value in 746-303))(the value in 747-420)1.5
747-560	FC M Environment Correction Coefficient for 194mmsec and Environment NO.9 Side2	1643	0~3570	Environment Correction Coefficient of 1st Transfer output for M colorEx: In case of 1000:A=((the value in 746-018)+(the value in 746-303))(the value in 747-420)1.0Ex: In case of 1500:A=((the value in 746-018)+(the value in 746-303))(the value in 747-420)1.5
747-561	FC M Environment Correction Coefficient for 104mmsec and Environment NO.1 Side2	857	0~3570	Environment Correction Coefficient of 1st Transfer output for M colorEx: In case of 1000:A=((the value in 746-018)+(the value in 746-303))(the value in 747-022)1.0Ex: In case of 1500:A=((the value in 746-018)+(the value in 746-303))(the value in 747-022)1.5
747-562	FC M Environment Correction Coefficient for 104mmsec and Environment NO.2 Side2	857	0~3570	Environment Correction Coefficient of 1st Transfer output for M colorEx: In case of 1000:A=((the value in 746-018)+(the value in 746-303))(the value in 747-022)1.0Ex: In case of 1500:A=((the value in 746-018)+(the value in 746-303))(the value in 747-022)1.5
747-563	FC M Environment Correction Coefficient for 104mmsec and Environment NO.3 Side2	857	0~3570	Environment Correction Coefficient of 1st Transfer output for M colorEx: In case of 1000:A=((the value in 746-018)+(the value in 746-303))(the value in 747-022)1.0Ex: In case of 1500:A=((the value in 746-018)+(the value in 746-303))(the value in 747-022)1.5
747-564	FC M Environment Correction Coefficient for 104mmsec and Environment NO.4 Side2	857	0~3570	Environment Correction Coefficient of 1st Transfer output for M colorEx: In case of 1000:A=((the value in 746-018)+(the value in 746-303))(the value in 747-022)1.0Ex: In case of 1500:A=((the value in 746-018)+(the value in 746-303))(the value in 747-022)1.5
747-565	FC M Environment Correction Coefficient for 104mmsec and Environment NO.5 Side2	857	0~3570	Environment Correction Coefficient of 1st Transfer output for M colorEx: In case of 1000:A=((the value in 746-018)+(the value in 746-303))(the value in 747-022)1.0Ex: In case of 1500:A=((the value in 746-018)+(the value in 746-303))(the value in 747-022)1.5

Table 1 Chain 747

Chain-Link	Name	Default	Range	Description
747-566	FC M Environment Correction Coefficient for 104mmsec and Environment NO.6 Side2	857	0~3570	Environment Correction Coefficient of 1st Transfer output for M colorEx: In case of 1000:A=((the value in 746-018)+(the value in 746-303))(the value in 747-022)1.0Ex: In case of 1500:A=((the value in 746-018)+(the value in 746-303))(the value in 747-022)1.5
747-567	FC M Environment Correction Coefficient for 104mmsec and Environment NO.7 Side2	857	0~3570	Environment Correction Coefficient of 1st Transfer output for M colorEx: In case of 1000:A=((the value in 746-018)+(the value in 746-303))(the value in 747-022)1.0Ex: In case of 1500:A=((the value in 746-018)+(the value in 746-303))(the value in 747-022)1.5
747-568	FC M Environment Correction Coefficient for 104mmsec and Environment NO.8 Side2	857	0~3570	Environment Correction Coefficient of 1st Transfer output for M colorEx: In case of 1000:A=((the value in 746-018)+(the value in 746-303))(the value in 747-022)1.0Ex: In case of 1500:A=((the value in 746-018)+(the value in 746-303))(the value in 747-022)1.5
747-569	FC M Environment Correction Coefficient for 104mmsec and Environment NO.9 Side2	857	0~3570	Environment Correction Coefficient of 1st Transfer output for M colorEx: In case of 1000:A=((the value in 746-018)+(the value in 746-303))(the value in 747-022)1.0Ex: In case of 1500:A=((the value in 746-018)+(the value in 746-303))(the value in 747-022)1.5
747-570	FC M Environment Correction Coefficient for 52mmsec and Environment NO.1 Side2	429	0~3570	Environment Correction Coefficient of 1st Transfer output for M colorEx: In case of 1000:A=((the value in 746-018)+(the value in 746-303))(the value in 747-026)1.0Ex: In case of 1500:A=((the value in 746-018)+(the value in 746-303))(the value in 747-026)1.5
747-571	FC M Environment Correction Coefficient for 52mmsec and Environment NO.2 Side2	429	0~3570	Environment Correction Coefficient of 1st Transfer output for M colorEx: In case of 1000:A=((the value in 746-018)+(the value in 746-303))(the value in 747-026)1.0Ex: In case of 1500:A=((the value in 746-018)+(the value in 746-303))(the value in 747-026)1.5
747-572	FC M Environment Correction Coefficient for 52mmsec and Environment NO.3 Side2	429	0~3570	Environment Correction Coefficient of 1st Transfer output for M colorEx: In case of 1000:A=((the value in 746-018)+(the value in 746-303))(the value in 747-026)1.0Ex: In case of 1500:A=((the value in 746-018)+(the value in 746-303))(the value in 747-026)1.5
747-573	FC M Environment Correction Coefficient for 52mmsec and Environment NO.4 Side2	429	0~3570	Environment Correction Coefficient of 1st Transfer output for M colorEx: In case of 1000:A=((the value in 746-018)+(the value in 746-303))(the value in 747-026)1.0Ex: In case of 1500:A=((the value in 746-018)+(the value in 746-303))(the value in 747-026)1.5
747-574	FC M Environment Correction Coefficient for 52mmsec and Environment NO.5 Side2	429	0~3570	Environment Correction Coefficient of 1st Transfer output for M colorEx: In case of 1000:A=((the value in 746-018)+(the value in 746-303))(the value in 747-026)1.0Ex: In case of 1500:A=((the value in 746-018)+(the value in 746-303))(the value in 747-026)1.5
747-575	FC M Environment Correction Coefficient for 52mmsec and Environment NO.6 Side2	429	0~3570	Environment Correction Coefficient of 1st Transfer output for M colorEx: In case of 1000:A=((the value in 746-018)+(the value in 746-303))(the value in 747-026)1.0Ex: In case of 1500:A=((the value in 746-018)+(the value in 746-303))(the value in 747-026)1.5
747-576	FC M Environment Correction Coefficient for 52mmsec and Environment NO.7 Side2	429	0~3570	Environment Correction Coefficient of 1st Transfer output for M colorEx: In case of 1000:A=((the value in 746-018)+(the value in 746-303))(the value in 747-026)1.0Ex: In case of 1500:A=((the value in 746-018)+(the value in 746-303))(the value in 747-026)1.5
747-577	FC M Environment Correction Coefficient for 52mmsec and Environment NO.8 Side2	429	0~3570	Environment Correction Coefficient of 1st Transfer output for M colorEx: In case of 1000:A=((the value in 746-018)+(the value in 746-303))(the value in 747-026)1.0Ex: In case of 1500:A=((the value in 746-018)+(the value in 746-303))(the value in 747-026)1.5
747-578	FC M Environment Correction Coefficient for 52mmsec and Environment NO.9 Side2	429	0~3570	Environment Correction Coefficient of 1st Transfer output for M colorEx: In case of 1000:A=((the value in 746-018)+(the value in 746-303))(the value in 747-026)1.0Ex: In case of 1500:A=((the value in 746-018)+(the value in 746-303))(the value in 747-026)1.5
747-579	FC C Environment Correction Coefficient for 194mmsec and Environment NO.1 Side2	1643	0~3570	Environment Correction Coefficient of 1st Transfer output for C colorEx: In case of 1000:A=((the value in 746-019)+(the value in 746-303))(the value in 747-421)1.0Ex: In case of 1500:A=((the value in 746-019)+(the value in 746-303))(the value in 747-421)1.5
747-580	FC C Environment Correction Coefficient for 194mmsec and Environment NO.2 Side2	1643	0~3570	Environment Correction Coefficient of 1st Transfer output for C colorEx: In case of 1000:A=((the value in 746-019)+(the value in 746-303))(the value in 747-421)1.0Ex: In case of 1500:A=((the value in 746-019)+(the value in 746-303))(the value in 747-421)1.5

Table 1 Chain 747

Chain-Link	Name	Default	Range	Description
747-581	FC C Environment Correction Coefficient for 194mmsec and Environment NO.3 Side2	1643	0~3570	Environment Correction Coefficient of 1st Transfer output for C colorEx: In case of 1000:A=((the value in 746-019)+(the value in 746-303))(the value in 747-421)1.0Ex: In case of 1500:A=((the value in 746-019)+(the value in 746-303))(the value in 747-421)1.5
747-582	FC C Environment Correction Coefficient for 194mmsec and Environment NO.4 Side2	1643	0~3570	Environment Correction Coefficient of 1st Transfer output for C colorEx: In case of 1000:A=((the value in 746-019)+(the value in 746-303))(the value in 747-421)1.0Ex: In case of 1500:A=((the value in 746-019)+(the value in 746-303))(the value in 747-421)1.5
747-583	FC C Environment Correction Coefficient for 194mmsec and Environment NO.5 Side2	1643	0~3570	Environment Correction Coefficient of 1st Transfer output for C colorEx: In case of 1000:A=((the value in 746-019)+(the value in 746-303))(the value in 747-421)1.0Ex: In case of 1500:A=((the value in 746-019)+(the value in 746-303))(the value in 747-421)1.5
747-584	FC C Environment Correction Coefficient for 194mmsec and Environment NO.6 Side2	1643	0~3570	Environment Correction Coefficient of 1st Transfer output for C colorEx: In case of 1000:A=((the value in 746-019)+(the value in 746-303))(the value in 747-421)1.0Ex: In case of 1500:A=((the value in 746-019)+(the value in 746-303))(the value in 747-421)1.5
747-585	FC C Environment Correction Coefficient for 194mmsec and Environment NO.7 Side2	1643	0~3570	Environment Correction Coefficient of 1st Transfer output for C colorEx: In case of 1000:A=((the value in 746-019)+(the value in 746-303))(the value in 747-421)1.0Ex: In case of 1500:A=((the value in 746-019)+(the value in 746-303))(the value in 747-421)1.5
747-586	FC C Environment Correction Coefficient for 194mmsec and Environment NO.8 Side2	1643	0~3570	Environment Correction Coefficient of 1st Transfer output for C colorEx: In case of 1000:A=((the value in 746-019)+(the value in 746-303))(the value in 747-421)1.0Ex: In case of 1500:A=((the value in 746-019)+(the value in 746-303))(the value in 747-421)1.5
747-587	FC C Environment Correction Coefficient for 194mmsec and Environment NO.9 Side2	1429	0~3570	Environment Correction Coefficient of 1st Transfer output for C colorEx: In case of 1000:A=((the value in 746-019)+(the value in 746-303))(the value in 747-421)1.0Ex: In case of 1500:A=((the value in 746-019)+(the value in 746-303))(the value in 747-421)1.5
747-588	FC C Environment Correction Coefficient for 104mmsec and Environment NO.1 Side2	857	0~3570	Environment Correction Coefficient of 1st Transfer output for C colorEx: In case of 1000:A=((the value in 746-019)+(the value in 746-303))(the value in 747-023)1.0Ex: In case of 1500:A=((the value in 746-019)+(the value in 746-303))(the value in 747-023)1.5
747-589	FC C Environment Correction Coefficient for 104mmsec and Environment NO.2 Side2	857	0~3570	Environment Correction Coefficient of 1st Transfer output for C colorEx: In case of 1000:A=((the value in 746-019)+(the value in 746-303))(the value in 747-023)1.0Ex: In case of 1500:A=((the value in 746-019)+(the value in 746-303))(the value in 747-023)1.5
747-590	FC C Environment Correction Coefficient for 104mmsec and Environment NO.3 Side2	857	0~3570	Environment Correction Coefficient of 1st Transfer output for C colorEx: In case of 1000:A=((the value in 746-019)+(the value in 746-303))(the value in 747-023)1.0Ex: In case of 1500:A=((the value in 746-019)+(the value in 746-303))(the value in 747-023)1.5
747-591	FC C Environment Correction Coefficient for 104mmsec and Environment NO.4 Side2	857	0~3570	Environment Correction Coefficient of 1st Transfer output for C colorEx: In case of 1000:A=((the value in 746-019)+(the value in 746-303))(the value in 747-023)1.0Ex: In case of 1500:A=((the value in 746-019)+(the value in 746-303))(the value in 747-023)1.5
747-592	FC C Environment Correction Coefficient for 104mmsec and Environment NO.5 Side2	857	0~3570	Environment Correction Coefficient of 1st Transfer output for C colorEx: In case of 1000:A=((the value in 746-019)+(the value in 746-303))(the value in 747-023)1.0Ex: In case of 1500:A=((the value in 746-019)+(the value in 746-303))(the value in 747-023)1.5
747-593	FC C Environment Correction Coefficient for 104mmsec and Environment NO.6 Side2	857	0~3570	Environment Correction Coefficient of 1st Transfer output for C colorEx: In case of 1000:A=((the value in 746-019)+(the value in 746-303))(the value in 747-023)1.0Ex: In case of 1500:A=((the value in 746-019)+(the value in 746-303))(the value in 747-023)1.5
747-594	FC C Environment Correction Coefficient for 104mmsec and Environment NO.7 Side2	857	0~3570	Environment Correction Coefficient of 1st Transfer output for C colorEx: In case of 1000:A=((the value in 746-019)+(the value in 746-303))(the value in 747-023)1.0Ex: In case of 1500:A=((the value in 746-019)+(the value in 746-303))(the value in 747-023)1.5
747-595	FC C Environment Correction Coefficient for 104mmsec and Environment NO.8 Side2	857	0~3570	Environment Correction Coefficient of 1st Transfer output for C colorEx: In case of 1000:A=((the value in 746-019)+(the value in 746-303))(the value in 747-023)1.0Ex: In case of 1500:A=((the value in 746-019)+(the value in 746-303))(the value in 747-023)1.5

Table 1 Chain 747

Chain-Link	Name	Default	Range	Description
747-596	FC C Environment Correction Coefficient for 104mmsec and Environment NO.9 Side2	857	0~3570	Environment Correction Coefficient of 1st Transfer output for C colorEx: In case of 1000:A=((the value in 746-019)+(the value in 746-303))(the value in 747-023)1.0Ex: In case of 1500:A=((the value in 746-019)+(the value in 746-303))(the value in 747-023)1.5
747-597	FC C Environment Correction Coefficient for 52mmsec and Environment NO.1 Side2	429	0~3570	Environment Correction Coefficient of 1st Transfer output for C colorEx: In case of 1000:A=((the value in 746-019)+(the value in 746-303))(the value in 747-027)1.0Ex: In case of 1500:A=((the value in 746-019)+(the value in 746-303))(the value in 747-027)1.5
747-598	FC C Environment Correction Coefficient for 52mmsec and Environment NO.2 Side2	429	0~3570	Environment Correction Coefficient of 1st Transfer output for C colorEx: In case of 1000:A=((the value in 746-019)+(the value in 746-303))(the value in 747-027)1.0Ex: In case of 1500:A=((the value in 746-019)+(the value in 746-303))(the value in 747-027)1.5
747-599	FC C Environment Correction Coefficient for 52mmsec and Environment NO.3 Side2	429	0~3570	Environment Correction Coefficient of 1st Transfer output for C colorEx: In case of 1000:A=((the value in 746-019)+(the value in 746-303))(the value in 747-027)1.0Ex: In case of 1500:A=((the value in 746-019)+(the value in 746-303))(the value in 747-027)1.5
747-600	FC C Environment Correction Coefficient for 52mmsec and Environment NO.4 Side2	429	0~3570	Environment Correction Coefficient of 1st Transfer output for C colorEx: In case of 1000:A=((the value in 746-019)+(the value in 746-303))(the value in 747-027)1.0Ex: In case of 1500:A=((the value in 746-019)+(the value in 746-303))(the value in 747-027)1.5
747-601	FC C Environment Correction Coefficient for 52mmsec and Environment NO.5 Side2	429	0~3570	Environment Correction Coefficient of 1st Transfer output for C colorEx: In case of 1000:A=((the value in 746-019)+(the value in 746-303))(the value in 747-027)1.0Ex: In case of 1500:A=((the value in 746-019)+(the value in 746-303))(the value in 747-027)1.5
747-602	FC C Environment Correction Coefficient for 52mmsec and Environment NO.6 Side2	429	0~3570	Environment Correction Coefficient of 1st Transfer output for C colorEx: In case of 1000:A=((the value in 746-019)+(the value in 746-303))(the value in 747-027)1.0Ex: In case of 1500:A=((the value in 746-019)+(the value in 746-303))(the value in 747-027)1.5
747-603	FC C Environment Correction Coefficient for 52mmsec and Environment NO.7 Side2	429	0~3570	Environment Correction Coefficient of 1st Transfer output for C colorEx: In case of 1000:A=((the value in 746-019)+(the value in 746-303))(the value in 747-027)1.0Ex: In case of 1500:A=((the value in 746-019)+(the value in 746-303))(the value in 747-027)1.5
747-604	FC C Environment Correction Coefficient for 52mmsec and Environment NO.8 Side2	429	0~3570	Environment Correction Coefficient of 1st Transfer output for C colorEx: In case of 1000:A=((the value in 746-019)+(the value in 746-303))(the value in 747-027)1.0Ex: In case of 1500:A=((the value in 746-019)+(the value in 746-303))(the value in 747-027)1.5
747-605	FC C Environment Correction Coefficient for 52mmsec and Environment NO.9 Side2	429	0~3570	Environment Correction Coefficient of 1st Transfer output for C colorEx: In case of 1000:A=((the value in 746-019)+(the value in 746-303))(the value in 747-027)1.0Ex: In case of 1500:A=((the value in 746-019)+(the value in 746-303))(the value in 747-027)1.5
747-606	FC K Environment Correction Coefficient for 194mmsec and Environment NO.1 Side2	1857	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 747-422)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 747-422)1.5
747-607	FC K Environment Correction Coefficient for 194mmsec and Environment NO.2 Side2	1857	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 747-422)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 747-422)1.5
747-608	FC K Environment Correction Coefficient for 194mmsec and Environment NO.3 Side2	1857	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 747-422)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 747-422)1.5
747-609	FC K Environment Correction Coefficient for 194mmsec and Environment NO.4 Side2	2286	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 747-422)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 747-422)1.5
747-610	FC K Environment Correction Coefficient for 194mmsec and Environment NO.5 Side2	2286	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 747-422)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 747-422)1.5

Table 1 Chain 747

Chain-Link	Name	Default	Range	Description
747-611	FC K Environment Correction Coefficient for 194mmsec and Environment NO.6 Side2	2286	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 747-422)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 747-422)1.5
747-612	FC K Environment Correction Coefficient for 194mmsec and Environment NO.7 Side2	2286	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 747-422)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 747-422)1.5
747-613	FC K Environment Correction Coefficient for 194mmsec and Environment NO.8 Side2	2786	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 747-422)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 747-422)1.5
747-614	FC K Environment Correction Coefficient for 194mmsec and Environment NO.9 Side2	2786	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 747-422)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 747-422)1.5
747-615	FC K Environment Correction Coefficient for 104mmsec and Environment NO.1 Side2	1000	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-024)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-024)1.5
747-616	FC K Environment Correction Coefficient for 104mmsec and Environment NO.2 Side2	1000	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-024)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 747-024)1.5
747-617	FC K Environment Correction Coefficient for 104mmsec and Environment NO.3 Side2	1000	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-024)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-024)1.5
747-618	FC K Environment Correction Coefficient for 104mmsec and Environment NO.4 Side2	1214	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-024)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-024)1.5
747-619	FC K Environment Correction Coefficient for 104mmsec and Environment NO.5 Side2	1214	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-024)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-024)1.5
747-620	FC K Environment Correction Coefficient for 104mmsec and Environment NO.6 Side2	1214	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-024)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-024)1.5
747-621	FC K Environment Correction Coefficient for 104mmsec and Environment NO.7 Side2	1214	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-024)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-024)1.5
747-622	FC K Environment Correction Coefficient for 104mmsec and Environment NO.8 Side2	1428	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-024)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-024)1.5
747-623	FC K Environment Correction Coefficient for 104mmsec and Environment NO.9 Side2	1643	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-024)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-024)1.5
747-624	FC K Environment Correction Coefficient for 52mmsec and Environment NO.1 Side2	500	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-028)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-028)1.5
747-625	FC K Environment Correction Coefficient for 52mmsec and Environment NO.2 Side2	500	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-028)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-028)1.5

Table 1 Chain 747

Chain-Link	Name	Default	Range	Description
747-626	FC K Environment Correction Coefficient for 52mmsec and Environment NO.3 Side2	500	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-028)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-028)1.5
747-627	FC K Environment Correction Coefficient for 52mmsec and Environment NO.4 Side2	500	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-028)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-028)1.5
747-628	FC K Environment Correction Coefficient for 52mmsec and Environment NO.5 Side2	500	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-028)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-028)1.5
747-629	FC K Environment Correction Coefficient for 52mmsec and Environment NO.6 Side2	500	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-028)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-028)1.5
747-630	FC K Environment Correction Coefficient for 52mmsec and Environment NO.7 Side2	500	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-028)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-028)1.5
747-631	FC K Environment Correction Coefficient for 52mmsec and Environment NO.8 Side2	500	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-028)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-028)1.5
747-632	FC K Environment Correction Coefficient for 52mmsec and Environment NO.9 Side2	500	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-028)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-028)1.5
747-633	BW K Environment Correction Coefficient for 194mmsec and Environment NO.1 Side2	1857	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-029)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-029)1.5
747-634	BW K Environment Correction Coefficient for 194mmsec and Environment NO.2 Side2	1857	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-029)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-029)1.5
747-635	BW K Environment Correction Coefficient for 194mmsec and Environment NO.3 Side2	1857	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-029)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-029)1.5
747-636	BW K Environment Correction Coefficient for 194mmsec and Environment NO.4 Side2	2286	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-029)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-029)1.5
747-637	BW K Environment Correction Coefficient for 194mmsec and Environment NO.5 Side2	2286	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-029)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-029)1.5
747-638	BW K Environment Correction Coefficient for 194mmsec and Environment NO.6 Side2	2286	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-029)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-029)1.5
747-639	BW K Environment Correction Coefficient for 194mmsec and Environment NO.7 Side2	2286	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-029)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-029)1.5
747-640	BW K Environment Correction Coefficient for 194mmsec and Environment NO.8 Side2	2786	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-029)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-029)1.5

Table 1 Chain 747

Chain-Link	Name	Default	Range	Description
747-641	BW K Environment Correction Coefficient for 194mmsec and Environment NO.9 Side2	2786	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-029)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-029)1.5
747-642	BW K Environment Correction Coefficient for 104mmsec and Environment NO.1 Side2	1000	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-030)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-030)1.5
747-643	BW K Environment Correction Coefficient for 104mmsec and Environment NO.2 Side2	1000	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-030)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-030)1.5
747-644	BW K Environment Correction Coefficient for 104mmsec and Environment NO.3 Side2	1000	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-030)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-030)1.5
747-645	BW K Environment Correction Coefficient for 104mmsec and Environment NO.4 Side2	1214	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-030)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-030)1.5
747-646	BW K Environment Correction Coefficient for 104mmsec and Environment NO.5 Side2	1214	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-030)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-030)1.5
747-647	BW K Environment Correction Coefficient for 104mmsec and Environment NO.6 Side2	1214	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-030)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-030)1.5
747-648	BW K Environment Correction Coefficient for 104mmsec and Environment NO.7 Side2	1214	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-030)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-030)1.5
747-649	BW K Environment Correction Coefficient for 104mmsec and Environment NO.8 Side2	1428	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-030)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-030)1.5
747-650	BW K Environment Correction Coefficient for 104mmsec and Environment NO.9 Side2	1643	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-030)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-030)1.5
747-651	BW K Environment Correction Coefficient for 52mmsec and Environment NO.1 Side2	500	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-031)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-031)1.5
747-652	BW K Environment Correction Coefficient for 52mmsec and Environment NO.2 Side2	500	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-031)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-031)1.5
747-653	BW K Environment Correction Coefficient for 52mmsec and Environment NO.3 Side2	500	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-031)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-031)1.5
747-654	BW K Environment Correction Coefficient for 52mmsec and Environment NO.4 Side2	500	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-031)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-031)1.5
747-655	BW K Environment Correction Coefficient for 52mmsec and Environment NO.5 Side2	500	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-031)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-031)1.5

Table 1 Chain 747

Chain-Link	Name	Default	Range	Description
747-656	BW K Environment Correction Coefficient for 52mmsec and Environment NO.6 Side2	500	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-031)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-031)1.5
747-657	BW K Environment Correction Coefficient for 52mmsec and Environment NO.7 Side2	500	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-031)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-031)1.5
747-658	BW K Environment Correction Coefficient for 52mmsec and Environment NO.8 Side2	500	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-031)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-031)1.5
747-659	BW K Environment Correction Coefficient for 52mmsec and Environment NO.9 Side2	500	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 746-031)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 746-031)1.5
747-660	BW K Environment Correction Coefficient for 208mmsec and Environment NO.1 Side2	1857	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 747-031)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 747-031)1.5
747-661	BW K Environment Correction Coefficient for 208mmsec and Environment NO.2 Side2	1857	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 747-031)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 747-031)1.5
747-662	BW K Environment Correction Coefficient for 208mmsec and Environment NO.3 Side2	1857	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 747-031)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 747-031)1.5
747-663	BW K Environment Correction Coefficient for 208mmsec and Environment NO.4 Side2	2429	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 747-031)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 747-031)1.5
747-664	BW K Environment Correction Coefficient for 208mmsec and Environment NO.56 Side2	2429	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 747-031)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 747-031)1.5
747-665	BW K Environment Correction Coefficient for 208mmsec and Environment NO.6 Side2	2429	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 747-031)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 747-031)1.5
747-666	BW K Environment Correction Coefficient for 208mmsec and Environment NO.7 Side2	2429	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 747-031)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 747-031)1.5
747-667	BW K Environment Correction Coefficient for 208mmsec and Environment NO.8 Side2	2857	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 747-031)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 747-031)1.5
747-668	BW K Environment Correction Coefficient for 208mmsec and Environment NO.9 Side2	2857	0~3570	Environment Correction Coefficient of 1st Transfer output for K colorEx: In case of 1000:A=((the value in 746-020)+(the value in 746-303))(the value in 747-031)1.0Ex: In case of 1500:A=((the value in 746-020)+(the value in 746-303))(the value in 747-031)1.5
747-671	Threshold of Environment No. for droop mode prevention	2	0~255	With this Environment No. or less, HV droop prevention logic is adopted.
747-672	Rsys threshold for droop mode prevention	20	1~255	Rsys threshold applied when HV droop prevention logic is adopted.
747-673	Vmax for droop mode prevention Applicable to paper other than transparency	2500	0~6000	Max. voltage applied for paper type other than transparency when HV droop prevention logic is adopted.

Table 1 Chain 747

Chain-Link	Name	Default	Range	Description
747-674	Vmax for droop mode prevention Applicable to transparency	3958	0~6000	Max. voltage applied for transparency when HV droop prevention logic is adopted.
747-675	Droop mode prevention flag	0	0~1	For current print, 0: Droop mode prevention logic is not adopted.1: Droop mode prevention logic is adopted.
747-676	194-speed Remote for Plain paper E Side1 (Output Duty)	100	0~200 (1bit = 1%)	194mm/sec D/E side1 746-6ex 100 = 245×-4.888×1.0 =-1200V 150 = 245×-4.888×1.5 =-1800V
747-677	194-speed Remote for Plain paper G Side1 (Output Duty)	100	0~200 (1bit = 1%)	194mm/sec F/G side1 746-6ex 100 = 245×-4.888×1.0 =-1200V 150 = 245×-4.888×1.5 =-1800V
747-678	194-speed Remote for Plain paper E Side2 (Output Duty)	100	0~200 (1bit = 1%)	194mm/sec D/E side 2 746-6ex 100 = 245×-4.888×1.0 =-1200V 150 = 245×-4.888×1.5 =-1800V
747-679	194-speed Remote for Plain paper G Side2 (Output Duty)	100	0~200 (1bit = 1%)	194mm/sec D/GE side2 746-6ex 100 = 245×-4.888×1.0 =-1200V 150 = 245×-4.888×1.5 =-1800V
747-680	Remote for Plain paper E Side1 (Output Duty)	100	0~200 (1bit = 1%)	E side1 746-6 ex 100 = 245×-4.888×1.0 =-1200V 150 = 245×-4.888×1.5 =-1800V
747-681	Remote for Plain paper E Side2 (Output Duty)	100	0~200 (1bit = 1%)	E side 2 746-6 ex 100 = 245×-4.888×1.0 =-1200V 150 = 245×-4.888×1.5 =-1800V
747-682	Remote for Plain paper G Side1 (Output Duty)	100	0~200 (1bit = 1%)	G side1 746-6 ex 100 = 245×-4.888×1.0 =-1200V 150 = 245×-4.888×1.5 =-1800V
747-683	Remote for Plain paper G Side 2 (Output Duty)	100	0~200	G side 2 746-6 ex 100 = 245×-4.888×1.0 =-1200V 150 = 245×-4.888×1.5 =-1800V
747-684	Remote for Plain paper E 208-speed BW Side1	100	0~200	E 208mm/sec side1 BW 746-6 ex 100 = 245×-4.888×1.0 =-1596V 150 = 245×-4.888×1.5 =-2394V
747-685	Remote for Plain paper E 208-speed BW Side 2	100	0~200	E 208mm/sec side 2 BW 746-6 ex 100 = 245×-4.888×1.0 =-1596V 150 = 245×-4.888×1.5 =-2394V
747-686	Remote for Plain paper G 208-speed BW Side1	100	0~200	G 208mm/sec side1 BW 746-6 ex 100 = 245×-4.888×1.0 =-1596V 150 = 245×-4.888×1.5 =-2394V
747-687	Remote for Plain paper G 208-speed BW Side2	100	0~200	G 208mm/sec side2 BW 746-6 ex 100 = 245×-4.888×1.0 =-1596V 150 = 245×-4.888×1.5 =-2394V
747-688	Remote for Plain paper E 194-speed BW Side1	100	0~200	E 194mm/sec side1 BW 746-6 ex 100 = 245×-4.888×1.0 =-1596V 150 = 245×-4.888×1.5 =-2394V
747-689	Remote for Plain paper A ~D,F 194-speed BW Side1	100	0~200	A~D, F 194mm/sec side1 BW 746-6 ex 100 = 245×-4.888×1.0 =-1596V 150 = 245×-4.888×1.5 =-2394V

Table 1 Chain 747

Chain-Link	Name	Default	Range	Description
747-690	Remote for Plain paper E 194-speed BW Side 2	100	0~200	E 194mm/sec side 2 BW 746-6 ex 100 = 245×-4.888×1.0 =-1596V 150 = 245×-4.888×1.5 =-2394V
747-691	Remote for Plain paper A ~D,F 194-speed BW Side 2	100	0~200	A~D, F 194mm/sec side 2 BW 746-6 ex 100 = 245×-4.888×1.0 =-1596V 150 = 245×-4.888×1.5 =-2394V
747-692	Remote for Plain paper E 104-speed BW Side1	100	0~200	E 104mm/sec side1 BW 746-6 ex 100 = 245×-4.888×1.0 =-1596V 150 = 245×-4.888×1.5 =-2394
747-693	Remote for Plain paper E 104-speed BW Side 2	100	0~200	E 104mm/sec side 2 BW 746-6 ex 100 = 245×-4.888×1.0 =-1596V 150 = 245×-4.888×1.5 =-2394
747-694	Remote for Plain paper G 104-speed BW Side1	100	0~200	G 104mm/sec side1 BW 746-6 ex 100 = 245×-4.888×1.0 =-1596V 150 = 245×-4.888×1.5 =-2394
747-695	Remote for Plain paper G 104-speed BW Side 2	100	0~200	G 104mm/sec side 2 BW 746-6 ex 100 = 245×-4.888×1.0 =-1596V 150 = 245×-4.888×1.5 =-2394

749-xxx ROS NVM List

Table 1 Chain 749

Chain-Link	Name	Default	Range	Description
749-041	1200dpi LUT04	64	0~255	Density setting for Real1200 x 1200dpi x 1bit

751-xxx Procon NVM List

Table 1 Chain 751

Chain-Link	Name	Default	Range	Description
751-052	BCR Charge Compensate mode (SW)	0	0~3	Charge Correction. 0=Performs Wear & Environment Correction (Default); 1=Disables Charge Correction; 2=Performs Environment Correction Only; 3=Performs Wear Correction Only
751-053	BCR Charge Compensate mode (P/S SW)	0	0~255	Charge Correction. Mode (0h) Default, Mode 1 :4 (208mm/sec) Mode 3 :3 (208.194mm/sec) Mode 12:12 (104mm/sec) Mod3e 14:1 (52mm/sec)
751-132	Bottle Full Counter Print (Max Value)	900	0~65535	Max Setup Value of EMP Counter Print (1 Count=1print)
751-133	Bottle Full (Flag)	0	0~2	0=Empty; 1=Near Full; 2=Full
751-134	Bottle Not In Position (Flag)	0	0~1	Availability of the Toner Waster Bottle (0=Bottle set; 1=No bottle)
751-135	Print Volume (Counter)	0	0~65535	Total count of # of prints (1 Count=1 sheet)
751-136	Bottle Full Counter Dispense (Max Value)	500	0~65535	Max Setup Value of EMP Counter Dispense (1 Count=1 sec.)

Table 1 Chain 751

Chain-Link	Name	Default	Range	Description
751-137	Dispense Time Count (4Color Counter)	0	0~65535	Total Count of 4 Colors Dispense Time
751-138	Bottle Sns Mode (SW)	0	0~2	Specifies the Count method until Bottle Full. 0=Auto(Print&Dispense); 1=Only # of prints; 2=Only Dispense time
751-159	BCR Cln Trigger (SW)	3	0~4	Selection SW for Trigger types to operate the BCR Cleaner. 0=CV Count; 1=Drum Cycle Count; 2=Pixel Count; 3=PV Count+ Pixel Count+Drum Cycle 4: To disable operation
751-160	CV Count Total (Counter)	0	0~65535	Each cumulative ERU by Billing Count (1 Count=1pv)
751-161	Drum Cycle Count Total	0	0~65535	cumulative Drum Cycle (1 Count=10cycle)
751-162	Pixel Count Total (Counter)	0	0~10000000	cumulative K pixel count. units of 1 step is based on the ICDC control pixel count (1 Count=1dot/1 gradation)
751-165	BCR CLN Pixel Count Limit Value (Limiter	15	0~255	1 bit =10K
751-166	BCR Cleaner Contact Time	2658	0~65535	BCR Contact Time in Machine Clock counts
751-167	BCR Cleaning Count	0	0~1000	Reads the No. of BCR Cleaner Operations. (1 Count=1 time)
751-168	CRU Type	0	0~255	80 = XC, ESG, DMO value
751-177	P/R Life Warning (Limiter)	1191	0~1545	Warning value of Drum Cartridge (All engine common) (1 bit=0.01m)
751-178	P/R Life End of Life (Limiter)	1405	0~1545	End of Life value of Drum Cartridge (All engine common) (1 bit=0.01m)
751-200	#Y_BCR DC corrected VH value	620	0~1023	VH Output Value of #Y Engine after Correction (All Speed common) (1 Count=-1.173V)
751-201	#M_BCR DC corrected VH value	620	0~1023	VH Output Value of #M Engine after Correction (All Speed common) (1 Count=-1.173V)
751-202	#C_BCR DC corrected VH value	620	0~1023	VH Output Value of #C Engine after Correction (All Speed common) (1 Count=-1.173V)
751-203	#K_BCR DC corrected VH value	620	0~1023	VH Output Value of #K Engine after Correction (All Speed common) (1 Count=-1.173V)
751-233	P/R Life Warning (Wear_Limiter) -K	1220	0~1700	Drum wear_Warning value of drum cartridge
751-235	P/R Life Warning (Cycle-Limiter) -YMC	420	0~2000	Cycle_Warning value of drum cartridge
751-237	P/R Life Warning (Cycle-Limiter) -K	420	0~2000	Cycle_Warning value of drum cartridge
751-239	P/R Life Warning (A4L-PV-Limiter) -YMC	500	0~2000	of drum cartridgeA4L-PV_Warning value
751-241	P/R Life Warning (A4L-PV-Limiter) -K	500	0~2000	A4L-PV_Warning value of drum cartridge
751-243	P/R Life Warning (Pixel-Limiter) -YMC	2.85m	0~10m	Pixel_Warning value of drum cartridge (Common to #YMC Engine)
751-245	P/R Life Warning (Pixel-Limiter) -K	2.85m	0~10m	Pixel_Warning value of drum cartridge (for #K Engine)
751-248	#Y_CRU_Life Warning Counter (PV)	0	0~2000	#Y_Estimated remaining print volume that can be output for CRU
751-249	#Y_CRU_Life Warning Counter (PV)	0	0~2000	#M_Estimated remaining print volume that can be output for CRU
751-250	#C_CRU_Life Warning Counter (PV)	0	0~2000	#C_Estimated remaining print volume that can be output for CRU
751-251	#K_CRU_Life Warning Counter (PV	0	0~2000	#K_Estimated remaining print volume that can be output for CRU
751-296	#K_Estimated remaining print volume that can be output for CRU	0	0~300	#Y Engine output value after Iac correction Common to all process speed levels
751-297	#M_BCR AC corrected Iac value	0	0~300	#M Engine output value after Iac correction Common to all process speed levels
751-298	#C_BCR AC corrected Iac value	0	0~300	#C Engine output value after Iac correction Common to all process speed levels
751-299	#K_BCR AC Iac value after correction	0	0~300	#K Engine output value after Iac correction Common to all process speed levels
751-460	Skip setting SW	1	0~1	0:=ON,1:=OFF
751-461	Rest time limit	10	0~1440	
751-462	Drum estimated ware limit	750	0~10000	
751-463	Temperature limit	100	0~100	
751-464	Humidity limit	60	0~100	
751-465	Latest color job time [D]	0	0~255	

Table 1 Chain 751

Chain-Link	Name	Default	Range	Description
751-466	Latest color job time [H]	0	0~255	
751-467	Latest color job time [M]	0	0~255	
751-472	Drum Life limit -Crum control SW	1	0~1	0: To disable (Set forcibly for M/C)1: To enable
751-480	CAD-mode SW	1	0~1	Simplified CA mode setting SW0: To enable1: To disable (Default)
751-490	Pre rotation setting SW	1	0~1	0:=ON,1:=OFF
751-491	Rest time limit	10	0~1440	Rest time setting value
751-492	Humidity limit	55	0~100	Humidity threshold
751-493	Pixel count limit	500	0~10000	Simplified pixel count threshold
751-494	YMC_Latest color job time [D]	0	0~255	YMC: Date of job (color) conducted last time [day]
751-495	K_Latest job time [D]	0	0~255	K: Date of job (BW/Blank paper/Color) conducted last time
751-496	K_Latest job time [H]	0	0~255	K: Time of job (BW/Blank paper/Color) conducted last time[hour]
751-497	K_Latest job time [M]	0	0~255	K: Time of job (BW/Blank paper/Color) conducted last time[min]
751-498	YMC_Latest color job time [H]	0	0~255	YMC: Time of job (color) conducted last time [hour]
751-499	YMC_Latest color job time [M]	0	0~255	YMC: Time of job (color) conducted last time[min]
751-600	Film Detect Seq Sw	0	0~1	Drum film thickness detection control SW0: To enable, 1: To disable
751-606	Drum Initial thickness select SW	0	0~1	Drum film thickness detection: Initial drum film thickness reference SW0: CRUM,1: M/C
751-641	#Y_DrumLifeRemaining[]	0	0~1000	#Y_Remaining drum life[]
751-642	#M_DrumLifeRemaining[]	0	0~1000	#M_DrumLifeRemaining[]
751-643	#C_DrumLifeRemaining[]	0	0~1000	#C_DrumLifeRemaining[
751-644	#K_DrumLifeRemaining[]	0	0~1000	#K_DrumLifeRemaining[]
751-645	#Y_Drum-Max-A4LEF-PV [kPV]	33	0~1000	#Y_Max. drum use volume with A4LEF[kPV]
751-646	#M_Drum-Max-A4LEF-PV [kPV]	33	0~1000	#M_Max. drum use volume with A4LEF[kPV]
751-647	#C_Drum-Max-A4LEF-PV [kPV]	33	0~1000	#C_Max. drum use volume with A4LEF[kPV]
751-648	#K_Drum-Max-A4LEF-PV [kPV]	50	0~1000	#K_Max. drum use volume with A4LEF[kPV]

752-xxx Procon NVM List

Table 1 Chain 752

Chain-Link	Name	Default	Range	Description
752-027	Vdark Average	0	0~1023	ADC average detected value at expansion LED Off.
752-028	Vref Average	0	0~1023	ADC average detected value of reference board reflection at expansion
752-029	Vcln Average	0	0~1023	ADC average detected value of belt reflection at expansion
752-030	Diffusion Vcln Average	0	0~1023	ADC average detected value of Belt reflection Light at diffusion
752-035	Vpatch Average [Y] [CinB]	0	0~1023	ADC average detected value of CinB (high Cin) Patch.
752-036	Vpatch Average [M] [CinB]	0	0~1023	ADC average detected value of CinB (high Cin) Patch.
752-037	Vpatch Average [C] [CinB]	0	0~1023	ADC average detected value of CinB (high Cin) Patch.
752-038	Vpatch Average [K] [CinB]	0	0~1023	ADC average detected value of CinB (high Cin) Patch.
752-050	Fail ADC Sensor	0	0~1	ADC Sensor Fail
752-051	Fail ADC Shutter	0	0~1	ADC Shutter Fail
752-052	Fail ADC Patch [Y]	0	0~1	ADC Patch Fail

Table 1 Chain 752

Chain-Link	Name	Default	Range	Description
752-053	Fail ADC Patch [M]	0	0~1	ADC Patch Fail
752-054	Fail ADC Patch [C]	0	0~1	ADC Patch Fail
752-055	Fail ADC Patch [K]	0	0~1	ADC Patch Fail
752-056	Diffusion Correction Factor	350	0~1023	Diffusion Output Standardization factor
752-057	RADC Target [Y]	375	0~1023	RADC Control Density Target Value
752-058	RADC Target [M]	380	0~1023	RADC Control Density Target Value
752-059	RADC Target [C]	390	0~1023	RADC Control Density Target Value
752-060	RADC Target [K]	460	0~1023	RADC Control Density Target Value
752-061	RADC Average [Y]	400	0~1023	RADC shift average value
752-062	RADC Average [M]	370	0~1023	RADC shift average value
752-063	RADC Average [C]	338	0~1023	RADC shift average value
752-064	RADC Average [K]	380	0~1023	RADC shift average value
752-069	ATC Correction Factor [Y]	1000	0~4095	ATC Sensor Sensitivity Correction Factor
752-070	ATC Correction Factor [Y]	1000	0~4095	ATC Sensor Sensitivity Correction Factor
752-071	ATC Correction Factor [Y]	1000	0~4095	ATC Sensor Sensitivity Correction Factor
752-072	ATC Correction Factor [Y]	1000	0~4095	ATC Sensor Sensitivity Correction Factor
752-073	ATC Correction Offset [Y]	10000	8976~11023	ATC Sensor Sensitivity Correction Offset
752-074	ATC Correction Offset [M]	10000	8976~11023	ATC Sensor Sensitivity Correction Offset
752-075	ATC Correction Offset [C]	10000	8976~11023	ATC Sensor Sensitivity Correction Offset
752-076	ATC Correction Offset [K]	10000	8976~11023	ATC Sensor Sensitivity Correction Offset
752-081	ATC Average [Y]	0	0~1023	ATC Average detected value after sensor sensitivity correction
752-082	ATC Average [M]	0	0~1023	ATC Average detected value after sensor sensitivity correction
752-083	ATC Average [C]	0	0~1023	ATC Average detected value after sensor sensitivity correction
752-084	ATC Average [K]	0	0~1023	ATC Average detected value after sensor sensitivity correction
752-089	ATC Fluctuation [Y]	0	0~1023	ATC Fluctuation Range detected value after sensor sensitivity correction
752-090	ATC Fluctuation [M]	0	0~1023	ATC Fluctuation Range detected value after sensor sensitivity correction
752-091	ATC Fluctuation [C]	0	0~1023	ATC Fluctuation Range detected value after sensor sensitivity correction
752-092	ATC Fluctuation [K]	0	0~1023	ATC Fluctuation Range detected value after sensor sensitivity correction
752-109	Number of Continuous ATC Fails [Y]	0	0~255	No. of Continuous ATC Fails
752-110	Number of Continuous ATC Fails [M]	0	0~255	No. of Continuous ATC Fails
752-111	Number of Continuous ATC Fails [C]	0	0~255	No. of Continuous ATC Fails
752-112	Number of Continuous ATC Fails [K]	0	0~255	No. of Continuous ATC Fails
752-114	Warn ATC Max & min. [Y]	0	0~2	ATC Upper and Lower Limits Warning (0=Normal, 1=ATC Output low HiTC, 2=ATC Output high LowTC)
752-115	Warn ATC Max & min. [M]	0	0~2	ATC Upper and Lower Limits Warning (0=Normal, 1=ATC Output low HiTC, 2=ATC Output high LowTC)
752-116	Warn ATC Max & min. [C]	0	0~2	ATC Upper and Lower Limits Warning (0=Normal, 1=ATC Output low HiTC, 2=ATC Output high LowTC)
752-117	Warn ATC Max & min. [K]	0	0~2	ATC Upper and Lower Limits Warning (0=Normal, 1=ATC Output low HiTC, 2=ATC Output high LowTC)
752-118	Warn ATC Fluctuation Max & min. [Y]	0	0~2	ATC Fluctuation Range Lower Limit Warning (0=Normal, 1=To little fluctuation)
752-119	Warn ATC Fluctuation Max & min. [M]	0	0~2	ATC Fluctuation Range Lower Limit Warning (0=Normal, 1=To little fluctuation)
752-120	Warn ATC Fluctuation Max & min. [C]	0	0~2	ATC Fluctuation Range Lower Limit Warning (0=Normal, 1=To little fluctuation)
752-121	Warn ATC Fluctuation Max & min. [K]	0	0~2	ATC Fluctuation Range Lower Limit Warning (0=Normal, 1=To little fluctuation)
752-122	Fail ATC Patch [Y]	0	0~1	ATC Sensor Fail

Table 1 Chain 752

Chain-Link	Name	Default	Range	Description
752-123	Fail ATC Sensor [M]	0	0~1	ATC Sensor Fail
752-124	Fail ATC Sensor [C]	0	0~1	ATC Sensor Fail
752-125	Fail ATC Sensor [K]	0	0~1	ATC Sensor Fail
752-130	Set ATC Control Nominal Value [0] [Y]	672	0~1023	ATC Control Nominal Value before environment/deterioration correction as center setup
752-131	Set ATC Control Nominal Value [0] [M]	647	0~1023	ATC Control Nominal Value before environment/deterioration correction as center setup
752-132	Set ATC Control Nominal Value [0] [C]	637	0~1023	ATC Control Nominal Value before environment/deterioration correction as center setup
752-133	Set ATC Control Nominal Value [0] [K]	662	0~1023	ATC Control Nominal Value before environment/deterioration correction as center setup
752-134	Set ATC Control Nominal Value [1] [Y]	722	0~1023	ATC Control Nominal Value before environment/deterioration correction as center setup
752-135	Set ATC Control Nominal Value [1] [M]	697	0~1023	ATC Control Nominal Value before environment/deterioration correction as center setup
752-136	Set ATC Control Nominal Value [1] [C]	687	0~1023	ATC Control Nominal Value before environment/deterioration correction as center setup
752-137	Set ATC Control Nominal Value [1] [K]	712	0~1023	[ATC Control Nominal Value before environment/deterioration correction as center setup
752-138	Set ATC Control Nominal Value [2] [K]	607	0~1023	ATC Control Nominal Value before environment/deterioration correction as center setup
752-156	ATC Control Nominal Value [Y]	500	0~1023	[Set ATC Control Nominal Value]+[ATC Environment Correction Value]+[ATC Deterioration Correction Value]+[ATC Nominal Value offset]
752-157	ATC Control Nominal Value [M]	500	0~1023	[Set ATC Control Nominal Value]+[ATC Environment Correction Value]+[ATC Deterioration Correction Value]+[ATC Nominal Value offset]
752-158	ATC Control Nominal Value [C]	500	0~1023	[Set ATC Control Nominal Value]+[ATC Environment Correction Value]+[ATC Deterioration Correction Value]+[ATC Nominal Value offset]
752-159	ATC Control Nominal Value [K]	500	0~1023	[Set ATC Control Nominal Value]+[ATC Environment Correction Value]+[ATC Deterioration Correction Value]+[ATC Nominal Value offset]
752-162	Temp Average	100	80~200	Temperature average value after converting the temperature sensor output to temperature (80=-20 degree Celsius, 100=0 degree Celsius, 200=100 degree Celsius)
752-163	Humidity Average	0	0~100	Humidity average value after converting the humidity sensor output to humidity
752-176	Fail Environment sensor TEMP	0	0~1	[Detection relation (Temperature/Humidity)] Temperature Sensor Fail (Fixed as [Standard Temperature])
752-177	Fail Environment sensor Humidity	0	0~1	[Detection relation (Temperature/Humidity)] Temperature Sensor Fail (Fixed as [Standard Temperature])
752-324	SW_DispMode	0	0~2	Dispense method changing SW (0=ATC+ICDC, 1=ICDC, 2=Timer Disp)
752-357	Timer Disp time [Y]	5	0~250	Timer Disp Setup Time
752-358	Timer Disp time [M]	5	0~250	Timer Disp Setup Time
752-359	Timer Disp time [C]	5	0~250	Timer Disp Setup Time
752-360	Timer Disp time [K]	5	0~250	Timer Disp Setup Time
752-369	SW Potential Control On/Off	0	0~1	0=Controls Laser Diode light quantity 1=Fixed Laser Diode light quantity
752-371	LD Light qty. (Potential Control=Off) [Y]	300	0~1023	Laser Diode light quantity value when potential control is Off.
752-372	LD Light qty (Potential Control=Off) [M]	300	0~1023	Laser Diode light quantity value when potential control is Off.
752-373	LD Light qty (Potential Control=Off) [C]	300	0~1023	Laser Diode light quantity value when potential control is Off.
752-374	LD Light qty (Potential Control=Off) [K]	300	0~1023	Laser Diode light quantity value when potential control is Off.
752-375	Ideal LD light qty [Y]	450	0~1023	Laser Diode light quantity Ideal value calculated from delta-Laser Diode light quantity.
752-376	Ideal LD light qty [M]	450	0~1023	Laser Diode light quantity ideal value calculated from delta-Laser Diode light quantity.
752-377	Ideal LD light qty [C]	450	0~1023	Laser Diode light quantity ideal value calculated from delta-Laser Diode light quantity.
752-378	Ideal LD light qty [K]	450	0~1023	Laser Diode light quantity ideal value calculated from delta-Laser Diode light quantity.
752-394	Change in Lim_d_LD Light qty on Jobstart	150	0~1023	Limit of Delta Laser Diode light quantity Feedback at Job Start

Table 1 Chain 752

Chain-Link	Name	Default	Range	Description
752-395	Change in Lim_d_LD Light qty on Job & Jobend	30	0~1023	Limit of Delta Laser Diode light quantity Feedback at Job End/during Job.
752-397	Change in Lim_d_LD Light qty on Job-start (CL)	150	0~1023	Limit of Delta Laser Diode light quantity Feedback at Job Start (YMC Color differences considered)
752-398	Change in Lim_d_LD Light qty on Job & Jobend (CL)	30	0~1023	Limit of Delta Laser Diode light quantity Feedback at Job End/during Job (YMC Color differences considered)
752-439	Warn LD light amount Setting [Y]	0	0~1	Warning when the Laser Diode light quantity reached Upper or Lower Limit.
752-440	Warn LD light amount Setting [M]	0	0~1	Warning when the Laser Diode light quantity reached Upper or Lower Limit.
752-441	Warn LD light amount Setting [C]	0	0~1	Warning when the Laser Diode light quantity reached Upper or Lower Limit.
752-442	Warn LD light amount Setting [K]	0	0~1	Warning when the Laser Diode light quantity reached Upper or Lower Limit.
752-453	VBias [Y]	887	0~1023	DC VBias value
752-454	VBias [M]	887	0~1023	DC VBias value
752-455	VBias [C]	887	0~1023	DC VBias value
752-456	VBias [K]	887	0~1023	DC VBias value
752-474	Flag Empty Detection Status [Y]	0	0~3	Flag of Empty status (0=Normal 1=In Empty Count 2=Near Empty 3=End)
752-475	Flag Empty Detection Status [M]	0	0~3	Flag of Empty status (0=Normal 1=In Empty Count 2=Near Empty 3=End)
752-476	Flag Empty Detection Status [C]	0	0~3	Flag of Empty status (0=Normal 1=In Empty Count 2=Near Empty 3=End)
752-477	Flag Empty Detection Status [K]	0	0~3	Flag of Empty status (0=Normal 1=In Empty Count 2=Near Empty 3=End)
752-496	Nominal value for NEAR Detection [Y]	625	0~32767	Count threshold for Near Detection
752-497	Nominal value for NEAR Detection [M]	625	0~32767	Count threshold for Near Detection
752-498	Nominal value for NEAR Detection [C]	625	0~32767	Count threshold for Near Detection
752-499	Nominal value for NEAR Detection [K]	625	0~32767	Count threshold for Near Detection
752-784	Fail Disp Unusual [Y]	0	0~1	Fail when new Toner Cartridge is installed and the Disp Motor Drive did not shift from new to old. 0=Normal; 1=Error
752-785	Fail Disp Unusual [M]	0	0~1	Fail when new Toner Cartridge is installed and the Disp Motor Drive did not shift from new to old. 0=Normal; 1=Error
752-786	Fail Disp Unusual [C]	0	0~1	Fail when new Toner Cartridge is installed and the Disp Motor Drive did not shift from new to old. 0=Normal 1=Error
752-787	Fail Disp Unusual [K]	0	0~1	Fail when new Toner Cartridge is installed and the Disp Motor Drive did not shift from new to old. 0=Normal 1=Error
752-788	min. PV Threshold	3	0~255	Minimum PV from Near empty to empty (M/Cstop)
752-804	DispTime Totalizing value for age Correction [Y]	0	0~4294967295	cumulative dispense time for deterioration correction of ATC Control nominal value. Set to 0 at replacement of Developer.
752-805	DispTime Totalizing value for age Correction [M]	0	0~4294967295	cumulative dispense time for deterioration correction of ATC Control nominal value. Set to 0 at replacement of Developer.
752-806	DispTime Totalizing value for age Correction [C]	0	0~4294967295	cumulative dispense time for deterioration correction of ATC Control nominal value. Set to 0 at replacement of Developer.
752-807	DispTime Totalizing value for age Correction [K]	0	0~4294967295	cumulative dispense time for deterioration correction of ATC Control nominal value. Set to 0 at replacement of Developer.
752-814	Pre Near EMP Factor	80	0~255	Factor correcting [Near Detection Nominal Value] after Pre Near is displayed.
752-864	Set ATC Control Nominal Value [2][Y]	620	0~1023	ATC Control nominal value before environment/deterioration correction set as center value
752-865	Set ATC Control Nominal Value [2][M]	595	0~1023	ATC Control nominal value before environment/deterioration correction set as center value

Table 1 Chain 752

Chain-Link	Name	Default	Range	Description
752-866	Set ATC Control Nominal Value [2][C]	585	0~1023	ATC Control nominal value before environment/deterioration correction set as center value
752-873	SW Charge Potential Control ON/OFF	0	0~1	0=Control VH (Add delta-VH to VH according to LD illumination; 1=No control for VH (delta-VH=0)
752-934	RADC Nominal Target [Y]	342	0~1023	RADC target value set as center
752-935	RADC Nominal Target [M]	346	0~1023	RADC target value set as center
752-936	RADC Nominal Target [C]	360	0~1023	RADC target value set as center
752-937	RADC Nominal Target [KY]	350	0~1023	RADC target value set as center
752-938	TRC Nominal Target RADC [Y] [B]	342	0~1023	RADC target value set as center value for tone correction
752-939	TRC Nominal Target RADC [M] [B]	346	0~1023	RADC target value set as center value for tone correction
752-940	TRC Nominal Target RADC [C] [B]	360	0~1023	RADC target value set as center value for tone correction
752-941	TRC Nominal Target RADC [K] [B]	350	0~1023	RADC target value set as center value for tone correction
752-942	TRC Nominal Target RADC [Y] [A]	648	0~1023	RADC target value set as center value for tone correction
752-943	TRC Nominal Target RADC [M] [A]	655	0~1023	RADC target value set as center value for tone correction
752-944	TRC Nominal Target RADC [C] [A]	665	0~1023	RADC target value set as center value for tone correction
752-945	TRC Nominal Target RADC [K] [A]	630	0~1023	RADC target value set as center value for tone correction
752-946	TRC Nominal Target RADC [Y] [C]	960	0~1023	RADC target value set as center value for tone correction
752-947	TRC Nominal Target RADC [M] [C]	946	0~1023	RADC target value set as center value for tone correction
752-948	TRC Nominal Target RADC [C] [C]	945	0~1023	RADC target value set as center value for tone correction
752-949	TRC Nominal Target RADC [K] [C]	895	0~1023	RADC target value set as center value for tone correction
752-968	Set ATC Control Nominal Value [3][Y]	622	0~1023	ATC control reference value before correction for environment/aging as central setting
752-969	Set ATC Control Nominal Value [3][M]	597	0~1023	ATC control reference value before correction for environment/aging as central setting
752-970	Set ATC Control Nominal Value [3][C]	587	0~1023	ATC control reference value before correction for environment/aging as central setting
752-971	Set ATC Control Nominal Value [3][K]	607	0~1023	ATC control reference value before correction for environment/aging as central setting

753-xxx ProCon 2 NVM List

Table 1 Chain 753

Chain-Link	Name	Default	Range	Description
753-001	ADC Tone Correction Switch	0	0~1	4 Patch ADC Gradation Correction. On/Off Switch (0=On, 1=Off)
753-002	IOT Manual ADJ LUT Switch	0	0~1	IOT Manual Adjustment LUT On/Off Switch (0=On, 1=Off)
753-004	P LUTCin [K] [E]	10	0~255	P LUTCin (fixed number) when the Delta LUT is calculated.
753-005	P LUTCin [K] [C]	51	0~255	P LUTCin (fixed number) when the Delta LUT is calculated.
753-006	P LUTCin [K] [A]	102	0~255	P LUTCin (fixed number) when the Delta LUT is calculated.
753-007	P LUTCin [K] [B]	153	0~255	P LUTCin (fixed number) when the Delta LUT is calculated.
753-008	P LUTCin [K] [D]	255	0~255	P LUTCin (fixed number) when the Delta LUT is calculated.
753-009	P LUTCin [Color] [E]	10	0~255	P LUTCin (fixed number) when the Delta LUT is calculated.
753-010	P LUTCin [Color] [C]	51	0~255	P LUTCin (fixed number) when the Delta LUT is calculated.
753-011	P LUTCin [Color] [A]	127	0~255	P LUTCin (fixed number) when the Delta LUT is calculated.
753-012	P LUTCin [Color] [B]	204	0~255	P LUTCin (fixed number) when the Delta LUT is calculated.
753-013	P LUTCin [Color] [D]	255	0~255	P LUTCin (fixed number) when the Delta LUT is calculated.
753-014	Patch Cin [Y] [CinA]	127	0~255	2P Patch Cin (Value is changed by the gradation correction result).

Table 1 Chain 753

Chain-Link	Name	Default	Range	Description
753-015	Patch Cin [M] [CinA]	127	0~255	2P Patch Cin (Value is changed by the gradation correction result).
753-016	Patch Cin [C] [CinA]	127	0~255	2P Patch Cin (Value is changed by the gradation correction result).
753-017	Patch Cin [K] [CinA]	102	0~255	2P Patch Cin (Value is changed by the gradation correction result).
753-018	Patch Cin [Y] [CinB]	204	0~255	2P Patch Cin (Value is changed by the gradation correction result).
753-019	Patch Cin [M] [CinB]	204	0~255	2P Patch Cin (Value is changed by the gradation correction result).
753-020	Patch Cin [C] [CinB]	204	0~255	2P Patch Cin (Value is changed by the gradation correction result).
753-021	Patch Cin [K] [CinB]	153	0~255	2P Patch Cin (Value is changed by the gradation correction result).
753-022	TRC Target RADC [Y] [A]	650	0~1023	Target RADC for Gradation Correction
753-023	TRC Target RADC [Y] [B]	375	0~1023	Target RADC for Gradation Correction
753-024	TRC Target RADC [M] [A]	675	0~1023	Target RADC for Gradation Correction
753-025	TRC Target RADC [M] [B]	380	0~1023	Target RADC for Gradation Correction
753-026	TRC Target RADC [C] [A]	680	0~1023	Target RADC for Gradation Correction
753-027	TRC Target RADC [C] [B]	390	0~1023	Target RADC for Gradation Correction
753-028	TRC Target RADC [K] [A]	715	0~1023	Target RADC for Gradation Correction
753-029	TRC Target RADC [K] [B]	460	0~1023	Target RADC for Gradation Correction
753-030	TRC Current RADC [Y] [A]	650	0~1023	Current RADC for Gradation Correction
753-031	TRC Current RADC [Y] [B]	375	0~1023	Current RADC for Gradation Correction
753-032	TRC Current RADC [M] [A]	675	0~1023	Current RADC for Gradation Correction
753-033	TRC Current RADC [M] [B]	380	0~1023	Current RADC for Gradation Correction
753-034	TRC Current RADC [C] [A]	680	0~1023	Current RADC for Gradation Correction
753-035	TRC Current RADC [C] [B]	390	0~1023	Current RADC for Gradation Correction
753-036	TRC Current RADC [K] [A]	715	0~1023	Current RADC for Gradation Correction
753-037	TRC Current RADC [K] [B]	460	0~1023	Current RADC for Gradation Correction
753-329	TRC_Target RADC [Y] [C]	940	0~1023	Target RADC for tone calibration
753-330	TRC_Target RADC [M] [C]	955	0~1023	Target RADC for tone calibration
753-331	TRC_Target RADC [C] [C]	953	0~1023	Target RADC for tone calibration
753-332	TRC_Target RADC [K] [C]	935	0~1023	Target RADC for tone calibration
753-642	Shatter Open Fail Counter	0	0~255	Count of shutter-close failures (the state the shutter stays opened.)
753-643	Flag ADC shutter OPEN	0	0~1	0: Normal state, 1: Shutter close failure (the state the shutter keeps opened)
753-644	ADC sensor contamination threshold	450	0~1023	Threshold for judging contamination of ADC sensor detection surface
753-645	Flag ADC sensor contamination	0	0~1	0: normal state, 1: ADC sensor contamination on detection surface
753-646	Set RADC target [1][Y]	342	0~1023	RADC target value for center setting: speed mode 1
753-647	Set RADC target [1][M]	346	0~1023	RADC target value for center setting: speed mode 1
753-648	Set RADC target [1][C]	360	0~1023	RADC target value for center setting: speed mode 1
753-649	Set RADC target [1][K]	350	0~1023	RADC target value for center setting: speed mode 1
753-650	Set RADC target [2][Y]	342	0~1023	RADC target value for center setting: speed mode 2
753-651	Set RADC target [2][M]	346	0~1023	RADC target value for center setting: speed mode 2
753-652	Set RADC target [2][C]	360	0~1023	RADC target value for center setting: speed mode 2
753-653	Set RADC target [2][K	350	0~1023	RADC target value for center setting: speed mode 2
753-654	Set RADC target [3][Y]	342	0~1023	RADC target value for center setting: speed mode 3
753-655	Set RADC target [3][M]	346	0~1023	RADC target value for center setting: speed mode 3

Table 1 Chain 753

Chain-Link	Name	Default	Range	Description
753-656	Set RADC target [3[C]	360	0~1023	RADC target value for center setting: speed mode 3
753-657	Set RADC target [3][K]	350	0~1023	RADC target value for center setting: speed mode 3
753-658	Set TRC target RADC during job [1][Y][CinB]	342	0~1023	RADC target value for tone calibration as center setting: speed mode 1
753-659	Set TRC target RADC during job [1][M][CinB]	346	0~1023	RADC target value for tone calibration as center setting: speed mode 1
753-660	Set TRC target RADC during job [1][C][CinB]	360	0~1023	RADC target value for tone calibration as center setting: speed mode 1
753-661	Set TRC target RADC during job [1][K][CinB]	350	0~1023	RADC target value for tone calibration as center setting: speed mode 1
753-662	Set TRC target RADC during job [2][Y][CinB]	342	0~1023	RADC target value for tone calibration as center setting: speed mode 2
753-663	Set TRC target RADC during job [2][M][CinB]	346	0~1023	RADC target value for tone calibration as center setting: speed mode 2
753-664	Set TRC target RADC during job [2][C][CinB]	360	0~1023	RADC target value for tone calibration as center setting: speed mode 2
753-665	Set TRC target RADC during job [2][K][CinB]	350	0~1023	RADC target value for tone calibration as center setting: speed mode 2
753-666	Set TRC target RADC during job [2][Y][CinB]	342	0~1023	RADC target value for tone calibration as center setting: speed mode 3
753-667	Set TRC target RADC during job [2][M][CinB]	346	0~1023	RADC target value for tone calibration as center setting: speed mode 3
753-668	Set TRC target RADC during job [2][C][CinB]	360	0~1023	RADC target value for tone calibration as center setting: speed mode 3
753-669	Set TRC target RADC during job [2][K][CinB]	350	0~1023	RADC target value for tone calibration as center setting: speed mode 3
753-670	Set TRC target RADC during job [1][Y][CinA]	648	0~1023	RADC target value for tone calibration as center setting: speed mode1
753-671	Set TRC target RADC during job [1][M][CinA]	655	0~1023	RADC target value for tone calibration as center setting: speed mode1
753-672	Set TRC target RADC during job [1][C][CinA]	665	0~1023	RADC target value for tone calibration as center setting: speed mode1
753-673	Set TRC target RADC during job [1][K][CinA]	630	0~1023	RADC target value for tone calibration as center setting: speed mode1
753-674	Set TRC target RADC during job [2][Y][CinA]	648	0~1023	RADC target value for tone calibration as center setting: speed mode 2
753-675	Set TRC target RADC during job [2][M][CinA]	655	0~1023	RADC target value for tone calibration as center setting: speed mode 2
753-676	Set TRC target RADC during job [2][C][CinA]	665	0~1023	RADC target value for tone calibration as center setting: speed mode 2
753-677	Set TRC target RADC during job [2][K][CinA]	630	0~1023	RADC target value for tone calibration as center setting: speed mode 2
753-678	Set TRC target RADC during job [3][Y][CinA]	648	0~1023	RADC target value for tone calibration as center setting: speed mode 3

Table 1 Chain 753

Chain-Link	Name	Default	Range	Description
753-679	Set TRC target RADC during job [3][M][CinA]	655	0~1023	RADC target value for tone calibration as center setting: speed mode 3
753-680	Set TRC target RADC during job [3][C][CinA]	665	0~1023	RADC target value for tone calibration as center setting: speed mode 3
753-681	Set TRC target RADC during job [3][K][CinA]	630	0~1023	RADC target value for tone calibration as center setting: speed mode 3
753-682	Set TRC target RADC during job [1][Y][CinC]	960	0~1023	RADC target value for tone calibration as center setting: speed mode1
753-683	Set TRC target RADC during job [1][M][CinC]	946	0~1023	RADC target value for tone calibration as center setting: speed mode1
753-684	Set TRC target RADC during job [1][C][CinC]	945	0~1023	RADC target value for tone calibration as center setting: speed mode1
753-685	Set TRC target RADC during job [1][K][CinC]	895	0~1023	RADC target value for tone calibration as center setting: speed mode1
753-686	Set TRC target RADC during job [2][Y][CinC]	960	0~1023	RADC target value for tone calibration as center setting: speed mode 2
753-687	Set TRC target RADC during job [2][M][CinC]	946	0~1023	RADC target value for tone calibration as center setting: speed mode 2
753-688	Set TRC target RADC during job [2][C][CinC]	945	0~1023	RADC target value for tone calibration as center setting: speed mode 2
753-689	Set TRC target RADC during job [2][K][CinC]	895	0~1023	RADC target value for tone calibration as center setting: speed mode 2
753-690	Set TRC target RADC during job [3][Y][CinC]	960	0~1023	RADC target value for tone calibration as center setting: speed mode 3
753-691	Set TRC target RADC during job [3][Y][CinC]	946	0~1023	RADC target value for tone calibration as center setting: speed mode 3
753-692	Set TRC target RADC during job [3][Y][CinC]	945	0~1023	RADC target value for tone calibration as center setting: speed mode 3
753-693	Set TRC target RADC during job [3][Y][CinC]	895	0~1023	RADC target value for tone calibration as center setting: speed mode 3
753-801	Legible Y	1024	0~2047	Legible Adjustment (Y)
753-802	Legible M	1024	0~2047	Legible Adjustment (M)
753-803	Legible C	1024	0~2047	Legible Adjustment (C)
753-804	Legible K	1024	0~2047	Legible Adjustment (K)
753-805	Pattern Y	0	0~19	InOut Pattern Setup (Y)
753-806	Pattern M	0	0~19	InOut Pattern Setup (M)
753-807	Pattern C	0	0~19	InOut Pattern Setup (C)
753-808	Pattern K	0	0~19	InOut Pattern Setup (K)
753-831	Patch Cin[Y][CinC]	51	0~255	Patch Cin (Y)
753-832	Patch Cin[M][CinC]	51	0~255	Patch Cin (M)
753-833	Patch Cin[C][CinC]	51	0~255	Patch Cin (C)
753-834	Patch Cin[K][CinC]	51	0~255	Patch Cin (K)
753-835	Patch Cin[Y][CinF]	0	0~255	Patch Cin (Y)

Table 1 Chain 753

Chain-Link	Name	Default	Range	Description
753-836	Patch Cin[M][CinF]	0	0~255	Patch Cin (M)
753-837	Patch Cin[C][CinF]	0	0~255	Patch Cin (C)
753-838	Patch Cin[K][CinF]	0	0~255	Patch Cin (K)
753-839	TRC_Target RADC [Y] [C]	0	0~1023	Current RADC for tone calibration
753-840	TRC_Target RADC [Y] [FC]	0	0~1023	Current RADC for tone calibration
753-841	TRC_Target RADC [M] [C]	0	0~1023	Current RADC for tone calibration
753-842	TRC_Target RADC [M] [F]	0	0~1023	Current RADC for tone calibration
753-843	TRC_Target RADC [C] [C]	0	0~1023	Current RADC for tone calibration
753-844	TRC_Target RADC [C] [F]	0	0~1023	Current RADC for tone calibration
753-845	TRC_Target RADC [K] [C]	0	0~1023	Current RADC for tone calibration
753-846	TRC_Target RADC [K] [F]	0	0~1023	Current RADC for tone calibration
753-847	PreNearEmpty Mode	0	0~1	Selection of mode for Pre Near display algorithm

755-xxx CRUM NVM List

Table 1 Chain 755

Chain-Link	Name	Default	Range	Description
755-001	#Y_Drum Life Count - kCy	0	0~65535	To determine Drum Life
755-002	#Y_Drum Cycle Count - Total	0	0~4294967295	Total P/R cumulative No. of Rotations
755-003	DC Drum Cycle Count	0	0~4294967295	DC Charged l P/R cumulative No. of Rotations (1bit=0.1cycle)
755-004	AC Drum Cycle Count	0	0~4294967295	AC Charged l P/R cumulative No. of Rotations (1bit=0.1cycle)
755-005	Print Count - Color	0	0~4294967295	Accumulates the # of Full Color prints.
755-006	Print Count - Black	0	0~294967295	Accumulates the # of B/W prints.
755-007	#Y_Print Count - Full Color, A4L only	0	0-~294967295	Accumulates the # of FC prints - A4LEF equivalent (1bit=100/A4.1 sheet).
755-008	#Y_Print Count - Black, A4L only	0	0~4294967295	Accumulates the # of B/W prints - A4LEF equivalent (1bit=100/A4.1 sheet).
755-009	#Y_Shutdown Count - Full Color	0	0~65535	Accumulates the # of shutdowns during FC jobs.
755-010	#Y_Shutdown Count - Black	0	0~65535	Accumulates the # of shutdowns during B/W jobs.
755-011	#Y_Setup Count - Full Color	0	0~65535	Accumulates the # of Setups immediately after FC jobs.
755-012	#Y_Setup Count - Black	0	0~65535	Accumulates the # of Setups immediately after B/W jobs.
755-013	#Y_First Install - Year	0	0~99	Writes the date info when the first job was performed.
755-014	#Y_First Install - Month	0	0~12	Writes the date info when the first job was performed.
755-015	#Y_First Install - Day	0	0~31	Writes the date info when the first job was performed.
755-016	#Y_First install, Part#1	0	0~65535	Records the machine serial # when the CRU was first installed.
755-017	#Y_First install, Part#2	0	0~65535	Records the machine serial # when the CRU was first installed.
755-018	#Y_Last install, Part#1	0	0~65535	Records the machine (2nd time onwards) serial # when the CRU was last installed.
755-019	#Y_Last install, Part#2	0	0~65535	Records the machine (2nd time onwards) serial # when the CRU was last installed.
755-020	#Y_Machine Serial # - Write count	0	0~65535	Accumulates the # of machine into which CRU is installed.
755-022	#Y_CRU TYPE	CRU Type	0~255	CRU Type is recorded.
755-028	#M_Drum Life Count - kCy	0	65535	To determine Drum Life
755-029	M_Drum Cycle Count - Total	0	0~ 4294967295	cumulative # of P/R cycles (1bit=0.1cycle)

Table 1 Chain 755

Chain-Link	Name	Default	Range	Description
755-030	#M_DC Drum Cycle Count	0	0~ 4294967295	cumulative # of DC charge current P/R cycles (1bit=0.1cycle)
755-031	#M_AC Drum Cycle Count	0	0~ 4294967295	cumulative # of AC charge current P/R cycles (1bit=0.1cycle)
755-032	#M_Print Count - Color	0	0~ 4294967295	Accumulates the # of Full Color prints.
755-033	#M_Print Count - Black	0	0~ 4294967295	Accumulates the # of B/W prints.
755-034	#M_Print Count - Full Color, A4L only	0	0~ 4294967295	Accumulates the # of FC prints - A4LEF equivalent (1bit=100/A4.1 sheet).
755-035	#M_Print Count - Black, A4L only	0	0~ 4294967295	Accumulates the # of B/W prints - A4LEF equivalent (1bit=100/A4.1 sheet).
755-036	#M_Shutdown Count - Full Color	0	0~65535	Accumulates the # of shutdowns during FC jobs.
755-037	#M_Shutdown Count - Black	0	0~65535	Accumulates the # of shutdowns during B/W jobs.
755-038	#M_Setup Count - Full Color	0	0~65535	Accumulates the # of Setups immediately after FC jobs.
755-039	#M_Setup Count - Black	0	0~65535	Accumulates the # of Setups immediately after B/W jobs.
755-040	#M_First Install - Year	0	0~99	Writes the date info when the first job was performed.
755-041	#M_First Install - Month	0	0~12	Writes the date info when the first job was performed.
755-042	#M_First Install - Day	0	0~31	Writes the date info when the first job was performed.
755-043	#M_First install, Part#1	0	0~65535	Records the machine serial # when the CRU was first installed.
755-044	#M_First install, Part#2	0	0~65535	Records the machine serial # when the CRU was first installed.
755-045	#M_Last install, Part#1	0	0~65535	Records the machine (2nd time onwards) serial # when the CRU was last installed.
755-046	#M_Last install, Part#2	0	0~65535	Records the machine (2nd time onwards) serial # when the CRU was last installed.
755-047	#M_Machine Serial # - Write count	0	0~65535	Accumulates the # of machine into which CRU is installed.
755-049	#M_CRU TYPE	CRU Type	0~255	CRU Type is recorded.
755-055	#C_Drum Life Count - kCy	0	0~65535	To determine Drum Life
755-056	#C_Drum Cycle Count - Total	0	0~ 4294967295	cumulative # of P/R cycles (1bit=0.1cycle)
755-057	#C_DC Drum Cycle Count	0	0~ 4294967295	cumulative # of DC charge current P/R cycles (1bit=0.1cycle)
755-058	#C_AC Drum Cycle Count	0	0~ 4294967295	cumulative # of AC charge current P/R cycles (1bit=0.1cycle)
755-059	#C_Print Count - Color	0	0~ 4294967295	Accumulates the # of Full Color prints.*** Range**=0~100K for DC 2240/1632; 0~4294967295 for DC 3535
755-060	#C_Print Count - Black	0	0~ 4294967295	Accumulates the # of B/W prints.
755-061	#C_Print Count - Full Color, A4L only	0	0~ 4294967295	Accumulates the # of FC prints - A4LEF equivalent (1bit=100/A4.1 sheet).
755-062	#C_Print Count - Black, A4L only	0	0~ 4294967295	Accumulates the # of B/W prints - A4LEF equivalent (1bit=100/A4.1 sheet).
755-063	#C_Shutdown Count - Full Color	0	0~65535	Accumulates the # of shutdowns during FC jobs.
755-064	#C_Shutdown Count - Black	0	0~65535	Accumulates the # of shutdowns during B/W jobs.
755-065	#C_Setup Count - Full Color	0	0~65535	Accumulates the # of Setups immediately after FC jobs.
755-066	#C_Setup Count - Black	0	0~65535	Accumulates the # of Setups immediately after B/W jobs.
755-067	#C_First Install - Year	0	0~99	Writes the date info when the first job was performed.
755-068	#C_First Install - Month	0	0~12	Writes the date info when the first job was performed.
755-069	#C_First Install - Day	0	0~31	Writes the date info when the first job was performed.
755-070	#C_First install, Part#1	0	0~65535	Records the machine serial # when the CRU was first installed.
755-071	#C_First install, Part#2	0	0~65535	Records the machine serial # when the CRU was first installed.
755-072	#C_Last install, Part#1	0	0~65535	Records the machine (2nd time onwards) serial # when the CRU was last installed.
755-073	#C_Last install, Part#2	0	0~65535	Records the machine (2nd time onwards) serial # when the CRU was last installed.
755-074	#C_Machine Serial # - Write count	0	0~65535	Accumulates the # of machine into which CRU is installed.

Table 1 Chain 755

Chain-Link	Name	Default	Range	Description
755-076	#C_CRU TYPE	CRU Type	0~255	CRU Type is recorded.
755-082	#K_Drum Life Count - kCy	0	0~65535	To determine Drum Life
755-083	#K_Drum Cycle Count - Total	0	0~ 4294967295	cumulative # of P/R cycles (1bit=0.1cycle)
755-084	#K_DC Drum Cycle Count	0	0~ 4294967295	cumulative # of DC charge current P/R cycles (1bit=0.1cycle)
755-085	#K_AC Drum Cycle Count	0	0~ 4294967295	cumulative # of AC charge current P/R cycles (1bit=0.1cycle)
755-086	#K_Print Count - Color	0	0~ 4294967295	Accumulates the # of Full Color prints.
755-087	#K_Print Count - Black	0	0~ 4294967295	Accumulates the # of B/W prints.
755-088	#K_Print Count - Full Color, A4L only	0	0~ 4294967295	Accumulates the # of FC prints - A4LEF equivalent (1bit=100/A4.1 sheet).
755-089	#K_Print Count - Black, A4L only	0	0~ 4294967295	Accumulates the # of B/W prints - A4LEF equivalent (1bit=100/A4.1 sheet).
755-090	#K_Shutdown Count - Full Color	0	0~65535	Accumulates the # of shutdowns during FC jobs.
755-091	#K_Shutdown Count - Black	0	0~65535	Accumulates the # of shutdowns during B/W jobs.
755-092	#K_Setup Count - Full Color	0	0~65535	Accumulates the # of Setups immediately after FC jobs.
755-093	#K_Setup Count - Black	0	0~65535	Accumulates the # of Setups immediately after B/W jobs.
755-094	#K_First Install - Year	0	0~99	Writes the date info when the first job was performed.
755-095	#K_First Install - Month	0	0~12	Writes the date info when the first job was performed.
755-096	#K_First Install - Day	0	0~31	Writes the date info when the first job was performed.
755-097	#K_First install, Part#1	0	0~65535	Records the machine serial # when the CRU was first installed.
755-098	#K_First install, Part#2	0	0~65535	Records the machine serial # when the CRU was first installed.
755-099	#K_Last install, Part#1	0	0~65535	Records the machine (2nd time onwards) serial # when the CRU was last installed.
755-100	#K_Last install, Part#2	0	0~65535	Records the machine (2nd time onwards) serial # when the CRU was last installed.
755-101	#K_Machine Serial # - Write count	0	0~65535	Accumulates the # of machine into which CRU is installed.
755-103	#K_CRU TYPE	CRU Type	0~255	CRU Type is recorded.
755-201	#Y_Area Coverage Count, 4C (0-5%)	0	0~65535	Area Coverage counter for 4C (0 to 5%) (1 bit=1 page)
755-202	#Y_Area Coverage Count, 4C (6-10%)	0	0~65535	Area Coverage counter for 4C (6-10%) (1 bit=1 page)
755-203	#Y_Area Coverage Count, 4C (11-20%)	0	0~65535	Area Coverage counter for 4C (11-20%) (1 bit=1 page)
755-204	#Y_Area Coverage Count, 4C (21-50%)	0	0~65535	Area Coverage counter for 4C (21-50%) (1 bit=1 page)
755-205	#Y_Area Coverage Count, 4C (51-100%)	0	0~65535	Area Coverage counter for 4C (51-100%) (1 bit=1 page)
755-206	#Y_Area Coverage Count, K (0-5%)	0	0~65535	Area Coverage counter for K (0 to 5%) (1 bit=1 page)
755-207	#Y_Area Coverage Count, K (6-10%)	0	0~65535	Area Coverage counter for K (6-10%) (1 bit=1 page)
755-208	#Y_Area Coverage Count, K (11-20%)	0	0~65535	Area Coverage counter for K (11-20%) (1 bit=1 page)
755-209	#Y_Area Coverage Count, K (21-50%)	0	0~65535	Area Coverage counter for 4C (21-50%) (1 bit=1 page)
755-210	#Y_Area Coverage Count, 4C (51-100%)	0	0~65535	Area Coverage counter for 4C (51-100%) (1 bit=1 page)
755-211	#Y_CRU Install - Color	0	0~4	Y=1; M=2; 3=C; 4=K
755-212	#Y_BCR_CLN Count	0	0~65535	To write the number of times of BCR-CLN
755-239	#Y_Initial Thickness	0	0~5000	Initial film thickness
755-301	#M_Area Coverage Count, 4C (0-5%)	0	0~65535	Area Coverage counter for 4C (0 to 5%) (1 bit=1 page)

Table 1 Chain 755

Chain-Link	Name	Default	Range	Description
755-302	#M_Area Coverage Count, 4C (6-10%)	0	0~65535	Area Coverage counter for 4C (6-10%) (1 bit=1 page)
755-303	#M_Area Coverage Count, 4C (11-20%)	0	0~65535	Area Coverage counter for 4C (11-20%) (1 bit=1 page)
755-304	#M_Area Coverage Count, 4C (21-50%)	0	0~65535	Area Coverage counter for 4C (21-50%) (1 bit=1 page)
755-305	#M_Area Coverage Count, 4C (51-100%)	0	0~65535	Area Coverage counter for 4C (51-100%) (1 bit=1 page)
755-306	#M_Area Coverage Count, K (0-5%)	0	0~65535	Area Coverage counter for K (0 to 5%) (1 bit=1 page)
755-307	#M_Area Coverage Count, K (6-10%)	0	0~65535	Area Coverage counter for K (6-10%) (1 bit=1 page)
755-308	#M_Area Coverage Count, K (11-20%)	0	0~65535	Area Coverage counter for K (11-20%) (1 bit=1 page)
755-309	#M_Area Coverage Count, K (21-50%)	0	0~65535	Area Coverage counter for 4C (21-50%) (1 bit=1 page)
755-310	#M_Area Coverage Count, 4C (51-100%)	0	0~65535	Area Coverage counter for 4C (51-100%) (1 bit=1 page)
755-311	#M_CRU Install - Color	0	0~4	Y=1; M=2; 3=C; 4=K
755-312	#M_BCR_CLN Count	0	0~65535	To write the number of times of BCR-CLN
755-339	#M_Initial Thickness	0	0~5000	Initial film thickness
755-401	#C_Area Coverage Count, 4C (0-5%)	0	0~65535	Area Coverage counter for 4C (0 to 5%) (1 bit=1 page)
755-402	#C_Area Coverage Count, 4C (6-10%)	0	0~65535	Area Coverage counter for 4C (6-10%) (1 bit=1 page)
755-403	#C_Area Coverage Count, 4C (11-20%)	0	0~65535	Area Coverage counter for 4C (11-20%) (1 bit=1 page)
755-404	#C_Area Coverage Count, 4C (21-50%)	0	0~65535	Area Coverage counter for 4C (21-50%) (1 bit=1 page)
755-405	#C_Area Coverage Count, 4C (51-100%)	0	0~65535	Area Coverage counter for 4C (51-100%) (1 bit=1 page)
755-406	#C_Area Coverage Count, K (0-5%)	0	0~65535	Area Coverage counter for K (0 to 5%) (1 bit=1 page)
755-407	#M_Area Coverage Count, K (6-10%)	0	0~65535	Area Coverage counter for K (6-10%) (1 bit=1 page)
755-408	#M_Area Coverage Count, K (11-20%)	0	0~65535	Area Coverage counter for K (11-20%) (1 bit=1 page)
755-409	#C_Area Coverage Count, K (21-50%)	0	0~65535	Area Coverage counter for 4C (21-50%) (1 bit=1 page)
755-410	#C_Area Coverage Count, 4C (51-100%)	0	0~65535	Area Coverage counter for 4C (51-100%) (1 bit=1 page)
755-411	#C_CRU Install - Color	0	0~4	Y=1; M=2; 3=C; 4=K
755-412	#C_BCR_CLNCount	0	0~65535	Counter for BCR Cleaning
755-439	#C_Initial Thickness	0	0~5000	Initial film thickness
755-501	#K_Area Coverage Count, 4C (0-5%)	0	0~65535	Area Coverage counter for 4C (0 to 5%) (1 bit=1 page)
755-502	#K_Area Coverage Count, 4C (6-10%)	0	0~65535	Area Coverage counter for 4C (6-10%) (1 bit=1 page)
755-503	#K_Area Coverage Count, 4C (11-20%)	0	0~65535	Area Coverage counter for 4C (11-20%) (1 bit=1 page)
755-504	#K_Area Coverage Count, 4C (21-50%)	0	0~65535	Area Coverage counter for 4C (21-50%) (1 bit=1 page)
755-505	#K_Area Coverage Count, 4C (51-100%)	0	0~65535	Area Coverage counter for 4C (51-100%) (1 bit=1 page)
755-506	#K_Area Coverage Count, K (0-5%)	0	0~65535	Area Coverage counter for K (0 to 5%) (1 bit=1 page)
755-507	#K_Area Coverage Count, K (6-10%)	0	0~65535	Area Coverage counter for K (6-10%) (1 bit=1 page)

Table 1 Chain 755

Chain-Link	Name	Default	Range	Description
755-508	#K_Area Coverage Count, K (11-20%)	0	0~65535	Area Coverage counter for K (11-20%) (1 bit=1 page)
755-509	#K_Area Coverage Count, K (21-50%)	0	0~65535	Area Coverage counter for 4C (21-50%) (1 bit=1 page)
755-510	#K_Area Coverage Count, 4C (51-100%)	0	0~65535	Area Coverage counter for 4C (51-100%) (1 bit=1 page)
755-511	#K_CRU Install - Color	0	0~4	Y=1; M=2; 3=C; 4=K
755-512	#K_BCR_CLN Count	0	0~65535	To write the number of times of BCR-CLN
755-539	#K_Initial Thickness	0	0~5000	Initial film thickness

760-xxx Regicon NVM List

Table 1 Chain 760

Chain-Link	Name	Default	Range	Description
760-001	Lposi	3004	1~3004	Permissible misregistration between the center of optical axis of MOB sensor and the center of fine setup pattern (difference between left and right counter values)
760-002	NGcnt	50000	0~65535	Count equivalent to Max misregistration on rough setup pattern + retrieval delay
760-003	OKcnt	601	0~8000	Count equivalent to AC variation and retrieval delay
760-004	ErrV	11483	0~65535	from patch start by belt speed change to the sensor B side of the header block K
760-005	GapV	10000	0~65535	Error in count equivalent to 1-block length due to belt speed change
760-006	Block	3	0~4	Threshold of pattern valid no. of Blocks. Fail occurs if the value is not corrected below the threshold.
760-007	Y-MAG	716	0~1432	Adjusts the fast scan direction image 100% magnification by switching the average frequency of each ROS video clock. (DC 2240/1632=1/4 pixel/bit; DC 3535=1/10 pixel/bit)
760-008	M-MAG	716	0~1432	Adjusts the fast scan direction image 100% magnification by switching the average frequency of each ROS video clock. (DC 2240/1632=1/4 pixel/bit; DC 3535=1/10 pixel/bit)
760-009	C-MAG	716	0~1432	Adjusts the fast scan direction image 100% magnification by switching the average frequency of each ROS video clock. (DC 2240/1632=1/4 pixel/bit; DC 3535=1/10 pixel/bit)
760-010	K-MAG	716	0~1432	Adjusts the fast scan direction image 100% magnification by switching the average frequency of each ROS video clock. (DC 2240/1632=1/4 pixel/bit; DC 3535=1/10 pixel/bit)
760-011	Y-BAL	421	0~842	Adjusts the left/right magnification in fast scan direction with respect to image center by changing the sweep gradient of ROS video clock. (DC 2240/1632=1/8 pixel/bit; DC 3535=1/20 pixel/bit)
760-012	M-BAL	421	0~842	Adjusts the left/right magnification in fast scan direction with respect to image center by changing the sweep gradient of ROS video clock. (DC 2240/1632=1/8 pixel/bit; DC 3535=1/20 pixel/bit)
760-013	C-BAL	421	0~842	Adjusts the left/right magnification in fast scan direction with respect to image center by changing the sweep gradient of ROS video clock. (DC 2240/1632=1/8 pixel/bit; DC 3535=1/20 pixel/bit)
760-014	K-BAL	421	0~842	Adjusts the left/right magnification in fast scan direction with respect to image center by changing the sweep gradient of ROS video clock. (DC 2240/1632=1/8 pixel/bit; DC 3535=1/20 pixel/bit)
760-015	Y-Skew misregistration	500	0~1000	100=1 rotation. 500 and above=CW direction, Below 500=CCW direction
760-016	M-Skew misregistration	500	0~1000	100=1 rotation. 500 and above=CW direction, Below 500=CCW direction
760-017	C-Skew misregistration	500	0~1000	100=1 rotation. 500 and above=CW direction, Below 500=CCW direction
760-018	K-Skew misregistration	500	0~1000	100=1 rotation. 500 and above=CW direction, Below 500=CCW direction
760-019	Y-XSO	236	0~472	Adjusts the fast scan direction write start position by the # of Video clocks from SOS signal. (1 pixel/bit)
760-020	M-XSO	236	0~472	Adjusts the fast scan direction write start position by the # of Video clocks from SOS signal. (1 pixel/bit)
760-021	C-XSO	236	0~472	Adjusts the fast scan direction write start position by the # of Video clocks from SOS signal. (1 pixel/bit)

Table 1 Chain 760

Chain-Link	Name	Default	Range	Description
760-022	K-XSO	236	0~472	Adjusts the fast scan direction write start position by the # of Video clocks from SOS signal. (1 pixel/bit)
760-023	Y-YSO	237	0~474	Adjusts the slow scan direction write start position by the #. of LS signal counts from the ROS/Image/Patch Start signal. (1 pixel/bit)
760-024	M-YSO	237	0~474	Adjusts the slow scan direction write start position by the #. of LS signal counts from the ROS/Image/Patch Start signal. (1 pixel/bit)
760-025	C-YSO	237	0~474	Adjusts the slow scan direction write start position by the #. of LS signal counts from the ROS/Image/Patch Start signal. (1 pixel/bit)
760-026	K-YSO	237	0~474	Adjusts the slow scan direction write start position by the #. of LS signal counts from the ROS/Image/Patch Start signal. (1 pixel/bit)
760-027	Regi Con/Circum. Length Correction implement SW	3	0~3	For check during servicing etc. 0=Does not perform Regi Control nor Circumference Length Correction 1=Performs Regi Control, does not perform Circumference Length Correction 2=Does not perform Regi Control, performs Circumference Length Correction 3=Performs Regi Control and Circumference Length Correction
760-028	RC Start Temp	40	10~250	Threshold of (Normal) Regi Control Implementation Temperature difference. Value is 10 times the temperature. (0.1 degree Celsius interval)
760-029	OLRC implementation SW	1	0~1	0=Does not perform Open Loop Regi control; 1=Performs Open Loop Regi control
760-030	Y-OLRC Start Temp	30	10~100	Threshold of Yellow Open Loop Regi control implementation temperature difference. Value is 10 times the temperature. (0.1 degree Celsius interval)
760-031	M-OLRC Start Temp	30	10~100	Threshold of Magenta Open Loop Regi control implementation temperature difference. Value is 10 times the temperature. (0.1 degree Celsius interval)
760-032	K-OLRC Start Temp	30	10~100	Threshold of Black Open Loop Regi Control Implementation Temperature difference. Value is 10 times the temperature. (0.1 degree Celsius interval)
760-033 **DC3535**	Lchev	100	0~255	Tolerance of color misregistration in lateral direction (2m/bit)
760-034 **DC5353**	Pchev	100	0~255	Tolerance of color misregistration in lateral direction (2m/bit)
760-035	Aok (for Diag Regi Con)	20	1~24	Threshold of No. of valid Blocks of fine adjustment pattern at Diag Regi Control (DC685). NG occurs if the value is out corrected below the threshold.
760-036	Aok (for normal Regi Con)	8	1~12	Threshold of No. of valid Blocks of fine adjustment pattern at Normal Regi Control. NG occurs if the value is out corrected below the threshold.
760-037	LEDset-IN-A	2	0~2	MOB LED On/Off and light quantity step at IN side. 0=Off; 1=Low; 2=High
760-038	LEDset-IN-B	2	0~2	MOB LED On/Off and light quantity step at IN side.0=Off; 1=Low 2;=High
760-039	LED-IN-A-Low	12	0~60	Set current value when light quantity on the LED-A side of IN-MOB is Low
760-040	LED-IN-A-High	25	0~60	Set current value when light quantity on the LED-A side of IN-MOB is High
760-041	LED-IN-B-Low	12	0~60	Set current value when light quantity on the LED-b side of IN-MOB is Low
760-042	LED-IN-B-High	25	0~60	Set current value when light quantity on the LED-B side of IN-MOB is High
760-043	LEDset-OUT-A	2	0~2	MOB LED On/Off and light quantity step at OUT side. 0=Off; 1=Low; 2=High
760-044	LEDset-OUT-B	2	0~2	MOB LED On/Off and light quantity step at OUT side 0=Off; 1=Low; 2=High
760-045	LED-OUT-A-Low	12	0~60	Set current value when light quantity on the LED-A side of OUT-MOB is Low
760-046	LED-OUT-A-High	25	0~60	Set current value when light quantity on the LED-A side of OUT-MOB is High
760-047	LED-OUT-B-Low	12	0~60	Set current value when light quantity on the LED-b side of OUT-MOB is Low
760-048	LED-OUT-B-High	25	0~60	Set current value when light quantity on the LED-B side of OUT-MOB is High

Table 1 Chain 760

Chain-Link	Name	Default	Range	Description
760-049	Y-XBI	0	0~3	Adjusts fast scan direction write start position by switching the video clock phase from SOS signal. (DC 2240/1632=1 pixel/bit; DC 3535=1/5 pixel/bit)
760-050	M-XBI	0	0~3	Adjusts fast scan direction write start position by switching the video clock phase from SOS signal. (DC 2240/1632=1 pixel/bit; DC 3535=1/5 pixel/bit)
760-051	C-XBI	0	0~3	Adjusts fast scan direction write start position by switching the video clock phase from SOS signal. (DC 2240/1632=1 pixel/bit; DC 3535=1/5 pixel/bit)
760-052	K-XBI	0	0~3	Adjusts fast scan direction write start position by switching the video clock phase from SOS signal. (DC 2240/1632=1 pixel/bit; DC 3535=1/5 pixel/bit)
760-053	Y-OLXSO	10	0~20	Adjust the writing-start position in FS direction, using Open Loop, with number of video locks from SOS signal, based on temperature detection results, separately from normal Regi Con cycle (1 pixel/bit). This NVM is defined by correction amount from the current set value XSO-; the level of correction amount is four steps from -1 to -4 depending on the temperature. XSO- is overwritten based on the selected correction amount.
760-054	M-OLXSO	10	0~20	Adjust the writing-start position in FS direction, using Open Loop, with number of video locks from SOS signal, based on temperature detection results, separately from normal Regi Con cycle (1 pixel/bit). This NVM is defined by correction amount from the current set value XSO-; the level of correction amount is four steps from -1 to -4 depending on the temperature. XSO- is overwritten based on the selected correction amount
760-055	C-OLXSO	10	0~20	Adjust the writing-start position in FS direction, using Open Loop, with number of video locks from SOS signal, based on temperature detection results, separately from normal Regi Con cycle (1 pixel/bit). This NVM is defined by correction amount from the current set value XSO-; the level of correction amount is four steps from -1 to -4 depending on the temperature. XSO- is overwritten based on the selected correction amount
760-056	K-OLXSO	10	0~20	Adjust the writing-start position in FS direction, using Open Loop, with number of video locks from SOS signal, based on temperature detection results, separately from normal Regi Con cycle (1 pixel/bit). This NVM is defined by correction amount from the current set value XSO-; the level of correction amount is four steps from -1 to -4 depending on the temperature. XSO- is overwritten based on the selected correction amount
760-057	Y-OLXBI	0	0~3	Adjust writing-start position in FS direction in Open Loop, by switching video lock phase from SOS signal, based on temperature detection results, separately from normal Regi Con cycle (DC 2240/1632=1 pixel/bit; DC 3535=1/5 pixel/bit).This NVM is defined with the correction amount from the current set values XBI-, XSO-; its level is 5 steps from -1 to -5 depending on the temperature. XBI- and XSO- are overwritten based on the selected correction amount.
760-058	M-OLXBI	0	0~3	Adjust writing-start position in FS direction in Open Loop, by switching video lock phase from SOS signal, based on temperature detection results, separately from normal Regi Con cycle (DC 2240/1632=1 pixel/bit; DC 3535=1/5 pixel/bit).This NVM is defined with the correction amount from the current set values XBI-, XSO-; its level is 5 steps from -1 to -5 depending on the temperature. XBI- and XSO- are overwritten based on the selected correction amount.
760-059	O-OLXBI	0	0~3	Adjust writing-start position in FS direction in Open Loop, by switching video lock phase from SOS signal, based on temperature detection results, separately from normal Regi Con cycle (DC 2240/1632=1 pixel/bit; DC 3535=1/5 pixel/bit).This NVM is defined with the correction amount from the current set values XBI-, XSO-; its level is 5 steps from -1 to -5 depending on the temperature. XBI- and XSO- are overwritten based on the selected correction amount.
760-060	K-OLXBI	0	0~3	Adjust writing-start position in FS direction in Open Loop, by switching video lock phase from SOS signal, based on temperature detection results, separately from normal Regi Con cycle (DC 2240/1632=1 pixel/bit; DC 3535=1/5 pixel/bit).This NVM is defined with the correction amount from the current set values XBI-, XSO-; its level is 5 steps from -1 to -5 depending on the temperature. XBI- and XSO- are overwritten based on the selected correction amount.

Table 1 Chain 760

Chain-Link	Name	Default	Range	Description
760-061	Y-OLYSO	4	0~20	Adjust using Open Loop the writing-start position in SS direction with the number of LS signal counts from ROS Image Patch Start signal, based on temperature detection results, separately from normal Regi Con cycle (1 pixel/bit).This NVM is defined with the correction amount from the current set value YSO-; its level is 4 steps from -1 to -4 depending on the temperature. YSO- is overwritten based on the selected correction amount.
760-062	M-OLYSO	10	0~20	Adjust using Open Loop the writing-start position in SS direction with the number of LS signal counts from ROS Image Patch Start signal, based on temperature detection results, separately from normal Regi Con cycle (1 pixel/bit).This NVM is defined with the correction amount from the current set value YSO-; its level is 4 steps from -1 to -4 depending on the temperature. YSO- is overwritten based on the selected correction amount.
760-063	C-OLYSO	10	0~20	Adjust using Open Loop the writing-start position in SS direction with the number of LS signal counts from ROS Image Patch Start signal, based on temperature detection results, separately from normal Regi Con cycle (1 pixel/bit).This NVM is defined with the correction amount from the current set value YSO-; its level is 4 steps from -1 to -4 depending on the temperature. YSO- is overwritten based on the selected correction amount.
760-064	K-OLYSO	10	0~20	Adjust using Open Loop the writing-start position in SS direction with the number of LS signal counts from ROS Image Patch Start signal, based on temperature detection results, separately from normal Regi Con cycle (1 pixel/bit).This NVM is defined with the correction amount from the current set value YSO-; its level is 4 steps from -1 to -4 depending on the temperature. YSO- is overwritten based on the selected correction amount.
760-065	Y-OLMAG	100	0~200	In Open Loop, adjust all magnification in FS direction by switching the average frequency of video clock of each ROS, based on temperature detection results, separately from normal Regi Con cycle (DC 2240/1632=1/4 pixel/bit; DC 3535=1/10 pixel/bit).This NVM is defined with the correction amount from the current set value MAG-; its level is 4 steps from -1 to -4 depending on temperature. The above MAG- is overwritten based on the selected correction amount
760-066	M-OLMAG	100	0~200	In Open Loop, adjust all magnification in FS direction by switching the average frequency of video clock of each ROS, based on temperature detection results, separately from normal Regi Con cycle (DC 2240/1632=1/4 pixel/bit; DC 3535=1/10 pixel/bit).This NVM is defined with the correction amount from the current set value MAG-; its level is 4 steps from -1 to -4 depending on temperature. The above MAG- is overwritten based on the selected correction amount
760-067	C-OLMAG	100	0~200	In Open Loop, adjust all magnification in FS direction by switching the average frequency of video clock of each ROS, based on temperature detection results, separately from normal Regi Con cycle (DC 2240/1632=1/4 pixel/bit; DC 3535=1/10 pixel/bit).This NVM is defined with the correction amount from the current set value MAG-; its level is 4 steps from -1 to -4 depending on temperature. The above MAG- is overwritten based on the selected correction amount
760-068	K-OLMAG	100	0~200	In Open Loop, adjust all magnification in FS direction by switching the average frequency of video clock of each ROS, based on temperature detection results, separately from normal Regi Con cycle (DC 2240/1632=1/4 pixel/bit; DC 3535=1/10 pixel/bit).This NVM is defined with the correction amount from the current set value MAG-; its level is 4 steps from -1 to -4 depending on temperature. The above MAG- is overwritten based on the selected correction amount
760-069	Skew Alarm threshold	30	0~255	Threshold of Skew amount; if this value is exceeded, it is registered as a failure. (2m/bit)
760-070	Y-LD light volume at last RegiCon	0	0~1023	Laser Diode light quantity when Regi Control is performed.
760-071	M-LD light volume at last RegiCon	0	0~1023	Laser Diode light quantity when Regi Control is performed.
760-072	C-LD light volume at last RegiCon	0	0~1023	Laser Diode light quantity when Regi Control is performed.
760-073	K-LD light volume at last RegiCon	0	0~1023	Laser Diode light quantity when Regi Control is performed.
760-074	Y-XSO after LD light volume change	236	0~472	XSO value after correction based on the Laser Diode light quantity variation
760-075	M-XSO after LD light volume change	236	0~472	XSO value after correction based on the Laser Diode light quantity variation
760-076	C-XSO after LD light volume change	236	0~472	XSO value after correction based on the Laser Diode light quantity variation
760-077	K-XSO after LD light volume change	236	0~472	XSO value after correction based on the Laser Diode light quantity variation

Table 1 Chain 760

Chain-Link	Name	Default	Range	Description
760-078	Y-XBI after LD light volume change	0	0~3	XBI value after correction based on the Laser Diode light quantity variation
760-079	M-XBI after LD light volume change	0	0~3	XBI value after correction based on the Laser Diode light quantity variation
760-080	C-XBI after LD light volume change	0	0~3	XBI value after correction based on the Laser Diode light quantity variation
760-081	K-XBI after LD light volume change	0	0~3	XBI value after correction based on the Laser Diode light quantity variation
760-082	Specified LD light quantity [Y]	0	0~1023	Current Laser Diode light quantity (LD light quantity specified by ROS)
760-083	Specified LD light quantity [M]	0	0~1023	Current Laser Diode light quantity (LD light quantity specified by ROS)
760-084	Specified LD light quantity [C]	0	0~1023	Current Laser Diode light quantity (LD light quantity specified by ROS)
760-085	Specified LD light quantity [K]	0	0~1023	Current Laser Diode light quantity (LD light quantity specified by ROS)
760-090	Frequency of RegiCon implemented at the same time as ProCon	3	1~16	In what cycle RegiCon should be implemented at the same timing as ProCon during job
760-091	YSO at Y-194mm/s	237	0~474	1 dot
760-092	YSO at M-166mm/s	237	0~474	1 dot
760-094	YSO at K-167mm/s	237	0~474	1 dot
760-095	Y-X direction speed correction amount	7	0~32	1/4 dot
760-096	M-X direction speed correction amount	7	0~32	1/4 dot
760-097	C-X direction speed correction amount	6	0~32	1/4 dot
760-098	K-X direction speed correction amount	6	0~32	1/4 dot
760-099	Process speed at last Regi-Con	0	0~1	0=RegiCon last implemented at 104 or 52mm/s; 1=RegiCon last implemented at 194mm/sec.
760-100	Y-Y margin speed switch variation	103	0~200	(Y margin variation amount when the speed is switched from 104 or 52mm/sec. to 194mm/s)-100, for Yellow (1 m/bit)
760-101	M-Y margin speed switch variation	107	0~200	(Y margin variation amount when the speed is switched from 104 or 52mm/sec. to 194mm/sec.)-100, for Magenta (1 m/bit)
760-102	K-Y margin speed switch variation	95	0~200	(Y margin variation amount when the speed is switched from 104 or 52mm/sec. to 194mm/sec.)-100, for Black (1 m/bit)
760-103	Skew offset	64	0~70	Difference between the right value and Skew amount detected at the speed of 104mm/sec. (1 m/bit)
760-104	Y-IN-Y margin MOB reading	0	0~1000	Skew amount + 500m (1 m/bit)
760-105	M-IN-Y margin MOB reading	0	0~1000	Skew amount + 500m (1 m/bit)
760-106	K-IN-Y margin MOB reading	0	0~1000	Skew amount + 500m (1 m/bit)
760-107	Y-IN-X margin MOB reading	0	0~1000	Skew amount + 500m (1 m/bit)
760-108	M-IN-X margin MOB reading	0	0~1000	Skew amount + 500m (1 m/bit)
760-109	C-IN-X margin MOB reading	0	0~1000	Skew amount + 500m (1 m/bit)
760-110	K-IN-X margin MOB reading	0	0~1000	Skew amount + 500m (1 m/bit)
760-111	Y-OUT-Y margin MOB reading	0	0~1000	Skew amount + 500m (1 m/bit)
760-112	M-OUT-Y margin MOB reading	0	0~1000	Skew amount + 500m (1 m/bit)
760-113	K-OUT-Y margin MOB reading	0	0~1000	Skew amount + 500m (1 m/bit)
760-114	Y-OUT-X margin MOB reading	0	0~1000	Skew amount + 500m (1 m/bit)
760-115	M-OUT-X margin MOB reading	0	0~1000	Skew amount + 500m (1 m/bit)
760-116	C-OUT-X margin MOB reading	0	0~1000	Skew amount + 500m (1 m/bit)
760-117	K-OUT-X margin MOB reading	0	0~1000	Skew amount + 500m (1 m/bit)
760-118	Register set value for YSO-ROS at Y 104 & 52mm/s	237	0~474	PS register set value; for debugging

Table 1 Chain 760

Chain-Link	Name	Default	Range	Description
760-119	Register set value for YSO-ROS at M 104 & 52mm/s	237	0~474	PS register set value; for debugging
760-120	Register set value for YSO-ROS at C 104 & 52mm/s	237	0~474	PS register set value; for debugging
760-121	Register set value for YSO-ROS at K 104 & 52mm/s	237	0~474	PS register set value; for debugging
760-122	Register set value for YSO-ROS at Y 194mm/s	237	0~474	PS register set value; for debugging
760-123	Register set value for YSO-ROS at M 194mm/s	237	0~474	PS register set value; for debugging
760-124	Register set value for YSO-ROS at C 194mm/s	237	0~474	PS register set value; for debugging
760-125	Register set value for YSO-ROS at K 194mm/s	237	0~474	PS register set value; for debugging
760-126	Misregistration after correction of Y margin at Y- 104 & 52mm/sec.	50000	0~100000	Skew amount (m) x 100 + 50000; for debugging
760-127	Misregistration after correction of M margin at Y- 104 & 52mm/sec.	50000	0~100000	Skew amount (m) x 100 + 50000; for debugging
760-128	Misregistration after correction of C margin at Y- 104 & 52mm/sec.	50000	0~100000	Skew amount (m) x 100 + 50000; for debugging
760-129	Misregistration after correction of K margin at Y- 104 & 52mm/sec.	50000	0~100000	Skew amount (m) x 100 + 50000; for debugging
760-130	Misregistration after correction of Y margin at Y- 194mm/sec.	50000	0~100000	Skew amount (m) x 100 + 50000; for debugging
760-131	Misregistration after correction of M margin at Y- 194mm/sec.	50000	0~100000	Skew amount (m) x 100 + 50000; for debugging
760-132	Misregistration after correction of C margin at Y- 194mm/sec.	50000	0~100000	Skew amount (m) x 100 + 50000; for debugging
760-133	Misregistration after correction of K margin at Y- 194mm/sec.	50000	0~100000	Skew amount (m) x 100 + 50000; for debugging
760-134	Skew Alarm Threshold for normal Regi-Con	125	0~255	In normal RegiCon cycle, when the skew amount of YMK color for C is over [NVM760-134 set value], hidden failure (8-629 to 631) is registered.

762-xxx Developer NVM List

Table 1 Chain 762

Chain-Link	Name	Default	Range	Description
762-044	cumulative ICDC_Band_Value_Y	0	0~409600	Y Color cumulative Pixels
762-045	cumulative ICDC_Band_Value_M	0	0~409600	M Color cumulative Pixels
762-046	cumulative ICDC_Band_Value_C	0	0~409600	C Color cumulative Pixels
762-047	cumulative ICDC_Band_Value_K	0	0~409600	K Color cumulative Pixels
762-053	#YM_DB AC Normal Frequency	61	0~127	AC Energized Voltage Frequency for YM Color Normal Speed
762-059	#CK_DB AC Normal Frequency	61	0~127	AC Energized Voltage Frequency at CK Color Normal Speed

Table 1 Chain 762

Chain-Link	Name	Default	Range	Description
762-219	toner_band_width_YMC	10	0~30	Xero/Deve band width (mm) Setup value for YMC Color
762-220	toner_band_width_K	10	0~30	Xero/Deve band width (mm) Setup value for K Color
762-221	toner_band_density_Half-speed_YMC	153	0~255	Half Speed Xero/Deve band density setup value at YMC Color (1bit=0.3922%)
762-222	toner_band_density_Half-speed_K	153	0~255	Half Speed Xero/Deve band density setup value at K Color (1bit=0.3922%)
762-223	toner_band_density_Normal_YMC	153	0~255	Normal Speed Xero/Deve band density setup value at YMC Color (1bit=0.3922%)
762-224	toner_band_density_Normal_K	153	0~255	Normal Speed Xero/Deve band density setup value at K Color (1bit=0.3922%)
762-225	toner_band_density_Hi-speed_YMC	153	0~255	194mm/sec-speed Xero/Deve band density setup value at YMC Color (1bit=0.3922%)
762-226	toner_band_density_Hi-speed_K	153	0~255	194mm/sec-speed Xero/Deve band density setup value at K Color (1bit=0.3922%)
762-231	#YM_DB AC Hi-speed Frequency	68	0~127	AC energized voltage frequency at YM Color 194mm/sec-speed.
762-233	#CK_DB AC Hi-speed Frequency	68	0~127	AC energized voltage frequency at CM Color 194mm/sec-speed.
762-308	Dev_Warn timer	590947	0~1500000	Dev HFSI warning timer
762-320	#YM_DB AC 208_frequency	59	0~127	
762-322	#CK_DB AC 208_frequency	59	0-~27	
762-324	toner_band_density_52_YMC_BW	153	0~255	Half Speed Xero/Deve band density setup value at YMC_BW Color (1bit=0.3922%)
762-325	toner_band_density_104_YMC_BW	153	0~255	104 Speed Xero/Deve band density setup value at YMC_BW Color (1bit=0.3922%)
762-326	toner_band_density_194_YMC_BW	51	0~255	194mm/sec-speed Xero/Deve band density setup value at YMC_BW Color (1bit=0.3922%)
762-327	toner_band_density_208_YMC_FC	51	0~255	208mm/sec-speed Xero/Deve band density setup value at FC (1bit=0.3922%)
762-328	toner_band_density_208_YMC_BW	51	0~255	208mm/sec-speed Xero/Deve band density setup value at YMC_BW Color (1bit=0.3922%)
762-329	toner_band_density_208_K	153	0~255	208mm/sec-speed Xero/Deve band density setup value at K Color (1bit=0.3922%)

763-xxx C Finisher NVM List

Table 1 Chain 763 C - Finisher

Chain-Link	Name	Default	Range	Description
763-002	IOT Speed support	1	0~1	0= 600mm/sec., 1= 350mm/sec.
763-004	Finisher Major Soft Version	applicable software version	0~65535	Finisher Software Major Version
763-005	Finisher Minor Soft Version	applicable software version	0~65535	Finisher Software Minor Version
763-006	Finisher Local Soft Version	applicable software version	0~255	Finisher Software Local Version (to be used for Test ROM)
763-008	H-Xport Detect	0	0~1	This indicates whether H-Xport is attached or not. 0=NOT DETECT, 1=DETECT
763-009	I/F-Xport Detect	0	0~1	This indicates whether I/F Xport is attached or not. 0=NOT DETECT, 1=DETECT
763-010	Stapler Detect	1	0~1	This indicates whether Stapler is attached or not. 0=NOT DETECT, 1=DETECT
763-011	Puncher Detect	5	0,1,2,3,5,6	This indicates whether Puncher is attached or not. 0=none, 1=JPN 2H, 2=3H, 3=US2/3H, 5=EU2/4H, 6=Swd4H
763-012	Booklet Detect	0	0~1	This indicates whether Booklet is attached or not. 0=NOT DETECT, 1=DETECT
763-013	Mbx Detect	0	0~1	This indicates whether Mbx is attached or not. 0=NOT DETECT, 1=DETECT
763-014	Puncher US2H Select	0	0~1	Use Puncher2/3H Unit as 2H Unit.0: Not use, 1: use

Table 1 Chain 763 C - Finisher

Chain-Link	Name	Default	Range	Description
763-015	Punch Full Select	0	0~1	Select whether Puncher Full detection is implemented with Punch dust count or with Punch Full SNR. 0: use Punch Full SNR 1: count Punch dust
763-016	IPL version	0	0~255	IPL version record
763-017	Offset operation at stapling small amount of sheets	1	0~1	At the Dual Staple and output of small amount of small size paper, Offset operation can be switched: 0: Offset operation on, 1: No offset fixed with delivery to Front
763-018	Offset operation at stapling large amount of sheets	0	0~1	At the Front, Dual, and Rear Staple and output of large amount of large size paper, Offset operation can be switched: 0: Offset operation on, 1: No offset with tamping position delivery
763-019	Buffer-possible media type	15	0~15	Media type that Buffer is possible is set. Settable media includes the following four types: thin paper, backside (used) paper, Recycled paper, and Plain paper. 0: no Buffer, 1: with Buffer, to be set by converting binary notation to the decimal system. when 763-073 is set to 0, the setting of 763-019 becomes invalid. Example) if Plain paper, Recycled paper backside (used) paper is Buffer possible: set to 14
763-020	Total paper feed count (lower value)	0	0~65535	Total volume of fed paper (lower value)Total volume = upper value x 65536 + lower value
763-021	Total paper feed count (upper value)	0	0~65535	Total volume of fed paper (upper value)Total volume = upper value x 65536 + lower value
763-022	Top Tray output count (lower value)	0	0~65535	Top Tray total output volume (lower value) Top Tray total output volume = upper value x 65536 + lower value
763-023	Top Tray output count (upper value)	0	0~65535	Top Tray total output volume (upper value) Top Tray total output volume = upper value x 65536 + lower value
763-024	Full count value after detection by TopTrayFullSnr	0	0~150	Output volume until Full is informed after TopTrayFullSnr detection
763-025	Puncher Full detection value (lower value)	7500	0~65535	Punch dust Full detection count: with 1Punch, 2 hole: 2Count, 3 hole: 3Count, 4 hole: 4CountTotal count = upper value x 65536 + lower value (For upper value, see 763-085.)
763-026	Punch dust count (lower value)	0	0~65535	The record of punch counts for detecting Puncher Full: Total count: upper value x 65536 + lower value (For upper value, see 763-086.)
763-027	Total punching count (lower value)	0	0~65535	Punch unit operation count (lower value)Total punch count = upper value x 65536 + lower value
763-028	Total punching count (upper value)	0	0~65535	Punch unit operation count (upper value)Total punch count = upper value x 65536 + lower value
763-029	Punch Box Set Snr Off detection time	4000ms	0~6000ms	Punch Box Set Snr Off detection time
763-030	Punch Back Regi/Exit MOT stop timing	100	88~112	Time adjustment from XPort Ent SNR OFF to Regi/Exit MOT stop in Punch Back operation
763-031	Punch Side Regi adjustment (SNRI)	16	0~32	Adjustment of punch hole position in Side Regi Direction
763-032	Punch Side Regi adjustment (SNR2)	60	30~150	Adjustment of punch hole position in Side Regi Direction
763-033	Punch Side Regi adjustment (SNRI) (4Hole)	0	0~1	Adjustment of punch hole position in Side Regi Direction
763-034	Punch Reverse adjustment 1	80	46~200	Mot Reverse Skew correction loop amount adjustment (A4L, A3S, LetL, LedgL, ExectL, 16KL, 8KS, B5L, B4S) Punch back amount changes by +0.157 mm for the set value +1
763-035	Punch Adjust operation for every one Sheet or two	1	1~2	Selection whether Punch Adjust is operated for every one sheet or two: 1: for every sheet, 2: for every two sheets
763-036	Selection of H-Tra FAN control	0	0~1	Selection of H-Tra cooling FAN control on/off 0: control off, 1: control on
763-037	Adding Pitch adjustment between sheets	0	0~255	Additional adjustment value for Pitch between sheets: pitch between sheets fed from IOT is extended for this set value. 1=1msec
763-038	Adding Pitch adjustment between Sets	0	0~255	Additional adjustment value for Pitch between Sets:pitch between sheets fed from IOT is extended for this set value. 1=1msec
763-039	MBX_SIMP_STRAGHT_DEC_SETTING1	11	11~99	

Table 1 Chain 763 C - Finisher

Chain-Link	Name	Default	Range	Description
763-040	MBX_SIMP_STRAGHT_DEC_SETTING2	11	11~99	
763-041	MBX_SIMP_INVERT_DEC_SETTING1	71	11~99	
763-042	MBX_SIMP_INVERT_DEC_SETTING2	11	11~99	
763-043	MBX_DUP_DEC_SETTING1	91	11~99	
763-044	MBX_DUP_DEC_SETTING2	11	11~99	
763-045	Ex_MBX BIN GATE CLOSE TIME	50	0~100	
763-046	Maximum Compile Sheet Count for Un-Staple/Small Paper Size	5	2~50	Change the number of NonStaple Set Eject sheets of small-size paper
763-047	Maximum Compile Sheet Count for Un-Staple/Big Paper Size	25	2~50	Change the number of NonStaple Set Eject sheets of large-size paper
763-048	Tamper motor excitation compile output volume at EJECT	15	0~100	Set the number of sheets to be delivered from Compile Tray with motor tamper excitation for tamper shift at EJECT output. When the number of sheets delivered from Compile Tray is over the set value, excitation time of the tamper motor is extended and tamper shift due to skew at ejection is prevented.
763-049	Number Of Ejected Staple Set	0	0~255	The number of Staple sets delivered on Stacker Tray
763-050	Sheet Width Of Last Ejected Sheet	0	0~65535	Width of the last sheet in Stacker Tray0x0000 to 0xFFFF
763-051	Sheet Length Of Last Ejected Sheet	0	0~65535	Length of the last sheet in Stacker Tray0x0000 to 0xFFFF
763-052	Sheet Width Of Maximum Size Sheet	0	0~65535	Width of the largest sheet in Stacker Tray 0x0000 to 0xFFFF
763-053	Sheet Length Of Maximum Size Sheet	0	0~65535	Length of the largest sheet in Stacker Tray 0x0000 to 0xFFFF
763-054	Elevator motor lift-up operation count (lower value)	0	0~65535	Elevator motor lift-up operation count (lower value)Total count of Elevator Motor UP = upper value x 65536 + lower value
763-055	Elevator motor lift-up operation count (upper value)	0	0~65535	Elevator motor lift-up operation count (upper value)Total count of Elevator Motor UP = upper value x 65536 + lower value
763-056	Elevator motor go-DOWN operation count (lower value)	0	0~65535	Elevator motor go-down operation count (lower value)Total count of Elevator Motor DOWN = upper value x 65536 + lower value
763-057	Elevator motor go-DOWN operation count (upper value)	0	0~65535	Elevator motor go-down operation count (upper value)Total count of Elevator Motor DOWN = upper value x 65536 + lower value
763-058	Stacker Tray position	0	0~500 (temporary)	Stacker tray position record: top position: 0
763-059	Full Stack position encoder limit (small size)	173	0~173	Full Stack position encoder limit for small size of sheets
763-060	Stacker Tray Full Stack position encoder limit with Booklet attached	87	20~87	Full Stack position encoder limit for large and small sizes with Booklet attached
763-061	Full Stack position encoder limit (big size)	93	20~93	Full Stack position encoder limit for large size of sheets
763-062	Mix Full Stack position encoder limit	26	20~52	Mix Full Stack position encoder limit
763-063	Mix Stack Enable/Disable	1	0~1	Disable mixed size stack after MIX STACK position is detected: 0: Not disable, 1: Disable
763-064	Staple Stack sets limit (small size)	200	1~255	The limit of Staple Sets on Stacker (763-098 for large size)
763-065	Duplex Stack Full detected	0	0~1	Limit Full Stack volume for small size sheet with NonStaple in Duplex 0: not implement, 1: implement
763-066	Stacker Staple counts (lower value)	0	0~65535	Total staple count on Stacker (lower value)Total staple count on Stacker = upper value x 65536 + lower value
763-067	Stacker Staple counts (upper value)	0	0~65535	Total staple count on Stacker (upper value)Total staple count on Stacker = upper value x 65536 + lower value

Table 1 Chain 763 C - Finisher

Chain-Link	Name	Default	Range	Description
763-068	Staple Mode Of Last Set	0	0~4	Top sheet in Stacker Tray (stacking sheets) staple position: 0: UnStaple, 1: Rear-S, 2: Rear-C, 3: Front-C, 4: Dual, 5: 4-Position
763-069	Maximum Compile Sheet Count for Staple	50	25~75	The limit on Staple sheets with 50-sheet staple cartridge
763-070	Dual Staple, 4PositionsStaple Stack sets limit (small size)	100	1~255	Limit on sets in Stacker for Dual Staple and 4PositionsStaple Set with small size
763-071	Dual Staple, 4PositionsStaple Stack sets limit (large size)	100	1~255	Limit on sets in Stacker for Dual Staple and 4PositionsStaple Set with large size
763-072	Offset position	0	0~1	Final offset position 0: REAR, 1: FRONT
763-073	Buffer Mode	1	0~1	0: not Buffer, 1: Buffer
763-074	Buffer solenoid operation count (lower value)	0	0~65535	Buffer Sol operation count (lower value)Total Staple count = upper value x 65536 + lower value
763-075	Buffer solenoid operation count (upper value)	0	0~65535	Buffer Sol operation count (upper value)Total Staple count = upper value x 65536 + lower value
763-077	Buffer Sheet stop position adjustment	50	0~200	Stop position adjustment from Buffer Paper SNR ON. Buffer paper adjusting amount changes 0.157mm for NVM 1. As the set value gets bigger, the misalignment amount between 1st sheet and 2nd of Buffer paper decreases.
763-080	Set clamp operation count (lower value)	0	0~65535	Set clamp operation count (lower value)Total operation count = upper value x 65536 + lower value
763-081	Set clamp operation count (upper value)	0	0~65535	Set clamp operation count (upper value)Total operation count = upper value x 65536 + lower value
763-084	Finisher Patch Soft Version	0	0~65535	Finisher Software Patch Version
763-085	Punch dust count detected at Puncher Full (upper value)	0	0~65535	Punch dust Full detected countwith 1Punch, 2 holes: 2Count, 3 holes: 3Count, 4 holes: 4CountTotal count = upper value x 65536 + lower value (for lower value, see 763-025.)
763-086	Punch dust count (upper value)	0	0~65535	Punch count record for Punch Full detection Total count = upper value x 65536 + lower value (For lower value, see 763-026)
763-087	Top Path Gate operation count (lower value)	0	0~65535	Top Path Gate operation count (lower value) Total operation count = upper value x 65536 + lower value
763-088	Top Path Gate operation count (upper value)	0	0~65535	Top Path Gate operation count (upper value) Total operation count = upper value x 65536 + lower value
763-089	Stacker Tray output volume (lower value)	0	0~65535	Stacker Tray output volume (lower value) Total operation count = upper value x 65536 + lower value
763-090	Stacker Tray output volume (upper value)	0	0~65535	Stacker Tray output volume (upper value) Total operation count = upper value x 65536 + lower value
763-091	Full Stack position encoder limit at Duplex Stack Full Select	138	28~173	At Duplex Stack Full Select, small size Full Stack position encoder limit (500 to 3000 sheets or equivalent can be set) 138: 2500 sheets or equivalent
763-092	Duplex delivered or not	0	0~1	Store in memory whether small size of sheets in Duplex with NonStaple are delivered or not At Duplex Stack Full Select, 0: not delivered, 1: delivered
763-093	MixFullStack generation	0	0~1	This shows whether Mix Stack Full is detected. 0: not generate, 1: generate
763-094	EjectMot speed switching at stapling small size	0	0~2	Select ejection speed at small size Staple 0= 272 mm/s, 1=159.5 mm/s, 2=120.0 mm/s
763-095	Set last tamping additional operation	0	0~1	Add tamping operation at 39 Pulse when this NVM is set in the set last tamping. 0: no additional operation, 1: implement additional operation
763-096	Fault Clear detection setting at Diag	0	0~1	Switch StaticJam detection during Diag: 0: implement FaultClear detection during Diag, 1: not implement Fault Clear during Diag

Table 1 Chain 763 C - Finisher

Chain-Link	Name	Default	Range	Description
763-097	Buffer Sheet stop position adjustment (Color Paper)	100	0~200	Adjustment of stop position from Buffer Paper SNR ON for color paper: Buffer paper adjustment amount changes 0.157 mm for NVM 1. As the set value is bigger, the misalignment amount between 1st and 2nd sheets of Buffer paper reduces.
763-098	Staple Stack sets limit (larger size)	100	1~255	Limit of Staple Sets on Stacker (for small size, 763-064)
763-099	Job1'st&LastSheet Buffer operation	1	0~1	Select Buffer operation of the last sheet in a the start of a job: 0: Not to buffer, 1: To buffer
763-105	Booklet Tray Belt auto feeding operation setting	0	0~1	Booklet Tray Belt auto feed operation setting at Cycle Down 0: No auto feed, 1: Auto feed
763-106	Booklet Compile position --> folding position correction (B4 or larger)	100	0~200	Correction of shift amount to the folding position in paper Lead direction; Compile position --> Fold position (in Fasten OFF mode)(the folding position to be corrected) (B4 or larger)1 = 1Pulse, 1Pulse = 0.1mm
763-107	Booklet Compile position --> folding position correction (smaller than B4)	100	0~200	Correction of shift amount to the folding position in paper Lead direction; Compile position --> Fold position (in Fasten OFF mode)(the folding position to be corrected) (smaller than B4)1=1Pulse, 1Pulse=0.1mm
763-108	Booklet 2-sheet Staple folding position adjustment (B4S or larger)	100	0~200	Adjust the folding position in two-sheet folding in Booklet Staple mode (B4S or larger)- When the lower sheet is longer, add mis-alignment amount (mm) 10* 0.5 to the current NVM value and input that value. - When the upper sheet is longer, subtract mis-alignment amount (mm) 10* 0.5 from the current NVM value and input that value. *: For 0.1mm=1Pulse conversion Adjustment amount: 1=1Pulse
763-109	Booklet 2-sheet Staple folding position adjustment (smaller than B4S)	100	0~200	Adjust the folding position in two-sheet folding in Booklet Staple mode (smaller than B4S)- When the lower sheet is longer, add mis-alignment amount (mm) 10* 0.5 to the current NVM value and input that value. - When the upper sheet is longer, subtract mis-alignment amount (mm) 10* 0.5 from the current NVM value and input that value.*: For 0.1mm=1Pulse conversion Adjustment amount: 1=1Pulse
763-110	Booklet 2-sheet Staple position adjustment (B4S or larger)	100	0~200	Adjust the stapling position in two-sheet folding in Booklet Staple mode (B4S or larger)- When the staple position is upper than the folding position, subtract mis-alignment amount (mm)10* from the current NVM value and input that value.- When the staple position is lower than the folding position, add mis-alignment amount (mm)10* to the current NVM value and input that value. *: For 0.1mm=1Pulse conversion Adjustment amount: 1=1Pulse
763-111	Booklet 2-sheet Staple position adjustment (smaller than BS4)	100	0~200	Adjust the stapling position in two-sheet folding in Booklet Staple mode (smaller than B4S)- When the staple position is upper than the folding position, subtract mis-alignment amount (mm)10* from the current NVM value and input that value.- When the staple position is lower than the folding position, add mis-alignment amount (mm)10* to the current NVM value and input that value. *: For 0.1mm=1Pulse conversion Adjustment amount: 1=1Pulse
763-112	Booklet tamping adjustment	20	5~35	Adjust tamping amount only on rear in normal tamping in Booklet compile. 1=1Pulse 1Pulse=0.2618mm
763-113	Max Booklet Stapling	15	2~25	Max binding and folding sheets at stapling in Booklet mode.
763-114	Max Booklet UnStapling Bi-Folding	5	1~15	Max folding sheets in NonStaple of Booklet mode and Bi Fold mode.
763-115	Booklet Tamper Shift Adjustment	30	0~50	Adjust shift amount when Booklet tamper makes shift operation to the center position (to adjust the stapling position in side direction). When the value is bigger than 20, the staple position is adjusted toward the front. 1=1Pulse 1Pulse=0.2618mm
763-116	EjectMot speed switching at NonStaple of small size	0	0~1	Select the speed of ejection at NonStaple with small size sheets. 0: 159.5 mm/s, 1: 120.0 mm/s
763-117	Folding Times	1	0~3	Normal & reverse rotation counts of Booklet folder roll in folding operation.
763-118	Max Booklet UnStapling	5	1~15	Max folding sheets at NonStaple in Booklet mode.
763-119	Max Bi-Folding	1	1~15	Max folding sheets at Bi Fold for Booklet delivery.
763-121	Booklet Stapling count (lower value)	0	0~65535	Booklet Staple operation count (lower value)Total staple count = upper value x 65536 + lower valueSee the staple operation count of Booklet. (As both items operate concurrently, they are counted.)
763-122	Booklet Stapling count (upper value)	0	0~65535	Booklet Staple operation count (upper value)Total staple count = upper value x 65536 + lower value

Table 1 Chain 763 C - Finisher

Chain-Link	Name	Default	Range	Description
763-123	Specifying prevention of Booklet mis-registration	1	0~3	Select the misregistration preventive operation: (Shift the tamper 20mm to the front after the final tamping, and then return it to the original position. Target: when Booklet Staple is specified and paper length is shorter than 356.8 mm) 0: no preventive operation 1: preventive operation at Profile1 (194mm/sec-speed) 2: preventive operation at Profile2 (middle speed) 3: preventive operation at Profile3 (low speed)
763-124	Booklet Stacker output volume (lower value)	0	0~65535	Booklet Stacker output volume (lower value)Booklet total output volume =upper value x 65536 + lower value
763-125	Booklet Stacker output volume (upper value)	0	0~65535	Booklet Stacker output volume (upper value)Booklet total output volume =upper value x 65536 + lower value
763-126	Booklet Fold count (lower value)	0	0~65535	Booklet folding count (lower value)Total folding count = upper value x 65536 + lower value
763-127	Booklet Fold count (upper value)	0	0~65535	Booklet folding count (upper value)Total folding count = upper value x 65536 + lower value
763-128	Mailbox Sorter Counter Lower value	0	0~65535	Mailbox Sorter Count (lower value) = upper value x 65536 + lower value
763-129	Mailbox Sorter Counter Upper value	0	0~65535	Mailbox Sorter Count (uppervalue) = (lower value) = upper value x 65536 + lower value
763-130	Booklet In Gate switching count (lower value)	0	0~65535	Booklet In Gate switching count (lower value)Total switching count of Booklet In Gate = upper value x 65536 + lower value
763-131	Booklet In Gate switching count (upper value)	0	0~65535	Booklet In Gate switching count (upper value)Total switching count of Booklet In Gate = upper value x 65536 + lower value
763-132	Shelf Retract	0	0~1	Select the shelf retract operation projection operation: 0=Disable, 1=Enable
763-133	Booklet Compile position --> folding position sheet volume adjustment 1	100	0~200	n Compile position --> Fold position (in Fasten OFF mode), the adjustment value of the amount of shifting to the folding position in paper Lead direction for sheet volume. Adjust the correction value for two-sheet folding. 1=1Pulse 1Pulse=0.1mm
763-134	Booklet Compile position --> folding position sheet volume adjustment 2	100	0~200	In Compile position --> Fold position (in Fasten OFF mode), the adjustment value of the amount of shifting to the folding position in paper Lead direction for sheet volume.Adjust the correction value in the case that the folding sheets are more than three. 1=1Pulse 1Pulse=0.1mm
763-135	Booklet normal tamping: additional tamping operation count	2	0~10	Additional tamping count at Booklet normal tamping. (This operates with B4SEF size or larger and the current Booklet sheet volume >= the number of sheets specified for additional tamping (NVM763-140). No additional tamping with NVM value = 0.)
763-136	Booklet final tamping: additional tamping operation count	0	0~10	Additional tamping count at Booklet final tamping. (This operates with B4SEF size or larger and the current Booklet sheet volume >= the number of sheets specified for additional tamping (NVM763-140). No additional tamping with NVM value = 0.)
763-137	Booklet Full detected sets: smaller than B4	20	10~100	The Booklet Full detected number of sets with sheets smaller than B4S (for 15 sheets /set as reference)
763-138	Booklet Full detected sets: B4 or larger	20	10~100	The Booklet Full detected number of sets with sheets of B4S or larger.(for 15 sheets /set as reference)
763-139	Booklet staple hold additional tamping operation count	0	0~10	This operates for the additional tamping count at Staple hold (B4SEF size or larger and the current Booklet sheet volume >= the number of sheets specified for additional tamping (NVM763-140). No additional tamping with NVM value = 0
763-140	Booklet additional tamping limit volume	6	0~25	The number of sheets specified for Booklet additional tamping (normal tamping, final tamping, and staple hold) (B4SEF size or larger) Additional tamping operation is implemented when Booklet over the specified number of sheets is delivered. (common to all tamping) But with NVM value = 0, additional tamping is not implemented. (regardless of values of 763-135,136,139)
763-141	Fine adjustment of Booklet Staple folding position by sheet volume 1_S	100	0~200	Fine adjust the folding position for every one sheet at Booklet Staple. Adjustment value for three sheets (smaller than B4S): - When the lower sheet is longer, add mis-alignment amount (mm) x 10* x 0.5 to the current NVM value and input that value. - When the upper sheet is longer, subtract mis-alignment amount (mm) x 10* x 0.5 from the current NVM value and input that value. *: For 0.1mm = 1Pulse conversion adjustment amount1=1Pulse

Table 1 Chain 763 C - Finisher

Chain-Link	Name	Default	Range	Description
763-142	Fine adjustment of Booklet Staple folding position by sheet volume 2_S	100	0~200	Fine adjust the folding position for every one sheet at Booklet Staple. Adjustment value for four sheets (smaller than B4S): - When the lower sheet is longer, add mis-alignment amount (mm) x 10* x 0.5 to the current NVM value and input that value. - When the upper sheet is longer, subtract mis-alignment amount (mm) x 10* x 0.5 from the current NVM value and input that value. *: For 0.1mm = 1Pulse conversion adjustment amount1=1Pulse
763-143	Fine adjustment of Booklet Staple folding position by sheet volume 3_S	100	0~200	Fine adjust the folding position for every one sheet at Booklet Staple. Adjustment value for five to seven sheets (smaller than B4S): - When the lower sheet is longer, add mis-alignment amount (mm) x 10* x 0.5 to the current NVM value and input that value. - When the upper sheet is longer, subtract mis-alignment amount (mm) x 10* x 0.5 from the current NVM value and input that value. *: For 0.1mm = 1Pulse conversion adjustment amount1=1Pulse
763-144	Fine adjustment of Booklet Staple folding position by sheet volume 4_S	100	0~200	Fine adjust the folding position for every one sheet at Booklet Staple. Adjustment value for eight sheets or more (smaller than B4S): - When the lower sheet is longer, add mis-alignment amount (mm) x 10* x 0.5 to the current NVM value and input that value. - When the upper sheet is longer, subtract mis-alignment amount (mm) x 10* x 0.5 from the current NVM value and input that value. *: For 0.1mm = 1Pulse conversion adjustment amount1=1Pulse
763-145	Booklet 15-sheet Staple position adjustment (B4S or larger)	100	0~200	Auto adjust stapling positions for sheet volume by entering staple misalignment amount at 15-sheet folding in Booklet Staple mode. (B4S or larger)- When the staple position is upper than the folding position, subtract mis-alignment amount (mm)10* from the current NVM value and input that value.- When the staple position is lower than the folding position, add mis-alignment amount (mm)10* to the current NVM value and input that value. *: For 0.1mm = 1Pulse conversion adjustment amount 1=1Pulse
763-146	Booklet 15-sheet Staple position (smaller than B4S)	100	0~200	Auto adjust stapling positions for sheet volume by entering staple misalignment amount at 15-sheet folding in Booklet Staple mode. (smaller than B4S)- When the staple position is upper than the folding position, subtract mis-alignment amount (mm)10* from the current NVM value and input that value.- When the staple position is lower than the folding position, add mis-alignment amount (mm)10* to the current NVM value and input that value. *: For 0.1mm = 1Pulse conversion adjustment amount 1=1Pulse
763-147	Booklet Staple: fine adjustment of stapling position by sheet volume 1	100	0~200	Fine adjust the auto adjustment amount of staple positions for every one sheet at Booklet Staple: Adjustment value for three sheets: - When the staple position is upper than the folding position, subtract mis-alignment amount (mm)10* from the current NVM value and input that value.- When the staple position is lower than the folding position, add mis-alignment amount (mm)10* to the current NVM value and input that value. *: For 0.1mm = 1Pulse conversion adjustment amount 1=1Pulse
763-148	Booklet Staple: fine adjustment of stapling position by sheet volume 2	100	0~200	Fine adjust the auto adjustment amount of staple positions for every one sheet at Booklet Staple: Adjustment value for four sheets: - When the staple position is upper than the folding position, subtract mis-alignment amount (mm)10* from the current NVM value and input that value.- When the staple position is lower than the folding position, add mis-alignment amount (mm)10* to the current NVM value and input that value. *: For 0.1mm = 1Pulse conversion adjustment amount 1=1Pulse
763-149	Booklet Staple: fine adjustment of stapling position by sheet volume 3	100	0~200	Fine adjust the auto adjustment amount of staple positions for every one sheet at Booklet Staple: Adjustment value for 5 to 7 sheets: - When the staple position is upper than the folding position, subtract mis-alignment amount (mm)10* from the current NVM value and input that value.- When the staple position is lower than the folding position, add mis-alignment amount (mm)10* to the current NVM value and input that value. *: For 0.1mm = 1Pulse conversion adjustment amount 1=1Pulse
763-150	Booklet Staple: fine adjustment of stapling position by sheet volume 4	100	0~200	Fine adjust the auto adjustment amount of staple positions for every one sheet at Booklet Staple: Adjustment value for 8 to 14 sheets: - When the staple position is upper than the folding position, subtract mis-alignment amount (mm)10* from the current NVM value and input that value.- When the staple position is lower than the folding position, add mis-alignment amount (mm)10* to the current NVM value and input that value. *: For 0.1mm = 1Pulse conversion adjustment amount 1=1Pulse

Table 1 Chain 763 C - Finisher

Chain-Link	Name	Default	Range	Description
763-152	Booklet Staple: fine adjustment of stapling position by sheet volume 1_L	100	0~200	Fine adjust the folding position for every one sheet at Booklet Staple.Adjustment value for three sheets: (B4S or larger)- When the lower sheet is longer, add mis-alignment amount (mm) x 10* x 0.5 to the current NVM value and input that value. - When the upper sheet is longer, subtract mis-alignment amount (mm) x 10* x 0.5 from the current NVM value and input that value.*: For 0.1mm = 1Pulse conversion adjustment amount 1=1Pulse
763-153	Booklet Staple: fine adjustment of stapling position by sheet volume 2_L	100	0~200	Fine adjust the folding position for every one sheet at Booklet Staple.Adjustment value for four sheets: (B4S or larger)- When the lower sheet is longer, add mis-alignment amount (mm) x 10* x 0.5 to the current NVM value and input that value. - When the upper sheet is longer, subtract mis-alignment amount (mm) x 10* x 0.5 from the current NVM value and input that value.*: For 0.1mm = 1Pulse conversion adjustment amount 1=1Pulse
763-154	Booklet Staple: fine adjustment of stapling position by sheet volume 3_L	100	0~200	Fine adjust the folding position for every one sheet at Booklet Staple.Adjustment value for five to seven sheets: (B4S or larger)- When the lower sheet is longer, add mis-alignment amount (mm) x 10* x 0.5 to the current NVM value and input that value. - When the upper sheet is longer, subtract mis-alignment amount (mm) x 10* x 0.5 from the current NVM value and input that value.*: For 0.1mm = 1Pulse conversion adjustment amount 1=1Pulse
763-155	Booklet Staple: fine adjustment of stapling position by sheet volume 4_L	100	0~200	Fine adjust the folding position for every one sheet at Booklet Staple.Adjustment value for eight sheets or more: (B4S or larger)- When the lower sheet is longer, add mis-alignment amount (mm) x 10* x 0.5 to the current NVM value and input that value. - When the upper sheet is longer, subtract mis-alignment amount (mm) x 10* x 0.5 from the current NVM value and input that value.*: For 0.1mm = 1Pulse conversion adjustment amount 1=1Pulse
763-156	Booklet Sub CPU Soft Major Version	0	0~255	Major Version of Sub CPU software for Booklet control
763-157	Booklet Sub CPU Soft Minor Version	0	0~255	Minor Version of Sub CPU software for Booklet control
763-161	Simplex Straight paper decurler setting 1	11	11~99	Implement the following decurler setting for Plain paper, Recycled paper, Pre-punched paper, Backside (Used) paper, and Thin paper with Simplex Straight output: <How to set the value> with 2-digit value, the value is set as follows: the upper value is for </= 216 mm; the lower value is for paper length > 216 mm. **Image quality mode** **NVM value BW Full color** 1 AUTO AUTO2 AUTO Forced ON3 AUTO Forced OFF4 Forced ON AUTO5 Forced ON Forced ON6 Forced ON Forced OFF7 Forced OFF AUTO8 Forced OFF Forced ON9 Forced OFF Forced OFF<Example of setting>When the value is set to 23, the upper value: 2 means paper length </= 216 mm and it is AUTO for BW or it is Forced ON for Full color. the lower value: 3 means paper length > 216 mm, and it is AUTO for BW or it is Forced OFF for Full color
763-162	Simplex Straight paper decurler setting 2	11	11~99	Implement the following decurler setting for HW1, HW2, Coated paper1, Coated paper2, Tab paper1, and Tab paper2 with Simplex Straight output: <How to set the value> The same as 763-161SimplexStaright paper decurler setting 1
763-163	Simplex Invert paper decurler setting 1	71	11~99	Implement the following decurler setting for Plain paper, Recycled paper, Pre-punched paper, Backside (Used) paper, and Thin paper with Simplex Invert output: With 2-digit value, implement the setting for paper length > 216 mm and paper length </= 216 mm. <How to set the value> The same as 763-161 Simplex Straight paper decurler setting 1.
763-164	Simplex Invert paper decurler setting 2	11	11~99	Implement the following decurler setting for HW1, HW2, Coated paper1, Coated paper2, Tab paper1, and Tab paper2 with Simplex Invert output: <How to set the value> The same as 763-161 Simplex Straight paper decurler setting 1.
763-165	Duplex paper decurler setting 1	91	11~99	Implement the following decurler setting for Plain paper, Recycled paper, Pre-punched paper, Backside (Used) paper, and Thin paper with Duplex output: With 2-digit value, implement the setting for paper length > 216 mm and paper length </= 216 mm.<How to set the value> The same as 763-161 Simplex Straight paper decurler setting 1.

Table 1 Chain 763 C - Finisher

Chain-Link	Name	Default	Range	Description
763-166	Duplex paper decurler setting 2	11	11~99	Implement the following decurler setting for HW1, HW2, Coated paper1, Coated paper2, Tab paper1, and Tab paper2 with Duplex output: With 2-digit value, implement the setting for paper length > 216 mm and paper length </= 216 mm.<How to set the value> The same as 763-161 Simplex Straight paper decurler setting 1.
763-167	Booklet output paper decurler setting	1	0~1	Sheets of B4 or larger output for BOOKLET shall have forced decurler OFF.For other than that, follow the settings of the above 763-161, 162, 163, 164, 165, and 166.0: Follow the settings of 763-161, 162, 163, 164, 165, and 166. 1: Forced decurler OFF on sheets of B4 or larger that are delivered for BOOKLET
763-168	Heavyweight 1 Staple sheet limit	25	3~50	Limit the stapling volume of HW1. If the specified volume is exceeded, output with NonStaple and split.
763-169	Heavyweight 2 Staple sheet limit	20	3~50	Limit the stapling volume of HW2. If the specified volume is exceeded, output with NonStaple and split.
763-170	H-Tra Gate switching count (lower value)	0	0~65535	H-Tra Gate switching count (lower value)Total count for switching H-Tra Gate = upper value x 65536 + lower value
763-171	H-Tra Gate switching count (upper value)	0	0~65535	H-Tra Gate switching count (upper value)Total count for switching H-Tra Gate = upper value x 65536 + lower value
763-172	TopTrayExitMot slow down speed setting 1	1	0~1	Media type: Plain paper, Recycled paper, Pre-punched paper, Backside (Used) paper, and Thin paper Paper length: 297 mm or shorter; IOT output: Invert; 0=285mm/s, 1=343mm/s
763-173	TopTrayExitMot slow down speed setting 2	0	0~1	Media type: Plain paper, Recycled paper, Pre-punched paper, Backside (Used) paper, and Thin paper Paper length: 297 mm or shorter; IOT output: Straight; 0=285mm/s, 1=343mm/s
763-174	TopTrayExitMot slow down speed setting 3	1	0~1	Media type: Plain paper, Recycled paper, Pre-punched paper, Backside (Used) paper, and Thin paper Paper length: over 297 mm; IOT output: Invert; 0=285mm/s, 1=343mm/s
763-175	TopTrayExitMot slow down speed setting 4	0	0~1	Media type: Plain paper, Recycled paper, Pre-punched paper, Backside (Used) paper, and Thin paper Paper length: over 297 mm; IOT output: Straight; 0=285mm/s, 1=343mm/s
763-176	TopTrayExitMot slow down speed setting 5	0	0~1	Media type: Other than Plain paper, Recycled paper, Pre-punched paper, Backside (Used) paper, and Thin paper Paper length: 297 mm or shorter; IOT output: Invert; 0=285mm/s, 1=343mm/s
763-177	TopTrayExitMot slow down speed setting 6	0	0~1	Media type: Other than Plain paper, Recycled paper, Pre-punched paper, Backside (Used) paper, and Thin paper Paper length: 297 mm or shorter; IOT output: Straight; 0=285mm/s, 1=343mm/s
763-178	TopTrayExitMot slow down speed setting 7	0	0~1	Media type: Other than Plain paper, Recycled paper, Pre-punched paper, Backside (Used) paper, and Thin paper Paper length: over 297 mm; IOT output: Invert; 0=285mm/s, 1=343mm/s
763-179	TopTrayExitMot slow down speed setting 8	0	0~1	Media type: Other than Plain paper, Recycled paper, Pre-punched paper, Backside (Used) paper, and Thin paper Paper length: over 297 mm; IOT output: Invert; 0=285mm/s, 1=343mm/s
763-180	TopTrayExitMot slow down timing setting 1	7 (7346 no value yet)	0~22	Media type: Plain paper, Recycled paper, Pre-punched paper, Backside (Used) paper, and Thin paper Paper length: 297 mm or shorter; IOT output: Invert; 1= 2.5 msec; Setting time = T + 2.5 x NVM valueT: for Punch: 337.5 msec; for NoPunch: 415 msec
763-181	TopTrayExitMot slow down timing setting 2	7 (7346 no value yet)	0~22	Media type: Plain paper, Recycled paper, Pre-punched paper, Backside (Used) paper, and Thin paper Paper length: 297 mm or shorter; IOT output: Straight; 1= 2.5 msec; Setting time = T + 2.5 x NVM valueT: for Punch: 337.5 msec; for NoPunch: 415 msec
763-182	TopTrayExitMot slow down timing setting 3	7 (7346 no value yet)	0~22	Media type: Plain paper, Recycled paper, Pre-punched paper, Backside (Used) paper, and Thin paper Paper length: over 297 mm; IOT output: Invert; 1 = 2.5 msec; Setting time = T + 2.5 x NVM valueT: for Punch: 337.5 msec; for NoPunch: 415 msec
763-183	TopTrayExitMot slow down timing setting 4	7 (7346 no value yet)	0~22	Media type: Plain paper, Recycled paper, Pre-punched paper, Backside (Used) paper, and Thin paper Paper length: over 297 mm; IOT output: Straight; 1 = 2.5 msec; Setting time = T + 2.5 x NVM valueT: for Punch: 337.5 msec; for NoPunch: 415 msec
763-184	TopTrayExitMot slow down timing setting 5	0	0~22	Media type: Other than Plain paper, Recycled paper, Pre-punched paper, Backside (Used) paper, and Thin paper: Paper length: 297 mm or shorter; IOT output: Invert; 1 = 2.5 msec; Setting time = T + 2.5 x NVM valueT: for Punch: 337.5 msec; for NoPunch: 415 msec

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Chain-Link	Name	Default	Range	Description
763-185	TopTrayExitMot slow down timing setting 6	0	0~22	Media type: Other than Plain paper, Recycled paper, Pre-punched paper, Backside (Used) paper, and Thin paper: Paper length: 297 mm or shorter; IOT output: Straight; 1 = 2.5 msec; Setting time = T + 2.5 x NVM valueT: for Punch: 337.5 msec; for NoPunch: 415 msec
763-186	TopTrayExitMot slow down timing setting 7	0	0~22	Media type: Other than Plain paper, Recycled paper, Pre-punched paper, Backside (Used) paper, and Thin paper: Paper length: over 297 mm; IOT output: Invert; 1 = 2.5 msec; Setting time = T + 2.5 x NVM valueT: for Punch: 337.5 msec; for NoPunch: 415 msec
763-187	TopTrayExitMot slow down timing setting 8	0	0~22	Media type: Other than Plain paper, Recycled paper, Pre-punched paper, Backside (Used) paper, and Thin paper: Paper length: over 297 mm; IOT output: Straight; 1 = 2.5 msec; Setting time = T + 2.5 x NVM valueT: for Punch: 337.5 msec; for NoPunch: 415 msec
763-188	Excitation time adjustment after StaplerMoveMot at Dual Staple	32	0~255	Post excitation time adjustment just before stop in Dual Staple, and post excitation time adjustment just before stop in initialize operation in Dual Staple (Countermeasure for the misalignment of stapling positions in Dual Staple)
763-189	Simplex Straight paper Eject operation setting 1	55	11~99	Implement the setting of the speed of outputting on the Stacker Tray for Plain paper, Recycled paper, Pre-punched paper, Backside (Used) paper, and Thin paper with Simplex Straight output. This setting becomes valid when the tray stacking amount is over about 1,000 sheets. <How to set the value> With 2-digit value, the upper value is set for BW and the lower value is for full color. **NVM** **For Non staple**: **For Staple**: 1 No speed down No speed down2 No speed down Speed down 207mm/sec3 No speed down Speed down 159mm/sec4 Speed down 207mm/sec. No speed down5 Speed down 207mm/sec. Speed down 207mm/sec6 Speed down 207mm/sec. Speed down 159mm/sec7 Speed down 159mm/sec. No speed down8 Speed down 159mm/sec. Speed down 207mm/sec9 Speed down 159mm/sec. Speed down 159mm/sec<Setting example>When it is changed to 56, the upper value: 5, so for BW the output speed in both Nonstaple and Staple cases is 207mm/sec.; the lower value: 6, so for Full Color, the output speed at Nonstaple is 207mm/sec. while it is 159mm/sec. at Staple.
763-190	Simplex Straight paper Eject operation setting 2	11	11~99	Implement the setting of the speed of outputting on the Stacker Tray for HW1, HW2, Coated paper1, Coated paper2, Tab paper1, and Tab paper2 with Simplex Straight output. This setting becomes valid when the tray stacking amount is over about 1,000 sheets.<How to set the value> The same as 763-189 Simplex Straight paper Eject operation setting 1.
763-191	Simplex Invert paper Eject operation setting 1	55	11~99	Implement the setting of the speed of outputting on the Stacker Tray for Plain paper, Recycled paper, Pre-punched paper, Backside (Used) paper, and Thin paper with Simplex Invert output. This setting becomes valid when the tray stacking amount is over about 1,000 sheets.<How to set the value> The same as 763-189 SimplexStaright paper Eject operation setting 1.
763-192	Simplex Invert paper Eject operation setting 2	11	11~99	Implement the setting of the speed of outputting on the Stacker Tray for HW1, HW2, Coated paper1, Coated paper2, Tab paper1, and Tab paper2 with Simplex Invert output. This setting becomes valid when the tray stacking amount is over about 1,000 sheets.<How to set the value> The same as 763-189 Simplex Straight paper Eject operation setting 1.
763-193	Duplex paper Eject operation setting 1	55	11~99	Implement the setting of the speed of outputting on the Stacker Tray for Plain paper, Recycled paper, Pre-punched paper, Backside (Used) paper, and Thin paper with Duplex output. This setting becomes valid when the tray stacking amount is over about 1,000 sheets.<How to set the value> The same as 763-189 Simplex Straight paper Eject operation setting 1.
763-194	Duplex paper Eject operation setting 2	11	11~99	Implement the setting of the speed of outputting on the Stacker Tray for HW1, HW2, Coated paper1, Coated paper2, Tab paper1, and Tab paper2 with Duplex output. This setting becomes valid when the tray stacking amount is over about 1,000 sheets.<How to set the value> The same as 763-189 Simplex Straight paper Eject operation setting 1.
763-195	Punch Mode Select	0	0~1	Select punch operation mode for A4 SEF, Letter SEF, Foolscap SEF, Legal SEF, Spanish SEF, and 8x10 SEF: 0: implement punch operation in D and E mode.1: implement punch operation in C mode.

Table 1 Chain 763 C - Finisher

Chain-Link	Name	Default	Range	Description
763-196	Eject Clamp Full	2	2~20	TBD
763-197	Eject Roll	0	0~255	I Sheet/Set Eject Roll Base +NVM x 2.5msec
763-198	Power On Initialization		0, 1	0:individual component initialization 1:Minimal component initialization
763-950	Set Eject Tray Ctrl Sheet Num	9	2~50	Number of output sheets in Compile Tray when Tray Control is in operation to prevent Set Eject Curl. Setting Value:Number of outut sheets in Compile Tray
763-951	Set Eject Tray Ctrl Encorder Cnt	2	0~10	StackerTray Up Encoder Count when Tray Control is in operation to prevent Set Eject Curl. 0: Tray Control inhibited 1 to 10: Tray Up Encoder Count
763-952	TAMPER_RETURN_SELECT	0	0~75	To select Tamper Return operation to be performed after last tamping operation for the set is complete. 0:Return operation (Conventional operation) ? to 50: Home Return operation+Size Position operation when the number of output sheets for the set is equal to or more than the NVM setting Return operation (Conventional operation) when the number of output sheets for the set is less than NVM setting value.
763-953	STAPLER_MOVE_WAIT_POS_SELECT	0	0~1	Front Staple Stapler Move 0:Home 385 Pulse 1:Home 585 Pulse
763-954	Mailbox Sub CPU Soft Major Version	0	255	Mailbox Sub CPU Major SW Version
763-955	Mailbox Sub CPU Soft Minor Versio	0	255	Mailbox Sub CPU Minor SW Version
763-956	Debug Command Enable/Disable	0	0, 1	Jam Finisher
763-957	DH Fan Enable/Disable	3	1~8	Invert Mode, Straight Mode NVM: Invert Straight Simp Dup Simp Dup 1: OFF OFF OFF OFF 2: OFF OFF OFF ON 3: OFF OFF ON OFF 4: OFF OFF ON ON 5: ON ON OFF OFF 6: ON ON OFF ON 7: ON ON ON OFF 8: ON ON ON ON
763-958	DH Fan Enable/Disable	4	1~8	Invert Mode, Straight Mode DH Fan On or Off refer to NVM for 763-957
763-959	Sub Paddle move timing Adjust	40	7~160	A4LEF, Letter LEF, Stacker Duplex Rear Corner Dual 4Position Staple Sub Paddle Default NVM 40 =100mSec? 17.5mSec = 7 400mSec = 160
763-960	B5LEF Eject Up Timing	92	7~255	To change the Eject Half Up timing for Stacker output of B5LEF?Width of less than 270mm?,Stapler. NVM setting value x 2.5mS
763-961	B5LEF Eject Down Timing	54	0~255	To change Eject Half Down timing for Stacker output of B5LEF, Stapler. NVM setting value x 2.5mS
763-962	Eject Motor Fwd_Rev Timing	48	0~255	To change Eject Roll normal/reverse rotation time forStacker output of small-size ?216mm or less in length), Stapler. Base time 30ms?NVM setting value x 2.5mS

Table 1 Chain 763 C - Finisher

Chain-Link	Name	Default	Range	Description
763-963	Eject Rev Profile	1	0, 1	Selection of Eject Roll reverse rotation speed for Stacker output of small-size (216mm or less in length), Stapler. 0: 606mm/S 1: 400mm/S
763-964	Eject Forward Timing	16	1~255	Adjustment of Eject Roll normal rotation time for Stacker outut of small-size (216mm or less in length), Stapler. NVM setting value x 2.5mS
763-965	B5LEF Eject Control	0	0, 1	Selection of With or Withtout Eject control for output of small-size (216mm or less in length), Stapler. Applicable range for NVM763-960 to 969 is specified. When setting value is 1, productivity decreases by 310ms each sheet between sets, 2nd print, and 3rd print. 0; Applicable only to Duplex output. 1; Applicable to both Dulex output and Simplex output.
763-966	A4L Eject Down Timing Adjust	72	0~255	To change Eject Half Down timing for Stacker output of A4 LEF, Stapler. NVM setting value x 2.5mS
763-967	LetterLEF Eject Down Timing Adjust	76	0~255	To change Eject Half Down timing for Stacker output of Letter LEF, Stapler. NVM setting value x 2.5mS
763-968	A4LEF Eject Up Timing Adjust	92	7~255	To change Eject Half Up timing for Stacker output of A4 LEF (290mm or more in width), Stapler. NVM setting value x 2.5mS
763-969	LetterLEF Eject Up Timing Adjust	92	7~255	To change Eject Half Up timing for Stacker output of Letter LEF (270mm or more, Less than 290mm in width), Stapler. NVM setting value x 2.5mS
763-970	Stacker Full Clear Adjust	13	7~25	To set Stacker Tray position after paper removal for cancelling Stacker Tray Full, Mix Full.
763-971	Sub Paddle Move Timing Adjust	12	7~160	To change Sub Paddle operation start timing for Duplex outut from Stacker with A4 LEF or Letter LEF, Front Corner Staple. When Default NVM value is 12, operation start timing to be 30mSec. Setting range:17.5mSec(7) to 400mSec(160)
763-972	Sub Paddle Stert Timing Adjust	40	7~255	To adjust Sub Paddle start timing for Simplex output from Stacker with paper of 216mm or less T= (NVM763-972)×2.5mSec Default 40 setting: 100mSec
763-973	Sub Paddle On Timing Adjust	80	1~255	To adjust Sub Paddle Sol. ON timing for Simplex output from Stacker with paper of 216mm or less T= (NVM763-972)×2.5mSec Default 80 setting: 200mSec
763-974	Setclamp Stop Timing M ADJ Jobstart	0	0~255	To adjust the timing from Home Sensor ON detection until Clutch OFF in Set Clamp 1st step stop operation for Job Start Initialize operation. Addition Time, T= (NVM763-974)×2.5mSec Default 0 setting: Addition 0ms
763-975	Setclamp Stop Timing M ADJ Staple	0	0~255	To adjust the timing from Home Sensor ON detection until Clutch OFF in Set Clamp 1st step stop operation for NonStaple Mode output operation. Addition Time, T=(NVM763-976) x 2.5mSec Default 0 setting: Addition 0ms
763-976	Set Clamp Stop Timing ADJ Unstaple Mode	0	0~255	To adjust the timing from Home Sensor ON detection until Clutch OFF in Set Clamp 1st step stop operation for NonStaple Mode output operation. Addition Time, T=(NVM763-976) x 2.5mSec Default 0 setting: Addition 0ms

Table 1 Chain 763 C - Finisher

Chain-Link	Name	Default	Range	Description
763-977	Tamper Start Timing Adjust (Small size)	0	0~255	To adjust Tamping start timing for paper length of 216mm or less. To addNVM setting value x 2.5mSec to each start time ref value of Normal Tamping start, Set Lst Tamping with Staple, Set Lst Tamping with 4Pos Staple. Addition Time, T=(NVM763-977) x 2.5mSec Default 0 setting: Addition 0ms
763-978	Tamper Start Timing Adjust LRG	0	0~255	To adjust Tamping start timing for paper length of more than 216mm. To addNVM setting value x 2.5mSec to each start time ref value of Normal Tamping start, Set Lst Tamping with Staple, Set Lst Tamping with 4Pos Staple. Addition Time, T=(NVM763-978) x 2.5mSec Default 0 setting: Addition 0ms
763-979	Dup Outut Sub Paddle Operatioin Start Timing Adjustment (Large-size)	40	7~160	To change Sub Paddle operation start timing when with the followin conditions: Stacker output of paper over 216mm in length, Duplex output, Rear Corner, Dual, and 4 Position Staple. Operation start timing with Default NVM 40: 100mSec? Setting range: 17.5mSec(7) to 400mSec(160)
763-980	Simplex Output Sub Paddle Operation Start Timing Adjustment (Large-size)	40	7~255	To adjust Sub Paddle start timing for Simp output of paper exceeding 216mm with Simp output. T=(NVM763-980)×2.5mSec Default 40 setting: 100mSec
763-981	Decurler Detect	0	0, 1	0= Not Detected 1=+ Detected
763-982	Low Noise Mechanism		0, 1	(3 Position Eject Clamp Mechanism, Buffer Gate Open Solenoid) 0=Conventional Operation 1=Operation for Low Noise Mechanism
763-983	Jam Detect Select		0, 1, 2	TBD
763-984	Stacker MisRegistration Prevention	0	0, 1	0: Do Not Activate 1: Activate
763-985	Set Clamp 1st Position Start Timing Adjustment with Non-Staple output	104	0~255	To adjust Set Clamp 1st step Stop opertion start timing for paper output operation with Non-Staple output, Stacker Job Initialize. Add NVM setting value x 2.5mS to base Time=550mS. When Default value is 104, the setting is 550 + 2.5 x 104 = 810mS

764-xxx Output (Finisher) NVM List

Table 1 Chain 764

Chain-Link	Name	Default	Range	Description
764-001	Mix Stack	0	0~1	0=Disable; 1=Enable
764-002	Set Count	50	10~100	Maximum No. of sets allowed
764-003	Unstaple Compile Sheet Count (Small Size)	50	10~100	No. of Small Size sheets compiled.
764-004	Maximum Compile Sheet Count	50	10~100	No. of sheets compiled.

770-xxx ESS IO Port/Protocol Setting NVM List

Table 1 Chain 770

Chain-Link	Name	Default	Range	Description
770-001	Parallel Port Enable	1	0~1	0=Stop 1=Start Up
770-002	Parallel Print Mode Type	1	1~29	1=Auto; 3=HPGL2; 5=PostScript; 8=ESCP; 10=TIFF; 14=Dump; 15=ART; 16=PLW
770-003	Parallel PJL Switch	1	0~1	0=Off; 1=On
770-004	Parallel Adobe Protocol	0	0~2	0=Standard; 1=Binary; 2=TBCP
770-005	Parallel Auto Feed Time	6	1~255	1-255 (5 sec./bit)
770-006	Parallel Input Prime	1	0~1	0=Off; 1=On
770-007	Parallel COMM Mode	0	0~1	0=On 1=Off
770-009	Parallel Corresponding Standard	0	0~1	0=IEEE P1284 1=Centronics
770-010	Ethernet Transfer Rate	Auto	-	0x7F=Auto, 2=100BASE-TX, 1=10BASE-T
770-011	JBA 2004 Extensions	0	0~1	0= TBD 1=TBD
770-012	Bonjour Port Enable	1	0~1	0= TBD 1=TBD
770-020	TokenRing Transfer Rate	TBD	TBD	1=4MB/s, 2= 16MB/s, 3=100MB/s
770-021	TokenRing Packet Length	1500	TBD	1500, 2088, 4472, 8232
770-030	NetWare Frame Type	255	-	255=Auto; 1=Ethernet 802.3; 2=Ethernet II; 3=Ethernet 802.2; 4=Ethernet SNAP; 5=Token 802.5; 6=Token SNAP;
770-039	LPD max session	5	1~10	(1-10)
770-040	EtherTalk Port Enable	1	0~1	0=Disable; 1=Enable
770-041	EtherTalk Print Type	Post-Script	-	PostScript
770-042	EtherTalk JCL Enable	1	0~1	0=Off; 1=On
770-050	Netware Port Enable	0	0~1	0=Stop; 1=Start Up
770-051	Netware Print Mode Type	1	1~29	1 = Auto, 2 = PCL 3 = HPGL2, 5 = PostScript, 8 = ESCP, 10 = TIFF 14 = Dump, 15 = ART, 16 = PLW, 17 = KS5843, 18 = KSSM, 29 = KS5895
770-052	Netware JCL Enable	1	0~1	0=Cannot be used; 1=Can be used
770-053	NetWare TBCP Valid	0	0~1	0=None 1=TBCP
770-054	NetWare Trans. Protocol	1	1~3	1=IPX/SPX, 2=TCP/IP, 3=both
770-055				
770-060	Lpd Port Enable	1	0~1	0=Stop 1=Start Up
770-061	Lpd Print Mode Type	1	1~29	1 = Auto, 2 = PCL 3 = HPGL2, 5 = PostScript, 8 = ESCP, 10 = TIFF 14 = Dump, 15 = ART, 16 = PLW, 17 = KS5843, 18 = KSSM, 29 = KS5895
770-062	Lpd JCL Enable	1	0~1	0=Off; 1=On
770-063	TBCP Valid Flag	0	0~1	0=None 1=TBCP
770-064	Lpd Spool Mode	0	0~1	0=Non Spool 1=Spool
770-065	Lpd Time-out	16	2~65,535	2~3600sec
770-068	lpd port number	515	1~65535	1~65535
770-070	Lpd Address Limitation	0	0~1	1=Yes 0=No
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

Table 1 Chain 770

Chain-Link	Name	Default	Range	Description
770-077	SMTP Port Number	25	1~65535	25, 8000~9999
770-080	SMB Port Enable	1	0~1	0=Stop 1=Start Up
770-081	SMB Print Mode Type	1	1~29	1 = Auto, 2 = PCL 3 = HPGL2, 5 = PostScript, 8 = ESCP, 10 = TIFF 14 = Dump, 15 = ART, 16 = PLW, 17 = KS5843, 18 = KSSM, 29 = KS5895
770-082	SMB JCL Enable is SMB PJL Enable for AP	1	0~1	0=Off; 1=On
770-083	SMB TBCP Valid Flag	0	0~1	0=None 1=TBCP
770-084	SMB Spool Mode	0	0~1	0=Non Spool 1=Spool
770-085	SMB Transport Protocol	6	2~6	2=TCP/IP, 4=NetBeui, 6=both
770-090	IPP Port Enable	0	0~1	0=Stop; 1=Start Up
770-091	IPP Print Mode Type	1	1~29	1 = Auto, 2 = PCL 3 = HPGL2, 5 = PostScript, 8 = ESCP, 10 = TIFF 14 = Dump, 15 = ART, 16 = PLW, 17 = KS5843, 18 = KSSM, 29 = KS5895
770-092	IPP JCL Enable is IPP PJL Enable for AP	1	0~1	0=Off; 1=On
770-093	IPP TBCP Valid Flag	0	0~1	0=None; 1=TBCP
770-094	Acl Authorization	0	-	0=Off; 1=On
770-095	Use DNS Name	1	0~1	On, Off
770-097	Port no.	80	0~65535	'0, 1~65535
770-098	IPP Spool Mode	0	-	0=Non Spool; 1=Spool
770-099	Time Out	60	0~65535	0~65535 [sec.]
770-100	DHCP Mode	DHCP	-	0x10=Manual, 4=BOOTP, 2=DHCP, 1=RARP
770-101	IP Address	0.0.0.0	0x00000000~0xFFFFFFFF	00000000~FFFFFFFF
770-102	Subnet Mask	0.0.0.0	0x00000000~0xFFFFFFFF	00000000~FFFFFFFF
770-103	Gateway Address	0.0.0.0	0x00000000~0xFFFFFFFF	00000000~FFFFFFFF
770-104	'IP Mode	10	4~10	4: Activate only IPv4 Protocol 6: Activate only IPv6 Protocol 10: Activate both IPv4 Protocol and IPv6 Protocol
770-110	DNS Auto Config.	DHCP	0~1	1=Manual Setting; 2=DHCP
770-112	DNS Domain Name	NULL		DNS Domain Name (Normally, it is within 255 characters including the. (dot) at the end which is not displayed)
770-113	WSD print Starting Setup	1	0~1	0: Stop, 1: Start
770-114	Wsd print Port No.	80	1~65535	1 to 65535
770-116	IP Address	NULL	-	Valid only for IPv4 Protocol. Input in IPv4 literal format. Character string needs NULL Terminate. Character limitation: Only 0 to 9, and dot(.) are designed.
770-117	Subnet Mask	NULL	-	Valid only for IPv4 Protocol. Input in IPv4 literal format. Character string needs NULL Terminate. Character limitation: Only 0 to 9, and dot(.) are designed.
770-118	WINS Server Address 1	NULL	-	Input in IPv4 literal format. Character string needs NULL Terminate. Character limitation: Numeric (0 to 9), Delimiter “dot”used in address (.) only.
770-119	WINS Server Address 2	NULL	-	Input in IPv4 literal format. Character string needs NULL Terminate. Character limitation: Numeric (0 to 9), Delimiter “dot”used in address (.) only.
770-120	TBD	DHCP		1=Manual Setting; 2=DHCP

Table 1 Chain 770

Chain-Link	Name	Default	Range	Description
770-121	WINS Server Address 1	0.0.0.0		00000000~FFFFFFFF
770-122	Gateway Address	NULL	-	Valid only for IPv4 Protocol. Input in IPv4 literal format. Character string needs NULL Terminate. Character limitation: Only 0 to 9, and dot(.) are designed.
770-123	WINS Server Address 2	0.0.0.0	0x00000000~0xFFFFFFFF	00000000~FFFFFFFF
770-126	IPv6 Validate Flag for Manual Config	0	0~1	0: Disable this function 1: Enable this function
770-127	IPv6 Address Prefix Length for Manual Config	0	0~128	0 to 128 (Number of bit)
770-128	IPv6 Address for Manual Config	NULL	-	Indicate IPv6 address in literal format (NULL character end).
770-129	IPv6 Gatway Address for Manual Config	NULL	-	Indicate IPv6 address in literal format (NULL character end).
770-130	Agent Port Enable	1	0~1	0=Stop; 1=Start Up
770-131	Agent Transport Flag	2	0~3	0=both Off, 1=IPX, 2=UDP, 3=both On
770-133	Agent Community Name	NULL	-	JISX0201 Character Code 12 Characters (Replace to fxSystemMgr on the PDU) Agent Community Name 1 ~ Agent Community Name 10
770-135	lpd Valid IP Address 1	NULL	-	IPv4 address in literal format (NULL character end) is stored. Default is NULL.
770-136	lpd Valid IP Address 2	NULL	-	IPv4 address in literal format (NULL character end) is stored. Default is NULL.
770-137	lpd Valid IP Address 3	NULL	-	IPv4 address in literal format (NULL character end) is stored. Default is NULL.
770-138	lpd Valid IP Address 4	NULL	-	IPv4 address in literal format (NULL character end) is stored. Default is NULL.
770-139	lpd Valid IP Address 5	NULL	-	IPv4 address in literal format (NULL character end) is stored. Default is NULL.
770-140	EWS Port Enable	1	0~1	0=Stop; 1=Start Up
770-150	Salutation Port Enable	0	0~1	0=Stop; 1=Start Up
770-151	IPv6 Access Control	0	0~1	0: Disable access control 1: Enable access control
770-152	IPv6 Address-1 for Auto Config	NULL	-	Indicate IPv6 address in literal format (NULL character end).
770-153	IPv6 Address-2 for Auto Config	NULL	-	Indicate IPv6 address in literal format (NULL character end).
770-154	IPv6 Address-3 for Auto Config	NULL	-	Indicate IPv6 address in literal format (NULL character end).
770-155	IPv6 Address1 Prefix Length for Auto Config	0	0~128	0 to 128 (Number of bit)
770-156	IPv6 Address2 Prefix Length for Auto Config	0	0~128	0 to 128 (Number of bit)
770-157	IPv6 Address3 Prefix Length for Auto Config	0	0~128	0 to 128 (Number of bit)
770-158	IPv6 Link Local Address	NULL	-	Indicate IPv6 address in literal format (NULL character end).
770-159	IPv6 Gatway Address for Auto Config	NULL	-	Indicate IPv6 address in literal format (NULL character end).(Prefix is 64 bits.)
770-160	MFIO Port Enable (FTP)	0	0~1	0=Stop; 1=Start Up
770-163	version	0x01	1~255	0x01: V1/V2C 0x02: V3 (Valid version bit is ON)
770-164	engine ID	NULL	-	SNMP engineID (No NULL end)
770-166	HTTP Max Session	5	1~15	1~15
770-168	length of engine ID	0	0~32	0 to 32

Table 1 Chain 770

Chain-Link	Name	Default	Range	Description
770-169	user name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-172	authentication type	0	0~2	0: NONE 1: MD5 2: SHA
770-173	authentication key	0	0~1	0: NONE 1: DES
770-174	engine ID	NULL	-	SNMP engineID (No NULL end)
770-175	length of engine ID	0	0~32	0 to 32
770-176	user name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-177	authentication type	0	0~2	0: NONE 1: MD5 2: SHA
770-178	authentication key	0	0~1	0: NONE 1: DES
770-179	SLP version	1	1~2	1: PFRSC_SYS_SLP_V1 2: PFRSC_SYS_SLP_V2
770-190	Mail Service Start/Stop	1	0~1	1=Start Up; 0=Stop
770-191	Address of Mail Sender	NULL	-	Maximum 128 ASCII characters (types include alpha numerics, [@] [. (period)] [+] [-] [=] [_ (underscore)] [/] [<] [>]). Format=username@domain.name
770-194	engine ID		-	SNMP engineID (No NULL end)
770-195	length of engine ID	0	0~32	0 to 32
770-196	user name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-197	authentication type	0	0~2	0: NONE 1: MD5 2: SHA
770-198	authentication key	0	0~1	0: NONE 1: DES
770-202	SMTP Mail Server IP Address	0.0.0.0	0x00000000~0xFFFFFFFF	00000000~FFFFFFFF
770-222	Port 9100 Starting setup	1	0~1	0=Off 1= On
770-243	engine ID	NULL	-	SNMP engineID (No NULL end)
770-244	length of engine ID	0	0~32	0 to 32
770-245	user name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-246	authentication type	0	0~2	0: NONE 1: MD5 2: SHA
770-247	authentication key	0	0~1	0: NONE 1: DES
770-250	USB Adobe Protocol	0	0~2	0 = Standard 1 = Binary 2 = TBCP
770-251	USB JCL(FX)/PJL(AP) Enable	1	0~1	0=Off 1= On
770-252	USB Print Mode Type	1	1~29	1 = Auto, 2 = PCL 3 = HPGL2, 5 = PostScript, 8 = ESCP, 10 = TIFF 14 = Dump, 15 = ART, 16 = PLW, 17 = KS5843, 18 = KSSM, 29 = KS5895
770-254	USB Port Enable	1	0~1	0=Off 1= On
770-255	USB Auto Feed Time	6(30sec)	1~255	1-255 (5-1275 sec.)
770-274	engine ID	NULL	-	SNMP engineID (No NULL end)
770-275	length of engine ID	0	0~32	0 to 32
770-276	user name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-277	authentication type	0	0~2	0: NONE 1: MD5 2: SHA
770-278	authentication key	0	0~1	0: NONE 1: DES
770-280	Mail print Starting Setup	1	0~1	0=Off 1= On
770-281	Mail Print file type	10	1~29	1 = Auto, 2 = PCL 3 = HPGL2, 5 = PostScript, 8 = ESCP, 10 = TIFF 14 = Dump, 15 = ART, 16 = PLW, 17 = KS5843, 18 = KSSM, 29 = KS5895
770-282	Mail print JCL switch	4?	0~1	0=Off 1= On
770-283	Mail print filter	4?	0~1	0=None; 1=TBCP

Table 1 Chain 770

Chain-Link	Name	Default	Range	Description
770-284	Mail print spool type	1	0~1	0=Non Spool; 1=Spool
770-285	Mail print with header print	1	0~4	TBD
770-286	POP server user name	NULL		
770-287	POP server password	NULL		
770-290	UPnP Enable	1	0~1	0=Off 1= On
770-291	UPnP Port No.	80	1~65535	1~65535
770-295	BMLinkS Print Service Enable	1	0~1	0=Off 1= On
770-296	BMLinkS Discovery Service Port No.	80	1~65535	1~65535
770-297	BMLinkS Print Service Port No.	80	1~65535	1~65535
770-301	LDAP Server Name Primary	NULL		
770-302	LDAP Server Address Primary	NULL		
770-303	LDAP Server Port Number Primary	389	1~65535	1~65535
770-304	'LDAP Server Name Secondary	NULL		
770-305	LDAP Server Port Number Secondary	NULL		
770-306	LDAP Server Port Number Secondary	389	1~65535	1~65535
770-307	LDAP Referral Enable	0	0~1	0: Referral Invalid 1: Referral Valid
770-308	LDAP Referral MAX HOPs	5	1~5	Max. number of HOP for LDAP reference (Referral)
770-310	Mail Notify Receivers Request Type 1	0	0~2	PFV_MAIL_REQUEST_TYPE 0=NULL, 1=STATUS_REPORT, 2=IMMEDIATE_STATUS_REPORT
770-311	Mail Notify Receivers Request Type 2	0	0~2	PFV_MAIL_REQUEST_TYPE 0=NULL, 1=STATUS_REPORT, 2=IMMEDIATE_STATUS_REPORT
770-312	Mail Notify Receivers Request Type 3	0	0~2	PFV_MAIL_REQUEST_TYPE 0=NULL, 1=STATUS_REPORT, 2=IMMEDIATE_STATUS_REPORT
770-320	Sesami Port Enable	1	0~1	0=Off 1= On
770-339	Sys IF entry enable	PFDis-able	0~1	0=PFDISABLE, 1= PFENABLE
770-340	IT Option MAC Address	0X0	0X0	
770-341	IT Option IP Address	0X0	0X0 ~ 0xFFFFFFFFFFFF	
770-342	IT Option MAC Address 1	0X0	0X0 ~ 0xFF	IT MAC 1 Byte
770-343	IT Option MAC Address 2	0X0	0X0 ~ 0xFF	IT MAC 1 Byte
770-344	IT Option MAC Address 3	0X0	0X0 ~ 0xFF	IT MAC 1 Byte
770-345	IT Option MAC Address 4	0X0	0X0 ~ 0xFF	IT MAC 1 Byte
770-346	IT Option MAC Address 5	0X0	0X0 ~ 0xFF	IT MAC 1 Byte
770-347	IT Option MAC Address 5	0X0	0X0 ~ 0xFF	IT MAC 1 Byte
770-400	WebDAV Port Enable	0	0~1	0=Off 1= On
770-401	WebDAV Port number	80	1~65535	Port number
770-402	Timeout of WebDAV Port no.	30	1~65535	
770-402	Time-Out	30	0~65535	Time-Out (Seconds)
770-410	group name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-411	context prefix	NULL	-	Character string of 1 to 33 bytes including NULL end
770-412	security model	0	0~3	0: ANY 1: V1 2: V2C 3: USM
770-413	security level	0 (Not set)	1~3	1: NOAUTH_NOPRIV 2: AUTH_NOPRIV, 3: AUTH_PRIV

Table 1 Chain 770

Chain-Link	Name	Default	Range	Description
770-414	context match	0 (Not set)	1~2	1: Match completely 2: Only prefix
770-415	readable view name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-416	writable view name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-417	notify view name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-418	group name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-419	context prefix	NULL	-	Character string of 1 to 33 bytes including NULL end
770-420	security model	0: ANY	0~3	0: ANY 1: V1 2: V2C 3: USM
770-421	security level	0 (Not set)	1~3	1: NOAUTH_NOPRIV 2: AUTH_NOPRIV, 3: AUTH_PRIV
770-422	context match	0 (Not set)	1~2	1: Match completely 2: Only prefix
770-423	readable view name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-424	writable view name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-425	notify view name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-426	group name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-427	context prefix	NULL	-	Character string of 1 to 33 bytes including NULL end
770-428	security model	0	0~3	0: ANY 1: V1 2: V2C 3: USM
770-429	security level	0 (Not set)	1~3	1: NOAUTH_NOPRIV 2: AUTH_NOPRIV, 3: AUTH_PRIV
770-430	context match	0 (Not set)	1~2	1: Match completely 2: Only prefix
770-431	readable view name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-432	writable view name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-433	notify view name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-434	group name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-435	context prefix	NULL	-	Character string of 1 to 33 bytes including NULL end
770-436	security model	0: ANY	0~3	0: ANY 1: V1 2: V2C 3: USM
770-437	security level	0 (Not set)	1~3	1: NOAUTH_NOPRIV 2: AUTH_NOPRIV, 3: AUTH_PRIV
770-438	context match	0 (Not set)	1~2	1: Match completely 2: Only prefix
770-439	readable view name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-440	writable view name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-441	notify view name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-442	group name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-443	context prefix	NULL	-	Character string of 1 to 33 bytes including NULL end
770-444	security model	0	0~3	0: ANY 1: V1 2: V2C 3: USM
770-445	security level	0 (Not set)	1~3	1: NOAUTH_NOPRIV 2: AUTH_NOPRIV, 3: AUTH_PRIV
770-446	context match	0 (Not set)	1~2	1: Match completely 2: Only prefix

Table 1 Chain 770

Chain-Link	Name	Default	Range	Description
770-447	readable view name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-448	writable view name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-449	notify view name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-450	view family name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-451	mask	0x00000000000000000000000000000000	-	Value of each octet is 0x00 to 0xff.
770-452	length of mask	0	0~16	0 to 16
770-453	sub tree	NULL	-	Character string of 1 to 12, including NULL end
770-454	length of sub tree	0	0~12	0 to 12 (prefix length not included)
770-455	sub tree prefix	0: NONE	0~6	0: None 1: directory(1.3.6.1.1) 2: mgmt(1.3.6.1.2) 3: experimental(1.3.6.1.3) 4: enterprises(1.3.6.1.4) 5: security(1.3.6.1.5) 6: snmpV2(1.3.6.1.6)
770-456	tree type	0 (Not set)	1~2	Type for indicating whether MIB tree is included or excluded. 1: Included 2: Not included
770-457	view family name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-458	mask	0x00000000000000000000000000000000	-	Value of each octet is 0x00 to 0xff.
770-459	length of mask	0	0~16	0 to 16
770-460	sub tree	NULL	-	Character string of 1 to 12, including NULL end
770-461	length of sub tree	0	0~12	0 to 12 (prefix length not included)
770-462	sub tree prefix	0	0~6	0: None 1: directory(1.3.6.1.1) 2: mgmt(1.3.6.1.2) 3: experimental(1.3.6.1.3) 4: enterprises(1.3.6.1.4) 5: security(1.3.6.1.5) 6: snmpV2(1.3.6.1.6)
770-463	tree type	0 (Not set)	1~2	Type for indicating whether MIB tree is included or excluded. 1: Included 2: Not included
770-464	view family name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-465	mask	0x00000000000000000000000000000000	-	Value of each octet is 0x00 to 0xff.
770-466	length of mask	0	0~16	0 to 16
770-467	sub tree	NULL	-	Character string of 1 to 12, including NULL end
770-468	length of sub tree	0	0~12	0 to 12 (prefix length not included)
770-469	sub tree prefix	0	0~6	0: None 1: directory(1.3.6.1.1) 2: mgmt(1.3.6.1.2) 3: experimental(1.3.6.1.3) 4: enterprises(1.3.6.1.4) 5: security(1.3.6.1.5) 6: snmpV2(1.3.6.1.6)
770-470	tree type	0 (Not set)	1~2	Type for indicating whether MIB tree is included or excluded. 1: Included 2: Not included
770-471	view family name	NULL	-	Character string of 1 to 33 bytes including NULL end

Table 1 Chain 770

Chain-Link	Name	Default	Range	Description
770-472	mask	0x00000000000000000000000000000000	-	Value of each octet is 0x00 to 0xff.
770-473	length of mask	0	0~16	0 to 16
770-474	sub tree	NULL	-	Character string of 1 to 12, including NULL end
770-475	length of sub tree	0	0~12	0 to 12 (prefix length not included)
770-476	sub tree prefix	0	0~6	0: None 1: directory(1.3.6.1.1) 2: mgmt(1.3.6.1.2) 3: experimental(1.3.6.1.3) 4: enterprises(1.3.6.1.4) 5: security(1.3.6.1.5) 6: snmpV2(1.3.6.1.6)
770-477	tree type	0 (Not set)	1~2	Type for indicating whether MIB tree is included or excluded. 1: Included 2: Not included
770-478	view family name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-479	mask	0x00000000000000000000000000000000	-	Value of each octet is 0x00 to 0xff.
770-480	length of mask	0	0~16	0 to 16
770-481	sub tree	NULL	-	Character string of 1 to 12, including NULL end
770-482	length of sub tree	0	0~12	0 to 12 (prefix length not included)
770-483	sub tree prefix	0: NONE	0~6	0: None 1: directory(1.3.6.1.1) 2: mgmt(1.3.6.1.2) 3: experimental(1.3.6.1.3) 4: enterprises(1.3.6.1.4) 5: security(1.3.6.1.5) 6: snmpV2(1.3.6.1.6)
770-484	tree type	0 (Not set)	1~2	Type for indicating whether MIB tree is included or excluded. 1: Included 2: Not included
770-485	view family name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-486	mask	0x00000000000000000000000000000000	-	Value of each octet is 0x00 to 0xff.
770-487	length of mask	0	0~16	0 to 16
770-488	sub tree	NULL	-	Character string of 1 to 12, including NULL end
770-489	length of sub tree	0	0~12	0 to 12 (prefix length not included)
770-490	sub tree prefix	0	0~6	0: None 1: directory(1.3.6.1.1) 2: mgmt(1.3.6.1.2) 3: experimental(1.3.6.1.3) 4: enterprises(1.3.6.1.4) 5: security(1.3.6.1.5) 6: snmpV2(1.3.6.1.6)
770-491	tree type	0 (Not set)	1~2	Type for indicating whether MIB tree is included or excluded. 1: Included 2: Not included
770-492	view family name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-493	mask	0x00000000000000000000000000000000	-	Value of each octet is 0x00 to 0xff.

Table 1 Chain 770

Chain-Link	Name	Default	Range	Description
770-494	length of mask	0	0~16	0 to 16
770-495	sub tree	NULL	-	Character string of 1 to 12, including NULL end
770-496	length of sub tree	0	0~12	0 to 12 (prefix length not included)
770-497	sub tree prefix	0: No Alert	0~6	0: None 1: directory(1.3.6.1.1) 2: mgmt(1.3.6.1.2) 3: experimental(1.3.6.1.3) 4: enterprises(1.3.6.1.4) 5: security(1.3.6.1.5) 6: snmpV2(1.3.6.1.6)
770-498	tree type	0 (Not set)	1~2	Type for indicating whether MIB tree is included or excluded. 1: Included 2: Not included
770-499	view family name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-500	mask	0x00000000000000000000000000000000	-	Value of each octet is 0x00 to 0xff.
770-501	length of mask	0	0~16	0 to 16
770-502	sub tree	NULL	-	Character string of 1 to 12, including NULL end
770-503	length of sub tree	0	0~12	0 to 12 (prefix length not included)
770-504	sub tree prefix	0: NONE	0~6	0: None 1: directory(1.3.6.1.1) 2: mgmt(1.3.6.1.2) 3: experimental(1.3.6.1.3) 4: enterprises(1.3.6.1.4) 5: security(1.3.6.1.5) 6: snmpV2(1.3.6.1.6)
770-505	tree type	0 (Not set)	1~2	Type for indicating whether MIB tree is included or excluded. 1: Included 2: Not included
770-506	view family name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-507	mask	0x00000000000000000000000000000000	-	Value of each octet is 0x00 to 0xff.
770-508	length of mask	0	0~16	0 to 16
770-509	sub tree	NULL	-	Character string of 1 to 12, including NULL end
770-510	length of sub tree	0	0~12	0 to 12 (prefix length not included)
770-511	sub tree prefix	0	0~6	0: None 1: directory(1.3.6.1.1) 2: mgmt(1.3.6.1.2) 3: experimental(1.3.6.1.3) 4: enterprises(1.3.6.1.4) 5: security(1.3.6.1.5) 6: snmpV2(1.3.6.1.6)
770-512	tree type	0 (Not set)	1~2	Type for indicating whether MIB tree is included or excluded. 1: Included 2: Not included
770-513	view family name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-514	mask	0x00000000000000000000000000000000	-	Value of each octet is 0x00 to 0xff.
770-515	length of mask	0	0~16	0 to 16
770-516	sub tree	NULL	-	Character string of 1 to 12, including NULL end
770-517	length of sub tree	0	0~12	0 to 12 (prefix length not included)
770-518	sub tree prefix	0: NONE	0~6	0: None 1: directory(1.3.6.1.1) 2: mgmt(1.3.6.1.2) 3: experimental(1.3.6.1.3) 4: enterprises(1.3.6.1.4) 5: security(1.3.6.1.5) 6: snmpV2(1.3.6.1.6)

Table 1 Chain 770

Chain-Link	Name	Default	Range	Description
770-519	tree type	0 (Not set)	1~2	Type for indicating whether MIB tree is included or excluded. 1: Included 2: Not included
770-520	view family name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-521	mask	0x00000000000000000000000000000000	-	Value of each octet is 0x00 to 0xff.
770-522	length of mask	0	0~16	0 to 16
770-523	sub tree	NULL	-	Character string of 1 to 12, including NULL end
770-524	length of sub tree	0	0~12	0 to 12 (prefix length not included)
770-525	sub tree prefix	0	0~6	0: None 1: directory(1.3.6.1.1) 2: mgmt(1.3.6.1.2) 3: experimental(1.3.6.1.3) 4: enterprises(1.3.6.1.4) 5: security(1.3.6.1.5) 6: snmpV2(1.3.6.1.6)
770-526	tree type	0 (Not set)	1~2	Type for indicating whether MIB tree is included or excluded. 1: Included 2: Not included
770-527	view family name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-528	mask	0x00000000000000000000000000000000	-	Value of each octet is 0x00 to 0xff.
770-529	length of mask	0	0~16	0 to 16
770-530	sub tree	NULL	-	Character string of 1 to 12, including NULL end
770-531	length of sub tree	0	0~12	0 to 12 (prefix length not included)
770-532	sub tree prefix	0	0~6	0: None 1: directory(1.3.6.1.1) 2: mgmt(1.3.6.1.2) 3: experimental(1.3.6.1.3) 4: enterprises(1.3.6.1.4) 5: security(1.3.6.1.5) 6: snmpV2(1.3.6.1.6)
770-533	tree type	0 (Not set)	1~2	Type for indicating whether MIB tree is included or excluded. 1: Included 2: Not included
770-534	view family name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-535	mask	0x00000000000000000000000000000000	-	Value of each octet is 0x00 to 0xff.
770-536	length of mask	0	0~16	0 to 16
770-537	sub tree	NULL	-	Character string of 1 to 12, including NULL end
770-538	length of sub tree	0	0~12	0 to 12 (prefix length not included)
770-539	sub tree prefix	0	0~6	0: None 1: directory(1.3.6.1.1) 2: mgmt(1.3.6.1.2) 3: experimental(1.3.6.1.3) 4: enterprises(1.3.6.1.4) 5: security(1.3.6.1.5) 6: snmpV2(1.3.6.1.6)
770-540	tree type	0 (Not set)	1~2	Type for indicating whether MIB tree is included or excluded. 1: Included 2: Not included
770-541	view family name	NULL	-	Character string of 1 to 33 bytes including NULL end

Table 1 Chain 770

Chain-Link	Name	Default	Range	Description
770-542	mask	0000000 0000000 0000000 0000000 0000	-	Value of each octet is 0x00 to 0xff.
770-543	length of mask	0	0~16	0 to 16
770-544	sub tree	NULL	-	Character string of 1 to 12, including NULL end
770-545	length of sub tree	0	0~12	0 to 12 (prefix length not included)
770-546	sub tree prefix	0: NONE	0~6	0: None 1: directory(1.3.6.1.1) 2: mgmt(1.3.6.1.2) 3: experimental(1.3.6.1.3) 4: enterprises(1.3.6.1.4) 5: security(1.3.6.1.5) 6: snmpV2(1.3.6.1.6)
770-547	tree type	0 (Not set)	1~2	Type for indicating whether MIB tree is included or excluded. 1: Included 2: Not included
770-548	view family name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-549	mask	0000000 0000000 0000000 0000000 0000	-	Value of each octet is 0x00 to 0xff.
770-550	length of mask	0	0~16	0 to 16
770-551	sub tree	NULL	-	Character string of 1 to 12, including NULL end
770-552	length of sub tree	0	0~12	0 to 12 (prefix length not included)
770-553	sub tree prefix	0	0~6	0: None 1: directory(1.3.6.1.1) 2: mgmt(1.3.6.1.2) 3: experimental(1.3.6.1.3) 4: enterprises(1.3.6.1.4) 5: security(1.3.6.1.5) 6: snmpV2(1.3.6.1.6)
770-554	tree type	0 (Not set)	1~2	Type for indicating whether MIB tree is included or excluded. 1: Included 2: Not included
770-555	view family name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-556	mask	0000000 0000000 0000000 0000000 0000	-	Value of each octet is 0x00 to 0xff.
770-557	length of mask	0	0~16	0 to 16
770-558	sub tree	NULL	-	Character string of 1 to 12, including NULL end
770-559	length of sub tree	0	0~12	0 to 12 (prefix length not included)
770-560	sub tree prefix	0	0~6	0: None 1: directory(1.3.6.1.1) 2: mgmt(1.3.6.1.2) 3: experimental(1.3.6.1.3) 4: enterprises(1.3.6.1.4) 5: security(1.3.6.1.5) 6: snmpV2(1.3.6.1.6)
770-561	tree type	0 (Not set)	1~2	Type for indicating whether MIB tree is included or excluded. 1: Included 2: Not included
770-562	view family name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-563	mask	0000000 0000000 0000000 0000000 0000	-	Value of each octet is 0x00 to 0xff.

Table 1 Chain 770

Chain-Link	Name	Default	Range	Description
770-564	length of mask	0	0~16	0 to 16
770-565	sub tree	NULL	-	Character string of 1 to 12, including NULL end
770-566	length of sub tree	0	0~12	0 to 12 (prefix length not included)
770-567	sub tree prefix	0: NONE	0~6	0: None 1: directory(1.3.6.1.1) 2: mgmt(1.3.6.1.2) 3: experimental(1.3.6.1.3) 4: enterprises(1.3.6.1.4) 5: security(1.3.6.1.5) 6: snmpV2(1.3.6.1.6)
770-568	tree type	0 (Not set)	1~2	Type for indicating whether MIB tree is included or excluded. 1: Included 2: Not included
770-569	view family name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-570	mask	0000000 0000000 0000000 0000000 0000	-	Value of each octet is 0x00 to 0xff.
770-571	length of mask	0	0~16	0 to 16
770-572	sub tree	NULL	-	Character string of 1 to 12, including NULL end
770-573	length of sub tree	0	0~12	0 to 12 (prefix length not included)
770-574	sub tree prefix	0	0~6	0: None 1: directory(1.3.6.1.1) 2: mgmt(1.3.6.1.2) 3: experimental(1.3.6.1.3) 4: enterprises(1.3.6.1.4) 5: security(1.3.6.1.5) 6: snmpV2(1.3.6.1.6)
770-575	tree type	0 (Not set)	1~2	Type for indicating whether MIB tree is included or excluded. 1: Included 2: Not included
770-576	view family name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-577	mask	0000000 0000000 0000000 0000000 0000	-	Value of each octet is 0x00 to 0xff.
770-578	length of mask	0	0~16	0 to 16
770-579	sub tree	NULL		Character string of 1 to 12, including NULL end
770-580	length of sub tree	0	0~12	0 to 12 (prefix length not included)
770-581	sub tree prefix	0	0~6	0: None 1: directory(1.3.6.1.1) 2: mgmt(1.3.6.1.2) 3: experimental(1.3.6.1.3) 4: enterprises(1.3.6.1.4) 5: security(1.3.6.1.5) 6: snmpV2(1.3.6.1.6)
770-582	tree type	0 (Not set)	1~2	Type for indicating whether MIB tree is included or excluded. 1: Included 2: Not included
770-583	view family name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-584	mask	0000000 0000000 0000000 0000000 0000	-	Value of each octet is 0x00 to 0xff.
770-585	length of mask	0	0~16	0 to 16
770-586	sub tree	NULL	-	Character string of 1 to 12, including NULL end
770-587	length of sub tree	0	0~12	0 to 12 (prefix length not included)
770-588	sub tree prefix	0	0~6	0: None 1: directory(1.3.6.1.1) 2: mgmt(1.3.6.1.2) 3: experimental(1.3.6.1.3) 4: enterprises(1.3.6.1.4) 5: security(1.3.6.1.5) 6: snmpV2(1.3.6.1.6)

Table 1 Chain 770

Chain-Link	Name	Default	Range	Description
770-589	tree type	0 (Not set)	1~2	Type for indicating whether MIB tree is included or excluded. 1: Included 2: Not included
770-590	view family name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-591	mask	00000000 00000000 00000000 00000000	-	Value of each octet is 0x00 to 0xff.
770-592	length of mask	0	0~16	0 to 16
770-593	sub tree	NULL	-	Character string of 1 to 12, including NULL end
770-594	length of sub tree	0	0~12	0 to 12 (prefix length not included)
770-595	sub tree prefix	0	0~6	0: None 1: directory(1.3.6.1.1) 2: mgmt(1.3.6.1.2) 3: experimental(1.3.6.1.3) 4: enterprises(1.3.6.1.4) 5: security(1.3.6.1.5) 6: snmpV2(1.3.6.1.6)
770-596	tree type	0 (Not set)	1~2	Type for indicating whether MIB tree is included or excluded. 1: Included 2: Not included
770-597	view family name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-598	mask	00000000 00000000 00000000 00000000	-	Value of each octet is 0x00 to 0xff.
770-599	length of mask	0	0~16	0 to 16
770-600	sub tree	NULL	-	Character string of 1 to 12, including NULL end
770-601	length of sub tree	0	0~12	0 to 12 (prefix length not included)
770-602	sub tree prefix	0	0~6	0: None 1: directory(1.3.6.1.1) 2: mgmt(1.3.6.1.2) 3: experimental(1.3.6.1.3) 4: enterprises(1.3.6.1.4) 5: security(1.3.6.1.5) 6: snmpV2(1.3.6.1.6)
770-603	tree type	0 (Not set)	1~2	Type for indicating whether MIB tree is included or excluded. 1: Included 2: Not included
770-604	view family name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-605	mask	00000000 00000000 00000000 00000000	-	Value of each octet is 0x00 to 0xff.
770-606	length of mask	0	0~16	0 to 16
770-607	sub tree	NULL	-	Character string of 1 to 12, including NULL end
770-608	length of sub tree	0	0~12	0 to 12 (prefix length not included)
770-609	sub tree prefix	0	0~6	0: None 1: directory(1.3.6.1.1) 2: mgmt(1.3.6.1.2) 3: experimental(1.3.6.1.3) 4: enterprises(1.3.6.1.4) 5: security(1.3.6.1.5) 6: snmpV2(1.3.6.1.6)
770-610	tree type	0 (Not set)	1~2	Type for indicating whether MIB tree is included or excluded. 1: Included 2: Not included
770-611	view family name	NULL	-	Character string of 1 to 33 bytes including NULL end

Table 1 Chain 770

Chain-Link	Name	Default	Range	Description
770-612	mask	0000000 0000000 0000000 0000000 0000	-	Value of each octet is 0x00 to 0xff.
770-613	length of mask	0	0~16	0 to 16
770-614	sub tree	NULL	-	Character string of 1 to 12, including NULL end
770-615	length of sub tree	0	0~12	0 to 12 (prefix length not included)
770-616	sub tree prefix	0: NONE	0~6	0: None 1: directory(1.3.6.1.1) 2: mgmt(1.3.6.1.2) 3: experimental(1.3.6.1.3) 4: enterprises(1.3.6.1.4) 5: security(1.3.6.1.5) 6: snmpV2(1.3.6.1.6)
770-617	tree type	0 (Not set)	1~2	Type for indicating whether MIB tree is included or excluded. 1: Included 2: Not included
770-618	view family name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-619	mask	0000000 0000000 0000000 0000000 0000	-	Value of each octet is 0x00 to 0xff.
770-620	length of mask	0	0~16	0 to 16
770-621	sub tree	NULL	-	Character string of 1 to 12, including NULL end
770-622	length of sub tree	0	0~12	0 to 12 (prefix length not included)
770-623	sub tree prefix	0	0~6	0: None 1: directory(1.3.6.1.1) 2: mgmt(1.3.6.1.2) 3: experimental(1.3.6.1.3) 4: enterprises(1.3.6.1.4) 5: security(1.3.6.1.5) 6: snmpV2(1.3.6.1.6)
770-624	tree type	0 (Not set)	1~2	Type for indicating whether MIB tree is included or excluded. 1: Included 2: Not included
770-625	view family name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-626	mask	0000000 0000000 0000000 0000000 0000	-	Value of each octet is 0x00 to 0xff.
770-627	length of mask	0	0~16	0 to 16
770-628	sub tree	NULL	-	Character string of 1 to 12, including NULL end
770-629	length of sub tree	0	0~12	0 to 12 (prefix length not included)
770-630	sub tree prefix	0	0~6	0: None 1: directory(1.3.6.1.1) 2: mgmt(1.3.6.1.2) 3: experimental(1.3.6.1.3) 4: enterprises(1.3.6.1.4) 5: security(1.3.6.1.5) 6: snmpV2(1.3.6.1.6)
770-631	tree type	0 (Not set)	1~2	Type for indicating whether MIB tree is included or excluded. 1: Included 2: Not included
770-632	view family name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-633	mask	0000000 0000000 0000000 0000000 0000	-	Value of each octet is 0x00 to 0xff.

Table 1 Chain 770

Chain-Link	Name	Default	Range	Description
770-634	length of mask	0	0~16	0 to 16
770-635	sub tree	NULL	-	Character string of 1 to 12, including NULL end
770-636	length of sub tree	0	0~12	0 to 12 (prefix length not included)
770-637	sub tree prefix	0	0~6	0: None 1: directory(1.3.6.1.1) 2: mgmt(1.3.6.1.2) 3: experimental(1.3.6.1.3) 4: enterprises(1.3.6.1.4) 5: security(1.3.6.1.5) 6: snmpV2(1.3.6.1.6)
770-638	tree type	0 (Not set)	1~2	Type for indicating whether MIB tree is included or excluded. 1: Included 2: Not included
770-639	view family name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-640	mask	00000000 00000000 00000000 00000000	-	Value of each octet is 0x00 to 0xff.
770-641	length of mask	0	0~16	0 to 16
770-642	sub tree	NULL	-	Character string of 1 to 12, including NULL end
770-643	length of sub tree	0	0~12	0 to 12 (prefix length not included)
770-644	sub tree prefix	0	0~6	0: None 1: directory(1.3.6.1.1) 2: mgmt(1.3.6.1.2) 3: experimental(1.3.6.1.3) 4: enterprises(1.3.6.1.4) 5: security(1.3.6.1.5) 6: snmpV2(1.3.6.1.6)
770-645	tree type	1	1~2	Type for indicating whether MIB tree is included or excluded. 1: Included 2: Not included
770-646	view family name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-647	mask	00000000 00000000 00000000 00000000	-	Value of each octet is 0x00 to 0xff.
770-648	length of mask	0	0~16	0 to 16
770-649	sub tree	NULL	-	Character string of 1 to 12, including NULL end
770-650	length of sub tree	0	0~12	0 to 12 (prefix length not included)
770-651	sub tree prefix	0	0~6	0: None 1: directory(1.3.6.1.1) 2: mgmt(1.3.6.1.2) 3: experimental(1.3.6.1.3) 4: enterprises(1.3.6.1.4) 5: security(1.3.6.1.5) 6: snmpV2(1.3.6.1.6)
770-652	tree type	0 (Not set)	1~2	Type for indicating whether MIB tree is included or excluded. 1: Included 2: Not included
770-653	view family name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-654	mask	00000000 00000000 00000000 00000000	-	Value of each octet is 0x00 to 0xff.
770-655	length of mask	0	0~16	0 to 16
770-656	sub tree	NULL		Character string of 1 to 12, including NULL end
770-657	length of sub tree	0	0~12	0 to 12 (prefix length not included)
770-658	sub tree prefix	0	0~6	0: None 1: directory(1.3.6.1.1) 2: mgmt(1.3.6.1.2) 3: experimental(1.3.6.1.3) 4: enterprises(1.3.6.1.4) 5: security(1.3.6.1.5) 6: snmpV2(1.3.6.1.6)

Table 1 Chain 770

Chain-Link	Name	Default	Range	Description
770-659	tree type	0 (Not set)	1~2	Type for indicating whether MIB tree is included or excluded. 1: Included 2: Not included
770-660	security model	0	0~3	0: ANY 1: V1 2: V2C 3: USM
770-661	security name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-662	group name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-663	security model	0	0~3	0: ANY 1: V1 2: V2C 3: USM
770-664	security name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-665	group name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-666	security model	0	0~3	0: ANY 1: V1 2: V2C 3: USM
770-667	security name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-668	group name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-669	security model	0	0~3	0: ANY 1: V1 2: V2C 3: USM
770-670	security name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-671	group name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-672	security model	0	0~3	0: ANY 1: V1 2: V2C 3: USM
770-673	security name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-674	group name	NULL	-	Character string of 1 to 33 bytes including NULL end
770-705	IP Filter except port 1 protocol	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-706	IP Filter except port 1 port direction	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-707	IP Filter except port 1 port number	0	1~65535	1~65535
770-708	IP Filter except port 2 protocol	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-709	IP Filter except port 2 port direction	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-710	IP Filter except port 2 port number	0	1~65535	1~65535
770-711	IP Filter except port 3 protocol	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-712	IP Filter except port 3 port direction	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-713	IP Filter except port 3 port number	0	1~65535	1~65535
770-714	IP Filter except port 4 protocol	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port

Table 1 Chain 770

Chain-Link	Name	Default	Range	Description
770-715	IP Filter except port 4 port direction	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-716	IP Filter except port 4 port number	0	1~65535	1~65535
770-717	IP Filter except port 5 protocol	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-718	IP Filter except port 5 port direction	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-719	IP Filter except port 5 port number	0	1~65535	1~65535
770-720	IP Filter except port 6 protocol	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-721	IP Filter except port 6 port direction	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-722	IP Filter except port 6 port number	0	1~65535	1~65535
770-723	IP Filter except port 7 protocol	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-724	IP Filter except port 7 port direction	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-725	IP Filter except port 7 port number	0	1~65535	1~65535
770-726	IP Filter except port 8 protocol	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-727	IP Filter except port 8 port direction	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-728	IP Filter except port 8 port number	0	1~65535	1~65535
770-729	IP Filter except port 9 protocol	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-730	IP Filter except port 9 port direction	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-731	IP Filter except port 9 port number	0	1~65535	1~65535
770-732	IP Filter except port 10 protocol	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-733	IP Filter except port 10 port direction	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port

Table 1 Chain 770

Chain-Link	Name	Default	Range	Description
770-734	IP Filter except port 10 port number	0	1~65535	1~65535
770-735	IP Filter except port 11 protocol	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-736	IP Filter except port 11 port direction	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-737	IP Filter except port 11 port number	0	1~65535	1~65535
770-738	IP Filter except port 12 protocol	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-739	IP Filter except port 12 port direction	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-740	IP Filter except port 12 port number	0	1~65535	1~65535
770-741	IP Filter except port 13 protocol	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-742	IP Filter except port 13 port direction	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-743	IP Filter except port 13 port number	0	1~65535	1~65535
770-744	IP Filter except port 14 protocol	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-745	IP Filter except port 14 port direction	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-746	IP Filter except port 14 port number	0	1~65535	1~65535
770-747	IP Filter except port 15 protocol	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-748	IP Filter except port 15 port direction	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-749	IP Filter except port 15 port number	0	1~65535	1~65535
770-750	IP Filter except port 16 protocol	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-751	IP Filter except port 16 port direction	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-752	IP Filter except port 16 port number	0	1~65535	1~65535

Table 1 Chain 770

Chain-Link	Name	Default	Range	Description
770-753	IP Filter except port 17 protocol	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-754	IP Filter except port 17 port direction	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-755	IP Filter except port 17 port number	0	1~65535	1~65535
770-756	IP Filter except port 18 protocol	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-757	IP Filter except port 18 port direction	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-758	IP Filter except port 18 port number	0	1~65535	1~65535
770-759	IP Filter except port 19 protocol	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-760	IP Filter except port 19 port direction	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-761	IP Filter except port 19 port number	0	1~65535	1~65535
770-762	IP Filter except port 20 protocol	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-763	IP Filter except port 20 port direction	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-764	IP Filter except port 20 port number	0	1~65535	1~65535
770-765	IP Filter except port 21 protocol	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-766	IP Filter except port 21 port direction	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-767	IP Filter except port 21 port number	0	1~65535	1~65535
770-768	IP Filter except port 22 protocol	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-769	IP Filter except port 22 port direction	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-770	IP Filter except port 22 port number	0	1~65535	1~65535
770-771	IP Filter except port 23 protocol	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port

Table 1 Chain 770

Chain-Link	Name	Default	Range	Description
770-772	IP Filter except port 23 port direction	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-773	IP Filter except port 23 port number	0	1~65535	1~65535
770-774	IP Filter except port 24 protocol	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-775	IP Filter except port 24 port direction	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-776	IP Filter except port 24 port number	0	1~65535	1~65535
770-777	IP Filter except port 25 protocol	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-778	IP Filter except port 25 port direction	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-779	IP Filter except port 25 port number	0	1~65535	1~65535
770-780	IP Filter except port 26 protocol	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-781	IP Filter except port 26 port direction	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-782	IP Filter except port 26 port number	0	1~65535	1~65535
770-783	IP Filter except port 27 protocol	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-784	IP Filter except port 27 port direction	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-785	IP Filter except port 27 port number	0	1~65535	1~65535
770-786	IP Filter except port 28 protocol	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-787	IP Filter except port 28 port direction	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-788	IP Filter except port 28 port number	0	1~65535	1~65535
770-789	IP Filter except port 29 protocol	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-790	IP Filter except port 29 port direction	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port

Table 1 Chain 770

Chain-Link	Name	Default	Range	Description
770-791	IP Filter except port 29 port number	0	1~65535	1~65535
770-792	IP Filter except port 30 protocol	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-793	IP Filter except port 30 port direction	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-794	IP Filter except port 30 port number	0	1~65535	1~65535
770-795	IP Filter except port 31 protocol	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-796	IP Filter except port 31 port direction	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-797	IP Filter except port 31 port number	0	1~65535	1~65535
770-798	IP Filter except port 32 protocol	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-799	IP Filter except port 32 port direction	0	0~2	0: Data Not Being Set 1: TCP Port 2:UDP Port
770-800	IP Filter except port 32 port number	0	1~65535	1~65535

780-xxx ESS Print Frame Setting NVM List

Table 1 Chain 780

Chain-Link	Name	Default	Range	Description
780-013	Paper type _ Tray 1	22	1~61	1 = Plain 12 = Heavyweight 2 22 = Bond
780-014	Paper type _ Tray 2	22	1~61	1 = Plain 12 = Heavyweight 2 22 = Bond
780-015	Paper type _ Tray 3	22	1~61	1 = Plain 12 = Heavyweight 2 22 = Bond
780-016	Paper type _ Tray 4	22	1~61	1 = Plain 12 = Heavyweight 2 22 = Bond
780-018	Paper type _ Tray 5 (MSI)	22	1~61	1 = Plain 12 = Heavyweight 2 22 = Bond
780-019	User Define: Name of Paper Type 1	NULL		8 alphanumeric Katakana (single byte) characters; maximum 12 alphanumeric, symbols, Katakana, Hiragana, or Kanji (double bytes) (Japan) characters; maximum 24 ASCII characters (M/N)

Table 1 Chain 780

Chain-Link	Name	Default	Range	Description
780-020	User Define: Name of Paper Type 2	NULL		8 alphanumeric Katakana (single byte) characters; maximum 12 alphanumeric, symbols, Katakana, Hiragana, or Kanji (double bytes) (Japan) characters; maximum 24 ASCII characters (M/N)
780-021	User Define: Name of Paper Type 3	NULL		8 alphanumeric Katakana (single byte) characters; maximum 12 alphanumeric, symbols, Katakana, Hiragana, or Kanji (double bytes) (Japan) characters; maximum 24 ASCII characters (M/N)
780-022	User Define: Name of Paper Type 4	NULL		8 alphanumeric Katakana (single byte) characters; maximum 12 alphanumeric, symbols, Katakana, Hiragana, or Kanji (double bytes) (Japan) characters; maximum 24 ASCII characters (M/N)
780-023	User Define: Name of Paper Type 5	NULL		8 alphanumeric Katakana (single byte) characters; maximum 12 alphanumeric, symbols, Katakana, Hiragana, or Kanji (double bytes) (Japan) characters; maximum 24 ASCII characters (M/N)
780-025	Image quality control category _ high quality paper	0	0~60	0 = Plain paper A 1 = Plain paper B 2 = Plain paper C 3 = Plain paper D 4 = Plain paper E 5 = Plain paper F 6 = Plain paper G 7 = Plain paper S
780-026	Image quality control category _ plain paper	2	0~60	0 = Plain paper A 1 = Plain paper B 2 = Plain paper C 3 = Plain paper D 4 = Plain paper E 5 = Plain paper F 6 = Plain paper G 7 = Plain paper S
780-027	Image quality control category _ recycle paper	6	0~60	0 = Plain paper A 1 = Plain paper B 2 = Plain paper C 3 = Plain paper D 4 = Plain paper E 5 = Plain paper F 6 = Plain paper G 7 = Plain paper S
780-028	Image quality control category _ user paper 1	0	0~60	0 = Plain paper A 1 = Plain paper B 2 = Plain paper C 3 = Plain paper D 4 = Plain paper E 5 = Plain paper F 6 = Plain paper G 7 = Plain paper S

Table 1 Chain 780

Chain-Link	Name	Default	Range	Description
780-029	Image quality control category _ user paper 2	0	0~60	0 = Plain paper A 1 = Plain paper B 2 = Plain paper C 3 = Plain paper D 4 = Plain paper E 5 = Plain paper F 6 = Plain paper G 7 = Plain paper S
780-030	Image quality control category _ user paper 3	0	0~60	0 = Plain paper A 1 = Plain paper B 2 = Plain paper C 3 = Plain paper D 4 = Plain paper E 5 = Plain paper F 6 = Plain paper G 7 = Plain paper S
780-031	Image quality control category _ user paper 4	0	0~60	0 = Plain paper A 1 = Plain paper B 2 = Plain paper C 3 = Plain paper D 4 = Plain paper E 5 = Plain paper F 6 = Plain paper G 7 = Plain paper S
780-032	Image quality control category _ user paper 5	0	0~60	0 = Plain paper A 1 = Plain paper B 2 = Plain paper C 3 = Plain paper D 4 = Plain paper E 5 = Plain paper F 6 = Plain paper G 7 = Plain paper S
780-033	Image quality control category _ thick 1 paper	0	0~60	0 = Plain paper A 1 = Plain paper B 2 = Plain paper C 3 = Plain paper D 4 = Plain paper E 5 = Plain paper F 6 = Plain paper G 7 = Plain paper S

Table 1 Chain 780

Chain-Link	Name	Default	Range	Description
780-034	Image Quality Control Category: Heavyweight 1 Finisher	19	0~60	0: Plain Paper A, 1: Plain Paper B, 2: Plain Paper C, 3: Plain Paper D, 4: Plain Paper E, 5: Plain Paper F, 6: Plain Paper G, 7: Plain Paper S, 8: Labels, 9: Lightweight, 10: OHP Sheet, 11: Heavyweight 1, 12: Heavyweight 1 (Side 2), 13: Heavyweight 2, 14: Heavyweight 2 (Side 2), 15: Coated Paper 1, 16: Coated Paper 1 (Side 2), 17: Coated Paper 2, 18: Coated Paper 2 (Side 2), 19: Heavyweight 1_A, 20: Heavyweight 1_B, 21: Heavyweight 1_C, 22: Heavyweight 1_S, 23: Heavyweight 1_A (Side 2), 24: Heavyweight 1_B (Side 2), 25: Heavyweight 1_C (Side 2), 26: Heavyweight 1_S (Side 2), 27: Heavyweight 2_A, 28: Heavyweight 2_B, 29: Heavyweight 2_C, 30: Heavyweight 2_D, 31: Heavyweight 2_S, 32: Heavyweight 2_A (Side 2), 33: Heavyweight 2_B (Side 2), 34: Heavyweight 2_C (Side 2), 35: Heavyweight 2_D (Side 2), 36: Heavyweight 2_S (Side 2), 37: Plain Paper T
780-035	Image quality control category _ thick 1 paper side 2	0	0~60	0 = Plain paper A 1 = Plain paper B 2 = Plain paper C 3 = Plain paper D 4 = Plain paper E 5 = Plain paper F 6 = Plain paper G 7 = Plain paper S
780-036	Image quality control category _ thick 2 paper	0	0~60	0 = Plain paper A 1 = Plain paper B 2 = Plain paper C 3 = Plain paper D 4 = Plain paper E 5 = Plain paper F 6 = Plain paper G 7 = Plain paper S
780-037	Image quality control category _ thick 2 paper side 2	0	0~60	0 = Plain paper A 1 = Plain paper B 2 = Plain paper C 3 = Plain paper D 4 = Plain paper E 5 = Plain paper F 6 = Plain paper G 7 = Plain paper S
780-038	Image quality control category _ side 2	0	0~60	0 = Plain paper A 1 = Plain paper B 2 = Plain paper C 3 = Plain paper D 4 = Plain paper E 5 = Plain paper F 6 = Plain paper G 7 = Plain paper S
780-050	Paper type priority _ high quality paper	1	1~255	1 to 8, where 1 is highest priority
780-051	Paper type priority _ Plain paper	2	1~255	1 to 8, where 1 is highest priority
780-052	Paper type priority _ recycled paper	3	1~255	1 to 8, where 1 is highest priority
780-053	Paper type priority _ user paper 1	4	1~255	1 to 8, where 1 is highest priority
780-054	Paper type priority _ user paper 2	5	1~255	1 to 8, where 1 is highest priority
780-055	Paper type priority _ user paper 3	6	1~255	1 to 8, where 1 is highest priority

Table 1 Chain 780

Chain-Link	Name	Default	Range	Description
780-056	Paper type priority _ user paper 4	7	1~255	1 to 8, where 1 is highest priority
780-057	Paper type priority _ user paper 5	8	1~255	1 to 8, where 1 is highest priority
780-060	Tray 1 priority	1	0~6	1 to 6, where 1 is highest priority
780-061	Tray 2 priority	2	0~6	1 to 6, where 1 is highest priority
780-062	Tray 3 priority	3	0~6	1 to 6, where 1 is highest priority
780-063	Tray 4 priority	4	0~6	1 to 6, where 1 is highest priority
780-065	First BTR home position	0	0~2	0 = Same as default for copy color mode 1 = Retract 2 = Contact
780-066	Lead Edge Erase ADJ	4.0	40~50	4.0 to 5.0mm (in 0.1mm increments)
780-067	Trail Edge Erase ADJ	2.0	20~30	2.0 to 3.0mm (in 0.1mm increments)
780-068	Trail Edge Erase ADJ	2.0	20~30	2.0 to 3.0mm (in 0.1mm increments)
780-069	Image enhancement enable	1	0~1	0 = Off 1 = On
780-071	User Define: Name of Paper Color 1	NULL	-	Alphanumeric Katakana (half-size) 8 characters Alphanumeric symbols/Katakana/Hiragana/Kanji (full-size) 12 characters (Domestic), max. 24 ASCII characters (M/N)
780-072	Center tray offset enable	1	1~3	1 = By set 2 = By job 3 = No offset
780-073	Finisher tray offset enable	1	1~3	1 = By set 2 = By job 3 = No offset
780-074	Large or normal waste toner bottle	0	0~1	0 = Normal waste bottle 1 = High capacity waste bottle
780-075	Is Print Stopped In Drum Life End	1	0~1	0: Not stop 1: Stop
780-076	Paper Type Priority: Heavyweight 1 Finisher	X	0x01~0xff	1~n: 1~n, X (Not applicable for Priority Tray for APS/ATS): 0xff Repetition Allowed, n is the maximum number of paper types that can be selected
780-077	Paper Type Priority: Heavyweight 1 Finisher (A)	X	0x01~0xff	1~n: 1~n, X (Not applicable for Priority Tray for APS/ATS): 0xff Repetition Allowed, n is the maximum number of paper types that can be selected
780-078	Paper Type Priority: Heavyweight 1 Finisher (B)	X	0x01~0xff	1~n: 1~n, X (Not applicable for Priority Tray for APS/ATS): 0xff Repetition Allowed, n is the maximum number of paper types that can be selected
780-079	Paper Type Priority: Heavyweight 1 Finisher (C)	X	0x01~0xff	1~n: 1~n, X (Not applicable for Priority Tray for APS/ATS): 0xff Repetition Allowed, n is the maximum number of paper types that can be selected
780-080	Paper Type Priority: Heavyweight 1 Finisher (S)	X	0x01~0xff	1~n: 1~n, X (Not applicable for Priority Tray for APS/ATS): 0xff Repetition Allowed, n is the maximum number of paper types that can be selected
780-081	Paper Type Priority: Coated Paper 1 Finisher	X	0x01~0xff	1~n: 1~n, X (Not applicable for Priority Tray for APS/ATS): 0xff Repetition Allowed, n is the maximum number of paper types that can be selected
780-084	Paper Type Priority: Side 2	X	0x01~0xff	1~n: 1~n, X (Not applicable for Priority Tray for APS/ATS): 0xff Repetition Allowed, n is the maximum number of paper types that can be selected
780-096	User Define: Name of Paper Color 2	NULL	-	Same as above
780-097	User Define: Name of Paper Color 3	NULL	-	Same as above
780-098	User Define: Name of Paper Color 4	NULL	-	Same as above

Table 1 Chain 780

Chain-Link	Name	Default	Range	Description
780-099	User Define: Name of Paper Color 5	NULL	-	Same as above
780-108	HCF 1 paper type	0	0~61	1 = Plain 22 = Bond (high quality, plain paper B)
780-109	HCF 2 paper type	0	0~61	1 = Plain 22 = Bond (high quality, plain paper B)
780-110	HCF 1 priority	5	1~6	1 to 6, where 1 is highest priority
780-111	HCF 2 priority	6	1~6	1 to 6, where 1 is highest priority
780-126	HCF 1 exists	0	0~1	Auto configure 0 = No HCF1 1 = HCF1 exists
780-127	HCF 2 exists	0	0~1	Auto configure 0 = No HCF2 1 = HCF2 exists
780-141	Center Tray2 Offset Enable	1~3	Offset per Set	1: Offset per Set 2: Offset per Job3: No Offset.
780-142	Forced duplex	1	0~1	In duplex mode when odd number of pages, if last sheet is duplexed. 0 = No (last sheet simplex path) 1 = Yes (last sheet is duplex path)
780-145	IOT control offset mode staple	1	1~3	1 = By set 2 = By job 3 = No offset
780-146	IOT control FS mix size staple	0	0~1	0 = Cancel 1 = Allow operation
780-147	Max staple capacity	50	10~150	Read only
780-148	Max staple capacity _ small size	100	2~200	Read only
780-149	Max staple capacity _ large size	65	2~200	Read only
780-150	Max bifold capacity	0	1~15	Read only
780-151	Max booklet capacity	0	25	Read only
780-153	Media type APS ignore _ confirm	1	0~2	0 = Job prints on the available paper 1 = User chooses to cancel job or print on available paper 2 = User chooses to cancel job or change paper in tray and continue job
780-162	Tray 1 media attribute	0	0~2	0 = No setting 1 = Paper for color prints 2 = Paper for B/W prints
780-163	Tray 2 media attribute	0	0~2	0 = No setting 1 = Paper for color prints 2 = Paper for B/W prints
780-164	Tray 3 media attribute	0	0~2	0 = No setting 1 = Paper for color prints 2 = Paper for B/W prints
780-165	Tray 4 media attribute	0	0~2	0 = No setting 1 = Paper for color prints 2 = Paper for B/W prints

Table 1 Chain 780

Chain-Link	Name	Default	Range	Description
780-166	Tray 6 media attribute	0	0~2	0 = No setting 1 = Paper for color prints 2 = Paper for B/W prints
780-167	Tray 7 media attribute	0	0~2	0 = No setting 1 = Paper for color prints 2 = Paper for B/W prints
780-168	IOT control tab width	15	7~20	1 NVM step = 1 mm
780-170	Display color as a paper attribute	0	0~1	1 = Paper that is not pre punched 2 = Pre drilled paper (any hole configuration)
780-171	Display pre punch as a paper attribute	0	0~1	1 = Paper that is not pre punched 2 = Pre drilled paper (any hole configuration)
780-172	Tray 1 media pre punched	1	1~2	1 = Paper that is not pre punched 2 = Pre drilled paper (any hole configuration)
780-173	Tray 2 media pre punched	1	1~2	1 = Paper that is not pre punched 2 = Pre drilled paper (any hole configuration)
780-174	Tray 3 media pre punched	1	1~2	1 = Paper that is not pre punched 2 = Pre drilled paper (any hole configuration)
780-175	Tray 4 media pre punched	1	1~2	1 = Paper that is not pre punched 2 = Pre drilled paper (any hole configuration)
780-176	Tray 5 media pre punched	1	1~2	1 = Paper that is not pre punched 2 = Pre drilled paper (any hole configuration)
780-177	Tray 6 media pre punched	1	1~2	1 = Paper that is not pre punched 2 = Pre drilled paper (any hole configuration)
780-178	Tray 7 media pre punched	1	1~2	1 = Paper that is not pre punched 2 = Pre drilled paper (any hole configuration)
780-179	Tray 8 media pre punched	1	1~2	1 = Paper that is not pre punched 2 = Pre drilled paper (any hole configuration)
780-180	Tray 1 media color	1	1~8	No additional information
780-181	Tray 2 media color	1	1~8	No additional information
780-182	Tray 3 media color	1	1~8	No additional information
780-183	Tray 4 media color	1	1~8	No additional information
780-184	Tray 6 media color	1	1~8	No additional information
780-185	Tray 7 media color	1	1~8	No additional information
780-192	IQ control category _ Coated 1	0	0~60	No additional information
780-193	IQ control category _ Coated 1 _ side 2	0	0~60	No additional information
780-194	Gloss level	0	0~1	0 = Disabled 1 = Enabled
780-195	IOT config _ OCT	0	0~1	Read only
780-196	IOT output tray offset enable	1	0~1	0 = Offset disabled 1 = Offset enabled (automatic detection)
780-203	Tray1 Fixed Medium Direction	0	0~2	0: No designation, 1: LEF, 2: SEF
780-204	Tray1 Fixed Medium Size	0	0~255	Appendix3 “Paper size set value” Sheet.
780-205	Tray2 Fixed Medium Direction	0	0~2	0: No designation, 1: LEF, 2: SEF

Table 1 Chain 780

Chain-Link	Name	Default	Range	Description
780-206	Tray2 Fixed Medium Size	0	0~255	Appendix3 “Paper size set value” Sheet.
780-207	Tray3 Fixed Medium Direction	0	0~2	0: No designation, 1: LEF, 2: SEF
780-208	Tray3 Fixed Medium Size	0	0~255	Appendix3 “Paper size set value” Sheet.
780-209	Tray4 Fixed Medium Direction	0	0~2	0: No designation, 1: LEF, 2: SEF
780-210	Tray4 Fixed Medium Size	0	0~255	Appendix3 “Paper size set value” Sheet.
780-211	Tray6 Fixed Medium Direction	0	0~2	0: No designation, 1: LEF, 2: SEF
780-212	Tray6 Fixed Medium Size	0	0~255	Appendix3 “Paper size set value” Sheet.
780-213	Tray7 Fixed Medium Direction	0	0~2	0: No designation, 1: LEF, 2: SEF
780-214	Tray7 Fixed Medium Size	0	0~255	Appendix3 “Paper size set value” Sheet.
780-215	HCS Tray Offset Enable	1	1~3	1: Set-by-set basis 2: Job-by-job basis 3: No Offset

Table 1 Chain 785

Chain-Link	Name	Default	Range	Description
785-001	DADF config	0	0~1	Read only
785-002	ACS separate level	3	0~5	1 = Most B/W 2 = Somewhat B/W 3 = Normal 4 = Somewhat toward color 5 = Most color
785-004	Back ground color suppression method _ B/W mode	1	0~1	0 = Image quality prioritized 1 = Speed prioritized
785-005	Back ground color suppression method _ color mode	1	0~1	0 = Image quality prioritized 1 = Speed prioritized
785-008	DADF control type	0	0~2	0 = Auto recognition 1 = PF1 2 = PF2
785-009	IISS extension memory	0	0~1	Read only
785-010	FAX Document Size Detect Method in DADF	0	0~1	0: A/B system, 1: Inch system
785-015	Text _ photo detect level	3	0~5	1 = Most text 2 = Somewhat towards text 3 = Normal 4 = Somewhat towards photo 5 = Most photo
785-016	Photo reproduce level	3	0~5	1 = Most text 2 = Somewhat towards text 3 = Normal 4 = Somewhat towards photo 5 = Most photo
785-020	Copy special color	0	0~2	0 = Normal 1 = Ink jet 2 = Highlighter pen
785-021	HWM H/W Setting	0	0~1	0: Not available 1: Available
785-022	Copy photo text background suppression level	1	0~4	0 = 0 1 = +1 2 = +2 3 = +3 4 = +4
785-023	Copy text background suppression level	1	0~4	0 = 0 1 = +1 2 = +2 3 = +3 4 = +4
785-024	Adjust 100 fast scan	100	980~1020	1 NVM step = 0.1%
785-025	Adjust 100 slow scan	100	980~1020	1 NVM step = 0.1%

Table 1 Chain 785

Chain-Link	Name	Default	Range	Description
785-026	DADF adjust 100	0	0~1	0 = Doesn't apply 1 = Apply
785-028	CVT original size required Off/On	1	0~1	0 = Not required 1 = Require
785-030	Statement size (5.5 x 8.5) enable	0	0~1	0 = Disable 1 = Enable Set with market code
785-031	Copy APS A5 size enable	0	0~1	0 = Disable 1 = Enable Set with market code
785-032	Copy APS B5 size enable	0	0~1	0 = Disable 1 = Enable Set with market code
785-033	Copy APS 8.25 x 10.5 size enable	0	0~1	0 = Disable 1 = Enable Set with market code
785-034	Copy APS 8 x 10 size enable	0	0~1	0 = Disable 1 = Enable Set with market code
785-035	Copy APS 16K size enable	0	0~1	0 = Disable 1 = Enable Set with market code
785-036	Copy APS 8.5 x 11 (letter) size enable	0	0~1	0 = Disable 1 = Enable Set with market code
785-037	Copy APS A4 size enable	0	0~1	0 = Disable 1 = Enable Set with market code
785-038	Copy APS 8.5 x 13 size enable	0	0~1	0 = Disable 1 = Enable Set with market code
785-039	Copy APS 8.5 x 14 (legal) size enable	0	0~1	0 = Disable 1 = Enable Set with market code
785-040	Copy APS B4 size enable	0	0~1	0 = Disable 1 = Enable Set with market code
785-041	Copy APS 8K size enable	0	0~1	0 = Disable 1 = Enable Set with market code
785-042	Copy APS 11 x 17 (tabloid) size enable	0	0~1	0 = Disable 1 = Enable Set with market code
785-043	Copy APS A3 size enable	0	0~1	0 = Disable 1 = Enable Set with market code

Table 1 Chain 785

Chain-Link	Name	Default	Range	Description
785-050	Applicable Range of the Input Original Size when Original Size is Not Specified	0: Applicable to such Originals only	0~1	0: Applicable to such Originals only, 1: Applicable to all the following non-standard Originals
785-051	DADF Dup Simultaneous in Copy	1	0~1	0: “Not conduct Simultaneous Duplex scanning”, 1: “Conduct Simultaneous Duplex scanning”
785-052	DADF Dup Simultaneous in FAX	1	0~1	0: “Not conduct Simultaneous Duplex scanning”, 1: “Conduct Simultaneous Duplex scanning”
785-053	DADF Dup Simultaneous in Scan	1	0~1	0: “Not conduct Simultaneous Duplex scanning”, 1: “Conduct Simultaneous Duplex scanning”
785-065	Image Layout Center/Corner Switch for Large Size Paper 25501: Paste to Center			0: Paste to Corner 1: Paste to Center
785-080	Edge Erase Settings for smaller paper	5	0~10	0~10mm (1mm increments)
785-081	DADF Elevator Tray Active Mode	1	1~2	1: Any of the following (1) and (2) which occurs earlier shall be trigger: @(1) After the lapse of time specified with NVM from Document Set Sensor On. When document guide moves (level change of #1 to 3 Tray APS Sensor), Timer is re-set. Level change while Tray is ascending is ignored. Å@(2) When Start button is pressed while Document Set Sensor is On. 2: Only when Start button is pressed while Document Set Sensor is On.
785-082	IIT scan background suppression	0	0~1	0 = Picture quality priority 1 = Speed Priority

790-xxx ESS Panel Display Setting NVM List

Table 1 Chain 790

Chain-Link	Name	Default	Range	Description
790-001	Startup Display Setting	0	0~2	0: Settings List screen, 1: Job Management screen, 2: Machine Information screen
790-002	Function Setup Startup Display	0	0~255	0: Menu, 1: Copy, 2:FAX/iFAX, 3:Scan to Email, 4:Scan to Mail Box, 5:Scan to Server, 6:Scan to PC, 7:Box, 8:Print, 9:Job Flow Service, 10:Job Memory, 11:Multi Service, 12:Gemini, 13:Docu Share, 14:Media Print (Digital Camera Print), 15:Media Print (Document print)
790-003	Fax Broadcast/Multi-Poll Confirmation Display (CE Setting)	1	0~1	0: Do not display 1: Display
790-004	Toner Near Empty - Advance Notification (Pre Near Empty) Display (CE Setting)	1	0~1	0: Do not display 1: Display
790-005	Address Keyboard, 10 Key Input Prohibited	0	0, 1	0: Do not prohibit, 1: Prohibit
790-006	Paper size button defaults_1	0	0~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF
790-007	Paper size button defaults_2	0	0~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF
790-008	Paper size button defaults_3	0	0~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF
790-009	Paper size button defaults_4	0	0~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF

Table 1 Chain 790

Chain-Link	Name	Default	Range	Description
790-010	Paper size button defaults_5	0	0~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF
790-011	Paper size button defaults_6	0	0~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF
790-012	Paper size button defaults_7	0	0~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF
790-013	Paper size button defaults_8	0	0~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF
790-014	Paper size button defaults_9	0	0~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF
790-015	Paper size button defaults_10	0	0~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF

Table 1 Chain 790

Chain-Link	Name	Default	Range	Description
790-016	Paper size button defaults_11	0	0~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF
790-019	Remaining Job Auto Clear Timer Settings When Accessory is Connected	15 sec	1~59	
790-042	Annotation Page No-Print	0	0~1	0: Not print 1: Print
790-043	Annotation Page No-Start Numb	1	1~999999999	1 to 999999999@*Max. 9 digits
790-044	Annotation Page No-Print Condition	0:	0~2	0: All pages, 2: All pages except the top page
790-045	Annotation Date-Print	0	0~1	0: Not print, 1: Print
790-046	Annotation Date-Print Condition	0	0~2	0: All pages, 1: Top page only, 2: All pages except the top page
790-047	Annotation Stamp-Print	Not print	0~1	Not print 1: Print
790-048	Annotation Stamp-Print Condition	0	0~2	0: All pages, 1: Top page only, 2: All pages except the top page
790-050	Pre Set Tray 1	1	0~255	0: None (not in use), 1: Tray 1, 2: Tray 2, 3: Tray 3, 4: Tray 4, 5: SMH,6: HCF1,7: HCF2
790-051	Pre Set Tray 2	2	0~255	0: None (not in use), 1: Tray 1, 2: Tray 2, 3: Tray 3, 4: Tray 4, 5:6: HCF1,SMH,7: HCF2
790-052	Pre Set Tray 3	3	0~255	0: None (not in use), 1: Tray 1, 2: Tray 2, 3: Tray 3, 4: Tray 4, 5: SMH,6: HCF1,7: HCF2
790-053	Pre Set Tray 4 in Copy	3	0~255	0: None (not in use), 1: Tray 1, 2: Tray 2, 3: Tray 3, 4: Tray 4, 5: SMH,6: HCF1,7: HCF2
790-054	Annotation Page No-Color	1	1~7	1: Black (Not changeable) (MN - 1: Black, 2:Red, 3:Green, 4:Blue, 5:Yellow, 6:Magenta, 7:Cyan)
790-055	Annotation Date-Color	1	1~7	1: Black (Not changeable) (MN - 1:Black, 2:Red, 3:Green, 4:Blue, 5:Yellow, 6:Magenta, 7:Cyan)
790-056	EWB - web access v2.0	0	0~1	0: Not operate with old version (V2.0) 1: Operate
790-057	EWB - access permission	0	0~1	0: Cannot access general sites 1: Can access general sites
790-058	EWB - init cookie	0	0~1	0: Not execute 1: Execute
790-059	EWB - init cache	0	0~1	0: Not execute 1: Execute
790-060	Reduce / enlarge preset button _ 3	0	0~12	1 = undefined 1 - 12 = preset magnification Included in dC351 save/restore machine settings
790-061	Reduce / enlarge preset button _ 4	0	0~12	1 = undefined 1 - 12 = preset magnification Included in dC351 save/restore machine settings
790-062	Reduce / enlarge preset button _ 5	0	0~12	1 = undefined 1 - 12 = preset magnification Included in dC351 save/restore machine settings
790-063	EWB - java script	1	0~1	0: Not use JavaScript 1: Use JavaScript
790-064	EWB - cache	1	0~1	0: Not use Cache 1: Use Cache
790-065	EWB - verify cache	0	0~3	0: Verify automatically 1: Verify at every page display 2: Verify once at page display after start 3: Not verify
790-066	EWB - verify cookie	2	0~2	0: Disable Cookie (Not use Cookie) 1: Enable Cookie (Use Cookie) 2: Verify storage every time when receiving Cookie
790-067	EWB - TLS 1.0	1	0~1	0: Not use TLS1.0 1: Use TLS1.0
790-068	EWB - SSL 2.0	1	0~1	0: Not use SSL2.0 1: Use SSL2.0

Table 1 Chain 790

Chain-Link	Name	Default	Range	Description
790-069	EWB - SSL 3.0	1	0~1	0: Not use SSL3.0 1: Use SSL3.0
790-070	Default Tray Setting in Copy Mode	0	0~5	0: Auto, 1: Tray 1, 2: Tray 2, 3: Tray 3, 4: Tray 4, 5: SMH
790-071	Tray at Auto Cancellation	1	0~12	1: Tray 1, 2: Tray 2, 3: Tray 3, 4: Tray 4
790-072	Default R/E Setting in Copy Mode	0	0~255	0: 100%, 1~12: R/E Preset 1 to R/E Preset 12, 255: Auto
790-073	R/E Preset 1 Setting	1001	25~1026	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%, 1026: 300.00%
790-074	R/E Preset 2 Setting	1003	25~1026	Same as 790-073
790-075	R/E Preset 3 Setting	1005	25~1026	Same as 790-073
790-076	R/E Preset 4 Setting	1007	25~1026	Same as 790-073
790-077	R/E Preset 5 Setting	1009	25~1026	Same as 790-073
790-078	R/E Preset 6 Setting	1010	25~1026	Same as 790-073
790-079	R/E Preset 7 Setting	1013	25~1026	Same as 790-073
790-080	R/E Preset 8 Setting	1014	25~1026	Same as 790-073
790-081	R/E Preset 9 Setting	1017	25~1026	Same as 790-073
790-082	R/E Preset 10 Setting	1019	25~1026	Same as 790-073
790-083	R/E Preset 11 Setting	1022	25~1026	Same as 790-073
790-084	R/E Preset 12 Setting	1025	25~1026	Same as 790-073
790-085	EWB - site sec. warn	0	0~1	0: Not warn when moving from secured site to unsecured site 1: Warn when moving from secured site to unsecured site
790-086	EWB - redirect	2	0~2	0: Not warn for Redirect in sending Form 1: Warn 2: Warn for Redirect to different host
790-087	EWB - cert valid	1	0~1	0: Cancel temporary access to untrusted server 1: Ask user
790-088	Display Logout Confirm Popup	0	0~1	0: Not display 1: Display
790-089	Default Extracted Color for Dual Color	1	1~255	1 (0x01): Except Black, 2 (0x02): Red, 4 (0x04): Green, 8 (0x08): Blue, 16 (0x10): Yellow (Y), 32 (0x20): Magenta (M), 64 (0x40): Cyan (C)
790-090	Output color mode in copy	0	0~5	0 = None 1 = Auto 2 = B/W 3 = 4 color mode 4 = Single color 5 = Dual color Included in dC351 save/restore machine settings
790-091	Default Single Color Selection	1	1~12	1~6: Preset Color 1 to Preset Color 6, 7~12: Custom Color 1 to Custom Color 6
790-092	Reproduction Color Selection Default except for Extracted Part	0	0~12	0: Black, 1~6: Preset Color 1 to Preset Color 6, 7~12: Custom Color 1 to Custom Color 6
790-093	Default Reproduction Color in Extracted Part	1	0~12	0: Black, 1~6: Preset Color 1 to Preset Color 6, 7~12: Custom Color 1 to Custom Color 6
790-096	Default Document Type (Color Machine)	4	0~10	0: Auto, 1: Text (Normal Text), 4: Text/Photo (Print), 5: Text/Photo (Photograph Paper), 6: Text/Photo (Color Copy Originals), 7: Photo (Print), 8: Photo (Photograph Paper), 9: Photo (Color Copy Originals), 10: Map
790-097	Default ground color remove in copy	0	0~1	0 = Off 1 = On

Table 1 Chain 790

Chain-Link	Name	Default	Range	Description
790-098	Default Density Adjustment	3	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
790-099	Default Mixed Size	0	0~1	0: OFF, 1: ON
790-100	Default Color Balance (Y: Low Density)	0: Normal	0~6	0~6: -3~3 (Lighter 3, Lighter 2, Lighter 1, Normal, Darker 1, Darker 2, Darker 3)
790-101	Default Color Balance (Y: Medium Density)	0: Normal	0~6	0~6: -3~3 (Lighter 3, Lighter 2, Lighter 1, Normal, Darker 1, Darker 2, Darker 3)
790-102	Default Color Balance (Y: High Density)	0: Normal	0~6	0~6: -3~3 (Lighter 3, Lighter 2, Lighter 1, Normal, Darker 1, Darker 2, Darker 3)
790-103	Default Color Balance (M: Low Density)	0: Normal	0~6	0~6: -3~3 (Lighter 3, Lighter 2, Lighter 1, Normal, Darker 1, Darker 2, Darker 3)
790-104	Default Color Balance (M: Medium Density)	0: Normal	0~6	0~6: -3~3 (Lighter 3, Lighter 2, Lighter 1, Normal, Darker 1, Darker 2, Darker 3)
790-105	Default Color Balance (M: High Density)	0: Normal	0~6	0~6: -3~3 (Lighter 3, Lighter 2, Lighter 1, Normal, Darker 1, Darker 2, Darker 3)
790-106	Default Color Balance (C: Low Density)	0: Normal	0~6	0~6: -3~3 (Lighter 3, Lighter 2, Lighter 1, Normal, Darker 1, Darker 2, Darker 3)
790-107	Default Color Balance (C: Medium Density)	0: Normal	0~6	0~6: -3~3 (Lighter 3, Lighter 2, Lighter 1, Normal, Darker 1, Darker 2, Darker 3)
790-108	Default Color Balance (C: High Density)	0: Normal	0~6	0~6: -3~3 (Lighter 3, Lighter 2, Lighter 1, Normal, Darker 1, Darker 2, Darker 3)
790-109	Default Color Balance (K: Low Density)	0: Normal	0~6	0~6: -3~3 (Lighter 3, Lighter 2, Lighter 1, Normal, Darker 1, Darker 2, Darker 3)
790-110	Default Color Balance (K: Medium Density)	0: Normal	0~6	0~6: -3~3 (Lighter 3, Lighter 2, Lighter 1, Normal, Darker 1, Darker 2, Darker 3)
790-111	Default Color Balance (K: High Density)	0: Normal	0~6	0~6: -3~3 (Lighter 3, Lighter 2, Lighter 1, Normal, Darker 1, Darker 2, Darker 3)
790-112	Annotation Stamp Modify String 1	1	0~1	0: Inhibited 1: Permitted
790-113	Annotation Stamp Modify String 2	1	0~1	0: Inhibited 1: Permitted
790-114	Annotation Stamp Modify String 3	1	0~1	0: Inhibited 1: Permitted
790-115	Annotation Stamp Modify String 4	1	0~1	0: Inhibited 1: Permitted
790-116	Annotation Stamp Modify String 5	1	0~1	0: Inhibited 1: Permitted
790-117	Annotation Stamp Modify String 6	1	0~1	0: Inhibited 1: Permitted
790-118	Annotation Stamp Modify String 7	1	0~1	0: Inhibited 1: Permitted
790-119	Annotation Stamp Modify String 8	1	0~1	0: Inhibited 1: Permitted
790-120	Default Color Shift	2	0~4	0: -20 degree, 1: -10 degree, 2: 0 degree, 3: +10 degree, 4: +20 degree
790-121	Default Color Saturation	2	0~4	0: Stronger 2 (Highest), 1: Stronger (High), 2: Normal, 3: Softer 1 (Low), 4: Softer 2 (Lower)
790-122	Default Sharpness	2	0~4	0: Sharper, 1: Sharp, 2: Normal, 3: Soft, 4: Softer
790-123	Default Contrast	2	0~4	0: Sharper, 1: Sharp, 2: Normal, 3: Soft, 4: Softer
790-124	Default Center/Corner Shift Position (Side1)	0	0~9	0: OFF, 1: Center, 2: Top Right, 3: Bottom Right, 4: Top Left, 5: Bottom Left, 6: Top Center, 7: Bottom Center, 8: Left Center, 9: Right Center, 10: Symmetrical position with Side 1
790-125	Default Center/Corner Shift Position (Side2)	10	0~10	0: OFF, 1: Center, 2: Top Right, 3: Bottom Right, 4: Top Left, 5: Bottom Left, 6: Top Center, 7: Bottom Center, 8: Left Center, 9: Right Center, 10: Symmetrical position with Side 1

Table 1 Chain 790

Chain-Link	Name	Default	Range	Description
790-126	FAX Broadcast Control	0	0, 1	0: Do not broadcast 1: Broadcast
790-127	Secondary Input Method of First Speed Dial Instruction Condition	0	0~2	0: Address Number 1: Full Dial 2: Do not perform secondary input
790-128	Default Center Erase	0: 0 (mm)	0~50	1mm unit from 0 (mm) to 50 (mm)
790-129	Rotation Default Setting	1	0~2	0: Always ON, 1: ON for APS/AMS only, 2: Always OFF
790-130	Image Orientation Default Setting	“0: Auto” with Finisher, “1: Portrait Originals - Left Edge” without Finisher	0~2	0: Auto, 1: Portrait Originals - Left Edge, 2: Portrait Originals - Right Edge
790-131	Original size button copy mode default_1	0	0~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF Included in dC351 save/restore machine settings
790-132	Original size button copy mode default_2	0	0~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF
790-133	Original size button copy mode default_3	0	0~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF
790-134	Original size button copy mode default_4	0	0~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF

Table 1 Chain 790

Chain-Link	Name	Default	Range	Description
790-135	Original size button copy mode default_5	0	0~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF
790-136	Original size button copy mode default_6	0	0~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF
790-137	Original size button copy mode default_7	0	0~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF
790-138	Original size button copy mode default_8	0	0~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF
790-139	Original size button copy mode default_9	0	0~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF
790-140	Original size button copy mode default_10	0	0~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF

Table 1 Chain 790

Chain-Link	Name	Default	Range	Description
790-141	Original size button copy mode default_11	0	0~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF
790-142	Original size button copy mode default_12	0	0~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF
790-143	Original size button copy mode default_13	0	0~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF
790-144	Original size button copy mode default_14	0	0~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF
790-145	Original size button copy mode default_15	0	0~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF
790-146	Original size button copy mode default_16	0	0~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF

Table 1 Chain 790

Chain-Link	Name	Default	Range	Description
790-147	Original size buttoncopy mode default_17	0	0~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF
790-148	Action type of select list item in JFS.	1	0~1	0: Select List 1: Open Details/Setting screen
790-149	Max Copy Volume.	999(sheet) (Tarzan family/E-MONO family/ Volante: 9,999 sheets)	1~9999	1 to 9999(sheet)
790-172	Paper Type for Copy APS	0	0~255	0: According to existing priority order *See Appendix2 Paper Type for other values. *Paper type settable for trays other than SMH/Interposer, except Tab paper, is designable.
790-173	Paper Color for Copy APS	1: White	0~21	0: All colors 1: White 2: Pink 3: Yellow 4: Ochre 5: Bright yellow 6: Blue 7: Green 10: Red 13: Other 14: Creme 15: Gray 16: Orange 17: User color1 18: User color2 19: User color3 20: User color4 21: User color 5
790-174	Company Name	NULL		Character string of max. 31 bytes including NULL Terminate character string
790-175	Box Service Print Order	0	0~3	0: In ascending order of document registration date 1: In descending order of document registration date 2: In ascending order of document name 3: In descending order of document name
790-180	Default [Document Orientation] in Copy Mode	0	0~1	0: Head to Top, 1: Head to Left
790-181	Duplex feature default setting	0	0~3	0: No (1 to 1 Sided), 1: 1 to 2 Sided, 2: 2 to 1 Sided, 3: 2 to 2 Sided
790-182	Default Collate Mode in Copy Mode	0	0~2	0: Auto, 1: Collated, 2: Uncollated
790-183	Default Output Tray in Copy Mode	0	0~8	0: Center Tray, 1: Side Tray, 2: Finisher Tray, 3: Center Tray2, 4: Top Tray, 5: HCS1Top Tray, 6: HCS1 Stacker Tray, 7: HCS2 Top Tray, 8: HCS2 Stacker Tray
790-184	FAX Sending Display Availability	0	0~1	0: OFF, 1: ON
790-185	Initial display of destination	0	0~4	0:OFF 1:ON 2:Destination screen 3:Basic screen 4:Dial Directory
790-186	Default Communication Mode	2	0~6	1: G4 Auto, 2: G3 Auto, 3: International Communication (Communication Speed is below 4800bps). The following is added in M/N, 4: G3, 5: G3 (ECM), 6: G3 (ECM) - Forced4800
790-187	Default scan density in Fax	Normal	0~6	0: Light3, 1: Light2, 2: Light1, 3: Normal, 4; Dark1, 5: Dark2, 6: Dark3
790-188	Default Image Quality (Document Type)	0	0~2	0: Text, 1: Photo, 2: Text/Photo
790-189	Default scanning resolution in Fax	0	0~3	0: Standard, 1: High image quality(200×200), 2: High image quality(400×400), 3: High image quality(600×600)
790-190	Default Monitor Print	0	0~1	0: OFF, 1: ON
790-191	Default subject of internet fax	NULL	-	Max. 128 bytes. NULL end.
790-192	Default Sender Records	1	0~1	0: OFF, 1: ON

Table 1 Chain 790

Chain-Link	Name	Default	Range	Description
790-193	Default display starting number of Receiver List	1	0~500	1~500
790-194	Default Mixed Size	0	0~1	0: OFF, 1: ON
790-195	Default Receive Mode	0	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	Manual Send/Receive Settings	0	0~1	0: Manual Receive, 1: Manual Send
790-200	FAX Fixed R/E Default Setting 1	1003	50~1026	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%, 1026: 300.00%
790-201	FAX Fixed R/E Default Setting 2	1007	50~1026	Same as 790-200
790-202	FAX Fixed R/E Default Setting 3	1009	50~1026	Same as 790-200
790-203	FAX Fixed R/E Default Setting 4	1010	50~1026	Same as 790-200
790-204	FAX Fixed R/E Default Setting 5	1013	50~1026	Same as 790-200
790-205	FAX Fixed R/E Default Setting 6	1014	50~1026	Same as 790-200
790-206	FAX Fixed R/E Default Setting 7	1017	50~1026	Same as 790-200
790-207	Add Sender To Address	0	0~1	0: Not add, 1: Add
790-208	Add Sender To CC	0	0~1	0: Not add, 1: Add
790-209	Modify Address	1	0~1	0: Inhibited, 1: Permitted
790-210	Fixed Size 1 of FAX Scan Size Input	10: A3 SEF	1~255	1: Not fixed, 10: A3 SEF, 11: A4 LEF, 12: A4 SEF, 13: A5 LEF, 14: A5 SEF, 15: A6 LEF, 16: A6 SEF, 50: Envelope: C4 SEF, 51: Envelope: C5 LEF, 55: Envelope: DL LEF, 66: B4 SEF, 67: B5 LEF, 68: B5 SEF, 69: B6 LEF, 70: B6 SEF, 80: 11x17 SEF, 87: Postcard LEF, 88: Postcard SEF, 89: 8.5x11 LEF, 90: 8.5x11 SEF, 92: 8.5x14 SEF, 94: 12x18 SEF, 98: 12x19 SEF, 101: 16K LEF, 102: 16K SEF, 104: 8K SEF, 105: PostCard (3.5x5.5) LEF, 106: PostCard (3.5x5.5) SEF, 107: PostCard (4x6) LEF, 108: PostCard (4x6) SEF, 109: PostCard (5x7) LEF, 110: PostCard (5x7) SEF, 111: 5.5x8.5 LEF, 112: 5.5x8.5 SEF, 113: PostCard (6x9) LEF, 114: PostCard (6x9) SEF, 115: 8x10 LEF, 116: 8x10 SEF, 118: 8.5x13 SEF, 119: 7.25x10.5 LEF, 120: 7.25x10.5 SEF, 123: Envelope: You Chou 3 LEF, 124: Envelope: Choukei 3SEF, 126: Envelope: Choukei 4SEF, 132: 11x15 SEF, 135: 3.5x5 (Photo L) LEF, 136: 3.5x5 (Photo L) SEF, 137: Envelope: Commercial#10 LEF, 139: 215x315mm (8.46x12.4) SEF, 141: SRA3 SEF, 142: Special A3 SEF, 143: Special A4 LEF, 144: Special A4 SEF, 145: A4Cover SEF, 146: A4Cover LEF, 147: 13x19 SEF, 148: 13x18 SEF, 149: 12.6x19.2 SEF, 150: Letter Cover (9x11) SEF, 151: LetterCover (9x11) LEF, 152: Envelope: Monarch7.3/4 LEF, 154: Return Postcard LEF, 155: Return Postcard SEF, 156: 16K LEF (mainland China), 157: 16K SEF (mainland China), 159: 8K SEF (mainland China)
790-211	Fixed Size 2 of FAX Scan Size Input	12: A4 SEF	1~255	Same as 790-210
790-212	Fixed Size 3 of FAX Scan Size Input	11: A4 LEF	1~255	Same as 790-210
790-213	Fixed Size 4 of FAX Scan Size Input	14: A5 SEF	1~1025	Same as 790-210
790-214	Fixed Size 5 of FAX Scan Size Input	16: A6 SEF	1~255	Same as 790-210
790-215	Fixed Size 6 of FAX Scan Size Input	66: B4 SEF	1~255	Same as 790-210

Table 1 Chain 790

Chain-Link	Name	Default	Range	Description
790-216	Fixed Size 7 of FAX Scan Size Input	68: B5 SEF	1~255	Same as 790-210
790-217	Fixed Size 8 of FAX Scan Size Input	67: B5 LEF	1~255	Same as 790-210
790-218	Fixed Size 9 of FAX Scan Size Input	80: 11x17 SEF	1~255	Same as 790-210
790-219	Fixed Size 10 of FAX Scan Size Input	90: 8.5x11 SEF	1~255	Same as 790-210
790-220	Fixed Size 11 of FAX Scan Size Input	89: 8.5x11 LEF	1~255	Same as 790-210
790-221	Default FAX Profile	0	1~2	0: TIFF-S, 1: TIFF-F, 2: TIFF-J
790-222	Default Mixed Size	0	0~1	0: OFF, 1: ON
790-223	Default color mode in scan	3	0~3	0 = full color 1 = Grayscale 2 = BW 3 = Auto
790-224	Default original type in scan	2	0~2	0 = Text 1 = Photo 2 = Text and Photo
790-225	Default scan resolution in scan	0	0~4	0 = 200 dpi 1 = 300 dpi 2 = 400 dpi 3 = 600 dpi
790-226	Default Top and Bottom Edge Erase	2 (mm)	0~50	1mm unit from 0 (mm) to 50 (mm)
790-227	Default Left and Right Edge Erase	2 (mm)	0~50	1mm unit from 0 (mm) to 50 (mm)
790-228	Center Erase in Scan	0	0~50	0 to 50 (mm)
790-229	Default Density/Brightness Adjustment (Using data common to Density, Brightness)	3	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	Default Contrast Adjustment	2	0~4	0: Stronger 2, 1: Stronger 1, 2: Standard, 3: Softer 1, 4: Softer 2
790-231	Scan size default _ 1	89	1~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF

Table 1 Chain 790

Chain-Link	Name	Default	Range	Description
790-232	Scan size default _ 2	90	1~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF
790-233	Scan size default _ 3	92	1~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF
790-234	Scan size default _ 4	80	1~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF
790-235	Scan size default _ 5	112	1~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF
790-236	Scan size default _ 6	136	1~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF
790-237	Scan size default _ 7	108	1~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF

Table 1 Chain 790

Chain-Link	Name	Default	Range	Description
790-238	Scan size default _ 8	109	1~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF
790-239	Scan size default _ 9	110	1~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF
790-240	Scan size default _ 10	115	1~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF
790-241	Scan size default _ 11	116	1~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF
790-250	Fixed Size 1 Fast Scan	NULL	0~297	15~297mm *Default Value is “0”
790-251	Fixed Size 1 Slow Scan	NULL	0~432	15~432mm *Default Value is “0”
790-252	Fixed Size 2 Fast Scan	NULL	0~297	15~297mm *Default Value is “0”
790-253	Fixed Size 2 Slow Scan	NULL	0~432	15~432mm *Default Value is “0”
790-254	Fixed Size 3 Fast Scan	NULL	0~297	15~297mm *Default Value is “0”
790-255	Fixed Size 3 Slow Scan	NULL	0~432	15~432mm *Default Value is “0”
790-256	Fixed Size 4 Fast Scan	NULL	0~297	15~297mm *Default Value is “0”
790-257	Fixed Size 4 Slow Scan	NULL	0~432	15~432mm *Default Value is “0”
790-258	Fixed Size 5 Fast Scan	NULL	0~297	15~297mm *Default Value is “0”
790-259	Fixed Size 5 Slow Scan	NULL	0~432	15~432mm *Default Value is “0”
790-260	Fixed Size 6 Fast Scan	NULL	0~297	15~297mm *Default Value is “0”
790-261	Fixed Size 6 Slow Scan	NULL	0~432	15~432mm *Default Value is “0”
790-262	Fixed Size 7 Fast Scan	NULL	0~297	15~297mm *Default Value is “0”
790-263	Fixed Size 7 Slow Scan	NULL	0~432	15~432mm *Default Value is “0”
790-264	Fixed Size 8 Fast Scan	NULL	0~297	15~297mm *Default Value is “0”
790-265	Fixed Size 8 Slow Scan	NULL	0~432	15~432mm *Default Value is “0”
790-266	Fixed Size 9 Fast Scan	NULL	0~297	15~297mm *Default Value is “0”

Table 1 Chain 790

Chain-Link	Name	Default	Range	Description
790-267	Fixed Size 9 Slow Scan	NULL	0~432	15~432mm *Default Value is “0”
790-268	Fixed Size 10 Fast Scan	NULL	0~297	15~297mm *Default Value is “0”
790-269	Fixed Size 10 Slow Scan	NULL	0~432	15~432mm *Default Value is “0”
790-270	Fixed Size 11 Fast Scan	NULL	0~297	15~297mm *Default Value is “0”
790-271	Fixed Size 11 Slow Scan	NULL	0~432	15~432mm *Default Value is “0”
790-272	Default [Document Orientation] in SCAN Mode	1: Head to Left	0~1	0: “Head to Top”, 1: “Head to Left”
790-273	SCAN Fixed R/E Default Setting 1	1003: 50.00%,	25~1026	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%, 1026: 300.00%
790-274	SCAN Fixed R/E Default Setting 2	1007: 70.70%	25~1026	Same as 790-274
790-275	SCAN Fixed R/E Default Setting 3	1009: 81.60%	25~1026	Same as 790-274
790-276	SCAN Fixed R/E Default Setting 4	1010: 86.60%	25~1026	Same as 790-274
790-277	SCAN Fixed R/E Default Setting 5	1013: 115.40%	25~1026	Same as 790-274
790-278	SCAN Fixed R/E Default Setting 6	1014: 122.50%	25~1026	Same as 790-274
790-279	SCAN Fixed R/E Default Setting 7	1017: 141.40%	25~1026	Same as 790-274
790-280	Output Size 1	10: A3 SEF	1~255	1: Not fixed, 10: A3 SEF, 11: A4 LEF, 12: A4 SEF, 13: A5 LEF, 14: A5 SEF, 15: A6 LEF, 16: A6 SEF, 50: Envelope: C4 SEF, 51: Envelope: C5 LEF, 55: Envelope: DL LEF, 66: B4 SEF, 67: B5 LEF, 68: B5 SEF, 69: B6 LEF, 70: B6 SEF, 80: 11x17 SEF, 87: Postcard LEF, 88: Postcard SEF, 89: 8.5x11 LEF, 90: 8.5x11 SEF, 92: 8.5x14 SEF, 94: 12x18 SEF, 98: 12x19 SEF, 101: 16K LEF, 102: 16K SEF, 104: 8K SEF, 105: PostCard (3.5x5.5) LEF, 106: PostCard (3.5x5.5) SEF, 107: PostCard (4x6) LEF, 108: PostCard (4x6) SEF, 109: PostCard (5x7) LEF, 110: PostCard (5x7) SEF, 111: 5.5x8.5 LEF, 112: 5.5x8.5 SEF, 113: PostCard (6x9) LEF, 114: PostCard (6x9) SEF, 115: 8x10 LEF, 116: 8x10 SEF, 118: 8.5x13 SEF, 119: 7.25x10.5 LEF, 120: 7.25x10.5 SEF, 123: Envelope: You Chou 3 LEF, 124: Envelope: Choukei 3SEF, 126: Envelope: Choukei 4SEF, 132: 11x15 SEF, 135: 3.5x5 (Photo L) LEF, 136: 3.5x5 (Photo L) SEF, 137: Envelope: Commercial#10 LEF, 139: 215x315mm (8.46x12.4) SEF, 141: SRA3 SEF, 142: Special A3 SEF, 143: Special A4 LEF, 144: Special A4 SEF, 145: A4Cover SEF, 146: A4Cover LEF, 147: 13x19 SEF, 148: 13x18 SEF, 149: 12.6x19.2 SEF, 150: Letter Cover (9x11) SEF, 151: LetterCover (9x11) LEF, 152: Envelope: Monarch7.3/4 LEF, 154: Return Postcard LEF, 155: Return Postcard SEF, 156: 16K LEF (mainland China), 157: 16K SEF (mainland China), 159: 8K SEF (mainland China)
790-281	Output Size 2	12: A4 SEF	1~255	Same as 790-280
790-282	Output Size 3	11: A4 LEF	1~255	Same as 790-280
790-283	Output Size 4	14: A5 SEF	1~255	Same as 790-280
790-284	Output Size 5	16: A6 SEF	1~255	Same as 790-280

Table 1 Chain 790

Chain-Link	Name	Default	Range	Description
790-285	Output Size 6	66: B4 SEF	1~255	Same as 790-280
790-286	Output Size 7	68: B5 SEF	1~255	Same as 790-280
790-287	Output Size 8	89: 8.5x11 LEF	1~255	Same as 790-280
790-288	Default Ground Color Remove in Scan	0	0~1	0: Disable, 1: Enable
790-289	COPY Select Button	0: 4-button	0~1	0: 4-button 1: 5-button
790-290	Basic Screen Preset R/E 1	2	1~7	1~7: R/E Reset 1~7
790-291	Basic Screen Preset R/E 2	4	1~7	1~7: R/E Reset 1~7
790-292	Basic Screen Preset R/E 3	7	1~7	1~7: R/E Reset 1~7
790-295	Default Compression of Scanned Data	0	0~1	0: Auto selection 1: User selection
790-297	Default Compression of Binary	1	0~3	0: MH compression 1: MMR compression 2: JBIG2 compression (Arithmetic coding) 3: JBIG2 compression (Huffman coding)
790-298	Default Compression of Binary	0	0~3	0: MH compression 1: MMR compression 2: JBIG2 compression (Arithmetic coding) 3: JBIG2 compression (Huffman coding)
790-299	Default Compression of Contone	0	0~3	0: JPEG compression 1: WMPhoto compression
790-300	Enable/Disable Special Document Selection Display	0	0~1	0: Do not display 1: Display
790-301	Default Top Edge Erase Margin	2 (mm)	0~50	1mm unit from 0 (mm) to 50 (mm)
790-302	Default Bottom Edge Erase Margin	2 (mm)	0~50	1mm unit from 0 (mm) to 50 (mm)
790-303	Default Left Edge Erase Margin	2 (mm)	0~50	1mm unit from 0 (mm) to 50 (mm)
790-304	Default Right Edge Erase Margin	2 (mm)	0~50	1mm unit from 0 (mm) to 50 (mm)
790-305	Direction Adjust in Scan	1		0: Not adjust 1: Adjust
790-306	Remove Bleed Through in Scan	0: OFF	0~1	0: OFF, 1: ON
790-307	Sharpness Adjust in Scan	0	0~4	0 = Most compression 1 = More compression 2 = Standard 3 = More Image Quality 4 = Most Image Quality
790-309	File format in scan	0	0~8	0: TIFF/JFIF Auto selection 1: TIFF (1page-1file) 2: TIFF (Multi-page) 3: PDF 4: XDW (Not applicable to XC/XE) 5: High compressionPDF 6: High compressionXDW (Not applicable to XC/XE) 7: XPS 8: High compressionXPS

Table 1 Chain 790

Chain-Link	Name	Default	Range	Description
790-310	IFax Send Confirmation Default	0	0~1	0: OFF, 1: ON
790-311	Default Sharpness Adjustment	2	0~4	0: Stronger 2, 1: Stronger 1, 2: Normal, 3: Softer 1, 4: Softer 2
790-312	Enable/Disable Edge Erase	0	0~1	0: Enable, 1: Disable
790-317	Color space button display in scan	0	0~1	0 = Display 1 = Not displayed
790-320	BW Copy Document Type Default (when Document Type is “Auto”)	1	1~10	1: Text (Normal Text), 2: Text (Pencil Text (Black)), 4: Text/Photo (Print), 5: Text/Photo (Photograph Paper), 6: Text/Photo (Color Copy), 7: Photo (Print), 8: Photo (Photograph Paper), 9: Photo (Color Copy), 10: Map
790-321	Default Document Type for Color/Auto (ACS) (when Document Type is “Auto”)	4	1~10	1: Text (Normal Text), 4: Text/Photo (Print), 5: Text/Photo (Photograph Paper), 6: Text/Photo (Color Copy), 7: Photo (Print), 8: Photo (Photograph Paper), 9: Photo (Color Copy), 10: Map
790-322	Default Side 2 Edge Erase	0	0~1	0: Same as Side 1, 1: Side 1 as Target
790-350	Scan size default _ 12	11	1~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF
790-351	Scan size default _ 13	12	1~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF
790-352	Scan size default _ 14	10	1~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF
790-353	Scan size default _ 15	13	1~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF
790-354	Scan size default _ 16	14	1~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF

Table 1 Chain 790

Chain-Link	Name	Default	Range	Description
790-355	Scan size default _ 17	118	1~255	1 = undefined 10 = A3 11 = A4 LEF 12 = A4 SEF 80 = 11 x 17 89 = 8.5 x 11 LEF 90 = 8.5 x 11 SEF
790-356	Display Complete Job	0	0~2	0: Always display 1: Display while in Authentication 2: Not display
790-357	Display Complete Job - display job type	0	0~1	0: All jobs 1: Only job of authenticated user
790-358	Display Complete Job - conceal	0	0~1	0: Not display 1: Display
790-359	Display Incomplete Job - conceal	0	0~1	0: Not display 1: Display
790-360	Fixed Size 12 Fast Scan	NULL	0~297	15~297mm *Default Value is “0”
790-361	Fixed Size 12 Slow Scan	NULL	0~432	15~432mm *Default Value is “0”
790-362	Fixed Size 13 Fast Scan	NULL	0~297	15~297mm *Default Value is “0”
790-363	Fixed Size 13 Slow Scan	NULL	0~432	15~432mm *Default Value is “0”
790-364	Fixed Size 14 Fast Scan	NULL	0~297	15~297mm *Default Value is “0”
790-365	Fixed Size 14 Slow Scan	NULL	0~432	15~432mm *Default Value is “0”
790-366	Fixed Size 15 Fast Scan	NULL	0~297	15~297mm *Default Value is “0”
790-367	Fixed Size 15 Slow Scan	NULL	0~432	15~432mm *Default Value is “0”
790-368	Fixed Size 16 Fast Scan	NULL	0~297	15~297mm *Default Value is “0”
790-369	Fixed Size 16 Slow Scan	NULL	0~432	15~432mm *Default Value is “0”
790-370	Fixed Size 17 Fast Scan	NULL	0~297	15~297mm *Default Value is “0”
790-371	Fixed Size 17 Slow Scan	NULL	0~432	15~432mm *Default Value is “0”
790-380	SCAN Fixed R/E Default Setting 8	1014: 122.50%	25~1026	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%, 1026: 300.00%
790-381	SCAN Fixed R/E Default Setting 9	1017: 141.40%	25~1026	Same as 790-380
790-382	SCAN Fixed R/E Default Setting 10	1019: 163.20%	25~1026	Same as 790-380
790-383	SCAN Fixed R/E Default Setting 11	1022: 200.00%	25~1026	Same as 790-380
790-384	SCAN Fixed R/E Default Setting 12	1025: 400.00%	25~1026	Same as 790-380

Table 1 Chain 790

Chain-Link	Name	Default	Range	Description
790-390	Output Size 9	70: B6 SEF	1~255	1: Not fixed, 10: A3 SEF, 11: A4 LEF, 12: A4 SEF, 13: A5 LEF, 14: A5 SEF, 15: A6 LEF, 16: A6 SEF, 50: Envelope: C4 SEF, 51: Envelope: C5 LEF, 55: Envelope: DL LEF, 66: B4 SEF, 67: B5 LEF, 68: B5 SEF, 69: B6 LEF, 70: B6 SEF, 80: 11x17 SEF, 87: Postcard LEF, 88: Postcard SEF, 89: 8.5x11 LEF, 90: 8.5x11 SEF, 92: 8.5x14 SEF, 94: 12x18 SEF, 98: 12x19 SEF, 101: 16K LEF, 102: 16K SEF, 104: 8K SEF, 105: PostCard (3.5x5.5) LEF, 106: PostCard (3.5x5.5) SEF, 107: PostCard (4x6) LEF, 108: PostCard (4x6) SEF, 109: PostCard (5x7) LEF, 110: PostCard (5x7) SEF, 111: 5.5x8.5 LEF, 112: 5.5x8.5 SEF, 113: PostCard (6x9) LEF, 114: PostCard (6x9) SEF, 115: 8x10 LEF, 116: 8x10 SEF, 118: 8.5x13 SEF, 119: 7.25x10.5 LEF, 120: 7.25x10.5 SEF, 123: Envelope: You Chou 3 LEF, 124: Envelope: Choukei 3SEF, 126: Envelope: Choukei 4SEF, 132: 11x15 SEF, 135: 3.5x5 (Photo L) LEF, 136: 3.5x5 (Photo L) SEF, 137: Envelope: Commercial#10 LEF, 139: 215x315mm (8.46x12.4) SEF, 141: SRA3 SEF, 142: Special A3 SEF, 143: Special A4 LEF, 144: Special A4 SEF, 145: A4Cover SEF, 146: A4Cover LEF, 147: 13x19 SEF, 148: 13x18 SEF, 149: 12.6x19.2 SEF, 150: Letter Cover (9x11) SEF, 151: LetterCover (9x11) LEF, 152: Envelope: Monarch7.3/4 LEF, 154: Return Postcard LEF, 155: Return Postcard SEF, 156: 16K LEF (mainland China), 157: 16K SEF (mainland China), 159: 8K SEF (mainland China)
790-391	Output Size 10	135: 3.5x5 (Photo L) LEF	1~255	Same as 790-380
790-392	Output Size 11	135: 3.5x5 (Photo L) LEF	1~255	Same as 790-390
790-393	Output Size 12	88: Postcard SEF	1~255	Same as 790-380
790-394	Output Size 13	80: 11x17 SEF	1~255	Same as 790-380
790-395	Output Size 14	92: 8.5x14 SEF	1~255	Same as 790-380
790-396	Output Size 15	118: 8.5x13 SEF	1~255	Same as 790-380
790-397	Output Size 16	90: 8.5x11 SEF	1~255	Same as 790-380
790-398	Output Size 17	89: 8.5x11 LEF	1~255	Same as 790-380
790-399	Default Copy - Display Choice Of Right-Binding	0	0~1	0: Not display 1: Display
790-400	Display Remaining - percent	1	0~1	0: Not display 1: Display

Table 1 Chain 790

Chain-Link	Name	Default	Range	Description
790-401	Menu Screen Favorite Setting 1	1	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, 17: BM LinkS, 101: Auto Gradation Adjustment, 102: FAX Receive mode, 103: Activity Report, 104: Language, 105: Create, 106: Printer mode, 107: Help, 108:Recognition print, 109:Security print box, 110:Sample print box, 111:Specified print box time, 112:Private recognition print, 200:Screen brightness
790-402	Menu Screen Favorite Setting 2	2	0~255	Same as 790-401
790-403	Menu Screen Favorite Setting 3	104	0~255	Same as 790-401
790-404	Menu Screen Favorite Setting 4	3	0~255	Same as 790-401
790-405	Menu Screen Favorite Setting 5	4	0~255	Same as 790-401
790-406	Menu Screen Favorite Setting 6	105	0~255	Same as 790-401
790-407	Menu Screen Favorite Setting 7	5	0~255	Same as 790-401
790-408	Menu Screen Favorite Setting 8	6	0~255	Same as 790-401
790-409	Menu Screen Favorite Setting 9	101	0~255	Same as 790-401
790-410	Menu Screen Favorite Setting 10	7	0~255	Same as 790-401
790-411	Menu Screen Favorite Setting 11	10	0~255	Same as 790-401
790-412	Menu Screen Favorite Setting 12	106	0~255	Same as 790-401
790-413	Menu Screen Favorite Setting 13	9	0~255	Same as 790-401
790-414	Menu Screen Favorite Setting 14	17	0~255	Same as 790-401
790-415	Menu Screen Favorite Setting 15	102	0~255	Same as 790-401
790-416	Menu Screen Favorite Setting 16	0	0~255	Same as 790-401
790-417	Menu Display Utility Setting 1	104	0~255	0: No features, 1: Copy, 2: FAX/iFAX, 3: Scan To Email, 4: Scan To Mail Box, 5: Scan To Server, 6: Scan To PC, 7: BOX, 8: Print, 9: Job Flow Service, 10: Job Memory, 17: BM LinkS, 101: Auto Gradation Adjustment, 102: FAX Receive mode, 103: Activity Report, 104: Language, 105: Create, 106: Printer mode, 107: Help, 108:Recognition print, 109:Security print box, 110:Sample print box, 111:Specified print box time, 112:Private recognition print, 200:Screen brightness
790-418	Menu display setting _ 2	200	0~255	Same as 790-417
790-419	Menu display setting _ 3	105	0~255	Same as 790-417
790-420	Menu display setting _ 4	101	0~255	Same as 790-417
790-421	Basic copying tab set up _ 1	0	0~2	0 = No customizing 1 = Customizing L1 2 = Customizing L2
790-422	Sided copying option button _ 2	0	0~255	0 = No setting 1 = Color mode 3 = Original image quality 5 = Copy density (open) 25 = Edge erase 26 = Copy position / Bind margin shift 30 = Mix size original feed 41 = Collate

Table 1 Chain 790

Chain-Link	Name	Default	Range	Description
790-423	Sided copying option button _ 3	0	0~255	0 = No setting 1 = Color mode 3 = Original image quality 5 = Copy density (open) 25 = Edge erase 26 = Copy position / Bind margin shift 30 = Mix size original feed 41 = Collate
790-424	Sided copying option button _ 4	0	0~255	0 = No setting 1 = Color mode 3 = Original image quality 5 = Copy density (open) 25 = Edge erase 26 = Copy position / Bind margin shift 30 = Mix size original feed 41 = Collate
790-425	Basic copying tab set up _ 5	0	0~255	0 = No setting 1 = Color mode 3 = Original image quality 5 = Copy density (open) 25 = Edge erase 26 = Copy position / Bind margin shift 30 = Mix size original feed 41 = Collate
790-426	Basic copying tab set up _ 6	0	0~255	0 = No setting 1 = Color mode 3 = Original image quality 5 = Copy density (open) 25 = Edge erase 26 = Copy position / Bind margin shift 30 = Mix size original feed 41 = Collate
790-427	Basic copying tab set up _ 7	0	0~255	0 = No setting 1 = Color mode 3 = Original image quality 5 = Copy density (open) 25 = Edge erase 26 = Copy position / Bind margin shift 30 = Mix size original feed 41 = Collate
790-428	Basic copying tab set up _ 8	0	0~255	0 = No setting 1 = Color mode 3 = Original image quality 5 = Copy density (open) 25 = Edge erase 26 = Copy position / Bind margin shift 30 = Mix size original feed 41 = Collate

Table 1 Chain 790

Chain-Link	Name	Default	Range	Description
790-429	Basic copying tab set up _ 9	0	0~255	0 = No setting 1 = Color mode 3 = Original image quality 5 = Copy density (open) 25 = Edge erase 26 = Copy position / Bind margin shift 30 = Mix size original feed 41 = Collate
790-430	Basic copying tab set up _ 10	0	0~255	0 = No setting 1 = Color mode 3 = Original image quality 5 = Copy density (open) 25 = Edge erase 26 = Copy position / Bind margin shift 30 = Mix size original feed 41 = Collate
790-431	Basic copying tab set up _ 11	0	0~255	0 = No setting 1 = Color mode 3 = Original image quality 5 = Copy density (open) 25 = Edge erase 26 = Copy position / Bind margin shift 30 = Mix size original feed 41 = Collate
790-432	Basic Scan Favorite Function Number	0	0~1	0: Not Customized, 1: Customized L1
790-433	Basic Scan Favorite Function Settings (L1-1)	0	0~255	0: Not Set, 1: 2 Sided Scan, 2: Scan Resolution, 3: Scan Density, 4: Scan Ratio
790-434	Basic Scan Favorite Function Settings (L1-2)	0	0~255	0: Not Set, 1: 2 Sided Scan, 2: Scan Resolution, 3: Scan Density, 4: Scan Ratio
790-435	Current Display Language	1	1~32	1: Japanese, 2: English, 3: French, 4: German, 5: Italian, 6: Spanish, 7: Portuguese, 8: Russian, 9: Chinese, 10: Korean, 11: Thai, 12: Vietnamese, 13: Chinese (Taiwan), 14: Dutch, 15: Danish, 16: Swedish, 17: Finnish, 18: Norwegian, 19: Portuguese (Brazil), 20: Bulgarian, 21: Polish, 22: Hungarian, 23: Romanian, 24: Czech, 25: Greek, 26: Turkish, 27: Arabic, 28: Persian, 29: Hebrew
790-436	Service Customize Key 1	1	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, 108: Recognition print, 109: Security print box, 110: Sample print box, 111: specified print box of time, 112: Private recognition print
790-437	Service Customize Key 2	0	0~255	Same as 790-436
790-438	Service Customize Key 3	0	0~255	Same as 790-436
790-439	Keyboard Types Switch	0	0~1	0: Qwerty, 1: ABC
790-440	Supports ASCII Only keyboard	1	0~1	0: Displays only ASCII items, 1: Displays non-ASCII items
790-441	Display Language Limit - Language 1	1	0~1	0: Do not display 1: Display
790-442	Display Language Limit - Language 2	1	0~1	0: Do not display 1: Display
790-443	Display Language Limit - Language 3	1	0~1	0: Do not display 1: Display
790-444	Display Language Limit - Language 4	1	0~1	0: Do not display 1: Display

Table 1 Chain 790

Chain-Link	Name	Default	Range	Description
790-445	Display Language Limit - Language 5	1	0~1	0: Do not display 1: Display
790-446	Display Language Limit - Language 6	1	0~1	0: Do not display 1: Display
790-447	Display Language Limit - Language 7	1	0~1	0: Do not display 1: Display
790-448	Display Language Limit - Language 8	1	0~1	0: Do not display 1: Display
790-449	Display Language Limit - Language 9	1	0~1	0: Do not display 1: Display
790-450	Display Language Limit - Language 10	1	0~1	0: Do not display 1: Display
790-451	Display Language Limit - Language 11	1	0~1	0: Do not display 1: Display
790-452	Display Language Limit - Language 12	1	0~1	0: Do not display 1: Display
790-453	Display Language Limit - Language 13	1	0~1	0: Do not display 1: Display
790-454	Display Language Limit - Language 14	1	0~1	0: Do not display 1: Display
790-455	Display Language Limit - Language 15	1	0~1	0: Do not display 1: Display
790-456	Display Language Limit - Language 16	1	0~1	0: Do not display 1: Display
790-457	Display Language Limit - Language 17	1	0~1	0: Do not display 1: Display
790-458	Display Language Limit - Language 18	1	0~1	0: Do not display 1: Display
790-459	Display Language Limit - Language 19	1	0~1	0: Do not display 1: Display
790-460	Display Language Limit - Language 20	1	0~1	0: Do not display 1: Display
790-461	Display Language Limit - Language 21	1	0~1	0: Do not display 1: Display
790-462	Display Language Limit - Language 22	1	0~1	0: Do not display 1: Display
790-463	Display Language Limit - Language 23	1	0~1	0: Do not display 1: Display
790-464	Display Language Limit - Language 24	1	0~1	0: Do not display 1: Display
790-465	Display Language Limit - Language 25	1	0~1	0: Do not display 1: Display
790-466	Display Language Limit - Language 26	1	0~1	0: Do not display 1: Display
790-467	Display Language Limit - Language 27	1	0~1	0: Do not display 1: Display
790-468	Display Language Limit - Language 28	1	0~1	0: Do not display 1: Display
790-469	Display Language Limit - Language 29	1	0~1	0: Do not display 1: Display
790-470	Display Language Limit - Language 30	1	0~1	0: Do not display 1: Display
790-471	Display Language Limit - Language 31	1	0~1	0: Do not display 1: Display
790-472	Display Language Limit - Language 32	1	0~1	0: Do not display 1: Display
790-473	Job List Display Filter Control	0	0~3	0: Displays All, 1: Transfer, 2: Print, 3: Communications
790-474	Front Cover Tray preset 1	3	1~7	1: Tray1, 2: Tray2, 3: Tray3, 4: Tray4, 5: SMH, 6: Tray6(HCF), 7: Tray7(HCF)
790-475	Front Cover Tray preset 2	4	1~7	1: Tray1, 2: Tray2, 3: Tray3, 4: Tray4, 5: SMH, 6: Tray6(HCF), 7: Tray7(HCF)
790-476	Back Cover Tray preset 1	3	1~7	1: Tray1, 2: Tray2, 3: Tray3, 4: Tray4, 5: SMH, 6: Tray6(HCF), 7: Tray7(HCF)
790-477	Back Cover Tray preset 2	4	1~7	1: Tray1, 2: Tray2, 3: Tray3, 4: Tray4, 5: SMH, 6: Tray6(HCF), 7: Tray7(HCF)
790-478	Allow Key Reset Settings	1	0~1	0: OFF, 1: ON
790-488	Menu Screen Favorite Setting 17	0	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, 108:Recognition print, 109:Security print box, 110:Sample print box, 111:Specified print box time, 112:Private recognition print, 200:Screen brightness
790-489	Menu Screen Favorite Setting 18	0	0~255	Same as 790-488

Table 1 Chain 790

Chain-Link	Name	Default	Range	Description
790-490	Menu Display Utility Setting 5	0	0~255	0: No features, 101: Auto Gradation Adjustment, 102: FAX Receive mode, 103: Activity Report, 104: Language, 105: Create, 106: Printer mode, 107: Help, 108:Recognition print, 109:Security print box, 110:Sample print box, 111:Specified print box time, 112:Private recognition print, 200:Screen brightness
790-491	Menu Display Utility Setting 6	0	0~255	Same as 790-490
790-492	Menu Display Utility Setting 7	0	0~255	Same as 790-490
790-493	Menu Display Utility Setting 8	0: No features	0~255	Same as 790-490
790-494	Menu Display Utility Setting 9	0	0~255	Same as 790-490
790-495	Scan OCR Default	0	0~1	0: Disable 1: Enable
790-496	Scan OCR Default - Lang	0	0~PFV_MAX_LANG	0: Auto iLanguage displayed on control panelj 2: English 3: French 6: Spanish
790-497	Scan OCR Default - Compression	1	0~1	0: Not compress 1: Compress
790-531	19-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-532	20-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-533	21-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-534	22-Menu Display Customize Service Set	0.	0~255	0: Function not provided
790-535	23-Menu Display Customize Service Set	0.	0~255	0: Function not provided
790-536	24-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-550	FAX Fixed R/E Setting 8	1014: 122.50%	50~1026	1~24: Not in use, 25~400:%, 401~1000: Not in use, 1001: 25.00%, 1002: 35.30%, 1003: 50.00%, 1004: 57.70%, 1005: 61.20%, 1006:64.70%, 1007: 70.70%, 1008: 78.50%, 1009: 81.60%, 1010: 86.60%, 1011: 94.00%, 1012: 97.30%, 1013: 115.40%, 1014: 122.50%, 1015: 127.30%, 1016: 129.40%, 1017: 141.40%, 1018: 154.50%, 1019: 163.20%, 1020: 173.20%, 1021: 180.00%, 1022: 200.00%, 1024: 282.80%, 1025: 400.00%, 1026: 300.00%
790-551	FAX Fixed R/E Setting 9	1017: 141.40%	50~1026	Same as 790-550
790-552	FAX Fixed R/E Setting 10	1019: 163.20%	50~1026	Same as 790-550
790-553	FAX Fixed R/E Setting 11	1022: 200.00%	50~1026	Same as 790-550
790-554	FAX Fixed R/E Setting 12	1025: 400.00%	50~1025	Same as 790-550

Table 1 Chain 790

Chain-Link	Name	Default	Range	Description
790-560	Fixed Size 12 of FAX Scan Size Input	88: Postcard SEF	1~255	1: Not fixed, 10: A3 SEF, 11: A4 LEF, 12: A4 SEF, 13: A5 LEF, 14: A5 SEF, 15: A6 LEF, 16: A6 SEF, 50: Envelope: C4 SEF, 51: Envelope: C5 LEF, 55: Envelope: DL LEF, 66: B4 SEF, 67: B5 LEF, 68: B5 SEF, 69: B6 LEF, 70: B6 SEF, 80: 11x17 SEF, 87: Postcard LEF, 88: Postcard SEF, 89: 8.5x11 LEF, 90: 8.5x11 SEF, 92: 8.5x14 SEF, 94: 12x18 SEF, 98: 12x19 SEF, 101: 16K LEF, 102: 16K SEF, 104: 8K SEF, 105: PostCard (3.5x5.5) LEF, 106: PostCard (3.5x5.5) SEF, 107: PostCard (4x6) LEF, 108: PostCard (4x6) SEF, 109: PostCard (5x7) LEF, 110: PostCard (5x7) SEF, 111: 5.5x8.5 LEF, 112: 5.5x8.5 SEF, 113: PostCard (6x9) LEF, 114: PostCard (6x9) SEF, 115: 8x10 LEF, 116: 8x10 SEF, 118: 8.5x13 SEF, 119: 7.25x10.5 LEF, 120: 7.25x10.5 SEF, 123: Envelope: You Chou 3 LEF, 124: Envelope: Choukei 3SEF, 126: Envelope: Choukei 4SEF, 132: 11x15 SEF, 135: 3.5x5 (Photo L) LEF, 136: 3.5x5 (Photo L) SEF, 137: Envelope: Commercial#10 LEF, 139: 215x315mm (8.46x12.4) SEF, 141: SRA3 SEF, 142: Special A3 SEF, 143: Special A4 LEF, 144: Special A4 SEF, 145: A4Cover SEF, 146: A4Cover LEF, 147: 13x19 SEF, 148: 13x18 SEF, 149: 12.6x19.2 SEF, 150: Letter Cover (9x11) SEF, 151: LetterCover (9x11) LEF, 152: Envelope: Monarch7.3/4 LEF, 154: Return Postcard LEF, 155: Return Postcard SEF, 156: 16K LEF (mainland China), 157: 16K SEF (mainland China), 159: 8K SEF (mainland China)
790-561	Fixed Size 13 of FAX Scan Size Input	80: 11x17 SEF	1~255	Same as 790-560
790-562	Fixed Size 14 of FAX Scan Size Input	92: 8.5x14 SEF	1~255	Same as 790-560
790-563	Fixed Size 15 of FAX Scan Size Input	118: 8.5x13 SEF	1~255	Same as 790-560
790-564	Fixed Size 16 of FAX Scan Size Input	90: 8.5x11 SEF	1~255	Same as 790-560
790-565	Fixed Size 17 of FAX Scan Size Input	89: 8.5x11 LEF	1~255	Same as 790-560
790-566	FAX Pass Stamp UI Default	0	0~1	0: OFF, 1: ON
790-570	PTT Customer Settable	0	0~3	0: Disable 1: EU area country settable 2: NA area country settable 3: EU/NA/DMO area country settable
790-580	Edge Erase Preset 1 - Name	Hole Punch Erase	-	Alphanumeric (Max. 24 ASCII characters + End NULL) character string
790-581	Edge Erase Preset 1 - Type	2	0~4	0: Disable, 2: Independent (Top, Bottom, Let, Right), 3: Border Erase (Top/Bottom/Left/Right), 4: Independent (Side1/Side2 independent)
790-582	Edge Erase Preset 1 - Front Face Top	2 (mm)	0~50	0 to 50 (mm)
790-583	Edge Erase Preset 1 - Front Face Bottom	2 (mm)	0~50	0 to 50 (mm)
790-584	Edge Erase Preset 1 - Front Face Left	13 (mm)	0~50	0 to 50 (mm)
790-585	Edge Erase Preset 1 - Front Face Right	2 (mm)	0~50	0 to 50 (mm)
790-586	Edge Erase Preset 1 - Back Face Top	2 (mm)	0~50	0 to 50 (mm)
790-587	Edge Erase Preset 1 - Back Face Bottom	2 (mm)	0~50	0 to 50 (mm)
790-588	Edge Erase Preset 1 - Back Face Left	2 (mm)	0~50	0 to 50 (mm)
790-589	Edge Erase Preset 1 - Back Face Right	13 (mm)	0~50	0 to 50 (mm)

Table 1 Chain 790

Chain-Link	Name	Default	Range	Description
790-590	Edge Erase Preset 2 - Name	Header/ Footer Erase	-	Alphanumeric (Max.24 ASCII characters + End NULL) character string
790-591	Edge Erase Preset 2 - Type	2	0~4	0: Disable, 2: Independent (Top, Bottom, Let, Right), 3: Border Erase (Top/Bottom/Left/Right), 4: Independent (Side1/Side2 independent)
790-592	Edge Erase Preset 2 - Front Face Top	13 (mm)	0~50	0 to 50 (mm)
790-593	Edge Erase Preset 2 - Front Face Bottom	13 (mm)	0~50	0 to 50 (mm)
790-594	Edge Erase Preset 2 - Front Face Left	2 (mm)	0~50	0 to 50 (mm)
790-595	Edge Erase Preset 2 - Front Face Right	2 (mm)	0~50	0 to 50 (mm)
790-596	Edge Erase Preset 2 - Back Face Top	13 (mm)	0~50	0 to 50 (mm)
790-597	Edge Erase Preset 2 - Back Face Bottom	13 (mm)	0~50	0 to 50 (mm)
790-598	Edge Erase Preset 2 - Back Face Left	2 (mm)	0~50	0 to 50 (mm)
790-599	Edge Erase Preset 2 - Back Face Right	2 (mm)	0~50	0 to 50 (mm)
790-600	Poster Overlap Width	10 (mm)	1~25	10 to 25 (mm)
790-601	Image Shift Index	15 (mm)	0~15	0 to 15 (mm)
790-602	Output Side in Copy	Auto	0~3	0: Auto, 1: Face-down output, 2: Face-up output, 3: Reverse order output
790-604	Single Copy Output Face	FX: FaceUp AP: FaceUp XE: Face-Down XC: Face-Down	0~1	0: Face Up, 1: Face Down
790-605	Sample Copy Enable	0: Disable sample copy	0~1	0:, 1: Enable sample copy
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 (MN - 1:N, 2:-N-, 3:Page N)
790-607	Annotation Page No-Position	6: Bottom center (MN - 5: Lower right)	1~6	1: Upper left, 2: Upper right, 3: Top center, 4: Lower left, 5: Lower right, 6: Bottom center

Table 1 Chain 790

Chain-Link	Name	Default	Range	Description
790-609	Annotation Page No-Position_side2	0: Symmetric position, (MN - 1: Identical position)	0~1	0: Symmetric position, 1: Identical position
790-611	Annotation Date-Position	5: Lower right (MN - 4: Lower left)	1~6	1: Upper left, 2: Upper right, 3: Top center, 4: Lower left, 5: Lower right, 6: Bottom center
790-613	Annotation Date-Position_side2	0: Symmetric position, (MN - 1: Identical position)	0~1	0: Symmetric position, 1: Identical position
790-614	Annotation Stamp-Position	2	1~9	1: Upper left, 2: Upper right, 3: Top center, 4: Lower left, 5: Lower right, 6: Bottom center, 7:Left center, 8:Right center, 9: Center
790-616	Annotation Stamp-Color	1	1~7	1: Black, 2: Red, 3: Green, 4: Blue, 5: Yellow, 6: Magenta, 7: Cyan
790-617	Annotation Stamp-Density	0	0~2	0: 0%(Solid) 1: 25% 2: 50%
790-618	Annotation Stamp-Position_side2	1	0~1	0: Symmetric position, 1: Identical position
790-619	Annotation Stamp-dirCheck	1: Determine with each original (MN - 0: Determine with the 1st original)	0~1	0: Determine with the 1st original, 1: Determine with each original
790-620	Allover Copy Enable	1	1~2	1: [Disable Copy All (Copy All with reduction)] 2: [Enable Copy All]
790-621	The display after scanning by Scan Service is completed	0	0~2	0: Do not display 7sec “Scanning completed” message and “Transferring data” screen; 1: Display 7sec “Scanning completed” message but not the “Transferring data” screen; 2: Display 7sec “Scanning completed” message and the “Transferring data” screen
790-630	No. of digits for Assumed Speed Dial No.	0	0~6	0: Actual Address Book 3: 3-digit Virtual Address Book 4: 4-digit Virtual Address Book 5: 5-digit Virtual Address Book 6: 6-digit Virtual Address Book (*1, 2 cannot be set up)
790-631	Move Registration Data in Address Book	0r	0~1	0: Do not transfer, 1: Transfer
790-632	Added Thumbnail Default (Net Save)	1	0, 1	0: Do not add, 1: Add

Table 1 Chain 790

Chain-Link	Name	Default	Range	Description
790-633	Added Thumbnail Default (Mail)	0	0, 1	0: Do not add, 1: Add
790-634	Counter Area Display	<FX, AP> 0: Number of set + Memory <XC, XL> 2: Only number of set	0~255	0:Number of set + Memory - Remaining amount, 1: Number of set + Original counter, 2: Only number of set
790-635	Box Service Start Display	0: Extended Mail-box (E-MONO family (M/C pro-vided with Copy Server - 1: Copy Server Box)	0~255	0: Extended Mailbox 1: Copy Server - Box
790-636	Job List Display Filter	0	0~255	0: Display remaining time (accumulated time), 1: Display required time (per job)
790-640	Paper Type Change Screen Display	0	0~255	0: Do not display, 1: Display
790-641	Paper Information Color Attribute Dis-play Availability	0	0~255	0: Do not display, 1: Display
790-642	Paper Information Other Attributes Dis-play Availability	1	0~255	0: Do not display, 1: Display applied size, 2: Display hole punch attributes, 3: Display color attributes
790-650	Camera Preset Tray 1	HB=1, FCW=1	1~255	0: No setting (Not used), 1: Tray1, 2: Tray2, 3: Tray3, 4: Tray4, 5: SMH, 6: Tray6(HCF), 7: Tray7(HCF)
790-651	Camera Preset Tray 2	HB=2, FCW=2	1~255	0: No setting (Not used), 1: Tray1, 2: Tray2, 3: Tray3, 4: Tray4, 5: SMH, 6: Tray6(HCF), 7: Tray7(HCF)
790-652	Camera Preset Tray 3	HB=3, FCW=5	1~255	0: No setting (Not used), 1: Tray1, 2: Tray2, 3: Tray3, 4: Tray4, 5: SMH, 6: Tray6(HCF), 7: Tray7(HCF)
790-653	Camera Preset Tray 4	HB=5, FCW=0	1~255	0: No setting (Not used), 1: Tray1, 2: Tray2, 3: Tray3, 4: Tray4, 5: SMH, 6: Tray6(HCF), 7: Tray7(HCF)
790-654	Document Preset Tray 1	HB=1, FCW=1	1~255	0: No setting (Not used), 1: Tray1, 2: Tray2, 3: Tray3, 4: Tray4, 5: SMH, 6: Tray6(HCF), 7: Tray7(HCF)
790-655	Document Preset Tray 2	HB=2, FCW=5	1~255	0: No setting (Not used), 1: Tray1, 2: Tray2, 3: Tray3, 4: Tray4, 5: SMH, 6: Tray6(HCF), 7: Tray7(HCF)

Table 1 Chain 790

Chain-Link	Name	Default	Range	Description
790-656	Document Preset Tray 3	HB=5, FCW=0	1~255	0: No setting (Not used), 1: Tray1, 2: Tray2, 3: Tray3, 4: Tray4, 5: SMH, 6: Tray6(HCF), 7: Tray7(HCF)
790-661	Report Storage Mailbox	1	1~500	Mailbox No.
790-662	Consumables Check Auto Display Timing Settings	0	0~2	0: Do not display, 1: Display only after the Power ON initialization sequence has completed and the system is Ready, 2: Display every time auto clear occurred
790-664	Address Book Import Operation Mode	0	0, 1	[0: Add Mode, 1: Substitute Mode]
790-665	Paper Tray Settings Screen Access on Setup Menu	1	0, 1	[0: OFF, 1: ON]
790-666	DADF Mixed Standard Size Scan Mode Display Settings	1	0, 1	0: Do not display, 1: Display
790-667	Blank Document Detection Feature Panel Default	0	0, 1	0: OFF, 1: ON
790-668	Allow/Prohibit JT/FT/Address Book Registration Settings	0	0, 1	0: Prohibit, 1: Allow
790-670	Blank Document Detection Feature Display Settings	0	0, 1	0: Do not display 1: Display
790-671	Auto Resume Feature Settings	1	0, 1	0: Do not Auto Resume 1: Auto Resume
790-672	Auto Clear Time-Out Display Screen	1	0, 1	0: Maintain previous service 1: Follow M/C configuration
790-674	Basic FAX favorite setting (2nd row)	0	0~255	0: Not set, 1: 2 Sided Document Feed, 2: Monitor Report, 3: Communication Mode, 4: Send Header
790-676	Separator Tray Default for Build Separator Insertion	5	1~8	1: Tray 1, 2: Tray 2, 3: Tray 3, 4: Tray 4, 5: SMH, 6: Tray 6 (HCF), 7: Tray 7 (HCF), 8: Interposer
790-677	Side1 Cover Tray Default for Cover	5	1~8	1: Tray 1, 2: Tray 2, 3: Tray 3, 4: Tray 4, 5: SMH, 6: Tray 6 (HCF), 7: Tray 7 (HCF), 8: Interposer
790-678	Side2 Cover Tray Default for Cover	5	1~8	1: Tray 1, 2: Tray 2, 3: Tray 3, 4: Tray 4, 5: SMH, 6: Tray 6 (HCF), 7: Tray 7 (HCF), 8: Interposer
790-679	Side1 Cover Tray Default for Booklet	5	1~8	1: Tray 1, 2: Tray 2, 3: Tray 3, 4: Tray 4, 5: SMH, 6: Tray 6 (HCF), 7: Tray 7 (HCF), 8: Interposer
790-680	Fax Number Double Input Restriction	0	0~1	0: Do not allow double input 1: Allow double input

Table 1 Chain 790

Chain-Link	Name	Default	Range	Description
790-681	Default Copy Org Erase	0: Disable (Standard) (MN - 3: Border Erase (Top/Bottom-Left/Right))	0~3	0: Disable (Standard) 1: Edge Erase (Top/Bottom, Left/Right) 2: Independent (Top, Bottom, Left, Right) 3: Border Erase (Top/Bottom, Left/Right) (MN - 2: Independent (Top, Bottom, Left, Right) 3: Border Erase (Top/Bottom, Left/Right))
790-682	Separator Sheet Default Tray Setting	5	0~8	0: Auto, 1: Tray 1, 2: Tray 2, 3: Tray 3, 4: Tray 4, 5: SMH, 6: Tray 6 (HCF), 7: Tray 7 (HCF), 8: Interposer Refer to the FF of Copy Service Func for the setup range.
790-683	Brightness/Contrast Settings	0	-127~127	-127~127 (Because the valid range for each MCW Panel is different, the upper and lower limit values are controlled through the UI Panel)
790-684	UI Screen Default Shortcut Screen Settings	0	0, 1	0: Do not display anything, 1: Display login screen
790-685	1-Extended Service-Service Type	0	0~255	0: Function not provided, 1: Copy, 2: FAX/iFAX, 3: Scan To Email, 4: Scan To Mail Box, 5: Scan To Server, 6: Scan To PC, 7: BOX, 8: Print, 9: Job Flow Service, 10: Job Memory, 11: Multi Service, 12: Gemini, 13: DocuShare, 14: Media Print(Digital camera print), 15: MediaPrint(Document print), 16: CUI_IFAX, 17: BM LinkS, 61: Enhancement
790-686	2-Extended Service-Service Type	0	0~255	Same as 790-685
790-687	3-Extended Service-Service Type	0	0~255	Same as 790-685
790-688	4-Extended Service-Service Type	0	0~255	Same as 790-685
790-689	5-Extended Service-Service Type	0	0~255	Same as 790-685
790-690	6-Extended Service-Service Type	0	0~255	Same as 790-685
790-691	7-Extended Service-Service Type	0	0~255	Same as 790-685
790-692	8-Extended Service-Service Type	0	0~255	Same as 790-685
790-693	9-Extended Service-Service Type	0	0~255	Same as 790-685
790-694	10-Extended Service-Service Type	0	0~255	Same as 790-685
790-695	1-Extended Service-Info Type	0	0~1	0: None, 1: Index
790-696	2-Extended Service-Info Type	0	0~1	0: None, 1: Index
790-697	3-Extended Service-Info Type	0	0~1	0: None, 1: Index
790-698	4-Extended Service-Info Type	0	0~1	0: None, 1: Index
790-699	5-Extended Service-Info Type	0	0~1	0: None, 1: Index
790-700	6-Extended Service-Info Type	0	0~1	0: None, 1: Index
790-701	7-Extended Service-Info Type	0	0~1	0: None, 1: Index
790-702	8-Extended Service-Info Type	0	0~1	0: None, 1: Index
790-703	9-Extended Service-Info Type	0	0~1	0: None, 1: Index
790-704	10-Extended Service-Info Type	0	0~1	0: None, 1: Index
790-705	1-Extended Service-Info	0	0~0xffffffff	Any value of 4 bytes according to applicable service and additional information type
790-706	2-Extended Service-Info	0	0~0xffffffff	Any value of 4 bytes according to applicable service and additional information type

Table 1 Chain 790

Chain-Link	Name	Default	Range	Description
790-707	3-Extended Service-Info	0	0~0xffffffff	Any value of 4 bytes according to applicable service and additional information type
790-708	4-Extended Service-Info	0	0~0xffffffff	Any value of 4 bytes according to applicable service and additional information type
790-709	5-Extended Service-Info	0	0~0xffffffff	Any value of 4 bytes according to applicable service and additional information type
790-710	6-Extended Service-Info	0	0~0xffffffff	Any value of 4 bytes according to applicable service and additional information type
790-711	7-Extended Service-Info	0	0~0xffffffff	Any value of 4 bytes according to applicable service and additional information type
790-712	8-Extended Service-Info	0	0~0xffffffff	Any value of 4 bytes according to applicable service and additional information type
790-713	9-Extended Service-Info	0	0~0xffffffff	Any value of 4 bytes according to applicable service and additional information type
790-714	10-Extended Service-Info	0	0~0xffffffff	Any value of 4 bytes according to applicable service and additional information type
790-720	Edge Erase Preset 3 - Name	NULL	-	Alphanumeric (Max.24 ASCII characters + End NULL) character string
790-721	Edge Erase Preset 3 - Type	3	0~4	0: Disable, 2: Independent(Top, Bottom, Left, Right), 3: Border Erase(Top/BottomLeft/Right), 4: Independent(Side1/Side2 independent)
790-722	Edge Erase Preset 3 - Front Face Top	2 (mm)	0~50	0 to 50 (mm)
790-723	Edge Erase Preset 3 - Front Face Bottom	2 (mm)	0~50	0 to 50 (mm)
790-724	Edge Erase Preset 3 - Front Face Left	2 (mm)	0~50	0 to 50 (mm)
790-725	Edge Erase Preset 3 - Front Face Right	2 (mm)	0~50	0 to 50 (mm)
790-726	Edge Erase Preset 3 - Back Face Top	2 (mm)	0~50	0 to 50 (mm)
790-727	Edge Erase Preset 3 - Back Face Bottom	2 (mm)	0~50	0 to 50 (mm)
790-728	Edge Erase Preset 3 - Back Face Left	2 (mm)	0~50	0 to 50 (mm)
790-729	Edge Erase Preset 3 - Back Face Right	2 (mm)	0~50	0 to 50 (mm)
790-730	Image ShiftPreset 1 - Name	Shift Right	-	Alphanumeric (Max.24 ASCII characters + End NULL) character string
790-731	Image ShiftPreset 1 - Type	2	0~3	0: No shift, 1: Center shift, 2: Margin width adjustment, 3: Margin width adjustment (Side1/Side2 independent)
790-732	Image ShiftPreset 1 - Front Face Top-Bottom Margin	0 (mm)	0~50	0 to 50 (mm)
790-733	Image ShiftPreset 1 - Front Face Top-Bottom Direction	0	0~2	0: OFF, 1: Upward direction, 2: Downward direction
790-734	Image ShiftPreset 1 - Front Face LeftRight Margin	13 (mm)	0~50	0 to 50 (mm)
790-735	Image ShiftPreset 1 - Front Face LeftRight Direction	4	0~4	0: OFF, 3: Left direction, 4: Right direction
790-736	Image ShiftPreset 1 - Back Face Top-Bottom Margin	0 (mm)	0~50	0 to 50 (mm)
790-737	Image ShiftPreset 1 - Back Face Top-Bottom Direction	0	0~2	0: OFF, 1: Upward direction, 2: Downward direction
790-738	Image ShiftPreset 1 - Back Face LeftRight Margin	13 (mm)	0~50	0 to 50 (mm)
790-739	Image ShiftPreset 1 - Back Face LeftRight Direction	3	0~4	0: OFF, 3: Left direction, 4: Right direction
790-740	Image ShiftPreset 2 - Name	Shift Down	-	Alphanumeric (Max. 24 ASCII characters + End NULL)
790-741	Image ShiftPreset 2 - Type	2	0~3	0: No shift, 1: Center shift, 2: Margin width adjustment, 3: Margin width adjustment (Side1/Side2 independent)

Table 1 Chain 790

Chain-Link	Name	Default	Range	Description
790-742	Image ShiftPreset 2 - Front Face Top-Bottom Margin	13 (mm)	0~50	0 to 50 (mm)
790-743	Image ShiftPreset 2 - Front Face Top-Bottom Direction	2	0~2	0: OFF, 1: Upward direction, 2: Downward direction
790-744	Image ShiftPreset 2 - Front Face LeftRight Margin	0 (mm)	0~50	0 to 50 (mm)
790-745	Image ShiftPreset 2 - Front Face LeftRight Direction	0	0~4	0: OFF, 3: Left direction, 4: Right direction
790-746	Image ShiftPreset 2 - Back Face Top-Bottom Margin	13 (mm)	0~50	0 to 50 (mm)
790-747	Image ShiftPreset 2 - Back Face Top-Bottom Direction	2n	0~2	0: OFF, 1: Upward direction, 2: Downward direction
790-748	Image ShiftPreset 2 - Back Face LeftRight Margin	0 (mm)	0~50	0 to 50 (mm)
790-749	Image ShiftPreset 2 - Back Face LeftRight Direction	0	0~4	0: OFF, 3: Left direction, 4: Right direction
790-750	Image ShiftPreset 3 - Name	NULL	-	Alphanumeric (Max. 24 ASCII characters + End NULL)
790-751	Image ShiftPreset 3 - Type	0	0~3	0: No shift, 1: Center shift, 2: Margin width adjustment, 3: Margin width adjustment (Side1/Side2 independent)
790-752	Image ShiftPreset 3 - Front Face Top-Bottom Margin	0 (mm)	0~50	0 to 50 (mm)
790-753	Image ShiftPreset 3 - Front Face Top-Bottom Direction	0	0~2	0: OFF, 1: Upward direction, 2: Downward direction
790-754	Image ShiftPreset 3 - Front Face LeftRight Margin	0 (mm)	0~50	0 to 50 (mm)
790-755	Image ShiftPreset 3 - Front Face LeftRight Direction	0	0~4	0: OFF, 3: Left direction, 4: Right direction
790-756	Image ShiftPreset 3 - Back Face Top-Bottom Margin	0 (mm)	0~50	0 to 50 (mm)
790-757	Image ShiftPreset 3 - Back Face Top-Bottom Direction	0	0~2	0: OFF, 1: Upward direction, 2: Downward direction
790-758	Image ShiftPreset 3 - Back Face LeftRight Margin	0 (mm)	0~50	0 to 50 (mm)
790-759	Image ShiftPreset 3 - Back Face LeftRight Direction	0	0~4	0: OFF, 3: Left direction, 4: Right direction
790-760	25-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-761	26-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-762	27-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-763	28-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-764	29-Menu Display Customize Service Set	0	0~255	0: Function not provided

Table 1 Chain 790

Chain-Link	Name	Default	Range	Description
790-765	30-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-766	31-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-767	32-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-768	33-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-769	34-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-770	35-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-771	36-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-772	37-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-773	38-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-774	39-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-775	40-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-776	41-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-777	42-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-778	43-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-779	44-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-780	45-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-781	46-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-782	47-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-783	48-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-784	49-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-785	50-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-786	51-Menu Display Customize Service Set	0	0~255	0: Function not provided

Table 1 Chain 790

Chain-Link	Name	Default	Range	Description
790-787	52-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-788	53-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-789	54-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-790	55-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-791	56-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-792	57-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-793	58-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-794	59-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-795	60-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-796	61-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-797	62-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-798	63-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-799	64-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-800	65-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-801	66-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-802	67-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-803	68-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-804	69-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-805	70-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-806	71-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-807	72-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-808	73-Menu Display Customize Service Set	0	0~255	0: Function not provided

Table 1 Chain 790

Chain-Link	Name	Default	Range	Description
790-809	74-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-810	75-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-811	76-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-812	77-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-813	78-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-814	79-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-815	80-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-816	81-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-817	82-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-818	83-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-819	84-Menu Display Customize Service Set	0.	0~255	0: Function not provided
790-820	85-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-821	86-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-822	87-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-823	88-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-824	89-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-825	90-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-826	91-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-827	92-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-828	93-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-829	94-Menu Display Customize Service Set	0	0~255	0: Function not provided
790-830	95-Menu Display Customize Service Set	0.	0~255	0: Function not provided

Table 1 Chain 790

Chain-Link	Name	Default	Range	Description
790-831	96-Menu Display Customize Service Set	0	0~255	0: Function not provided

Table 1 Print Service

Chain-Link	NVM Name	Initial Value	Setup Range	Description
800-001	Operation when no tray contains the specified paper size	6: Display Add Paper.	1~8	6: Display Add Paper (No SPS), 5: Use Larger Size (No adjustment), 2: Use Nearest Size (Adjust), 7: Oceans2 only, do not use substitute tray (Abort) 8: (Added after Kutani) Feed from Bypass tray
800-002	Index Print - select	0: No designation	0~3	0: No designation 1: Disable 2: Print on tab area only 3: Print on main page {tab area
800-003	Index Print - shift	130	0~150	1 to 150 (Unit: 0.1 mm)
800-004	Default output tray for E-mail printing	0: Center Tray (without C/D-Fin) 4: Top Tray (with C/D-Fin) 5: HCS Top Tray (with HCS1)	0~127	0: Center Tray, 1: Side Tray, 2: Finisher Tray, 3: Center Tray2, 4: Top Tray, 5: HCS1 Top Tray, 6: HCS1 Stacker Tray, 33 to 42: MailBox1 to 10 (Unattached option is not selectable)
800-005	PJL EOJ Filter for RAW I/F	0: Enable at PJL EOJ command to end job	0~1	0: Enable @PJL EOJ command to end job 1: Ignore @PJL EOJ command not to end job
800-006	Print Area	1: Normal	1~2	1: Normal, 2: Expand
800-016	ID Print	5: Disables ID Print	1~5	1: Prints on upper left, 2: Prints on upper right, 3: Prints on bottom left, 4: Prints on bottom right, 5: Disables ID Print
800-017	Security Print Output Operation	1: TRUE: Allow Device Print	0~1	1: TRUE: Allow Device Print, 0: FALSE: Forbid Device Print
800-018	Force Extend Print	1: Do not force extend print	0~2	1: Do not force extend print, 2: Force extend print (For Kutani, installed from P/L)
800-019	XPS Print Ticket Mode	2: Standard	1~3	1: No process 2: Standard 3: Microsoft specification compatible
800-020	Error Diffusion Initial [K-Light]	1 (Pinehurst - 0) (Volante - 5) (E-MONO family - 3)	0~64	0 to 64
800-021	Error Diffusion Initial [C-Light]	1 (Pinehurst - 7)	0~64	0 to 64
800-022	Error Diffusion Initial [M-Light]	1 (Pinehurst - 4)	0~64	0 to 64
800-023	Error Diffusion Initial [K-Normal]	1 (Pinehurst - 4) (Volante - 5) (E-MONO family - 6)	0~64	0 to 64
800-024	Error Diffusion Initial [K-Normal]	1 (Pinehurst - 11)	0~64	0 to 64
800-025	Error Diffusion Initial [K-Normal]	1 (Pinehurst - 8)	0~64	0 to 64
800-026	Error Diffusion Initial [K-Dark]	3 (Pinehurst - 4) (Volante - 16) (E-MONO family - 9)	0~64	0 to 64
800-027	Error Diffusion Initial [C-Dark]	3 (Pinehurst - 11)	0~64	0 to 64
800-028	Error Diffusion Initial [M-Dark]	3 (Pinehurst - 8)	0~64	0 to 64
800-029	Error Diffusion Step [K-Light]	4	1~10	1 to 10
800-030	Error Diffusion Step [C-Light]	4	1~10	1 to 10
800-031	Error Diffusion Step [M-Light]	4	1~10	1 to 10
800-032	Error Diffusion Step [K-Normal]	4	1~10	1 to 10

Table 1 Print Service

Chain-Link	NVM Name	Initial Value	Setup Range	Description
800-033	Error Diffusion Step [C-Normal]	4	1~10	1 to 10
800-034	Error Diffusion Step [M-Normal]	4	1~10	1 to 10
800-035	Error Diffusion Step [K-Dark]	6	1~10	1 to 10
800-036	Error Diffusion Step [C-Dark]	6	1~10	1 to 10
800-037	Error Diffusion Step [M-Dark]	6	1~10	1 to 10
800-039	Signature Legacy Mode	0: With margin (Normal process-ing)	0~1	0: With margin (Normal processing) 1: Without margin (To emulate failure of existing product (AR86313))
800-040	Dither value of sublimit [K-Light]	12 (Teak - 21)	0~128	0 to 128
800-041	Dither value of sublimit [C-Light]	0	0~128	0 to 128
800-042	Dither value of sublimit [M-Light]	15	0~128	0 to 128
800-043	Dither value of sublimit [K-Normal]	16 (Teak - 25)	0~128	0 to 128
800-044	Dither value of sublimit [K-Normal]	24	0~128	0 to 128
800-045	Dither value of sublimit [K-Normal]	19	0~128	0 to 128
800-046	Dither value of sublimit [K-Dark]	24 (Teak - 33)	0~128	0 to 128
800-047	Dither value of sublimit [C-Dark]	32	0~128	0 to 128
800-048	Dither value of sublimit [M-Dark]	27	0~128	0 to 128
803-505	HPGL Job mem Current	0: HP750c	0~1	0: HP750c, 1: FX4036
803-506	HPGL Job mem 1	0: HP750c	0~1	0: HP750c, 1: FX4036
803-507	HPGL Job mem 2	0: HP750c	0~1	0: HP750c, 1: FX4036
803-508	HPGL Job mem 3	0: HP750c	0~1	0: HP750c, 1: FX4036
803-509	HPGL Job mem 4	0: HP750c	0~1	0: HP750c, 1: FX4036
803-510	HPGL Job mem 5	0: HP750c	0~1	0: HP750c, 1: FX4036
803-511	HPGL Job mem 6	0: HP750c	0~1	0: HP750c, 1: FX4036
803-512	HPGL Job mem 7	0: HP750c	0~1	0: HP750c, 1: FX4036
803-513	HPGL Job mem 8	0: HP750c	0~1	0: HP750c, 1: FX4036
803-514	HPGL Job mem 9	0: HP750c	0~1	0: HP750c, 1: FX4036
803-515	HPGL Job mem 10	0: HP750c	0~1	0: HP750c, 1: FX4036
803-516	HPGL Job mem 11	0: HP750c	0~1	0: HP750c, 1: FX4036
803-517	HPGL Job mem 12	0: HP750c	0~1	0: HP750c, 1: FX4036
803-518	HPGL Job mem 13	0: HP750c	0~1	0: HP750c, 1: FX4036
803-519	HPGL Job mem 14	0: HP750c	0~1	0: HP750c, 1: FX4036
803-520	HPGL Job mem 15	0: HP750c	0~1	0: HP750c, 1: FX4036
803-521	HPGL Job mem 16	0: HP750c	0~1	0: HP750c, 1: FX4036
803-522	HPGL Job mem 17	0: HP750c	0~1	0: HP750c, 1: FX4036
803-523	HPGL Job mem 18	0: HP750c	0~1	0: HP750c, 1: FX4036
803-524	HPGL Job mem 19	0: HP750c	0~1	0: HP750c, 1: FX4036
803-525	HPGL Job mem 20	0: HP750c	0~1	0: HP750c, 1: FX4036
805-781	TIFF Logic Printer 1 Bypass Tray feed direction	0: Short edge feed priority(SEF)	0~1	0: Short edge feed priority(SEF) 1: Long edge feed priority(LEF)

Table 1 Print Service

Chain-Link	NVM Name	Initial Value	Setup Range	Description
805-782	TIFF Logic Printer 2 Bypass Tray feed direction	0: Short edge feed priority(SEF)	0~1	0: Short edge feed priority(SEF) 1: Long edge feed priority(LEF)
805-783	TIFF Logic Printer 3 Bypass Tray feed direction	0: Short edge feed priority(SEF)	0~1	0: Short edge feed priority(SEF) 1: Long edge feed priority(LEF)
805-784	TIFF Logic Printer 4 Bypass Tray feed direction	0: Short edge feed priority(SEF)	0~1	0: Short edge feed priority(SEF) 1: Long edge feed priority(LEF)
805-785	TIFF Logic Printer 5 Bypass Tray feed direction	0: Short edge feed priority(SEF)	0~1	0: Short edge feed priority(SEF) 1: Long edge feed priority(LEF)
805-786	TIFF Logic Printer 6 Bypass Tray feed direction	0: Short edge feed priority(SEF)	0~1	0: Short edge feed priority(SEF) 1: Long edge feed priority(LEF)
805-787	TIFF Logic Printer 7 Bypass Tray feed direction	0: Short edge feed priority(SEF)	0~1	0: Short edge feed priority(SEF) 1: Long edge feed priority(LEF)
805-788	TIFF Logic Printer 8 Bypass Tray feed direction	0: Short edge feed priority(SEF)	0~1	0: Short edge feed priority(SEF) 1: Long edge feed priority(LEF)
805-789	TIFF Logic Printer 9 Bypass Tray feed direction	0: Short edge feed priority(SEF)	0~1	0: Short edge feed priority(SEF) 1: Long edge feed priority(LEF)
805-790	TIFF Logic Printer 10 Bypass Tray feed direction	0: Short edge feed priority(SEF)	0~1	0: Short edge feed priority(SEF) 1: Long edge feed priority(LEF)
805-791	TIFF Logic Printer 11 Bypass Tray feed direction	0: Short edge feed priority(SEF)	0~1	0: Short edge feed priority(SEF) 1: Long edge feed priority(LEF)
805-792	TIFF Logic Printer 12 Bypass Tray feed direction	0: Short edge feed priority(SEF)	0~1	0: Short edge feed priority(SEF) 1: Long edge feed priority(LEF)
805-793	TIFF Logic Printer 13 Bypass Tray feed direction	0: Short edge feed priority(SEF)	0~1	0: Short edge feed priority(SEF) 1: Long edge feed priority(LEF)
805-794	TIFF Logic Printer 14 Bypass Tray feed direction	0: Short edge feed priority(SEF)	0~1	0: Short edge feed priority(SEF) 1: Long edge feed priority(LEF)
805-795	TIFF Logic Printer 15 Bypass Tray feed direction	0: Short edge feed priority(SEF)	0~1	0: Short edge feed priority(SEF) 1: Long edge feed priority(LEF)
805-796	TIFF Logic Printer 16 Bypass Tray feed direction	0: Short edge feed priority(SEF)	0~1	0: Short edge feed priority(SEF) 1: Long edge feed priority(LEF)
805-797	TIFF Logic Printer 17 Bypass Tray feed direction	0: Short edge feed priority(SEF)	0~1	0: Short edge feed priority(SEF) 1: Long edge feed priority(LEF)
805-798	TIFF Logic Printer 18 Bypass Tray feed direction	0: Short edge feed priority(SEF)	0~1	0: Short edge feed priority(SEF) 1: Long edge feed priority(LEF)
805-799	TIFF Logic Printer 19 Bypass Tray feed direction	0: Short edge feed priority(SEF)	0~1	0: Short edge feed priority(SEF) 1: Long edge feed priority(LEF)
805-800	TIFF Logic Printer 20 Bypass Tray feed direction	0: Short edge feed priority(SEF)	0~1	0: Short edge feed priority(SEF) 1: Long edge feed priority(LEF)
806-996	PS Font Mismatch Default	0: Substitute	0~1	[0: Substitute, 1: End job]
806-997	PS ATCX Default	0: ON	0~1	[0: ON, 1: OFF]
806-998	PS Color Default	1: Color	0~1	[0: BW, 1: Color]
806-999	PS Deferred Media Selection Enable	1: Valid	0~1	[0: Invalid, 1: Valid]
809-257	PC Prjob Mem Current	0: Not available	0~1	0:Not available, 1:Available

Table 1 Print Service

Chain-Link	NVM Name	Initial Value	Setup Range	Description
809-258	PC Prjob Mem 1	0: Not available	0~1	0:Not available, 1:Available
809-259	PC Prjob Mem 1	0: Not available	0~1	0:Not available, 1:Available
809-260	PC Prjob Mem 1	0: Not available	0~1	0:Not available, 1:Available
809-261	PC Prjob Mem 1	0: Not available	0~1	0:Not available, 1:Available
809-262	PC Prjob Mem 1	0: Not available	0~1	0:Not available, 1:Available

Table 1 Chain 810

Chain/Link	Name	Default	Range	Description
810-001	Annotation Bates Numbering Print	0: Not print	0~1	0: Not print, 1: Print
810-002	Fixed Preset Color 1 (Red)-Y Element	102: 80%	0~128	0%~100%, 1/128% Units (0~128 increments)
810-003	Fixed Preset Color 1 (Red)-M Element	128: 100%	0~128	0%~100%, 1/128% Units (0~128 increments)
810-004	Fixed Preset Color 1 (Red)-C Element	0: 0%	0~128	0%~100%, 1/128% Units (0~128 increments)
810-005	Fixed Preset Color 2 (Green)-Y Element	118: 92%	0~128	0%~100%, 1/128% Units (0~128 increments)
810-006	Fixed Preset Color 2 (Green)-M Element	0: 0%	0~128	0%~100%, 1/128% Units (0~128 increments)
810-007	Fixed Preset Color 2 (Green)-C Element	128: 100%	0~128	0%~100%, 1/128% Units (0~128 increments)
810-008	Fixed Preset Color 3 (Blue)-Y Element	0: 0%	0~128	0%~100%, 1/128% Units (0~128 increments)
810-009	Fixed Preset Color 3 (Blue)-M Element	102: 80%	0~128	0%~100%, 1/128% Units (0~128 increments)
810-010	Fixed Preset Color 3 (Blue)-C Element	128: 100%	0~128	0%~100%, 1/128% Units (0~128 increments)
810-011	Fixed Preset Color 4 (Yellow)-Y Element	128: 100%	0~128	0%~100%, 1/128% Units (0~128 increments)
810-012	Fixed Preset Color 4 (Yellow)-M Element	0: 0%	0~128	0%~100%, 1/128% Units (0~128 increments)
810-013	Fixed Preset Color 4 (Yellow)-C Element	0: 0%	0~128	0%~100%, 1/128% Units (0~128 increments)
810-014	Fixed Preset Color 5 (Magenta)-Y Element	0: 0%	0~128	0%~100%, 1/128% Units (0~128 increments)
810-015	Fixed Preset Color 5 (Magenta)-M Element	128: 100%	0~128	0%~100%, 1/128% Units (0~128 increments)
810-016	Fixed Preset Color 5 (Magenta)-C Element	0: 0%	0~128	0%~100%, 1/128% Units (0~128 increments)
810-017	Fixed Preset Color 6 (Cyan)-Y Element	0: 0%	0~128	0%~100%, 1/128% Units (0~128 increments)
810-018	Fixed Preset Color 6 (Cyan)-M Element	0: 0%	0~128	0%~100%, 1/128% Units (0~128 increments)
810-019	Fixed Preset Color 6 (Cyan)-C Element	128: 100%	0~128	0%~100%, 1/128% Units (0~128 increments)
810-020	User Preset Color 1 - Y Element	0: 0%	0~128	0%~100%, 1/128% Units (0~128 increments)
810-021	User Preset Color 1 - M Element	0: 0%	0~128	0%~100%, 1/128% Units (0~128 increments)
810-022	User Preset Color 1 - C Element	0: 0%	0~128	0%~100%, 1/128% Units (0~128 increments)
810-023	User Preset Color 2 - Y Element	0: 0%	0~128	0%~100%, 1/128% Units (0~128 increments)
810-024	User Preset Color 2 - M Element	0: 0%	0~128	0%~100%, 1/128% Units (0~128 increments)
810-025	User Preset Color 2 - C Element	0: 0%	0~128	0%~100%, 1/128% Units (0~128 increments)
810-026	User Preset Color 3 - Y Element	0: 0%	0~128	0%~100%, 1/128% Units (0~128 increments)

Table 1 Chain 810

Chain/Link	Name	Default	Range	Description
810-027	User Preset Color 3- M Element	0: 0%	0~128	0%~100%, 1/128% Units (0~128 increments)
810-028	User Preset Color 3 - C Element	0: 0%	0~128	0%~100%, 1/128% Units (0~128 increments)
810-029	User Preset Color 4 - Y Element	0: 0%	0~128	0%~100%, 1/128% Units (0~128 increments)
810-030	User Preset Color 4 - M Element	0: 0%	0~128	0%~100%, 1/128% Units (0~128 increments)
810-031	User Preset Color 4 - C Element	0: 0%	0~128	0%~100%, 1/128% Units (0~128 increments)
810-032	User Preset Color 5 - Y Element	0: 0%	0~128	0%~100%, 1/128% Units (0~128 increments)
810-033	User Preset Color 5 - M Element	0: 0%	0~128	0%~100%, 1/128% Units (0~128 increments)
810-034	User Preset Color 5 - C Element	0: 0%	0~128	0%~100%, 1/128% Units (0~128 increments)
810-035	User Preset Color 6 - Y Element	0: 0%	0~128	0%~100%, 1/128% Units (0~128 increments)
810-036	User Preset Color 6 - M Element	0: 0%	0~128	0%~100%, 1/128% Units (0~128 increments)
810-037	User Preset Color 6 - C Element	0: 0%	0~128	0%~100%, 1/128% Units (0~128 increments)
810-038	Background Color Suppression	0: Disable	0~1	1: Enable, 0: Disable
810-039	Density Adjustment in Vivid Color Copy	2: Lighter 1	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-040	Color Balance (Y: Low Density) in Vivid Color Copy	3: Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-041	Color Balance (Y: Medium Density) in Vivid Color Copy	3: Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-042	Color Balance (Y: High Density) in Vivid Color Copy	3: Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-043	Color Balance (M: Low Density) in Vivid Color Copy	3: Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-044	Color Balance (M: Medium Density) in Vivid Color Copy	3: Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-045	Color Balance (M: High Density) in Vivid Color Copy	3: Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-046	Color Balance (C: Low Density) in Vivid Color Copy	3: Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-047	Color Balance (C: Medium Density) in Vivid Color Copy	3: Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-048	Color Balance (C: High Density) in Vivid Color Copy	3: Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-049	Color Balance (K: Low Density) in Vivid Color Copy	3: Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-050	Color Balance (K: Medium Density) in Vivid Color Copy	3: Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-051	Color Balance (K: High Density) in Vivid Color Copy	3: Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-052	Tone in Vivid Color Copy	2: 0 degree	0~4	0: -20 degree, 1: -10 degree, 2: 0 degree, 3: +10 degree, 4: +20 degree
810-053	Saturation in Vivid Color Copy	0: Higher	0~4	0: Higher, 1: High, 2: Normal, 3: Low, 4: Lower

Table 1 Chain 810

Chain/Link	Name	Default	Range	Description
810-054	Sharpness in Vivid Color Copy	2: Normal	0~4	0: Sharper, 1: Sharp, 2: Normal, 3: Soft, 4: Softer
810-055	Contrast in Vivid Color Copy	2: Normal	0~4	0: Sharper, 1: Sharp, 2: Normal, 3: Soft, 4: Softer
810-056	Background Color Suppression Enable in MERIHARI Copy	0: Disable	0, 1	1: Enable, 0: Disable
810-057	Density Adjustment in MERIHARI Copy	4: Darker 1	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-058	Color Balance (Y: Low Density) in MERIHARI Copy	0: Lighter 3	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-059	Color Balance (Y: Medium Density) in MERIHARI Copy	3: Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-060	Color Balance (Y: High Density) in MERIHARI Copy	6: Darker 3	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-061	Color Balance (M: Low Density) in MERIHARI Copy	0: Lighter 3	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-062	Color Balance (M: Medium Density) in MERIHARI Copy	3: Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-063	Color Balance (M: High Density) in MERIHARI Copy	6: Darker 3	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-064	Color Balance (C: Low Density) in MERIHARI Copy	0: Lighter 3	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-065	Color Balance (C: Medium Density) in MERIHARI Copy	3: Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-066	Color Balance (C: High Density) in MERIHARI Copy	6: Darker 3	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-067	Color Balance (K: Low Density) in MERIHARI Copy	0: Lighter 3	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-068	Color Balance (K: Medium Density) in MERIHARI Copy	3: Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-069	Color Balance (K: High Density) in MERIHARI Copy	6: Darker 3	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-070	Color Shift in MERIHARI Copy	2: 0 degree	0~4	0: -20 degree, 1: -10 degree, 2: 0 degree, 3: +10 degree, 4: +20 degree
810-071	Color Saturation in MERIHARI Copy	1: High	0~4	0: Higher, 1: High, 2: Normal, 3: Low, 4: Lower
810-072	Sharpness in MERIHARI Copy	0: Higher	0~4	0: Higher, 1: High, 2: Normal, 3: Low, 4: Lower
810-073	Contrast in MERIHARI Copy	0: Higher	0~4	0: Higher, 1: High, 2: Normal, 3: Low, 4: Lower
810-074	Density Adjustment in Ruddiness	1: Enable	0~1	1: Enable, 0: Disable
810-075	Density Adjustment in Ruddiness	3: Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3

Table 1 Chain 810

Chain/Link	Name	Default	Range	Description
810-076	Color Balance (Y: Low Density) in Ruddiness	1: Lighter 2	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-077	Color Balance (Y: Medium Density) in Ruddiness	1: Lighter 2	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-078	Color Balance (Y: High Density) in Ruddiness	3: Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-079	Color Balance (M: Low Density) in Ruddiness	3: Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-080	Color Balance (M: Medium Density) in Ruddiness	4: Darker 1	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-081	Color Balance (M: High Density) in Ruddiness	3: Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-082	Color Balance (C: Low Density) in Ruddiness	0: Lighter 3	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-083	Color Balance (C: Medium Density) in Ruddiness	0: Lighter 3	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-084	Color Balance (C: High Density) in Ruddiness	3: Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-085	Color Balance (K: Low Density) in Ruddiness	3: Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-086	Color Balance (K: Medium Density) in Ruddiness	3: Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-087	Color Balance (K: High Density) in Ruddiness	3: Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-088	Color Shift in Ruddiness	2: 0 degree	0~4	0: -20 degree, 1: -10 degree, 2: 0 degree, 3: +10 degree, 4: +20 degree
810-089	Color Saturation in Ruddiness	2: Normal	0~4	0: Higher, 1: High, 2: Normal, 3: Low, 4: Lower
810-090	Sharpness in Ruddiness	2: Normal	0~4	0: Higher, 1: High, 2: Normal, 3: Low, 4: Lower
810-091	Contrast in Ruddiness	2: Normal	0~4	0: Higher, 1: High, 2: Normal, 3: Low, 4: Lower
810-092	Background Color Suppression in Blue	1: Enable	0~1	1: Enable, 0: Disable
810-093	Density Adjustment in Blue	3: Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-094	Color Balance (Y: Low Density) in Blue	0: Lighter 3	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-095	Color Balance (Y: Medium Density) in Blue	0: Lighter 3	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-096	Color Balance (Y: High Density) in Blue	1: Lighter 2	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-097	Color Balance (M: Low Density) in Blue	0: Lighter 3	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3

Table 1 Chain 810

Chain/Link	Name	Default	Range	Description
810-098	Color Balance (M: Medium Density) in Blue	0: Lighter 3	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-099	Color Balance (M: High Density) in Blue	1: Lighter 2	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-100	Color Balance (C: Low Density) in Blue	4: Darker 1	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-101	Color Balance (C: Medium Density) in Blue	5: Darker 2	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-102	Color Balance (C: High Density) in Blue	5: Darker 2	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-103	Color Balance (K: Low Density) in Blue	3: Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-104	Color Balance (K: Medium Density) in Blue	3: Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-105	Color Balance (K: High Density) in Blue	3: Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-106	Color Shift in Blue	2: 0 degree	0~4	0: -20 degree, 1: -10 degree, 2: 0 degree, 3: +10 degree, 4: +20 degree
810-107	Color Saturation in Blue	2: Normal	0~4	0: Higher, 1: High, 2: Normal, 3: Low, 4: Lower
810-108	Sharpness in Blue	2: Normal	0~4	0: Higher, 1: High, 2: Normal, 3: Low, 4: Lower
810-109	Contrast in Blue	2: Normal	0~4	0: Higher, 1: High, 2: Normal, 3: Low, 4: Lower
810-110	Background Color Suppression in Back Reflect Guard	1: Enable	0~1	1: Enable, 0: Disable
810-111	Density Adjustment in Back Reflect Guard	2: Lighter 1	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-112	Color Balance (Y: Low Density) in Back Reflect Guard	3: Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-113	Color Balance (Y: Medium Density) in Back Reflect Guard	1: Lighter 2	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-114	Color Balance (Y: High Density) in Back Reflect Guard	3: Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-115	Color Balance (M: Low Density) in Back Reflect Guard	3: Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-116	Color Balance (M: Medium Density) in Back Reflect Guard	1: Lighter 2	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-117	Color Balance (M: High Density) in Back Reflect Guard	3: Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-118	Color Balance (C: Low Density) in Back Reflect Guard	3: Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-119	Color Balance (C: Medium Density) in Back Reflect Guard	1: Lighter 2	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3

Table 1 Chain 810

Chain/Link	Name	Default	Range	Description
810-120	Color Balance (C: High Density) in Back Reflect Guard	3: Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-121	Color Balance (K: Low Density) in Back Reflect Guard	3: Normal	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-122	Color Balance (K: Medium Density) in Back Reflect Guard	1: Lighter 2	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-123	Color Balance (K: High Density) in Back Reflect Guard	5: Darker 2	0~6	0: Lighter 3, 1: Lighter 2, 2: Lighter 1, 3: Normal, 4: Darker 1, 5: Darker 2, 6: Darker 3
810-124	Color Shift in Back Reflect Guard	2: 0 degree	0~4	0: -2 degree, 1: -10 degree, 2: 0 degree, 3: +10 degree, 4: +20 degree
810-125	Color Saturation in Back Reflect Guard	2: Normal	0~4	0: Higher, 1: High, 2: Normal, 3: Low, 4: Lower
810-126	Sharpness in Back Reflect Guard	2: Normal	0~4	0: Sharper, 1: Sharp, 2: Normal, 3: Soft, 4: Softer
810-127	Contrast in Back Reflect Guard	1: Sharp	0~4	0: Sharper, 1: Sharp, 2: Normal, 3: Soft, 4: Softer
810-129	Max. No. of Copy Sheets accumulated	999	1~999	1-999: [1~999 pages]
810-132	Enable/Disable ATS Implementation	1: APS Only	0~2	1: APS Only, 0: Always (Even for manual tray selection)
810-133	Annotation Bates Numbering Start Numb	1	1~999999999	1 to 999999999 Max. 9 digits
810-134	Annotation Bates Numbering Print Condition	0: All pages	0~2	0: All pages, 2: All pages except the top page
810-135	Annotation Bates Numbering Default String	128: User Character string1	128~135	128:UserCharacter string1, 129:UserCharacter string2, 130:UserCharacter string3, 131:UserCharacter string4, 132:UserCharacter string5, 133:UserCharacter string6, 134:UserCharacter string7, 135:UserCharacter string8
810-136	Availability of Duplex APS Chapters	0: Disable	0~1	0: Disable, 1: Enable
810-137	Annotation Bates Numbering String1	NULL	-	16+1Bytes(Full-size 8 characters, Half-size 16 characters)Character string
810-138	Annotation Bates Numbering String2	NULL	-	16+1Bytes(Full-size 8 characters, Half-size 16 characters)Character string
810-139	Annotation Bates Numbering String3	NULL	-	16+1Bytes(Full-size 8 characters, Half-size 16 characters)Character string
810-140	Annotation Bates Numbering String4	NULL	-	16+1Bytes(Full-size 8 characters, Half-size 16 characters)Character string
810-141	Annotation Bates Numbering String5	NULL	-	16+1Bytes(Full-size 8 characters, Half-size 16 characters)Character string
810-142	Annotation Bates Numbering String6	NULL	-	16+1Bytes(Full-size 8 characters, Half-size 16 characters)Character string
810-143	Annotation Bates Numbering String7	NULL	-	16+1Bytes(Full-size 8 characters, Half-size 16 characters)Character string
810-144	Annotation Bates Numbering String8	NULL	-	16+1Bytes(Full-size 8 characters, Half-size 16 characters)Character string
810-145	Annotation Bates Numbering Color	1: Black	1~7	1: Black, 2:Red, 3:Green, 4:Blue, 5:Yellow, 6:Magenta, 7:Cyan
810-155	Analog WarterMark User Information	0: Print user management number	0~1	0: Print user management number 1: Print user ID

Table 1 Chain 810

Chain/Link	Name	Default	Range	Description
810-156	Text Effect Default	1: Embossed	1~3	1: Embossed, 2: Outline, 3: Text
810-157	Text Size	48: 48 points	1~255	48: 48 points, 64: 64 points, 80: 80 points
810-158	Background Pattern	8: Fan	1~8	1: Wave, 2: Circle, 3: Stripe, 4: Chain, 5: Beam, 6: Rhombic, 7: Sunflower, 8: Fan
810-159	Background Color (Text Color)	9: Black	9~12	9: Black, 11: Magenta, 12: Cyan
810-160	Density	8: Normal	7~9	9: Light, 8: Normal, 7: Dark
810-161	Contrast	7	0~13	-
810-162	Analog watermark date format	2	1~4	1 = yy/mm/dd 2 = mm/dd/yy (XC default) 3 = dd/mm/yy (XE default) 4 = Japanese
810-163	Copy Forced Analog WaterMark Output Settings	0: Do not print	0~1	0: Do not print, 1: Print
810-164	Client Print Forced Analog Watermark Output Settings	0: Do not print	0~1	0: Do not print, 1: Print
810-165	Device Activation Print Forced Analog Watermark Output Settings	0: Do not print	0~1	0: Do not print, 1: Print
810-166	Media Print Forced Analog Watermark Output Settings	0: Do not print	0~1	0: Do not print, 1: Print
810-168	Activity Report Setting	0: Disable	0~1	0: Disable 1: Enable
810-170	Annotation Horizontal Page Adjust Top Left	12	0~200	0 to 200: Set value0.5(mm)
810-171	Annotation Vertical Page Adjust Top Left	12	0~200	0 to 200: Set value0.5(mm)
810-172	Annotation Horizontal Page Adjust Top Right	12	0~200	0 to 200: Set value0.5(mm)
810-173	Annotation Vertical Page Adjust Top Right	12	0~200	0 to 200: Set value0.5(mm)
810-174	Annotation Horizontal Page Adjust Top Center	200	0~400	0 to 400: Set value0.5(mm)
810-175	Annotation Vertical Page Adjust Top Center	12	0~200	0 to 200: Set value0.5(mm)
810-176	Annotation Horizontal Page Adjust Bottom Left	12	0~200	0 to 200: Set value0.5(mm)
810-177	Annotation Vertical Page Adjust Bottom Left	12	0~200	0 to 200: Set value0.5(mm)
810-178	Annotation Horizontal Page Adjust Bottom Right	12	0~200	0 to 200: Set value0.5(mm)
810-179	Annotation Vertical Page Adjust Bottom Right	12	0~200	0 to 200: Set value0.5(mm)

Table 1 Chain 810

Chain/Link	Name	Default	Range	Description
810-180	Annotation Horizontal Page Adjust Bottom Center	200	0~400	0 to 400: Set value0.5(mm)
810-181	Annotation Vertical Page Adjust Bottom Center	12	0~200	0 to 200: Set value0.5(mm)
810-182	Annotation Horizontal Data Adjust Top Left	12	0~200	0 to 200: Set value0.5(mm)
810-183	Annotation Vertical Data Adjust Top Left	12	0~200	0 to 200: Set value0.5(mm)
810-184	Annotation Horizontal Data Adjust Top Right	12	0~200	0 to 200: Set value0.5(mm)
810-185	Annotation Vertical Data Adjust Top Right	12	0~200	0 to 200: Set value0.5(mm)
810-186	Annotation Horizontal Data Adjust Top Center	200	0~400	0 to 400: Set value0.5(mm)
810-187	Annotation Vertical Data Adjust Top Center	12	0~200	0 to 200: Set value0.5(mm)
810-188	Annotation Horizontal Data Adjust Bottom Left	12	0~200	0 to 200: Set value0.5(mm)
810-189	Annotation Vertical Data Adjust Bottom Left	12	0~200	0 to 200: Set value0.5(mm)
810-190	Annotation Horizontal Data Adjust Bottom Right	12	0~200	0 to 200: Set value0.5(mm)
810-191	Annotation Vertical Data Adjust Bottom Right	12	0~200	0 to 200: Set value0.5(mm)
810-192	Annotation Horizontal Data Adjust Bottom Center	200	0~400	0 to 400: Set value0.5(mm)
810-193	Annotation Vertical Data Adjust Bottom Center	12	0~200	0 to 200: Set value0.5(mm)
810-194	Annotation Horizontal Stamp Adjust Top Left	28 (MN - 12)	0~200	0 to 200: Set value0.5(mm)
810-195	Annotation Vertical Stamp Adjust Top Left	28 (MN - 12)	0~200	0 to 200: Set value0.5(mm)
810-196	Annotation Horizontal Stamp Adjust Top Right	28 (MN - 12)	0~200	0 to 200: Set value0.5(mm)
810-197	Annotation Vertical Stamp Adjust Top Right	28 (MN - 12)	0~200	0 to 200: Set value0.5(mm)
810-198	Annotation Horizontal Stamp Adjust Top Center	200	0~400	0 to 400: Set value0.5(mm)
810-199	Annotation Vertical Stamp Adjust Top Center	28 (MN - 12)	0~200	0 to 200: Set value0.5(mm)
810-200	Annotation Horizontal Stamp Adjust Bottom Left	28 (MN - 12)	0~200	0 to 200: Set value0.5(mm)
810-201	Annotation Vertical Stamp Adjust Bottom Left	28 (MN - 12)	0~200	0 to 200: Set value0.5(mm)

Table 1 Chain 810

Chain/Link	Name	Default	Range	Description
810-202	Annotation Horizontal Stamp Adjust Bottom Right	28 (MN - 12)	0~200	0 to 200: Set value0.5(mm)
810-203	Annotation Vertical Stamp Adjust Bottom Right	28 (MN - 12)	0~200	0 to 200: Set value0.5(mm)
810-204	Annotation Horizontal Stamp Adjust Bottom Center	200	0~400	0 to 400: Set value0.5(mm)
810-205	Annotation Vertical Stamp Adjust Bottom Center	28 (MN - 12)	0~200	0 to 200: Set value0.5(mm)
810-206	Annotation Horizontal Stamp Adjust Left Center	28 (MN - 12)	0~200	0 to 200: Set value0.5(mm)
810-207	Annotation Vertical Stamp Adjust Left Center	200	0~400	0 to 400: Set value0.5(mm)
810-208	Annotation Horizontal Stamp Adjust Right Center	28 (MN - 12)	0~200	0 to 200: Set value0.5(mm)
810-209	Annotation Vertical Stamp Adjust Right Center	200	0~400	0 to 400: Set value0.5(mm)
810-210	Annotation Horizontal Stamp Adjust Center	200	0~400	0 to 400: Set value0.5(mm)
810-211	Annotation Vertical Stamp Adjust Center	200	0~400	0 to 400: Set value0.5(mm)
810-212	Side 2 Print Page Position Fine Adjustment (Horizontal)	200	0~400	0~200: Settings x 0.5 (mm)
810-213	Side 2 Print Page Position Fine Adjustment (Vertical)	200	0~400	0~200: Settings x 0.5 (mm)
810-214	Stamp User Registered Text 1	NULL		64+1 Bytes (32 double byte characters, 64 single byte characters)
810-215	Stamp User Registered Text 2	NULL		64+1 Bytes (32 double byte characters, 64 single byte characters)
810-216	Stamp User Registered Text 3	NULL		64+1 Bytes (32 double byte characters, 64 single byte characters)
810-217	Stamp User Registered Text 4	NULL		64+1 Bytes (32 double byte characters, 64 single byte characters)
810-218	Stamp User Registered Text 5	NULL		64+1 Bytes (32 double byte characters, 64 single byte characters)
810-219	Stamp User Registered Text 6	NULL		64+1 Bytes (32 double byte characters, 64 single byte characters)
810-220	Stamp User Registered Text 7	NULL		64+1 Bytes (32 double byte characters, 64 single byte characters)
810-221	Stamp User Registered Text 8	NULL		64+1 Bytes (32 double byte characters, 64 single byte characters)
810-222	AWM User Registered Text 1	NULL		32+1 Bytes (16 double byte characters, 32 single byte characters)
810-223	AWM User Registered Text 2	NULL		32+1 Bytes (16 double byte characters, 32 single byte characters)
810-224	AWM User Registered Text 3	NULL		32+1 Bytes (16 double byte characters, 32 single byte characters)
810-225	Font Size (Stamp)	48 (Points)	1~255	6~64 (Points)
810-226	Font Size (Date) Default	10 (Points)	1~255	6~24 (Points)
810-227	Font Size (Page Number) Default	10 (Points)	1~255	6~24 (Points)

Table 1 Chain 810

Chain/Link	Name	Default	Range	Description
810-228	Text Default (Stamp)	1: CONFIDENTIAL	1~71	1: CONFIDENTIAL, 2: VOID, 4: Copy Prohibited, 6: IMPORTANT, 7: Circulate, 8: URGENT, 9: Ignore Side 2, 10: DRAFT, 64: Stamp Custom Text 1, 65: Stamp Custom Text 2, 66: Stamp Custom Text 3, 67: Stamp Custom Text 4, 68: Stamp Custom Text 5, 69: Stamp Custom Text 6, 70: Stamp Custom Text 7, 71: Stamp Custom Text 8
810-229	Text Default (AWM)	4: Copy Prohibited	1~34	3: Duplicate, 4: Copy Prohibited, 5: Copy, 32: AWM Custom Text 1, 33: AWM Custom Text 2, 34: AWM Custom Text 3
810-253	HWM CodePattern Value K	13 (Tarzan - 15) (Pinehurst - 19) (Volante - 17)	0~144	1 to 144 1tone/step
810-254	HWM BgPatternGap K	138	0~288	0 to 288 1tone/step (As this value increases, the difference between background pattern and Code pattern increases and Code pattern is printed more clearly. As this value decreases, background pattern and Code pattern becomes less distinct.)
810-255	HWM Contrast Value K	1	0~144	1 to 144 1tone/step
810-256	HWM Contrast Gap K	3	0~144	1 to 144 1tone/step
810-257	HWM Contrast Value Gap K	142	0~128	'0 to 288 1tone/step (As this value increases, the difference between background pattern and Code pattern increases and Code pattern is printed more clearly. As this value decreases, background pattern and Code pattern becomes less distinct.)
810-258	HWM CodePattern Value M	23	0~144	1 to 144 1tone/step
810-259	HWM BgPatternGap M	138	0~288	'0 to 288 1tone/step (As this value increases, the difference between background pattern and Code pattern increases and Code pattern is printed more clearly. As this value decreases, background pattern and Code pattern becomes less distinct.)
810-260	HWM Contrast Value M	23	0~144	1 to 144 1tone/step
810-261	HWM Contrast Gap M	11	0~144	1 to 144 1tone/step

Table 1 Chain 810

Chain/Link	Name	Default	Range	Description
810-262	HWM Contrast Value Gap M	138	0~288	'0 to 288 1tone/step (As this value increases, the difference between background pattern and Code pattern increases and Code pattern is printed more clearly. As this value decreases, background pattern and Code pattern becomes less distinct.)
810-264	Annotation Bates Numbering Digits	0: No designation	0~9	0: No designation, 1 to 9: 1 digit to 9 digits
810-265	Annotation Bates Numbering Position	6: Lower center (MN - 5: Lower right)	1~6	1: Upper left, 2: Upper right, 3: Top center, 4: Lower left, 5: Lower right, 6: Lower center
810-266	Annotation Bates Numbering Size	10 (point)	6~24	6 to 24(point) (MN - 6 to 18(point))
810-267	Annotation Bates Numbering Position_side2	1: Identical position	0~1	0: Symmetrical position, 1: Identical position
810-268	Annotation Horizontal Bates NumBering Adjust Top Left	12	0~200	0 to 200: Set value0.5(mm)
810-269	Annotation Vertical Bates NumBering Adjust Top Left	12	0~200	0 to 200: Set value0.5(mm)
810-270	Annotation Horizontal Bates NumBering Adjust Top Right	12	0~200	0 to 200: Set value0.5(mm)
810-271	Annotation Vertical Bates NumBering Adjust Top Right	12	0~200	0 to 200: Set value0.5(mm)
810-272	Annotation Horizontal Bates NumBering Adjust Top Center	200	0~400	0 to 400: Set value0.5(mm)
810-273	Annotation Vertical Bates NumBering Adjust Top Center	12	0~200	0 to 200: Set value0.5(mm)
810-274	Annotation Horizontal Bates NumBering Adjust Bottom Left	12	0~200	0 to 200: Set value0.5(mm)
810-275	Annotation Vertical Bates NumBering Adjust Bottom Left	12	0~200	0 to 200: Set value0.5(mm)
810-276	Annotation Horizontal Bates NumBering Adjust Bottom Right	12	0~200	0 to 200: Set value0.5(mm)
810-277	Annotation Vertical Bates NumBering Adjust Bottom Right	12	0~200	0 to 200: Set value0.5(mm)
810-278	Annotation Horizontal Bates NumBering Adjust Bottom Center	200	0~400	0 to 400: Set value0.5(mm)
810-279	Annotation Vertical Bates NumBering Adjust Bottom Center	12	0~200	0 to 200: Set value0.5(mm)
810-280	Annotation Bates Numbering Modify String1	1: Permitted	0~1	0: Inhibited 1: Permitted
810-281	Annotation Bates Numbering Modify String2	1: Permitted	0~1	0: Inhibited 1: Permitted

Table 1 Chain 810

Chain/Link	Name	Default	Range	Description
810-282	Annotation Bates Numbering Modify String3	1: Permitted	0~1	0: Inhibited 1: Permitted
810-283	Annotation Bates Numbering Modify String4	1: Permitted	0~1	0: Inhibited 1: Permitted
810-284	Annotation Bates Numbering Modify String5	1: Permitted	0~1	0: Inhibited 1: Permitted
810-285	Annotation Bates Numbering Modify String6	1: Permitted	0~1	0: Inhibited 1: Permitted
810-286	Annotation Bates Numbering Modify String7	1: Permitted	0~1	0: Inhibited 1: Permitted
810-287	Annotation Bates Numbering Modify String8	1: Permitted	0~1	0: Inhibited 1: Permitted

Table 1 Chain 820

Chain-Link	Content	Default	Range	Meaning
820-002	Input tray specification in user declaration mode	0xDE	0~255	bit0: (Not used) bit1: Tray1 bit2: Tray2 bit3: Tray3 bit4: Tray4 bit5: (Not used) bit6: HCF1 bit7: HCF2
820-004	Selection whether to switch to larger size input tray when printing paper is empty	1: Enable large size ATS	0~1	0: Disable large size ATS 1: Enable large size ATS
820-005	Select PrivateOutTray for Fax	0: No dedicated use	0~1	0: No dedicated use 1: Dedicated use
820-006	Output Tray of Confidential Box Print	0: Center Tray (Without C/D-Fin) 4: Top Tray (With C/D-Fin) 5: HCS Top Tray (With HCS1)	0~42	0: Center Tray, 1: Side Tray, 2: Finisher Tray, 3: Center Tray2, 4: Top Tray, 5: HCS1 Top Tray, 6: HCS1 Stacker Tray, 33 to 42: MailBox1 to 10 (Unattached option is not selectable)
820-010	Tray Selection for Ch0	0: Center Tray (Without C/D-Fin) 4: Top Tray (With C/D-Fin) 5: HCS Top Tray (With HCS1)	0~42	0: Center Tray, 1: Side Tray, 2: Finisher Tray, 3: Center Tray2, 4: Top Tray, 5: HCS1 Top Tray, 6: HCS1 Stacker Tray, 33 to 42: MailBox1 to 10 (Unattached option is not selectable)
820-011	Tray Selection for Ch1	0: Center Tray (Without C/D-Fin) 4: Top Tray (With C/D-Fin) 5: HCS Top Tray (With HCS1)	0~42	0: Center Tray, 1: Side Tray, 2: Finisher Tray, 3: Center Tray2, 4: Top Tray, 5: HCS1 Top Tray, 6: HCS1 Stacker Tray, 33 to 42: MailBox1 to 10 (Unattached option is not selectable)
820-012	Tray Selection for Ch2	0: Center Tray (Without C/D-Fin) 4: Top Tray (With C/D-Fin) 5: HCS Top Tray (With HCS1)	0~42	0: Center Tray, 1: Side Tray, 2: Finisher Tray, 3: Center Tray2, 4: Top Tray, 5: HCS1 Top Tray, 6: HCS1 Stacker Tray, 33 to 42: MailBox1 to 10 (Unattached option is not selectable)
820-013	Tray Selection for Ch3	0: Center Tray (Without C/D-Fin) 4: Top Tray (With C/D-Fin) 5: HCS Top Tray (With HCS1)	0~42	0: Center Tray, 1: Side Tray, 2: Finisher Tray, 3: Center Tray2, 4: Top Tray, 5: HCS1 Top Tray, 6: HCS1 Stacker Tray, 33 to 42: MailBox1 to 10 (Unattached option is not selectable)
820-014	Tray Selection for Ch4	0: Center Tray (Without C/D-Fin) 4: Top Tray (With C/D-Fin) 5: HCS Top Tray (With HCS1)	0~42	0: Center Tray, 1: Side Tray, 2: Finisher Tray, 3: Center Tray2, 4: Top Tray, 5: HCS1 Top Tray, 6: HCS1 Stacker Tray, 33 to 42: MailBox1 to 10 (Unattached option is not selectable)

Table 1 Chain 820

Chain-Link	Content	Default	Range	Meaning
820-015	Tray Selection for Ch5	0: Center Tray (Without C/D-Fin) 4: Top Tray (With C/D-Fin) 5: HCS Top Tray (With HCS1)	0~42	0: Center Tray, 1: Side Tray, 2: Finisher Tray, 3: Center Tray2, 4: Top Tray, 5: HCS1 Top Tray, 6: HCS1 Stacker Tray, 33 to 42: MailBox1 to 10 (Unattached option is not selectable)
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
820-025	90Åã Rotation Setting for FAX Scan	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	-	0~255	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 (Without C/D-Fin) 4: Top Tray (With C/D-Fin) 5: HCS Top Tray (With HCS1)	0~42	0: Center Tray, 1: Side Tray, 2: Finisher Tray, 3: Center Tray2, 4: Top Tray, 5: HCS1 Top Tray, 6: HCS1 Stacker Tray, 33 to 42: MailBox1 to 10 (Unattached option is not selectable)

Table 1 Chain 820

Chain-Link	Content	Default	Range	Meaning
820-039	FAX Auto Report Tray Selection	0: Center Tray (Without C/D-Fin) 4: Top Tray (With C/D-Fin) 5: HCS Top Tray (With HCS1)	0~42	0: Center Tray, 1: Side Tray, 2: Finisher Tray, 3: Center Tray2, 4: Top Tray, 5: HCS1 Top Tray, 6: HCS1 Stacker Tray, 33 to 42: MailBox1 to 10 (Unattached option is not selectable)
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.
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
820-056	Fax receiving input tray map for tray 1	0: None	0~500	Mailbox Number for Tray1
820-057	Fax receiving input tray map for tray 2	0: None	0~500	Mailbox Number for Tray2
820-058	Fax receiving input tray map for tray 3	0: None	0~500	Mailbox Number for Tray3
820-059	Fax receiving input tray map for tray 4	0: None	0~500	Mailbox Number for Tray4
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

Table 1 Chain 820

Chain-Link	Content	Default	Range	Meaning
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
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

Table 1 Chain 820

Chain-Link	Content	Default	Range	Meaning
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
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
820-122	FAX PL2 DADF Document Scan Mode	1: Non-standard Scan	1, 2	1: Non-standard Scan, 2: Standard Scan
820-123	Blank Document Detection Feature	0: Disable	0, 1	0: Disable, 1: Enable
820-125	DIS Transmission Bit Disable Settings	0: Do not disable	0, 1	0: Do not disable 1: Disable
820-126	Blank Document Detection Reference Value	34729	0~65535	34729~52094
820-127	Blank Data Estimation Correction Coefficient	1000	0~65535	1000~1500
820-128	Blank Detection Threshold Correction Coefficient	250	0~65535	0~500
820-129	Resend Unsent Documents	0: OFF	0, 1	0: OFF 1: ON
820-130	Delete Unsent Documents	1: Auto delete after 24 hours have passed	0, 1	0: Do not auto delete 1: Auto delete after 24 hours have passed
820-131	Resend Unsent Documents from Job Cancellation	0: OFF	0, 1	0: OFF 1: ON
820-132	Official Stamp Capability (XIPS) Availability	0: OFF	0, 1	0: OFF 1: ON

823-xxx FAX Service NVM List

Table 1 Chain 823

Chain-Link	Content	Default	Range	Meaning
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 Thresh-old	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)
823-041	Line Type for Ch5	0	0~1	0 = PSTN (Public Telephone Network) 1 = PBX (Private Branch Exchange)

Table 1 Chain 823

Chain-Link	Content	Default	Range	Meaning
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	0~1	0 = Fallback Redial Off, 1= Fallback Redial On
825-025	ZZF: Continuation Judge When Receiving RTN	Continue (0)	0~1	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	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
825-051	PB Sending Level for Ch5	6	0~15	0dBm (0) ~ -15 (15) dBm -1dBm increments

Table 1 Chain 823

Chain-Link	Content	Default	Range	Meaning
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	0~1	0: Allow 1: Restrict
825-078	Dialing Restriction for Ch1	0	0~1	0: Allow 1: Restrict
825-079	Dialing Restriction for Ch2	0	0~1	0: Allow 1: Restrict
825-080	Dialing Restriction for Ch3	0	0~1	0: Allow 1: Restrict
825-081	Dialing Restriction for Ch4	0	0~1	0: Allow 1: Restrict
825-082	Dialing Restriction for Ch5	0	0~1	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)
825-127	Analogue Sending Dropoff by Modem for Ch0	8	8~15	8dBm (8) ~ 15 (15) dBm -1dBm increments

Table 1 Chain 823

Chain-Link	Content	Default	Range	Meaning
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	0~1	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	0~1	0: 1080Hz 1: 2100Hz
825-162	T1 Timer Value on FAX Receiving	39sec	1~90	1~90 (sec.)
825-163	Silent Time	75msec (75)	0~1	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	0	0~1	0=256bytes; 1= 64bytes
825-171	G3M ECM T5 Time	0: 1(min)	0~2	0: 1 (min.) 1: 3 (min.) 2: No limit
825-173	RTN Command Sending Threshold (Ratio)	0: 5%	0~3	0: 5% 1: 10% 2: 15% 3: 20%
825-174	RTN Command Sending Threshold (Line)	2	0~3	0: No limit 1: 3 lines 2: 6 lines 3: 12 lines
825-175	DIS/DTC FIF Sending Byte Number	0	0~1	0: No limit 1: 4bytes System
825-176	EMC Ability	1: Enable	0~1	0: Disable, 1: Enable
825-177	CCITT Trellis Ability	2	0~2	0: V.27ter and below 1: V.29 and below 2: V.17 and below
825-178	CCITT Trellis Ability (International Communications)	2	0~2	0: V.27ter and below 1: V.29 and below 2: V.17 and below
825-179	ECM Block Synchronize for Ch0	200ms	00~2	200ms=00 500ms=1 1sec=2
825-180	ECM Block Synchronize for Ch1	200ms	00~2	200ms=00 500ms=1 1sec=2
825-181	ECM Block Synchronize for Ch2	200ms	00~2	200ms=00 500ms=1 1sec=2
825-182	ECM Block Synchronize for Ch3	200ms	00~2	200ms=00 500ms=1 1sec=2
825-183	ECM Block Synchronize for Ch4	200ms	00~2	200ms=00 500ms=1 1sec=2
825-184	ECM Block Synchronize for Ch5	200ms	00~2	200ms=00 500ms=1 1sec=2

Table 1 Chain 823

Chain-Link	Content	Default	Range	Meaning
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
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

Table 1 Chain 823

Chain-Link	Content	Default	Range	Meaning
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 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
825-236	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
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

Table 1 Chain 823

Chain-Link	Content	Default	Range	Meaning
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
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

Table 1 Chain 823

Chain-Link	Content	Default	Range	Meaning
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 1 Chain 823

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.

Table 1 Chain 825

Chain-Link	Content	Default	Range	Meaning
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
825-009	Pause time. Wait time of pause mark	60(3sec)		0 to 240(12sec)(Unit: 50msec)
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)	0~1	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
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

Table 1 Chain 825

Chain-Link	Content	Default	Range	Meaning
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	0~1	0: Allow 1: Restrict
825-078	Dialing Restriction for Ch1	0	0~1	0: Allow 1: Restrict
825-079	Dialing Restriction for Ch2	0	0~1	0: Allow 1: Restrict
825-080	Dialing Restriction for Ch3	0	0~1	0: Allow 1: Restrict
825-081	Dialing Restriction for Ch4	0	0~1	0: Allow 1: Restrict
825-082	Dialing Restriction for Ch5	0	0~1	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)
825-110	TEI (TEI acquisition method=Valid in manual allocation)	0		0 to 63
825-111	TEI acquisition method	0: Manual allocation		0: Manual allocation 1: Auto allocation
825-115	PB pause time. Inter-digit pause time in PB (DTMF) dial	102: Manual allocation		0 to 255 (ms)
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	0~1	0: Total No. of sheets transmitted including those resent 1: Total No. of sheets transmitted for each line connection

Table 1 Chain 825

Chain-Link	Content	Default	Range	Meaning
825-159	ECM Ability	1: Enable	0~1	0: Disable, 1: Enable
825-160	CNG Sending Time	60 (3000ms)	20~140	1sec (20) ~ 7sec (140) (1=50msec)
825-161	CED Hz	1	0~1	0: 1080Hz 1: 2100Hz
825-162	T1 Timer Value on FAX Receiving	39sec	1~90	1~90 (sec.)
825-163	Silent Time	75msec (75)	0~1	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	0	0~1	0=256bytes; 1=64bytes
825-171	G3M ECM T5 Time	0: 1(min)	0~2	0: 1 (min.) 1: 3 (min.) 2: No limit
825-173	RTN Command Sending Threshold (Ratio)	0: 5%	0~3	0: 5% 1: 10% 2: 15% 3: 20%
825-174	RTN Command Sending Threshold (Line)	2	0~3	0: No limit 1: 3 lines 2: 6 lines 3: 12 lines
825-175	DIS/DTC FIF Sending Byte Number	0	0~1	0: No limit 1: 4bytes System
825-176	EMC Ability	1: Enable	0~1	0: Disable, 1: Enable
825-177	CCITT Trellis Ability	2	0~2	0: V.27ter and below 1: V.29 and below 2: V.17 and below
825-178	CCITT Trellis Ability (International Communications)	2	0~2	0: V.27ter and below 1: V.29 and below 2: V.17 and below
825-179	ECM Block Synchronize for Ch0	00: 200ms	00~2	200ms=00 500ms=1 1sec=2
825-180	ECM Block Synchronize for Ch1	00: 200ms	00~2	200ms=00 500ms=1 1sec=2
825-181	ECM Block Synchronize for Ch2	00: 200ms	00~2	200ms=00 500ms=1 1sec=2
825-182	ECM Block Synchronize for Ch3	00: 200ms	00~2	200ms=00 500ms=1 1sec=2
825-183	ECM Block Synchronize for Ch4	00: 200ms	00~2	200ms=00 500ms=1 1sec=2
825-184	ECM Block Synchronize for Ch5	00: 200ms	00~2	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	1: SHIFT DOWN	0~1	NOT=0 SHIFT DOWN=1
825-192	ECM CTC Speed Shift Down for Ch1	1: SHIFT DOWN	0~1	NOT=0 SHIFT DOWN=1
825-193	ECM CTC Speed Shift Down for Ch2	1: SHIFT DOWN	0~1	NOT=0 SHIFT DOWN=1
825-194	ECM CTC Speed Shift Down for Ch3	1: SHIFT DOWN	0~1	NOT=0 SHIFT DOWN=1
825-195	ECM CTC Speed Shift Down for Ch4	1: SHIFT DOWN	0~1	NOT=0 SHIFT DOWN=1
825-196	ECM CTC Speed Shift Down for Ch5	1: SHIFT DOWN	0~1	NOT=0 SHIFT DOWN=1
825-197	G3 DIS Ignore for Ch0	0	0~1	0: Ignore DIS 1: Ignore DIS once

Table 1 Chain 825

Chain-Link	Content	Default	Range	Meaning
825-198	G3 DIS Ignore for Ch1	0	0~1	0: Ignore DIS 1: Ignore DIS once
825-199	G3 DIS Ignore for Ch2	0	0~1	0: Ignore DIS 1: Ignore DIS once
825-200	G3 DIS Ignore for Ch3	0	0~1	0: Ignore DIS 1: Ignore DIS once
825-201	G3 DIS Ignore for Ch4	0	0~1	0: Ignore DIS 1: Ignore DIS once
825-202	G3 DIS Ignore for Ch5	0	0~1	0: Ignore DIS 1: Ignore DIS once
825-203	G3 ECM EOR_Q Command for Ch0	1 (Domestic)	0~1	0: Stop 1: Continue
825-209	G3 Modem Mode for Ch0	AUTO	0~1	0: CCITT G3 1: AUTO
825-210	G3 Modem Mode for Ch1	AUTO	0~1	0: CCITT G3 1: AUTO
825-211	G3 Modem Mode for Ch2	AUTO	0~1	0: CCITT G3 1: AUTO
825-212	G3 Modem Mode for Ch3	AUTO	0~1	0: CCITT G3 1: AUTO
825-213	G3 Modem Mode for Ch4	AUTO	0~1	0: CCITT G3 1: AUTO
825-214	G3 Modem Mode for Ch5	AUTO	0~1	0: CCITT G3 1: AUTO
825-215	G3 RX Modem Speed for Ch0 except V.34	14400bps	2400bps~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	2400bps~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	2400bps~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	2400bps~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	2400bps~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	2400bps~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
825-221	G3 RX Modem Speed for Ch0 on V.34	33600bps	2400bps~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	2400bps~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	2400bps~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	2400bps~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	2400bps~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	2400bps~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

Table 1 Chain 825

Chain-Link	Content	Default	Range	Meaning
825-227	G3 TX Modem MAX Speed for Ch0 except V.34	14400bps	2400bps~ 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	2400bps~ 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	2400bps~ 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	2400bps~ 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	2400bps~ 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	2400bps~ 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	2400bps~ 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
825-234	G3 TX Modem MAX Speed for Ch1 except V.34 Overseas	4800bps	2400bps~ 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
825-235	G3 TX Modem MAX Speed for Ch2 except V.34 Overseas	4800bps	2400bps~ 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
825-236	G3 TX Modem MAX Speed for Ch3 except V.34 Overseas	4800bps	2400bps~ 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
825-237	G3 TX Modem MAX Speed for Ch4 except V.34 Overseas	4800bps	2400bps~ 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
825-238	G3 TX Modem MAX Speed for Ch5 except V.34 Overseas	4800bps	2400bps~ 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
825-239	G3 TX Modem MAX Speed for Ch0 on V.34	33600bps	2400bps 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	2400bps 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	2400bps 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	2400bps 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	2400bps 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	2400bps 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

Table 1 Chain 825

Chain-Link	Content	Default	Range	Meaning
825-245	G3 TX Modem MAX Speed for Ch0 on V.34 Overseas	33600bps	2400bps 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	2400bps 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	2400bps 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	2400bps 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	2400bps 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	2400bps 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	0~3	0: 0dB 1: 4dB 2: 8dB 3: 12dB
825-252	G3 RX Cable Equalizer for Ch1	1	0~3	0: 0dB 1: 4dB 2: 8dB 3: 12dB
825-253	G3 RX Cable Equalizer for Ch2	1	0~3	0: 0dB 1: 4dB 2: 8dB 3: 12dB
825-254	G3 RX Cable Equalizer for Ch3	1	0~3	0: 0dB 1: 4dB 2: 8dB 3: 12dB
825-255	G3 RX Cable Equalizer for Ch4	1	0~3	0: 0dB 1: 4dB 2: 8dB 3: 12dB
825-256	G3 RX Cable Equalizer for Ch5	1	0~3	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	0~3	0: 0dB 1: 4dB 2: 8dB 3: 12dB
825-264	G3 TX Cable Equalizer for Ch1	1	0~3	0: 0dB 1: 4dB 2: 8dB 3: 12dB
825-265	G3 TX Cable Equalizer for Ch2	1	0~3	0: 0dB 1: 4dB 2: 8dB 3: 12dB
825-266	G3 TX Cable Equalizer for Ch3	1	0~3	0: 0dB 1: 4dB 2: 8dB 3: 12dB
825-267	G3 TX Cable Equalizer for Ch4	1	0~3	0: 0dB 1: 4dB 2: 8dB 3: 12dB
825-268	G3 TX Cable Equalizer for Ch5	1	0~3	0: 0dB 1: 4dB 2: 8dB 3: 12dB
825-274	Error Line Control	0: No limit	0~5	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	0~1	0: Proportion 1: No. of lines
825-276	Tone Receiving Detect Level for Ch0	1: -43dBm	0~3	0: -48dBm 1: -43dBm 2: -38dBm 3: -33dBm
825-277	Tone Receiving Detect Level for Ch1	1: -43dBm	0~3	0: -48dBm 1: -43dBm 2: -38dBm 3: -33dBm
825-278	Tone Receiving Detect Level for Ch2	1: -43dBm	0~3	0: -48dBm 1: -43dBm 2: -38dBm 3: -33dBm
825-279	Tone Receiving Detect Level for Ch3	1: -43dBm	0~3	0: -48dBm 1: -43dBm 2: -38dBm 3: -33dBm
825-280	Tone Receiving Detect Level for Ch4	1: -43dBm	0~3	0: -48dBm 1: -43dBm 2: -38dBm 3: -33dBm
825-281	Tone Receiving Detect Level for Ch5	1: -43dBm	0~3	0: -48dBm 1: -43dBm 2: -38dBm 3: -33dBm

Table 1 Chain 825

Chain-Link	Content	Default	Range	Meaning
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
825-417	TEI(TEI acquisition method =Valid for manual allocation) for option board2	1	0~63	0~63
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
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: *

Table 1 Chain 825

Chain-Link	Content	Default	Range	Meaning
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.
825-516	Capability to IFAX header (receive)	0	0~1	0: Not add 1: Add

Table 1 Chain 830

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)
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
830-116	IFAX Net Config Route	1	1~2	1: Through MTA 2: P2P connection 3: User designation (Not applicable at the moment)
830-118	IFAX Net Config Retry Count	1	0~5	0: Not retry 1-5: Number of times of retry
830-119	IFAX Net Config Retry Interval	1	0~60	0: Retry immediately 1-60: Retry at interval (min.)
830-120	IFAX Print Mode	0	0~1	0: Distribute automatically, 1: Print as IFAXData
830-121	Default Message of Internet FAX	NULL	-	Max.256 bytes. NULL end
830-122	Authenticated user name in internet fax body	1	0~1	0: Disable, 1: Enable

Table 1 Chain 830

Chain-Link	Content	Default	Range	Meaning
830-123	Authenticated user email address in internet fax body	1	0~1	0: Disable, 1: Enable
830-124	Number of pages in internet fax body	1	0~1	0: Disable, 1: Enable
830-125	File format in internet fax body	1	0~1	0: Disable, 1: Enable
830-126	IP address in internet fax body	0	0~1	0: Disable, 1: Enable
830-127	Serial number in internet fax body	0	0~1	0: Disable, 1: Enable
830-128	MAC address in internet fax body	0	0~1	0: Disable, 1: Enable
830-129	Device name in internet fax body	1	0~1	0: Disable, 1: Enable
830-130	Device location in internet fax body	1	0~1	0: Disable, 1: Enable
830-131	Signature message in internet fax body	NULL		Max. 128 bytes.NULL end

Table 1 EP-SV

Chain-Link	NVM Name	Default	Setup Range	Description
840-002	Scan Illegal Operation	1	0~1	0: Discard stored document, 1: Validate stored document
840-003	MAX Store Numbers in Scan Service	999 Sheets	1~999	1 to 999 Sheets
840-004	Brightness3 Setting in Scan Service	192: [-92(Density)]	0~200	0 to 200: [-100 to 100]
840-005	Brightness2 Setting in Scan Service	161: [-61(Density)]	0~200	0 to 200: [-100 to 100]
840-006	Brightness1 Setting in Scan Service	131: [-31(Density)]	0~200	0 to 200: [-100 to 100]
840-007	Brightness-1 Setting in Scan Service	99: [1(Density)]	0~200	0 to 200: [-100 to 100]
840-009	Brightness-3 Setting in Scan Service	97: [3(Density)]	0~200	0 to 200: [-100 to 100]
840-010	Contrast [Hard] Setting in Scan Service	150: [50(Density)]	0~200	0 to 200: [-100 to 100]
840-011	Contrast [Medium Hard] Setting in Scan Service	125: [25(Density)]	0~200	0 to 200: [-100 to 100]
840-012	Contrast [Medium Soft] Setting in Scan Service	75: [-25(Density)]	0~200	0 to 200: [-100 to 100]
840-013	Contrast [Soft] Setting in Scan Service	50: [-50(Density)]	0~200	0 to 200: [-100 to 100]
840-019	RGB Color Space in Scan Service	0	0~1	0: Standard color space 1: Device color space
840-021	Scan ACS Display	0	0~1	0: Not display, 1: Display
840-022	Addition of pages to be sent	1	0~1	0: Invalid 1: Valid
840-023	Back G Suppress Level in Scan	4: +4	0~4	0: Normal, 1: High level+1, 2:High level+2, 3:High level+3, 4:High level+4, Only for Full Color
840-024	Remove Bleed Through Level in Scans	Standard	0~4	0: Low, 1: Slightly low, 2: Normal, 3: Slightly high, 4: High
840-031	Switch System of ServerFax and EnbeddedFax	1	1~2	1: ServerFax prioritized 2: Analog Fax prioritized
840-032	ServerFax Confirmation Sheet Control	2	1~3	1: Always output report 2: Output report only at error occurrence 3: Not output report
840-034	ServerFax Transfer Protocol	1	1~5	1: FTP 2: NCP 3: SMB 4: SMTP 5: HTTP
840-041	SMB Browsing TimeOut Setting	5 (sec.)	1~300	1 to 300(sec)
840-046	Use CN for LDAP search filter	1	1~2	1: ON 2: OFF

Table 1 EP-SV

Chain-Link	NVM Name	Default	Setup Range	Description
840-047	Use SN for LDAP search filter	2	1~2	1: ON 2: OFF
840-048	Use givenname for LDAP search filter	2	1~2	1: ON 2: OFF
840-049	Use custom attribute for LDAP search filter	2	1~2	1: ON 2: OFF
840-080	ABL LDAP Varied	1	0~1	1: Permitted, 0: Inhibited
840-081	ABL LDAP CN	CN	-	Character string of 32 bytes or less
840-082	ABL LDAP SN	SN	-	Character string of 32 bytes or less
840-083	ABL LDAP Given Name	givenname	-	Character string of 32 bytes or less
840-084	ABL LDAP Mail	mail	-	Character string of 32 bytes or less
840-085	ABL LDAP AltName1	Telephone number (FX default)	-	Character string of 16 bytes or less (for domestic market) Default character string varies with shipment destination country.
840-086	ABL LDAP AltName1 Type	telephonenumber	-	Character string of 32 bytes or less
840-087	ABL LDAP AltName2	Business location (FX default)	-	Character string of 16 bytes or less (for domestic market) Default character string varies with shipment destination country.
840-088	ABL LDAP AltName2 Type	o	-	Character string of 32 bytes or less
840-089	ABL LDAP AltName3	Department (FX default)	-	Character string of 16 bytes or less (for domestic market) Default character string varies with shipment destination country.
840-090	ABL LDAP AltName3 Type	ou	-	Character string of 32 bytes or less
840-091	ABL LDAP Max Hit Count	50	-	5 to 100
840-092	ABL LDAP Dn	NULL	-	256 bytes or less. Not to be set when LDAP authentication is not required
840-093	ABL LDAP Password	NULL	-	32 bytes or less. Not to be set when password is not required for LDAP authentication
840-094	ABL LDAP Root	NULL	-	255 bytes or less
840-095	ABL LDAP Scope	Whole sub-tree under start entry	1~3	1: Only start entry 2: Only directly lower entry of start entry 3: Whole sub-tree under start entry
840-096	ABL LDAP Object Class	-	-	32 bytes or less
840-097	ABL LDAP Timeout	30	-	0, 5-120. For detection on device side, timeout value shall be value other than 0. When 0 is set, device does not detect timeout and follows timeout setting by Directory Server service side
840-098	ABL LDAP Directory Application	NULL	0~3	0: NONE, 1: Microsoft) ActiveDirectory or Microsoft)ExchangeServer5.5, 2: Novell)NetWare5. 3: IBM) Domino6. Mapping between attribute to be obtained and LDAP attribute type is determined based on the content set here. 0: NONE means Undefined other application server

Table 1 EP-SV

Chain-Link	NVM Name	Default	Setup Range	Description
840-104	Custom attribute for LDAP Search Filter	NULL	-	Max. 32 bytes including NULL end character string. Upper case/Lower case distinguished. To make character string of this system data, 'Use of Custom LDAP attribute' need be set to ON.
840-115	Scan Template Management Enable	0	0~1	0: Not enable 1: Enable
840-116	Scan To EMail Net Config Sign	3	1~3	1: Always add signature 2: Not add signature 3: Designated by user
840-117	IFAX Net Config Sign	3	1~3	1: Always add signature 2: Not add signature 3: User selection
840-118	ABL Ldap Config	userCertificate;binary	-	Character string indicating certificate attribute name
840-119	MetaData Validation Export UserID Enable	1	0~1	0: Not output 1: Output
840-121	B-FMT Output Resolution	15	2~15	2: 200x200 15: Resolution
840-122	S-FMT Scan To IFAX Contone	1	0~1	0: Image quality prioritized 1: Speed priority
840-123	S-FMT Scan To IFAX Binary	1	0~2	1: Speed priority 2: Profile priority
840-125	ABL LDAP Info - use SSL	0	0~1	0: Invalid, 1: Valid
840-126	Default message of scan to email	NULL character	-	-
840-127	Authenticated user name in mail body	1	0~1	0: Invalid, 1: Valid
840-128	Authenticated user email address in mail body	1	0~1	0: Invalid, 1: Valid
840-129	Number of pages in mail body	1	0~1	0: Invalid, 1: Valid
840-130	File format in mail body	1	0~1	0: Invalid, 1: Valid
840-131	IP address in mail body	0	0~1	0: Invalid, 1: Valid
840-132	Serial number in mail body	0	0~1	0: Invalid, 1: Valid
840-133	MAC address in mail body	0	0~1	0: Invalid, 1: Valid
840-134	Device name in mail body	1	0~1	0: Invalid, 1: Valid
840-135	Device location in mail body	1	0~1	0: Invalid, 1: Valid
840-136	Default signature message of scan to email	NULL character	-	-
840-137	Change From Address Enable for Login User	0	0~1	0: Inhibit, 1: Permit
840-138	Change From Address Enable for Login Invalid User	1	0~1	0: Inhibit, 1: Permit
840-139	Change From Address Enable for Guest User	0	0~1	0: Inhibit, 1: Permit

Table 1 EP-SV

Chain-Link	NVM Name	Default	Setup Range	Description
840-140	Change From Address Enable for Not-Login User	0	0~1	0: Inhibit, 1: Permit
840-141	Email Enable for Invalid mail address user	1	0~1	0: Inhibit, 1: Permit
840-142	NetSend Transmission Report Control	2	1~3	1: Always output report 2: Output report only at error occurrence 3: Not output report
840-144	CWSS Confirmation Sheet Control	2	1~3	1: Always output report 2: Output report only at error occurrence 3: Not output report
840-147	Scan OCR Default - Direction	1	1~2	1: According to OCR result 2: According to input orientation
840-148	ScanToHome Enable	0	0~1	0:Disable 1:Enable
840-149	ScanToMyfolder Enable	0	0~1	0:Disable 1:Enable

Table 1 EP-SV

Chain-Link	NVM Name	Default	Setup Range	Description
850-001	EP-SV, EP Accessory Connection	0: OFF	0~1	0: OFF, 1: ON
850-002	Telephone line connection	0: OFF	0~1	0: OFF, 1: ON
850-003	EP Data Send Type (This data is the same as that of EP-DX)	0: Send to EP-SV	0~2	0: Send to EP-SV, 1: Send to EP-DX, 2: Send to both
850-004	Enable Display at bundling (This data is the same as that of EP-DX)	0: Prohibit	0~1	0: Prohibit, 1: Implement
850-007	Types of accessories	-	0~12	0: Off, 1: CopyLyzer (Addition), 2: CopyLyzer (Subtraction), 3: Dispenser, 4: Coin Kit5, 5: Combination of CopyLyzer and Copy Dispenser, 6: Combination of CopyLyzer and Coin Kit 5, 7: Combination of Dispenser and Coin Kit 5, 10: IC Card Gate
850-009	Print Control Function	0: Do not control operation	0~1	0: Do not control operation, 1: Control operation
850-010	Interrupt operation when connected to subtraction type	1: Interrupt Off	0~1	0: Interrupt On, 1: Interrupt Off
850-011	CRU Replacement Notification Enable/Disable	0: Prohibit	0~1	0: Prohibit, 1: Permit
850-012	CRU Warning Notification Enable/Disable	0: Prohibit	0~1	0: Prohibit, 1: Permit
850-014	ICCG-H WakeUp Retry Timer	0: Not retry WakeUp command (Timeout after 10sec)	0~9	0 to 9 0: Wait for 10 sec. (Conventional operation as is (Default)) 1 to 9: Wait for a specified time (min.)
850-015	Scan/Fax/I-Fax Control Feature	0: Do not control operation	0~1	0: Do not control operation, 1: Control operation
850-016	Disable Control at Deduct Accessory	0: Cancel Job (Cancel)	0~2	0: Cancel job (abort) 1: Suspend job 2: Abort or hold depending on status
850-017	Use Card Number in Print Control	1: Use Card No.	0~1	0: Do not use Card No., 1: Use Card No.
850-018	Paper feeding mode for 2 Sided Printing when connected to the conventional subtraction type accessory	1: One sheet mode	0~1	0: Clear one sheet mode and speed up, 1: One sheet mode
850-019	Remaining Job Auto Cancel Mode Exit Timer	15(sec)	10~300	10 to 300(sec)

Table 1 EP-DX

Chain-Link	NVM Name	Default	Setup Range	Description
860-011	Remote Center Call Feature OFF/ON	1: ON	1	0: OFF, 1: ON
860-012	Alert Call Feature ON/OFF	0: OFF	1	0: OFF, 1: ON
860-032	No. of CRU Replacements	0	0~0xFFFFFFFF	0~0xFFFFFFFF

Table 1 Diagnostics

Chain-Link	NVM Name	Default	Setup Range	Description
870-010	XERO: CRU #1 Wear Reduction Current Value	-	0~99999999	Read Only
870-011	XERO: CRU #2 Wear Reduction Current Value	-	0~99999999	Read Only
870-012	XERO: CRU #3 Wear Reduction Current Value	-	0~99999999	Read Only
870-013	XERO: CRU #4 Wear Reduction Current Value	-	0~99999999	Read Only
870-014	XERO: #1CRU Warning Current Value	-	0~99999999	Read Only
870-015	XERO: #1Drum Total Cycle Current Value	-	0~99999999	Read Only
870-016	XERO: #2 Drum Total Cycle Current Value	-	0~99999999	Read Only
870-017	XERO: #3 Drum Total Cycle Current Value	-	0~99999999	Read Only
870-018	XERO: #4 Drum Total Cycle Current Value	-	0~99999999	Read Only
870-019	XERO: #1 Drum DC Cycle Current Value	-	0~99999999	Read Only
870-020	XERO: #2Drum DC Cycle Current Value	-	0~99999999	Read Only
870-021	XERO: #3 Drum DC Cycle Current Value	-	0~99999999	Read Only
870-022	XERO: #4 Drum DC Cycle Current Value	-	0~99999999	Read Only
870-023	XERO: #1 Drum AC Cycle Current Value	-	0~99999999	Read Only
870-024	XERO: #2 Drum AC Cycle Current Value	-	0~99999999	Read Only
870-025	XERO: #3 Drum AC Cycle Current Value	-	0~99999999	Read Only
870-026	XERO: #4 Drum AC Cycle Current Value	-	0~99999999	Read Only
870-027	Xfer: IBT Belt (IMPS)	-	0~99999999	Read Only
870-028	Xfer: IBT Belt (CYCLE)	-	0~99999999	Read Only
870-029	Xfer: 1st BTR	-	0~99999999	Read Only
870-030	Xfer: Backup Roll	-	0~99999999	Read Only
870-031	Xfer: 2nd BTR Unit	-	0~99999999	Read Only
870-032	Xfer: Bearing BTR	-	0~99999999	Read Only
870-033	Xfer: Trim within Transfer Module	-	0~99999999	Read Only
870-034	Xfer: Belt Cleaner Blade	-	0~99999999	Read Only

Table 1 Diagnostics

Chain-Link	NVM Name	Default	Setup Range	Description
870-035	Xfer: Belt Cleaner Film Seal	-	0~99999999	Read Only
870-036	PH: No. of 1 Tray Feed	-	0~99999999	Read Only
870-037	PH: No. of MSI Feed	-	0~99999999	Read Only
870-038	PH: No. of 3TM 2Tray Feed	-	0~99999999	Read Only
870-039	PH: No. of 3TM 3Tray Feed	-	0~99999999	Read Only
870-040	PH: No. of 3TM 4Tray Feed	-	0~99999999	Read Only
870-041	PH: No. of 1TM 2Tray Feed	-	0~99999999	Read Only
870-042	PH: No. of TTM 2Tray Feed	-	0~99999999	Read Only
870-043	PH: No. of TTM 3Tray Feed	-	0~99999999	Read Only
870-044	PH: No. of TTM 4Tray Feed	-	0~99999999	Read Only
870-045	Fuser, NOHAD: PV (CV) Counter for checking the replacement Life of the Filter used for ROS contamination	-	0~99999999	Read Only
870-200	Input Tray Settings	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
870-201	Output Tray Settings	1: Main Tray	0~255	0: Auto, 1~255: Bin No
870-202	Copies (Output Sheet Count) Settings	1: 1 set	1~65535	1~65535 sets
870-203	1 Sided Output/2 Sided Output Settings	0: 1 Sided	0~2	0: 1 Sided, 1: 2 Sided (Head to Head), 2: 2 Sided (Head to Bottom)
870-204	Paper Type Settings	0: Plain Paper	0~66	0: Plain Paper, 1: Recycled Paper, 2: Bond paper, 3: Lightweight, 4: Heavyweight 1, 5: Heavyweight 2, 6: Heavyweight 1 Side 2, 7: Heavyweight 2 Side 2, 8: Super Heavyweight, 9: Super Heavyweight Side 2, 10: Transparency, 11: Tacked Paper, 12: Labels, 13~31: Plain Paper A~S, 32: Heavyweight 1A, 33: Heavyweight 1B, 34: Heavyweight 1S, 35: Heavyweight 1 (Side 2) A, 36: Heavyweight 1 (Side 2) B, 37: Heavyweight 1 (Side 2) S, 38: Heavyweight 2A, 39: Heavyweight 2B, 40: Heavyweight 2S, 41: Heavyweight 2 (Side 2) A, 42: Heavyweight 2 (Side 2) B, 43: Heavyweight 2 (Side 2) S, 44: Heavyweight 1C, 45: Heavyweight 1C (Side 2), 46: Heavyweight 2C, 47: Heavyweight 2C (Side 2), 48: Heavyweight 2D, 49: Heavyweight 2D (Side 2), 50: Coated Paper 1, 51: Coated Paper 1 (Side 2), 52: Coated Paper 2, 53: Coated Paper 2 (Side 2), 54: Coated Paper 1 Special (Special Glossy Paper), 55~59: Custom Paper 1~5, 60: Tracing Paper, 61: Backing Paper, 62: Tab Paper Heavyweight 1, 63: Tab Paper Heavyweight 2, 64: Labels 1, 65: Labels 2, 66: Perforated (Punched)
870-205	Color Mode Settings	0: 4 Colors	0~3	0: 4 Colors, 1: 3 Colors, 2: Mono Color, 3: BW
870-206	Single Color Settings	0: Black	0~6	0: Black, 1: Yellow, 2: Magenta, 3: Cyan, 4: Red, 5: Green, 6: Blue
870-207	Screen Settings	0: Text	0~10	0: Text, 1: Photo, 2: Binary ED, 3: 24ED, 4: 300DACS, 5: 600, 6: 300, 7: 200C, 8: 200R, 9: 150, 10: Fine
870-208	LUT Settings	3: IOT And Ctrack On	0~3	0: All Off, 1: IOT On, 2: Ctrack On, 3: IOT And Ctrack On
870-209	Density Settings	0: 0%	0~100	0~100%
870-210	Resolution Settings	0: 1200x1200	0~4	0: 1200x1200, 1: 1200x600, 2: 600x600, 3: 300x300

Table 1 Diagnostics

Chain-Link	NVM Name	Default	Setup Range	Description
870-211	Paper Size (Standard) Settings	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: Official Postcard SEF, 39: Official Postcard LEF, 40: Return Postcard SEF, 41: PostCard (4x6) SEF, 42: PostCard (4x6) LEF, 43: PostCard (5x7) SEF, 44: Envelope SEF, 45: Envelope LEF, 46: Com10LEF, 47: MonarchLEF, 48: DL LEF, 49: Envelope SEF, 50: Envelope LEF
900-001~999	Tag 1V~Tag 999V	0	0~1	Tag Information 1V ~999V[0: OFF, 1: ON]

880-xxx Job Flow Service

Table 1 Job Flow Service

Chain-Link	NVM Name	Default	Setup Range	Description
880-001	ESR Poolserver Config Enable	0: Disable	0, 1	0: Disable, 1: Enable
880-002	ESR Poolserver Config port no.	80	1~65535	1~65535
880-003	Connection Schema	1: HTTP	1, 2	1:HTTP 2:HTTPS
880-004	ESR Poolserver Config Schema	0: Disable	0, 1	0: Disable, 1: Enable
880-005	ESR Poolserver Config Use Static Auth Info	60	1~300	1~300
880-006	Default Job Flow Repository	0: Device	0, 1	0: Device, 1: Pool Server
880-007	Job Flow Sheet Search Keyword 1	NULL	-	Single-byte symbols, double-byte Katakana, Hiragana, Chinese characters, Max. 6 characters (Local); ASCII Max. 12 characters (M/N)
880-008	Job Flow Sheet Search Keyword 2	NULL	-	Single-byte symbols, double-byte Katakana, Hiragana, Chinese characters, Max. 6 characters (Local); ASCII Max. 12 characters (M/N)
880-009	Job Flow Sheet Search Keyword 3	NULL	-	Single-byte symbols, double-byte Katakana, Hiragana, Chinese characters, Max. 6 characters (Local); ASCII Max. 12 characters (M/N)
880-010	Job Flow Sheet Search Keyword 4	NULL	-	Single-byte symbols, double-byte Katakana, Hiragana, Chinese characters, Max. 6 characters (Local); ASCII Max. 12 characters (M/N)
880-011	Job Flow Sheet Search Keyword 5	NULL	-	Single-byte symbols, double-byte Katakana, Hiragana, Chinese characters, Max. 6 characters (Local); ASCII Max. 12 characters (M/N)
880-012	Job Flow Sheet Search Keyword 6	NULL	-	Single-byte symbols, double-byte Katakana, Hiragana, Chinese characters, Max. 6 characters (Local); ASCII Max. 12 characters (M/N)
880-013	Job Flow Sheet Search Keyword 7	NULL	-	Single-byte symbols, double-byte Katakana, Hiragana, Chinese characters, Max. 6 characters (Local); ASCII Max. 12 characters (M/N)
880-014	Job Flow Sheet Search Keyword 8	NULL	-	Single-byte symbols, double-byte Katakana, Hiragana, Chinese characters, Max. 6 characters (Local); ASCII Max. 12 characters (M/N)
880-015	Job Flow Sheet Search Keyword 9	NULL	-	Single-byte symbols, double-byte Katakana, Hiragana, Chinese characters, Max. 6 characters (Local); ASCII Max. 12 characters (M/N)
880-016	Job Flow Sheet Search Keyword 10	NULL	-	Single-byte symbols, double-byte Katakana, Hiragana, Chinese characters, Max. 6 characters (Local); ASCII Max. 12 characters (M/N)
880-017	Job Flow Sheet Search Keyword 11	NULL	-	Single-byte symbols, double-byte Katakana, Hiragana, Chinese characters, Max. 6 characters (Local); ASCII Max. 12 characters (M/N)
880-018	Job Flow Sheet Search Keyword 12	NULL	-	Single-byte symbols, double-byte Katakana, Hiragana, Chinese characters, Max. 6 characters (Local); ASCII Max. 12 characters (M/N)
880-019	Job Flow Sheet Search Keyword 13	NULL	-	Single-byte symbols, double-byte Katakana, Hiragana, Chinese characters, Max. 6 characters (Local); ASCII Max. 12 characters (M/N)
880-020	Job Flow Sheet Search Keyword 14	NULL	-	Single-byte symbols, double-byte Katakana, Hiragana, Chinese characters, Max. 6 characters (Local); ASCII Max. 12 characters (M/N)
880-021	Job Flow Sheet Search Keyword 15	NULL	-	Single-byte symbols, double-byte Katakana, Hiragana, Chinese characters, Max. 6 characters (Local); ASCII Max. 12 characters (M/N)

900-xxx Tag Info

Table 1 Tag Information

Chain Link	NVM Name	Default	Setup Range	Description
900-001~999	Tag 1V~Tag 999V	0	0~1	Tag Information 1V ~999V[0: OFF, 1: ON]

910-xxx Media Print

Table 1 Media Print

Chain Link	NVM Name	Default	Setup Range	Description
910-001	Media Print Camera Smoothing	2	1~2	1 : 0N, 2 : OFF
910-002	Media Print Document Smoothing	2	1~2	1 : 0N, 2 : OFF

Date / Time

Purpose

Allows easy access to change System Time, System Date, Time Display format, and GMT Offset.

Procedure

1. Enter the **UI Diagnostic Mode**. Refer to Entering CE Mode and Accessing UI Diagnostics.
2. Select the Common Settings.
3. Select the **Machine Clock / Timers**.
4. Select Date. The Date settings are displayed.
5. Make selections from the following categories:
   a. System Date
      - Day (1-31)
      - Month (1-12)
      - Year

   b. System Time
      - Hour (1-12 w/ 12 hour clock, 1-24 w/ 24 hour clock)
      - Minute
      - Second
      - AM (12 hour clock only)
      - PM (12 hour clock only)

   c. Time Zone (GMT Offset)

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 for a list of all Input Components listed by Chain/Link ID number. Refer to Table 2 for a list of all Output Components listed by Chain/Link ID number.*

Procedure

1. Enter Diagnostic Mode (see Accessing UI Diagnostics).
2. Select **Maintenance/Diagnostics**.
3. Select **IO Check.**
4. Select **Component Control**.
5. Input Chain-Link number, then select **Enter Number**.
   - In case of INPUT Component:
     Indicates current status in Status column.
     Count up (+1) when switching. (High to Low, Low to High)
   - In case of OUTPUT Component:
     Activates component
6. Press **Stop** button after confirming.

Stacking Components

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 performing multiple component checking, input new Chain-Link number after one (or several) component(s) is (are) in operation.

   NOTE: *Only latest Chain-Link number is displayed.*

2. When confirming the status of another component still in operation, 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 the following categories:*

   - *IIT Input Component.*
   - *IIT Output Component.*
   - *IOT Input Component.*

Table 1 Input Component Control Codes

Code	Name	Description
001-201	MCU Fuse Fail#1	H:Fuse
001-202	MCU Fuse Fail#2	H:Fuse
001-203	MCU Fuse Fail#3	H:Fuse
001-204	MDD Fuse Fail#1	H:Fuse
001-205	MDD Fuse Fail#2	H:Fuse
001-206	MDD Fuse Fail#3	H:Fuse
001-207	MDD Fuse Fail#4	H:Fuse
001-208	MDD Fuse Fail#5	H:Fuse
001-209	P401 Connect Fail	L:P401
001-210	P406 Connect Fail	H:P406
001-211	P410 Connect Fail1	H:P410
001-212	P410 Connect Fail2	H:P410
001-213	P411 Connect Fail	H:P411
001-300	INTLK_1	High when Open is detected. ON = High
001-301	INTLK_2	High when Open is detected. ON = High
001-302	LH LOW I/L SW	High when Open is detected. ON = High
001-304	LH 3TM I/L SW	Low when Open is detected. ON = Low
001-306	INTLK_3	High when Open is detected. ON = High
004-100	Belt Home Sensor	IBT is not at Home Position. Open circuit. It is necessary to operate IBT 5V ON. ON = High
004-101	Drum Motor YMC Fail Detection	PR (Drum) Motor YMC Failure. ON = High
004-102	Drum Motor K Fail Detection	PR (Drum) Motor K Failure. ON = High
004-200	Fuser Fan Lock Fail	Fan rotation is stopped. ON = Fault

Table 1 Input Component Control Codes

Code	Name	Description
004-201	Bottom Fan Lock Fail	Fan rotation is stopped. ON = Fault
004-202	Deve Fan Lock Fail	Fan rotation is stopped. ON = Fault
004-203	LV Fan Lock Fail	Fan rotation is stopped. ON = Fault
004-204	Rear Fan Fail	Fan rotation is stopped. ON = Fault
005-102	Document Sensor	No paper detected by Document Sensor. ON = High
005-110	Regi Sensor (DADF)	Paper detected by Regi Sensor. ON = Low
005-205	DADF Feed Out Sensor	Paper detected by Feed Out Sensor
005-206	DADF Pre-Reg.Sensor	Paper detected by Pre-Reg. Sensor
005-211	DADF Invert Sensor	Paper detected by Inverter Sensor
005-212	DADF Feeder Cover Interlock Switch	Feeder Cover open
005-213	DADF Platen Interlock Switch	Platen Interlock open
005-215	DADF #1 Tray APS Sensor	Light is not blocked by the actuator
005-216	DADF #2 Tray APS Sensor	Light is not blocked by the actuator
005-217	DADF #3 Tray APS Sensor	Light is not blocked by the actuator
005-218	DADF #1 APS Sensor	paper detected by APS No.1 Sensor
005-219	DADF #2 APS Sensor	paper detected by APS No.1 Sensor
005-220	DADF #3 APS Sensor	paper detected by APS No.1 Sensor
005-221	DADF Tray Size SNR No.1	paper detected by Tray Size SNR No.1
005-222	DADF Tray Size SNR No.2	paper detected by Tray Size SNR No.2
005-224	Scan Start	Scan Start Signal ON
005-225	Nudger Position Snr	The Nudger Roll is at UP position.
006-160	Polygon Motor Ready Signal	Regular rotation of Polygon Motor. ON = Low
007-100	Tray 1 Size Switch 1	ON = AN value
007-101	Tray 1 Size Switch 2	ON = AN value
007-102	Tray 1 Size Switch 3	ON = AN value
007-103	Tray 1 Size Switch 4	ON = AN value
007-104	Tray 2 Size Switch 1	ON = AN value
007-105	Tray 2 Size Switch 2	ON = AN value
007-106	Tray 2 Size Switch 3	ON = AN value
007-107	Tray 2 Size Switch 4	ON = AN value
007-108	Tray 3 Size Switch 1	ON = AN value
007-109	Tray 3 Size Switch 2 (3TM); Size Switch 3 (TTM)	ON = AN value
007-110	Tray 3 Size Switch 3 (3TM only)	ON = AN value
007-111	Tray 3 Size Switch 4 (3TM only)	ON = AN value
007-112	Tray 4 Size Switch 1	ON = AN value

Table 1 Input Component Control Codes

Code	Name	Description
007-113	Tray 4 Size Switch 2 (3TM); Size Switch 3 (TTM)	ON = AN value
007-114	Tray 4 Size Switch 3 (3TM only)	ON = AN value
007-115	Tray 4 Size Switch 4 (3TM only)	ON = AN value
007-116	Tray 1 Level Sensor	Lift Up. ON = High
007-117	Tray 2 Level Sensor	Lift Up. ON = High
007-118	Tray 3 Level Sensor	Lift Up. ON = High
007-119	Tray 4 Level Sensor	Lift Up. ON = High
007-120	Tray 1 No paper Sensor	No paper. ON = High
007-121	Tray 2 No paper Sensor	No paper. ON = High
007-122	Tray 3 No paper Sensor	No paper. ON = High
007-123	Tray 4 No paper Sensor	No paper. ON = High
007-125	Tray 5 No paper Sensor	No paper. ON = High
007-128	Face Up Tray Detect	Low when Tray is installed. ON = Low
008-100	#1Feed Out Sensor	Paper detected. ON = High
008-102	#3Feed Out Sensor	Paper detected. ON = High
008-103	#4Feed Out Sensor	Paper detected. ON = High
008-104	Regi Sensor	No paper -ON = Low
008-105	Dup Wait Sensor	Paper detected. ON = High
008-106	T/A Sensor	Paper detected. ON = High
008-107	TTM Path Sensor1	Paper detected
008-108	TTM Path Sensor2	Paper detected
008-109	OHP Sensor#L	ON = Low
008-110	OHP Sensor#R	ON = Low
008-300	DUP Open Switch	ON = High
009-101	Toner_Y New	CRU Connection of color is open (The CRU in use is present, or it is not present). Low=new, High=old
009-102	Toner_M New	CRU Connection of color is open (The CRU in use is present, or it is not present). Low=new, High=old
009-103	Toner_C New	CRU Connection of color is open (The CRU in use is present, or it is not present) Low=new, High=old
009-104	Toner_K New	CRU Connection of color is open (The CRU in use is present, or it is not present) Low=new, High=old
009-150	TNR FULL SNR	ON = High
009-151	#Y_CRU detect	CRU is installed
009-152	#M_CRU detect	CRU is installed

Table 1 Input Component Control Codes

Code	Name	Description
009-153	#C_CRU detect	CRU is installed
009-154	#K_CRU detect	CRU is installed
009-200	2nd BTR Retract Sensor	Retraction. ON = Low
009-201	POB Sensor	Paper detected. ON = Low
009-203	1st BTR Retract Sensor	Retraction. ON = Low
010-101	Fuser Exit	Paper detected. ON = High
010-102	Full Paper Stack Sensor	NotFull. ON = Low
012-100	IOT Regi Clutch	Clutch OFF. ON = High
012-101	Compiler Tray Exit Sensor	Paper detected. ON = High
012-102	Compiler Paper Sensor	Paper detected. ON = High
012-103	H-Tra Ent. Sensor	Paper detected. ON = High
012-104	H-Tra Exit Sensor	Paper detected. ON = High
012-200	Stacker Paper Sensor	Paper detected. ON = High
012-201	Stacker Height Sensor	Higher than the detection surface. ON = High
012-202	Stacker Upper Limit Sensor	Upper Limit position. ON = High
012-204	Stacker Stack A Sensor	Non-transmissive position. ON = High
012-205	Stacker Stack B Sensor	Non-transmissive position. ON = High
012-207	Staple Head Home Sensor	Not at Home position. ON = High
012-208	Low Staple Switch	Low Staple. ON = High
012-209	Staple Ready Sensor	Not at Ready position. ON = High
012-210	Eject Clamp Home Sensor	Not at Home Position (Roller is down). ON = High
012-211	Set Clamp Home Sensor	Not at Home Position (transmissive). ON = High
012-212	Rear Tamper Home Sensor	Home position. ON = High
012-215	H-Tra IOT Full Paper Sensor	No paper. ON = High
012-216	Front Tamper Home Sensor	Home position. ON = High
012-217	Decurler Cam Position Sensor	Not at Home Position (transmissive). ON = High
012-224	Stapler Move Sensor	Non-transmissive position. ON = High
012-225	Stapler Front Corner Sensor	Front Corner position. ON = High
012-300	Front Cover Interlock Switch	Open. ON = High
012-301	Top Cover Interlock Switch	Open. ON = High
012-302	Docking Interlock Sensor	Docking release. ON = High
012-305	H-Tra Interlock Sensor	Open. ON = High
013-101	Booklet Knife Home Sensor	Booklet Knife Home SNR Home ON = High
013-102	Booklet Compile No Paper Sensor	Booklet Compiler ON = Low
013-103	Booklet Folder Roll Exit Sensor	Booklet Folder Roll Exit SNR ON = Low
013-104	Booklet Drawer Set Sensor	Booklet Drawer ON = High
013-105	Booklet Stapler Ready	Booklet Stapler Ready Low = Ready
013-106	Booklet Stapler Error	Booklet Stapler Error High = Error

Table 1 Input Component Control Codes

Code	Name	Description
013-107	Booklet Low Staple F SW	Booklet Stapler Low Staple ON = High
013-108	Booklet Low Staple R SW	Booklet Stapler Low Staple ON = High
013-112	Booklet Tray Belt SW	Booklet Tray Belt Switch Actuated = Low
013-134	Booklet Tamper Home Sensor F	Booklet Tamper Front Not Home = High
013-135	Booklet IN SNR	Booklet IN SNR ON = High
013-136	Booklet Tamper Home Sensor Çq	Booklet Tamper Rear ON = Low
013-137	Booklet End Guide Home Sensor	Booklet EndGuide OFF = High
013-139	Booklet No Paper Sensor	Booklet No Paper SNR ON = High
013-140	Booklet Knife Folding Sensor	Booklet Knife Folding ON = Low
014-100	Xport Ent. Sensor	H: ON L: OFF
014-101	Buffer Path Sensor	H: ON L: OFF
014-102	Gate Snr	H:OFF L: ON
014-110	Regi Clutch ON	H:Clutch OFF L:Clutch ON
014-111	IOT Exit SNR	H: ON L: OFF
014-115	Top Tray Exit SNR	H: ON L: OFF
014-150	Compile Exit SNR	H: ON L: OFF
014-151	Compile Tray No Paper SNR	H: ON L: OFF
014-190	H-Xport Ent. SNR	H: ON L: OFF
014-191	H-Xport Exit SNR	H: ON L: OFF
014-200	Side Regi SNR 1	H: ON L: OFF
014-201	Side Regi SNR 2	H: ON L: OFF
014-215	Top Tray Full SNR	H:Full L:Not Full
014-220	Front Tamper Home SNR	H:Home L:Not Home
014-221	Rear Tamper Home SNR	H:Home L:Not Home
014-241	Stapler Move Position SNR	H:At Home Position L:Not at Home Position

Table 1 Input Component Control Codes

Code	Name	Description
014-242	Low Staple SNR	H: No staples L: Staples available
014-243	Self Priming SNR	H:Not Ready L:Ready
014-244	Staple Home SNR	H:Not Home L:Home
014-250	Eject Clamp Home SNR	H:Not Home L:Home
014-251	Set Clamp Home SNR	H:Not Home L:Home
014-260	Upper Limit SNR	H:Limit L:Not Limit
014-262	Stacker No Paper SNR	H: OFF L: ON
014-263	Stack Encoder SNR	H: Detected Tray Movement L: Movement not detected
014-264	Stack Height SNR 1	H: Paper Detected on Stacker Tray L: Paper Not Detected on Stacker Tray
014-265	Stack Height SNR 2	H: Paper Detected on Stacker Tray L: Paper Not Detected on Stacker Tray
014-270	Puncher Move Home SNR	H:Not Home L:Home
014-271	Puncher Home SNR	H:Home L:Not Home
014-272	Puncher Front SNR	H:Home L:Not Home
014-273	Punch Hole Select SNR	H:Home L:Not Home
014-274	Puncher Motor SNR	Detection of Puncher (knife blade) cam operation H: Blocked L: Unblocked
014-275	Punch Box Set SNR	H:Box Set L:Box not in place
014-281	H-Xport Top Tray Exit SNR	H:Paper L:No paper
014-282	Decurler Home SNR	H:Not Home L:Home
014-300	Eject Cover SW	H:OPEN L:CLOSE
014-302	Finisher Front Door SW	H:OPEN L:CLOSE
014-303	H-Xport Interlock SNR	H:OPEN L:CLOSE
062-201	Sheet Abort	Document Regist

Table 1 Input Component Control Codes

Code	Name	Description
062-212	IIT Regi Sensor	De-actuation of Regi Sensor
062-240	ADF Exist	DADF is not installed
062-251	APS Sensor1	Document detected
062-253	APS Sensor3	Document detected
062-272	Scan Start	Scan available
062-300	Platen I/L Switch	Platen closed
062-301	Angle Sensor	Platen opened

Table 2 Output Component Control Codes

Code	Name	Description	Conflicts
004-001	Steering Motor	Reswitch the Steering Cam to Home position once and operate it at half cycle after that.	004-005
004-002	IBT Motor (104mm/sec.)	Operate with the IBT Assy. removed to prevent Transfer Belt damage.	004-012, 004-013, 004-018
004-003	Drum Motor YMC (104mm/sec.)	Remove all Drum Cartridges before energizing to prevent Belt damage.	004-011 004-015 004--016
004-004	Main Motor (104mm/sec.)	Rotate at medium speed. Operate the motor with the 2nd BTR nipped, or the LH Cover opened. Otherwise, the 2nd BTR might damage the belt.	004-007, 004-008 004-019
004-005	Steering Motor Home Position	Returns Steering Cam to home position ON = Low. Operate with the IBT Assy. removed to prevent Transfer Belt damage.	004-001
004-006	Drum Motor K (104mm/sec.)	Remove all Drum Cartridges before energizing to prevent Belt damage.	004-009, 004-010, 004-017
004-007	Main Motor (52mm/sec.)	Rotate at low speed. Operate the motor with the 2nd BTR nipped, or the LH Cover opened. Otherwise, the 2nd BTR might damage the belt.	004-004, 004-008, 004-019
004-008	Main Motor (194mm/sec)	Rotate at high speed. Operate the motor with the 2nd BTR nipped, or the LH Cover opened. Otherwise, the 2nd BTR might damage the belt.	004-004, 004-007, 004-019
004-009	Drum Motor K (52mm/sec.)	Rotate at low speed. Remove all Drum Cartridges before energizing to prevent Belt damage.	004-006, 004-010, 004-017
004-010	Drum Motor K (194mm/sec)	Rotate at high speed. Remove all Drum Cartridges before energizing to prevent Belt damage.	004-006, 004-009, 004-017

Table 2 Output Component Control Codes

Code	Name	Description	Conflicts
004-011	Drum Motor YMC (52mm/sec.)	Rotate at low speed. Remove all Drum Cartridges before energizing to prevent Belt damage.	004-003, 004-015, 004-016
004-012	IBT Motor (52mm/sec.)	Rotate at low speed. Operate with the IBT Assy. removed to prevent Transfer Belt damage.	004-012, 004-013, 004-018
004-013	IBT Motor (194mm/sec)	Rotate at high speed. Operate with the IBT unit removed. The Belt might be damaged since the Belt Work Control is not performed.	004-002, 004-012, 004-018
004-014	IBT_5V ON	ON = High.	
004-015	Drum Motor YMC(194mm/sec)	Remove all Drum Cartridges before energizing to prevent Belt damage.	004-003, 004-011, 004-016
004-016	Drum Motor YMC(104mm/sec)	Remove all Drum Cartridges before energizing to prevent Belt damage.	004-003, 004-011, 004-015
004-017	Drum Motor K(104mm/sec)	Remove all Drum Cartridges before energizing to prevent Belt damage.	004-006, 004-009, 004-010
004-018	IBT Motor(104mm/sec)	Operate with the IBT Assy. removed to prevent Transfer Belt damage.	004-012, 004-013
004-019	Main Motor(104mm/sec)	Rotate at medium speed. Operate the motor with the 2nd BTR nipped, or the LH Cover opened. Otherwise, the 2nd BTR might damage the belt.	004-004, 004-007, 004-008
004-050	Fuser Fan, LV Fan and Rear Fan Rotation High speed	Rotate the FUSER FAN, LV FAN and REAR FAN at high speed. (Rotation is Low at Power ON)	004-016
004-051	Deve Fan and Bottom Fan On	Rotate the Deve Fan and Bottom Fan at high speed	005-002~005-014
005-001	DADF Feed Motor(Speed1)	ON for 50sec -> Auto OFF	005-001 005-003~005-014
005-002	DADF Feed Motor(Speed2)	ON for 50sec -> Auto OFF	005-001~005-002 005-004~005-014
005-003	DADF Feed Motor(Speed3)	ON for 50sec -> Auto OFF	005-001~005-003 005-005~005-014

Table 2 Output Component Control Codes

Code	Name	Description	Conflicts
005-004	DADF Feed Motor(Speed4)	ON for 50sec -> Auto OFF	005-001~005-004 005-006~005-014
005-005	DADF Feed Motor(Speed5)	ON for 50sec -> Auto OFF	005-001~005-005 005-007~005-014
005-006	DADF Feed Motor(Speed6)	ON for 50sec -> Auto OFF	005-001~005-006 005-008~005-014
005-007	DADF Feed Motor(Speed7)	ON for 50sec -> Auto OFF	005-001~005-007005-009~005-014
005-008	DADF Feed Motor(Speed8)	ON for 50sec -> Auto OFF	005-001~005-008 005-010~005-014
005-009	DADF Feed Motor(Speed9)	ON for 50sec -> Auto OFF	005-002~005-014
005-010	DADF Feed Motor(Speed10)	ON for 50sec -> Auto OFF	005-001~005-009 005-013~005-014
005-013	DADF Feed Motor(Speed11)	ON for 50sec -> Auto OFF	005-001~005-010 005-014
005-014	DADF Feed Motor(Reverse)	ON for 50sec -> Auto OFF	005-001~005-013
005-026	DADF Reg.Motor(Speed1)	ON for 50sec -> Auto OFF	005-027~005-036
005-027	DADF Reg.Motor(Speed2)	ON for 50sec -> Auto OFF	005-026 005-028~005-036
005-028	DADF Reg.Motor(Speed3)	ON for 50sec -> Auto OFF	005-026~005-027 005-029~005-036
005-029	DADF Reg.Motor(Speed4)	ON for 50sec -> Auto OFF	005-026~005-028 005-030~005-036

Table 2 Output Component Control Codes

Code	Name	Description	Conflicts
005-030	DADF Reg.Motor(Speed5)	ON for 50sec -> Auto OFF	005-026~005-029 005-031~005-036
005-031	DADF Reg.Motor(Speed6)	ON for 50sec -> Auto OFF	005-026~005-030 005-032~005-036
005-032	DADF Reg.Motor(Speed7)	ON for 50sec -> Auto OFF	005-026~005-031 005-033~005-036
005-033	DADF Reg.Motor(Speed8)	ON for 50sec -> Auto OFF	005-026~005-032 005-034~005-036
005-034	DADF Reg.Motor(Speed9)	ON for 50sec -> Auto OFF	005-026~005-033 005-035~005-036
005-036	DADF Reg.Motor(Reverse)	ON for 50sec -> Auto OFF	005-026~005-036
005-072	Nip Release Solenoid	3sec on	
005-073	Stamp Solenoid	ON for 10msec -> Auto OFF	
005-083	Doc Ready	Turn ON the Doc Ready signal.	
005-084	Doc Set LED	Belt: Turn ON the DOC SET LED	
005-088	Image Area	ON for 5sec	
005-090	Nudger initialize	Performs Nudger Roll initialization.	
006-004	IPS Cooling Fan (Low speed)	After operating the IPS Cooling Fan at high speed for 5sec, operate it at low speed. ON = FAN. ON = 24V, FAN Slow: L->H (About 13V)	-
006-014	IPS Cooling Fan (High speed)	Operate the IPS Cooling Fan at high speed.	-
006-030	LD ON Enable Signal (concurrently for 4 colors)		-
006-031	Polygon Motor Start Signal		-
006-032	SOS Gain	Start-of-Scan Sensor gain signal	
007-003	Tray 5 FEED Clutch		-

Table 2 Output Component Control Codes

Code	Name	Description	Conflicts
008-001	#1Feed Motor (Fwd)	Feed (Rotate #1Feed Motor in paper feed direction at 203.135mm/sec.)	008-002, 008-059
008-002	#1Feed Motor (Rev)	It switches OFF automatically 6sec after LiftUp has started, or when the Level Snr detected LiftUp. LiftUp cannot be performed when the Level Snr should detect LiftUp.	008-001, 008-059
008-003	#2Feed Motor (Fwd)	Feed (Turn #2Feed Motor On in paper feed direction at 192mm/sec.)	008-004, 008-060
008-004	#2Feed Motor (Rev)	It switches OFF automatically 6sec after LiftUp has started, or when the Level Snr detected LiftUp. LiftUp cannot be performed when the Level Snr should detect LiftUp.	008-003
008-005	#3Feed Motor (Fwd)	Feed (Turn #3Feed Motor On in paper feed direction at 192mm/sec.)	008-006, 008-061
008-006	#3Feed Motor (Rev)	It switches OFF automatically 6sec after LiftUp has started, or when the Level Snr detected LiftUp. LiftUp cannot be performed when the Level Snr should detect LiftUp.	008-005,
008-007	#4Feed Motor (Fwd)	Feed (Turn #4Feed Motor On in paper feed direction at 192mm/sec.)	008-008, 008-062
008-008	#4Feed Motor (Rev)	It switches OFF automatically 6sec after LiftUp has started, or when the Level Snr detected LiftUp. LiftUp cannot be performed when the Level Snr should detect LiftUp.	008-007
008-009	Dup Motor (200.1mm/sec.)	Start operation. Switches OFF automatically at 1000msec.	008-010, 011, 012, 053, 054, 055, 056
008-010	Dup Motor (104mm/sec.)	Start operation. Switches OFF automatically at 1000msec.	008-009, 011, 012, 053, 054, 055, 056
008-011	Dup Motor (200.1mm/sec.) Long		008-009, 010, 012, 053, 054, 055, 056
008-012	Dup Motor (104mm/sec.) Long		008-009, 010,011, 053, 054, 055, 056
008-021	3TM TA Motor (52mm/sec.)	Start operation. Switches OFF automatically at 1000msec.	008-022,023,207,065,208,209,025,026,027,210,066,211,212

Table 2 Output Component Control Codes

Code	Name	Description	Conflicts
008-022	3TM TA Motor (104mm/sec.)	Start operation. Switches OFF automatically at 1000msec.	008-021,023,207,065,208,209,025,026,027,210,066,211,212
008-023	3TM TA Motor (192mm/sec.)	Start operation. Switches OFF automatically at 1000msec.	008-021,022,207,065,208,209,025,026,027,210,066,211,212
008-025	3TM TA Motor (52mm/sec.) Long		008-021,022,023,207,065,208,209,026,027,210,066,211,212
008-026	3TM TA Motor (104mm/sec.) Long		008-021,022,023,207,065,208,209,025,027,210,066,211,212
008-027	3TM TA Motor (192mm/sec.) Long		008-021,022,023,207,065,208,209,025,026,210,066,211,212
008-029	TTM TA Motor (52mm/sec.)	Start operation. Switches OFF automatically at 1000msec.	008-030,031,213,067,214,215,033,034,035,216,068,217,218
008-030	TTM TA Motor (104mm/sec.)	Start operation. Switches OFF automatically at 1000msec.	008-029,031,213,067,214,215,033,034,035,216,068,217,218
008-031	TTM TA Motor (192mm/sec.)	Start operation. Switches OFF automatically at 1000msec.	008-029,030,213,067,214,215,033,034,035,216,068,217,218
008-033	TTM TA Motor (52mm/sec.) Long		008-029,030,031,213,067,214,215,034,035,216,068,217,218

Table 2 Output Component Control Codes

Code	Name	Description	Conflicts
008-034	TTM TA Motor (104mm/sec.) Long		008-029,030,031,213,067,214,215,033,035,216,068,217,218
008-035	TTM TA Motor (192mm/sec.) Long		008-029,030,031,213,067,214,215,033,034,216,068,217,218
008-037	Regi Clutch	Switches on. Switches off automatically at 400msec.	008-038
008-038	Regi Clutch Long	Switches on for a longer period of time	008-037
008-040	Invert Clutch CW Long	Switches on in output direction for a longer period of time.	008-041, 008-042, 008-043
008-041	Invert Clutch CCW Long	Switches on in the invert direction for a longer period of time.	008-040, 008-042, 008-043
008-042	Invert Clutch CW	Switches on in output direction. Switches OFF automatically at 400msec.	008-040, 008-041, 008-043
008-043	Invert Clutch CCW	Switches on in Invert direction. Switches OFF automatically at 400msec.	008-040, 008-041, 008-043
008-045	Exit Gate Solenoid1	On for 200ms	None
008-046	Dup Gate Solenoid	Face Up On for 200ms	None
008-049	MOB2LED_CHNG	MOB SNR2 LED Light quantity switching signal, Light quantity UP (increase voltage) at PORT H. ON = ANA Output LED2 Light quantity UP	None
008-050	MOB2LED_ON	MOB SNR2 LED ON. ON = ANA output	None
008-051	MOB1LED_CHNG	MOB SNR1 LED Light quantity switching signal, Light quantity UP (increase voltage) at PORT H. ON = ANA Output LED1 Light quantity UP	None
008-052	MOB1LED_ON	MOB SNR1 LED ON. ON = ANA output	None
008-053	Dup Motor (302mm/sec.)	Start operation. Switches OFF automatically at 1000msec.	008-009,010,011,012,054,055,056
008-054	Dup Motor (302mm/sec.)	Start operation. Switches OFF automatically at 1000msec.	008-009,010,011,012,053,055,056
008-059	#1 Feed Motor (FWD) 194 mm/sec	Feed in paper feed direction at 195.476mm/sec	008-001, 008-002

Table 2 Output Component Control Codes

Code	Name	Description	Conflicts
008-060	#2 Feed Motor runs (FWD) at 165 mm/sec	Feed in paper feed direction at 165 mm/sec. Switches OFF automatically at 1000msec.	008-003, 008-004
008-061	#3 Feed Motor (FWD) 165 mm/sec	Feed in paper feed direction at 165 mm/sec. Switches OFF automatically at 1000msec.	008-005, 008-006
008-062	#4 Feed Motor (FWD) 165 mm/sec	Feed in paper feed direction at 165 mm/sec. Switches OFF automatically at 1000msec.	008-007, 008-008
008-063	1TM TA Motor#1(165mm/sec)	Start operation. Switches OFF automatically at 1000msec.	008-013,014,015,201,202,203,017,018,019,204,064,205,206
008-064	1TM TA Motor#1(165mm/sec) Long	Start operation.	008-013,014,015,201,202,203,017,018,019,204,063,205,206
008-065	3TM TA Motor#1(165mm/sec)	Start operation. Switches OFF automatically at 1000msec.	008-021,022,023,207,208,209,025,026,027,210,066,211,212
008-066	3TM TA Motor#1(165mm/sec) Long	Start operation.	008-021,022,023,207,208,209,025,026,027,210,065,211,212
008-067	TTM TA Motor#1(165mm/sec)	Start operation. Switches OFF automatically at 1000msec.	008-029,030,031,213,214,215,033,034,035,216,068,217,218
008-068	TTM TA Motor#1(165mm/sec) Long	Start operation.	008-029,030,031,213,214,215,033,034,035,216,067,217,218
008-069	Dup Motor (373mm/sec.)	Start operation. Switches OFF automatically at 1000msec.	008-010,009,070,053,073,074,012,011,072,071,054,075,076

Table 2 Output Component Control Codes

Code	Name	Description	Conflicts
008-070	Dup Motor (194mm/sec.)	Start operation. Switches OFF automatically at 1000msec.	008-010,009,069,053,073,074,012,011,072,071,054,075,076
008-071	Dup Motor (373mm/sec.) Long	Start operation.	008-010,009,069,053,073,074,012,011,070,072,054,075,076
008-072	Dup Motor (194mm/sec.) Long	Start operation.	008-010,009,069,053,073,074,012,011,070,071,054,075,076
008-073	Dup Motor (400mm/sec.)	Start operation. Switches OFF automatically at 1000msec.	008-010,009,069,053,074,012,011,070,071,072,054,075,076
008-074	Dup Motor (208mm/sec.)	Start operation. Switches OFF automatically at 1000msec.	008-010,009,069,053,073,012,011,070,071,072,054,075,076
008-075	Dup Motor (400mm/sec.) Long	Start operation	008-010,009,069,053,073,074,012,011,070,071,072,054,076
008-076	Dup Motor (208mm/sec.) Long	Start operation.	008-010,009,069,053,073,074,012,011,070,071,072,054,075
008-077	#1TM TA Motor (400mm/sec)	Start operation. Switches OFF automatically at 1000msec.	008-078~096,221,224
008-078	#1TM TA Motor (400mm/sec) Long	Start operation.	008-077~096,221,224 (exclude 078,095,096)
008-079	#1TM TA Motor (315mm/sec)	Start operation. Switches OFF automatically at 1000msec.	008-077~096,221,222,223, 224 (exclude 088, 079, 090)

Table 2 Output Component Control Codes

Code	Name	Description	Conflicts
008-080	#1TM TA Motor(315mm/sec) Long	Start operation.	008-077~096,221~224 (exclude 088,080, 090)
008-081	#1TM TA Motor (279mm/sec)	Start operation. Switches OFF automatically at 1000msec.	008-077~096,221~224 (exclude 088,081, 090)
008-082	#1TM TA Motor (279mm/sec) Long	Start operation.	008-077~096,221~224 (exclude 088, 082, 090)
008-083	#1TM TA Motor (250mm/sec)	Start operation. Switches OFF automatically at 1000msec.	008-077~096,221~224 (exclude 088,083, 090)
008-084	#1TM TA Motor (279mm/sec) Long	Start operation.	008-077~096,221~224 (exclude 088,084, 090)
008-085	#1TM TA Motor (227mm/sec)	Start operation. Switches OFF automatically at 1000msec.	008-077~096,221~224 (exclude 088,085, 090)
008-086	#1TM TA Motor (227mm/sec) Long	Start operation.	008-077~096,221~224 (exclude 088,086, 090)
008-087	#1TM TA Motor (208mm/sec)	Start operation. Switches OFF automatically at 1000msec.	008-077~096,221, 224 (087)
008-088	#1TM TA Motor (208mm/sec) Long	Start operation.	008-077~096,221, 224,(exclude 088,085,083,081,079,086,084,082,080)
008-089	#1TM TA Motor (194mm/sec)	Start operation. Switches OFF automatically at 1000msec.	008-077~096,221224 (exclude 089)
008-090	#1TM TA Motor (194mm/sec) Long	Start operation.	008-077~096,221224 (exclude 090)

Table 2 Output Component Control Codes

Code	Name	Description	Conflicts
008-091	#1TM TA Motor (104mm/sec)	Start operation. Switches OFF automatically at 1000msec.	008-077~096,221224 (exclude 091)
008-092	#1TM TA Motor (104mm/sec) Long	Start operation.	008-077~096,221224 (exclude 092)
008-093	#1TM TA Motor (52mm/sec)	Start operation. Switches OFF automatically at 1000msec.	008-077~096,221224 (exclude 093)
008-094	#1TM TA Motor (52mm/sec) Long	Start operation.	008-077~096,221224 (exclude 094)
008-201	1TM TA Motor#1(400mm/sec)	Start operation. Switches OFF automatically at 1000msec.	008-013,014,015,063,202,203,017,018,019,204,064,205,206
008-202	1TM TA Motor#1(208mm/sec)	Start operation. Switches OFF automatically at 1000msec.	008-013,014,015,063,201,203,017,018,019,204,064,205,206
008-203	1TM TA Motor#1(300mm/sec)	Start operation. Switches OFF automatically at 1000msec.	008-013,014,015,063,201,202,017,018,019,204,064,205,206
008-204	1TM TA Motor#1(400mm/sec) Long	Start operation	008-013,014,015,063,201,202,203,017,018,019,064,205,206
008-205	1TM TA Motor#1(208mm/sec) Long	Start operation	008-013,014,015,063,201,202,203,017,018,019,064,206
008-206	1TM TA Motor#1(300mm/sec) Long	Start operation	008-013,014,015,063,201,202,203,017,018,019,064,205

Table 2 Output Component Control Codes

Code	Name	Description	Conflicts
008-207	3TM TA Motor#1(400mm/sec)	Start operation. Switches OFF automatically at 1000msec.	008-021,022,023,065,208,209,025,026,027,210,066,211,212
008-208	3TM TA Motor#1(208mm/sec)	Start operation. Switches OFF automatically at 1000msec.	008-021,022,023,065,207,209,025,026,027,210,066,211,212
008-209	3TM TA Motor#1(300mm/sec)	Start operation. Switches OFF automatically at 1000msec.	008-021,022,023,065,207,208,025,026,027,210,066,211,212
008-210	3TM TA Motor#1(400mm/sec) Long	Start operation.	008-021,022,023,207,065,208,209,025,026,027,066,211,212
008-211	3TM TA Motor#1(208mm/sec) Long	Start operation.	008-021,022,023,207,065,208,209,025,026,027,066,210,212
008-212	3TM TA Motor#1(300mm/sec) Long	Start operation.	008-021,022,023,207,065,208,209,025,026,027,066,211
008-213	TTM TA Motor#1(400mm/sec)	Start operation. Switches OFF automatically at 1000msec.	008-029,030,031,067,214,215,033,034,035,216,068,217,218
008-214	TTM TA Motor#1(208mm/sec)	Start operation. Switches OFF automatically at 1000msec.	008-029,030,031,067,213,215,033,034,035,216,068,217,218
008-215	TTM TA Motor#1(300mm/sec)	Start operation. Switches OFF automatically at 1000msec.	008-029,030,031,067,213,214,033,034,035,216,068,217,218

Table 2 Output Component Control Codes

Code	Name	Description	Conflicts
008-216	TTM TA Motor#1(400mm/sec) Long	Start operation.	008-029,030,031,067,213,214,033,034,035,215,068,217,218
008-217	TTM TA Motor#1(208mm/sec) Long	Start operation.	008-029,030,031,067,213,214,033,034,035,216,068,215,218
008-218	TTM TA Motor#1(300mm/sec) Long	Start operation.	008-029,030,031,067,213,214,215,033,034,035,216,068,217
008-219	TTM TA Motor#2(370mm/sec)	Start operation. Switches OFF automatically at 1000msec.	008-220
008-220	TTM TA Motor#2(370mm/sec) Long	Start operation.	008-219
009-001	#Y_Disp MOT	Y Color Disp. MOT turns ON, and switches OFF automatically after 5sec.	-
009-002	#M_Disp MOT	M Color Disp. MOT turns ON, and switches OFF automatically after 5sec.	-
009-003	#C_Disp MOT	C Color Disp. MOT turns ON, and switches OFF automatically after 5sec.	-
009-004	#K_Disp MOT	K Color Disp. MOT turns ON, and switches OFF automatically after 5sec.	-
009-005	#Y_DB DC	Y Color Developer Bias DC Component Output	-
009-006	#M_DB DC	M Color Developer Bias DC Component Output	-
009-007	#C_DB DC	C Color Developer Bias DC Component Output	-
009-008	#K_DB DC	K Color Developer Bias DC Component Output	-
009-009	#YM_DB AC	YM Color Developer Bias AC Component Output	-
009-012	#CK_DB AC	CK Color Developer Bias AC Component Output	-
009-013	Dev_CL	The clutch for driving K Color turns ON, and switches OFF automatically after 5 sec.	-

Table 2 Output Component Control Codes

Code	Name	Description	Conflicts
009-014	Dev_MOT Normal-speed	Switches off automatically after 5 sec.	009-016,-017
009-016	Dev_MOT Half-speed	Switches off automatically after 5sec.	009-014, -017
009-017	Dev_MOT High-speed	Switches off automatically after 5sec.	009-016, -017
009-018	Dev bias AC enable	Switch on before starting BCR DC for each color.	
009-026	#Y_BCR DC	High voltage output value of BCR DC_Y. ON = PWM	009-030
009-027	#M_BCR DC	High voltage output value of BCR DC_M. ON = PWM	009-031
009-028	#C_BCR DC	High voltage output value of BCR DC_C. ON = PWM	009-032
009-029	#K_BCR DC	High voltage output value of BCR DC_K. ON = PWM	9-33
009-030	#Y_BCR AC	High voltage output value of BCR AC_Y. ON = PWM	009-026
009-031	#M_BCR AC	High voltage output value of BCR AC_M	009-027
009-032	#C_BCR AC	High voltage output value of BCR AC_C	009-028
009-033	#K_BCR AC	High voltage output value of BCR AC_K	009-029
009-034	AGT MOT	Agitator MOT ON	
009-035	CRUM PWR	Power ON for CRUM-YMCK	
009-037	Dev DC chg (K)		
009-038	BCR ACDC K CHG	DEVE_AC_K changes at connector terminals trailing.	
009-039	BCRAC Clock	Frequency signal common to BCR AC All Colors.	
009-040	ROS Shutter Close	ROS Shutter: Rotates in Close direction (Brush: Contact direction).	009-041
009-041	ROS Shutter Open	ROS Shutter: Rotates in Open direction (Brush: Retract direction). ON = H	009-040
009-042	#K_Erase Lamp (104mm/sec)	K ERASE LAMP lit.	009-043,009-044
009-043	#K_Erase Lamp (52mm/sec)	K ERASE LAMP lit.	009-042,009-044
009-044	#K_Erase Lamp (194mm/sec)	K ERASE LAMP lit.	009-042,009-043
009-045	#YMC_Erase Lamp (104mm/sec)	YMC ERASE LAMP lit.	009-046
009-046	#YMC_Erase Lamp (52mm/sec)	YMC ERASE LAMP lit.	009-045
009-047	ROS Shutter Close	ROS Shutter Start Opening (Brush in retract direction)	009-040, 009-041, 009-048

Table 2 Output Component Control Codes

Code	Name	Description	Conflicts
009-048	ROS Shutter Open	ROS Shutter Start Closing (Brush in contact direction)	009-040, 009-041, 009-047
009-051	2nd BTR Contact	BTR2 Retract MOT. Switches off 800ms after the Retract SNR detected the Contact Position (High).	-
009-052	2nd BTR Retract	Switches off 60ms after the Retract SNR detected the Retract Position (Low).	-
009-053	De Tack Saw HV	Turn on DTS HV.	-
009-054	1st BTR Contact	Switches off 100ms after the Retract SNR detected the Contact Position (High).	-
009-055	1st BTR Retract	Switches off 100ms after the Retract SNR detected the Retract Position (Low).	-
009-056	2nd BTR Select	selects polarity of bias voltage	-
009-076	Specular reflection LED	When the Specular Reflection LED of ADC SNR turns ON and YMC density is detected.	-
009-077	Diffusion reflection LED	When the Diffusion Reflection LED of ADC SNR turns ON and K density is detected.	-
009-078	ADC Sensor Shutter Open	Switches off automatically after 100msec.	009-079
009-079	ADC Sensor Shutter Close	Switches off automatically after 100msec.	009-078
009-080	ATC Sensor 5V ON	5V Power supply to ATC SNR.	-
010-001	OCT Motor (CW)	Switches on forward and switches off automatically at 150msec.	010-002
010-002	OCT Motor (CCW)	Switches on reverse and switches off automatically at 150msec.	010-001
012-001	Main Drive Motor On/Off		012-071
012-010	Rear Tamper Motor Low Front On/Off	Switches off automatically after 100pulses.	012-011, 012-012, 012-013, 012-014, 012-015
012-011	Rear Tamper Motor Middle Front On/Off	Switches off automatically after 100pulses.	012-010, 012-012, 012-013, 012-014, 012-015
012-012	Rear Tamper Motor High Front On/Off	Switches off automatically after 100pulses.	012-010, 012-011, 012-013, 012-014, 012-015
012-013	Rear Tamper Motor Low Rear On/Off	Switches off automatically after 100pulses.	012-010, 012-011, 012-012, 012-014, 012-015

Table 2 Output Component Control Codes

Code	Name	Description	Conflicts
012-014	Rear Tamper Motor Middle Rear On/Off	Switches off automatically after 100pulses.	012-010, 012-011, 012-012, 012-013, 012-015
012-015	Rear Tamper Motor High Rear On/Off	Switches off automatically after 100pulses.	012-010, 012-011, 012-012, 012-013, 012-014
012-020	Staple Motor Close On/Off	Stops at Home Position.	012-021
012-021	Stapler Motor Reverse	Switches off automatically after 110msec.	012-020
012-030	Eject Motor FORWARD On/Off	Switches off automatically after 2000pulses.	012-031, 012-032, 012-033, 012-034, 012-041
012-031	Eject Motor Reverse On/Off	Switches off automatically after 2000pulses.	012-030, 012-032, 012-033, 012-034, 012-04
012-032	Eject Clamp Low Down	Switches off automatically at 702pulses after the Eject Home Snr detected Home Position.	012-030, 012-031, 012-033, 012-034, 012-041
012-033	Eject Clamp Middle Down	Switches off automatically at 365pulses after the Eject Home Snr detected Home Position.	012-030, 012-031, 012-032, 012-034, 012-041
012-034	Eject Clamp UP	Switches off automatically at 46pulses after the Eject Home Snr detected Home Position.	012-030, 012-031, 012-032, 012-033, 012-041
012-040	Set Clamp Paddle Solenoid	Switches off automatically after 1000msec.	012-041
012-041	Set Clamp Paddle Rev	Switches off automatically at Mot: 583 pulses and Sol: 200msec.	012-030, 012-031, 012-032, 012-033, 012-034, 012-040
012-050	Stacker Motor UP On/Off	Switches off automatically after 500msec, or if tray upper limit sensor detected.	012-051
012-051	Stacker Motor Down On/Off		012-050
012-060	H-Tra Gate In Solenoid Open	Switches off automatically after 200msec.	012-061
012-061	H-Tra Gate In Solenoid Close	Switches off automatically after 200msec.	012-060

Table 2 Output Component Control Codes

Code	Name	Description	Conflicts
012-070	Decurler Cam Clutch On	Switches off automatically after 1000msec.	012-071
012-071	Decurler Penetration Change	Switches off automatically after the Decurler Home Snr detected On. (Stops when the Home Snr detected ON -> off or off -> ON by turning ON Decurler Cam Clutch 500ms after driving the Main Drive Motor.)	012-01, 012-070
012-080	Stapler Move Motor High Front On/Off	Switches off automatically at 250pulses.	012-081, 012-082, 012-083
012-081	Stapler Move Motor Low Font On/Off	Switches off automatically at 250pulses.	012-080, 012-082, 012-083
012-082	Stapler Move Motor High Rear On/Off	Switches off automatically at 250pulses.	012-080, 012-081, 012-083
012-083	Stapler Move Motor Low Rear On/Off	Switches off automatically at 250pulses.	012-080, 012-081, 012-082
012-091	Front Tamper Motor Low Front On/Off	Switches off automatically at 100pulses.	012-092, 012-093, 012-094, 012-095, 012-096
012-092	Front Tamper Motor Middle Front On/Off	Switches off automatically at 100pulses.	012-091, 012-093, 012-094, 012-095, 012-096
012-093	Front Tamper Motor High Front On/Off	Switches off automatically at 100pulses.	012-091, 012-092, 012-094, 012-095, 012-096
012-094	Front Tamper Motor Low Rear On/Off	Switches off automatically at 100pulses.	012-091, 012-092, 012-093, 012-095, 012-096
012-095	Front Tamper Motor Middle Rear On/Off	Switches off automatically at 100pulses.	012-091, 012-092, 012-093, 012-094, 012-096
012-096	Front Tamper Motor High Rear On/Off	Switches off automatically at 100pulses.	012-091, 012-092, 012-093, 012-094, 012-095
013-008	Booklet Folder Roll Mot Forward ON/OFF	Booklet Folder Roll Mot operates forward.	013-009
013-009	Booklet Folder Roll Mot Reverse ON/OFF	Booklet Folder Roll Mot operates in reverse.	013-008

Table 2 Output Component Control Codes

Code	Name	Description	Conflicts
013-010	Booklet Knife Flapper Sol.	Booklet Knife Flapper Sol ON/OFF.	
013-011	Booklet Endguide Mot Low Down	Booklet Endguide down at 450 pulses per second	014-054,014-055,014-056,014-057,013-013,013-014,013-016
013-013	Booklet Endguide Mot High Down	Booklet Endguide down at 1002 pulses per second	014-054,014-055,014-056,014-057,013-011,013-014,013-016
013-014	Booklet Endguide Mot Low Up	Booklet Endguide up at 450 pulses per second	014-054,014-055,014-056,014-057,013-011,013-013,013-016
013-016	Booklet Endguide Mot High Up	Booklet Endguide up at 1002 pulses per second	014-054,014-055,014-056,014-057,013-011,013-013,013-014
013-017	Booklet Staple On	Actuates Booklet Stapler	
013-020	Tray Belt Drive Motor ON/OFF	Operates Booklet Output Tray Belt	
013-021	Booklet Paddle Motor ON/OFF	Operates Booklet Paddle Motor	
013-048	Booklet Tamper Motor F Rear ON/OFF 1	Booklet Tamper F Front (Tamping) at 985PPS	014-020,014-021,014-022,014-023,014-024,014-025,013-049,013-050,013-051,013-052,013-053,013-054,013-055

Table 2 Output Component Control Codes

Code	Name	Description	Conflicts
013-049	Booklet Tamper Motor F Rear ON/ OFF 2	Booklet Tamper F Front (Tamping) at 645PPS	014-020,014-021,014-022,014-023,014-024,014-025,013-048,013-050,013-051,013-052,013-053,013-054,013-055
013-050	Booklet Tamper Motor F Rear ON/ OFF 3	Booklet Tamper F Front (Tamping) at 465PPS	014-020,014-021,014-022,014-023,014-024,014-025,013-048,013-049,013-051,013-052,013-053,013-054,013-055
013-051	Booklet Tamper Motor F Rear ON/ OFF 4	Booklet Tamper F Front (Tamping) at 235PPS	014-020,014-021,014-022,014-023,014-024,014-025,013-048,013-049,013-050,013-052,013-053,013-054,013-055
013-052	Booklet Tamper Motor F Front ON/ OFF 1	Booklet Tamper F Rear (Tamping) at 985PPS	014-020,014-021,014-022,014-023,014-024,014-025,013-048,013-049,013-050,013-051,013-053,013-054,013-055

Table 2 Output Component Control Codes

Code	Name	Description	Conflicts
013-053	Booklet Tamper Motor F Front ON/ OFF 2	Booklet Tamper F Rear at (Tamping) 645PPS	014-020,014-021,014-022,014-023,014-024,014-025,013-048,013-049,013-050,013-051,013-052,013-054,013-055
013-054	Booklet Tamper Motor F Front ON/ OFF 3	Booklet Tamper F Rear (Tamping) at 465PPS	014-020,014-021,014-022,014-023,014-024,014-025,013-048,013-049,013-050,013-051,013-053,013-052,013-055
013-055	Booklet Tamper Motor F Front ON/ OFF 4	Booklet Tamper F Rear (Tamping) at 2235PPS	014-020,014-021,014-022,014-023,014-024,014-025,013-048,013-049,013-050,013-051,013-053,013-054,013-052
013-056	Booklet Tamper Motor R Front 1 ON/OFF	Booklet Tamper F Front (Tamping) at 985PPS	014-026,014-027,014-028,014-029,014-030,014-031,013-057,013-058,013-059,013-060,013-061,013-062,013-063

Table 2 Output Component Control Codes

Code	Name	Description	Conflicts
013-057	Booklet Tamper Motor R Front 2 ON/OFF	Booklet Tamper F Front (Tamping) at 645PPS	014-026,014-027,014-028,014-029,014-030,014-031,013-056,013-058,013-059,013-060,013-061,013-062,013-063
013-058	Booklet Tamper Motor R Front 3 ON/OFF	Booklet Tamper F Front (Tamping) at 465PPS	014-026,014-027,014-028,014-029,014-030,014-031,013-056,013-057,013-059,013-060,013-061,013-062,013-063
013-059	Booklet Tamper Motor R Front 4 ON/OFF	Booklet Tamper F Front (Tamping) at 235PPS	014-026,014-027,014-028,014-029,014-030,014-031,013-056,013-057,013-058,013-060,013-061,013-062,013-063
013-060	Booklet Tamper Motor R Rear 1 ON/OFF	Booklet Tamper Rear (Home) at 985PPS	014-026,014-027,014-028,014-029,014-030,014-031,013-056,013-057,013-058,013-059,013-061,013-062,013-063

Table 2 Output Component Control Codes

Code	Name	Description	Conflicts
013-061	Booklet Tamper Motor R Rear 2 ON/OFF	Booklet Tamper Rear (Home) at 645PPS	014-026,014-027,014-028,014-029,014-030,014-031,013-056,013-057,013-058,013-059,013-060,013-062,013-063
013-062	Booklet Tamper Motor R Rear 3 ON/OFF	Booklet Tamper Rear (Home) at 465PPS	014-026,014-027,014-028,014-029,014-030,014-031,013-056,013-057,013-058,013-059,013-060,013-061,013-063
013-063	Booklet Tamper Motor R Rear 4 ON/OFF	Booklet Tamper Rear (Home) at 2385PPS	014-026,014-027,014-028,014-029,014-030,014-031,013-056,013-057,013-058,013-059,013-060,013-061,013-062
013-064	Booklet Paper Path Motor 1 ON/OFF	Booklet In Roll at 350mm/sec	013-065,013-066,013-067
013-065	Booklet Paper Path Motor 2 ON/OFF	Booklet In Roll at 277mm/sec	013-064,013-066,013-067
013-066	Booklet Paper Path Motor 3 ON/OFF	Booklet In Roll at 250mm/sec	013-064,013-065,013-067
013-067	Booklet Paper Path Motor 4 ON/OFF	Booklet In Roll at 50mm/sec	013-064,013-065,013-066
013-068	Booklet Gate Sol Stacker	Booklet Gate to Stacker	013-069

Table 2 Output Component Control Codes

Code	Name	Description	Conflicts
013-069	Booklet Gate Sol Booklet	Booklet Gate to Booklet	013-068
014-001	Fin Transport Motor 1Speed ON/OFF	Fin Transport Motor Speed 1	014-002,014-005,014-009
014-002	Fin Transport Motor 2Speed ON/OFF	Fin Transport Motor Speed 2	014-001,014-003,014-004,014-006,014-007,014-008,014-010
014-003	Regi Motor 285F ON/OFF	Regi Motor 285mm/sec	014-002,014-004,014-005,014-006,014-00
014-004	Regi Motor 350F ON/OFF	Regi Motor 350Fmm/sec	014-002,014-003,014-005,014-006,014-009
014-006	Regi Motor 285R ON/OFF	Regi Motor 285mm/sec	014-002,014-003,014-004,014-005,014-009
014-007	Exit Motor 285F ON/OFF	Exit Motor 285mm/sec	014-002,014-005,014-008,014-009,014-010
014-008	Exit Motor 3505F ON/OFF	Exit Motor 350mm/sec	014-002,014-005,014-007,014-009,014-010
014-010	Exit Motor 285R ON/OFF	Exit Motor Reverse 285mm/sec	014-002,014-005,014-007,014-008,014-009
014-011	Transport Gate Solenoid Adopter	Transport Gate Top Path	014-012
014-012	Transport Gate Solenoid Stacker	Transport Gate Stacker Path	014-011
014-013	Sub Paddle Solenoid ON/OFF	Sub Paddle	
014-015	Buffer Gate SOL STK	Buffer Gate Stacker Path	014-016
014-016	Buffer Gate SOL BUF	Buffer Gate Buffer Path	014-015

Table 2 Output Component Control Codes

Code	Name	Description	Conflicts
014-020	Front Tamper Mot Low FRONT ON/OFF	Front Tamper Front Low	014-021,014-022,014-023,014-024,014-025,013-048,013-049,013-050,013-051,013-052,013-053,013-054,013-055
014-021	Front Tamper Mot Middle FRONT ON/OFF	Front Tamper Front Middle	014-020,014-022,014-023,014-024,014-025,013-048,013-049,013-050,013-051,013-052,013-053,013-054,013-055
014-022	Front Tamper Mot High FRONT ON/OFF	Front Tamper Front High	014-020,014-021,014-023,014-024,014-025,013-048,013-049,013-050,013-051,013-052,013-053,013-054,013-055
014-023	Front Tamper Motor Low Rear ON/OFF	Front Tamper Low Rear	014-020,014-021,014-022,014-024,014-025,013-048,013-049,013-050,013-051,013-052,013-053,013-054,013-055

Table 2 Output Component Control Codes

Code	Name	Description	Conflicts
014-024	Front Tamper Motor Middle Rear ON/OFF	Front Tamper Middle Rear	014-020,014-021,014-022,014-023,014-025,013-048,013-049,013-050,013-051,013-052,013-053,013-054,013-055
014-025	Front Tamper Motor High Rear ON/OFF	Front Tamper High Rear	014-020,014-021,014-022,014-023,014-024,013-048,013-049,013-050,013-051,013-052,013-053,013-054,013-055
014-026	Rear Tamper Motor Low Front ON/OFF	Rear Tamper Low Front	014-027,014-028,014-029,014-030,014-031,013-056,013-057,013-058,013-059,013-060,013-061,013-062,013-063
014-027	Rear Tamper Motor Middle Front ON/OFF	Rear Tamper Middle Front	014-026,014-028,014-029,014-030,014-031,013-056,013-057,013-058,013-059,013-060,013-061,013-062,013-063

Table 2 Output Component Control Codes

Code	Name	Description	Conflicts
014-028	Rear Tamper Motor High Front ON/OFF	Rear Tamper High Front	014-026,014-027,014-029,014-030,014-031,013-056,013-057,013-058,013-059,013-060,013-061,013-062,013-063
014-029	Rear Tamper Motor Low Rear ON/OFF	Rear Tamper Low Rear	014-026,014-027,014-028,014-030,014-031,013-056,013-057,013-058,013-059,013-060,013-061,013-062,013-063
014-030	Rear Tamper Motor Middle Rear ON/OFF	Rear Tamper Middle Rear	014-026,014-027,014-028,014-029,014-031,013-056,013-057,013-058,013-059,013-060,013-061,013-062,013-063
014-031	Rear Tamper Motor Low Rear ON/OFF	Rear Tamper High Rear	014-026,014-027,014-028,014-029,014-030,013-056,013-057,013-058,013-059,013-060,013-061,013-062,013-063

Table 2 Output Component Control Codes

Code	Name	Description	Conflicts
014-041	Stapler Move Mot Middle FRONT ON/OFF	Stapler Move Middle FRONT	014-042,014-044,014-045
014-042	Stapler Move Mot High FRONT ON/OFF	Stapler Move High FRONT	014-041,014-044,014-04
014-044	Stapler Move Mot Middle Rear ON/OFF	Stapler Move Middle Rear	014-041,014-042,014-045
014-045	Stapler Move Mot High Rear ON/OFF	Stapler Move High Rear	014-041,014-042,014-044
014-046	Staple Motor FORWARD ON/OFF	Staple Motor FORWARD	014-047
014-047	Staple Motor REVERSE ON/OFF	Staple Motor REVERSE	014-04
014-050	Set Clamp Clutch ON/OFF	Set Clamp Paddle	
014-052	Eject Clamp Motor UP ON/OFF	Eject Clamp Roll Up	014-053
014-053	Eject Clamp Motor DOWN ON/OFF	Eject Clamp Roll Down	014-052
014-054	Eject Motor Low Forward ON/OFF	Eject Motor Forward Low	014-055,014-056,014-057,013-011,013-013,013-014,013-016
014-055	Eject Motor High Forward ON/OFF	Eject Motor Forward High	014-054,014-056,014-057,013-011,013-013,013-014,013-016
014-056	Eject Motor Low Reverse ON/OFF	Eject Motor Reverse Low	014-054,014-055,014-057,013-011,013-013,013-014,013-016

Table 2 Output Component Control Codes

Code	Name	Description	Conflicts
014-057	Eject Motor High Reverse ON/OFF	Eject Motor Reverse High	014-054,014-055,014-056,013-011,013-013,013-014,013-016
014-060	Stacker Motor UP ON/OFF	Stacker Tray UP	014-061
014-061	Stacker Motor DOWN ON/OFF	Stacker Tray Down	014-060
014-070	Puncher Move Motor Low FRONT ON/OFF	Puncher Move Low FRONT	014-071,014-072,014-073
014-071	Puncher Move Motor High FRONT ON/OFF	Puncher Move High FRONT	014-070,014-072,014-073
014-072	Puncher Move Motor Low REAR ON/OFF	Puncher Move Low REAR	014-070,014-071,014-073
014-073	Puncher Move Motor High REAR ON/OFF	Puncher Move High REAR	014-070,014-071,014-072
014-074	Puncher Mot 2Hole Home Move	2 Hole Puncher Move Home	014-075,014-076,014-077,014-078,014-079
014-075	Puncher Mot 3Hole Home Move	3 Hole Puncher Move Home	014-074.014-076,014-077,014-078,014-079
014-076	Puncher Mot 4Hole Home Move	4 Hole Puncher Move Home	014-074.014-075,014-077,014-078,014-079
014-077	Punch (2Hole)	Punch 2 Hole	014-074.014-075,014-076,014-078,014-079
014-078	Punch (3Hole)	Punch 3 Hole	014-074.014-075,014-076,014-077,014-079
014-079	Punch (4Hole)	Punch 4 Hole	014-074.014-075,014-076,014-077,014-078

Table 2 Output Component Control Codes

Code	Name	Description	Conflicts
014-086	H-Xport In Gate Solenoid SUB	H-Tra InGate Sub Tray Path - 200ms	014-087
014-087	H-Xport In Gate Solenoid FIN	H-Tra InGate H-Tra Path - 200ms	014-086
014-088	H-Xport Tray Nip Solenoid NIP	Sub Tray Exit Roll Nip - 200ms	014-089
014-089	H-Xport Tray Nip Solenoid RELE	Sub Tray Exit Roll Nip Release - 200ms	014-088
014-090	H XPORT Motor 1Speed ON/OFF	HTransport/IF Motor Speed 1	014-091,014-092,014-093,014-094
014-091	H XPORT Motor 2Speed ON/OFF	HTransport/IF Motor Speed 2	014-090,014-092,014-093,014-094
014-092	H XPORT Motor 3Speed ON/OFF	HTransport/IF Motor Speed 3	014-090,014-091,014-093,014-094
014-093	H XPORT Motor 4Speed ON/OFF	HTransport/IF Motor Speed 4	014-090,014-091,014-092,014-094
014-099	Decurler Cam Clutch		
062-002	IIT Exposure Lamp	Turn the Lamp ON for 180sec -> Auto OFF	
062-005	IIT Scan Motor (Scan)	Move it 50mm from current position in Scan direction -> Auto OFF Each has 4 phases. H/L Switching	062-006
062-006	IIT Scan Motor (Return)	Move it 50mm from current position in Return direction -> Auto OFF Each has 4 phases. H/L Switching	062-005
062-086	IIT Image Area	IMAGE-AREA Signal Output (Differential) H	
062-091	Exchange To ADF	Turn ON the document exchange command signal to the DADF	

dC351 NVM Save Restore

Purpose

Provides a method to capture the state of NVM to a file and write NVM file back to the NVM device when desired.

NOTE: *If you are restoring machine settings ensure the "use saved database" checkbox is checked when starting the Software Download NVM tool on the PWS.*

Procedure

1. Connect the PWS and start the Download tool
2. Select the **Adjustments tab** on the Service Entry Screen.
3. Select the **NVM tab**.
4. Select **Save/Restore (DC351)**.
5. Select **All NVM** or **IOT Critical NVM**.
6. Select **Start**.
7. If saving NVM, go to step 8.
   If restoring NVM go to step 9.
8. Select **Save** to save NVM.
   a. The name can be changed in the **File Name** window.
   b. The location the file is saved in can be changed in **Save In** window by clicking the arrow button and pulling down alternate locations. The file can also be saved on diskette inserted into a: drive.
   c. Select **Save** and the file is saved.
9. Select **Restore** to restore NVM.
   a. In **File View** window select file containing NVM restore data, or navigate to location of file with NVM Restore data. Select file
   b. Select **OK**. NVM will be restored from NVM restore data file.

Regi-con Measurement Cycle

Purpose

NOTE: *For details on Regi-Con Measurement Cycle see adjustment ADJ 9.6*

Regi-con Control Sensor Check Cycle

Purpose

NOTE: *For details on Regi-con Control Sensor Cycle see adjustment ADJ 9.6*

Regi-con Control Setup Cycle

Purpose

NOTE: *For details on Regi-con Control Setup Cycle see adjustment ADJ 9.6*

Color Registration

Purpose

NOTE: *For details on Color Registration, see adjustment ADJ 9.6.*

ATC Sensor Setup

Purpose

NOTE: *For details on ATC Sensor Setup, see adjustment: ADJ 9.2.*

TRC Control

Purpose

NOTE: *For details on TRC Control, see adjustment ADJ 9.3 TRC Control Toner Density Setup.*

TRC Adjust

Purpose

To manually fine adjust the low/medium/high densities (TRC) for each color.

NOTE: *For details on TRC Adjust, see adjustment ADJ 9.5.*

Max Setup

Purpose

NOTE: *For the execution sequence of the Max Setup Functions, see adjustment ADJ 9.1.*

ADC/AGC Setup

Purpose

Automatically adjusts the ADC Sensor Gain.

NOTE: *For details on ADC/AGC Setup, see adjustment ADJ 9.4.*

IIT Calibration

Purpose

Functional details:

- Computes and sets the White Reference Correction Coefficient.
- Corrects the IIT Sensitivity Dispersion.

NOTE: *For details on IIT Calibration, see adjustment ADJ 9.7.*

Belt Edge Learn Mode

Purpose

NOTE: *For details on Belt Edge Learn Mode, see adjustment ADJ 9.6.*

GP 1 Network Printing Simulation

Purpose

This procedure details a method of troubleshooting network printing problems.

Procedure

Prerequisites

The NextGen PWS Tool release includes an LPR Spooler application [Xerox TCP/IP Port Monitor]. This procedure assumes that this application has been installed. Also required are a Crossover Cable and a PWS equipped with a Network Interface Card.

Creating a printer on the PWS

1. Click the Windows **Start** button
2. Select **Settings**, then **Printers**
3. Select **Add Printer**
4. On the **Add Printer Wizard** screen, click **Next**
5. When the **Add Printer Wizard** asks the port you want to use, select LPT1: then click **Next**
6. Click **Have Disk**. Print Drivers can be found on the customer Drivers CD, or the latest driver can also be downloaded from the Xerox website
7. Insert the CD and locate the PCL driver for your PWS' operating system. Click **OK**.
8. On the next screen, enter a name for the printer. Do not set this printer as the default.
9. Select **No** when asked if you want to print a test page, then click **Finish**.

Configuring the printer port

1. In the **Printers** folder, right-click on the new printer and select **Properties**.
2. Click **Add Port**
3. In the Add Port screen, click **Other**, then select **Xerox TCP/IP Port** and click **OK**.
4. Enter the name and IP address for the new printer then click **Next**.
5. Select **Custom**, then **Setup**
6. The port will auto configure. Click **Next**.
7. Click **Finish** to close the Wizard and return to the **Properties** screen.
8. Click Apply to save the port configuration.

Configuring the print driver

1. In the **Properties** screen, select the **Printer** tab. Select the appropriate configuration items.
2. Click **Apply** to save the print driver configuration.
3. A simple test of the printing function can be performed by selecting the **General** tab then clicking **Print Test Page**.

GP 2 System Administration Login Reset

Purpose

The Login ID was changed and needs to be reset to access the System Administration screens. This procedure enables the Login ID to be reset.

NOTE: *Do not change Login ID without customer consent.*

NOTE: *There is now a Log In ID and an optional Passcode. The Passcode is not required. Unless the customer has enabled it, ignore it.*

Procedure (WC 7228/35/45)

1. Enter CE Mode:
   - Hold **0** (zero) for 5 seconds, and press **Start**.
   - Enter 6789, then select **Confirm**.
2. Press the **Log In/Out** button.
3. Select **System Administrator Settings**.
4. Select **System Administrator Login ID**.
5. Select **On**.
6. Select **Keyboard**.
7. Enter the default Log In ID (11111) and select **Save**.
8. Select **Keyboard**, reenter the Log In ID, and select **Save**.
9. Hold the **0** key and press **Start** to exit CE Mode.

Procedure (WC 7328/35/45/46)

1. Enter CE Mode:
   - Hold **0** (zero) for 5 seconds, and press **Start**.
   - Enter 6789, then select **Confirm**.
2. Press the **Machine Status** button.
3. Select the **Tools** tab
4. Select Authentication/Security Settings
5. Select **System Administrator Settings**.
6. Select **System Administrator's Login ID**.
7. Select **On**.
8. Select **Keyboard**.
9. Enter the default Log In ID (11111) and select **Save**.
10. Select **Keyboard**, reenter the Log In ID, and select **Save**.
11. Hold the **0** key and press **Start** to exit CE Mode. If the Customer has enabled passcode, reset to default (x-admin).

GP 3 Saving Machine Data

Purpose

The purpose of this procedure is to use the Save and Restore Tool to Save and Restore NVM values.

Procedure

Save Machine Settings

1. Remove the cover from the USB Diagnostic port.
2. Connect the USB cable to the IOT USB Diagnostic port (on the ESS Controller) and to the PWS laptop.
3. Close all applications, including virus scan and Bus Station.
4. Insert a blank formatted floppy (storage media) in your floppy drive.
5. Ensure that the machine is in the ready to copy mode.
6. On the PWS laptop, open the Software Download Tool.
7. Select dC351 from the DC Quick Dropdown.
8. Select the **Save** button.
9. While the NVM Save and Restore tool is running, the tool will be grayed out.
10. When it is finished backing up the NVM, a message will be displayed indicating the status of the save.
11. After saving the NVM file **exit** the Save and Restore tool. A dialog box will appear click Save to save the file to the default path on your PWS. If you have a floppy drive the file will be saved to the floppy as default. If you don't have a floppy the file will save to the backup folder on the C drive.

Restore Machine Settings

1. Enter CE Mode Entering and exiting CE mode, UI Diagnostics Accessing UI Diagnostics, and NVM Read/Write NVM Read/Write.
2. When the machine is Ready to Copy, select dC351 from the DC Quick Dropdown to run the backup and restore program.
3. Select one of the files that you saved when you saved the NVM's.
4. Press the **Restore** button and wait for the NVM's to be restored.
5. A message will state that the NVM Restore completed.
6. Exit the tool.
7. Disconnect the USB Cable from the IOT and reinstall the cover on the USB Diagnostics port on the machine.
8. Exit from UI Diagnostics and switch Off and On machine power.

GP 4 Intermittent Problem RAP

Purpose

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
   - Packing materials not removed
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 specification.
7. Get technical advice or assistance when it is 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 consumables 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 the recommended next steps.

GP 5 Software Options

Purpose

This customer purchased an option that needs to be enabled.

The following are the software options that are available:

- Scanning (E-Mail, Mailbox, Network, and Twain)
- Security (Disk OverWrite, Digital Watermark)
- Internet Fax (iFAX)
- Job Based Accounting

Procedure

NOTE: *Immediate Image Overwrite causes the machine to operate at a slightly slower speed due to the hard drive processor requiring additional time to map and overwrite specific areas of the hard drive. The speed reduction may not be observable during every print job.*

1. Enter the **UI Diagnostic Mode**. Refer to Entering and exiting CE mode and Accessing UI Diagnostics.
2. Select **Software Options** in the Maintenance / Diagnostics Screen.
3. **Enter the Software Key provided.**
4. Select **Save, then Reboot**.

GP 6 Software Version

Purpose

The purpose of this procedure is to display the version level of the different software modules.

Procedure

1. Press the **Machine Status** button on the Control Panel.
2. Select **Machine Information** on the Machine Status tab. The Controller version, the Machine Configuration Code, and the Serial Number are displayed
3. Select **Software Version**. All the firmware versions are displayed.

GP 7 Software Download

Purpose

The purpose of this procedure is to download software from the PWS to upgrade the machine software versions or to replace a software version that has become defective.

Procedure

Ensure that the Software Download Tool is installed on the PWS (refer to the pullout that is packaged with the software CD). This tool resides on the disk with the system software.

CAUTION

This procedure is generic in nature and is intended only as an overview. Always follow the instructions that come with the software. There may be additional steps or other special requirements that vary from version to version.

Setting up PWS

1. Make a copy of the color test pattern 82E13120 and check for Image Quality problems. Resolve any problems before performing the software loading.
2. Print a copy of the Systems Settings List.
3. Switch off the machine.
4. Disconnect the RJ45 Network Connector to the customer's network.
5. Connect the PWS to the USB 1.1 port on the rear panel (for 72xx machines see Figure 1), (for 73xx machines see Figure 2).

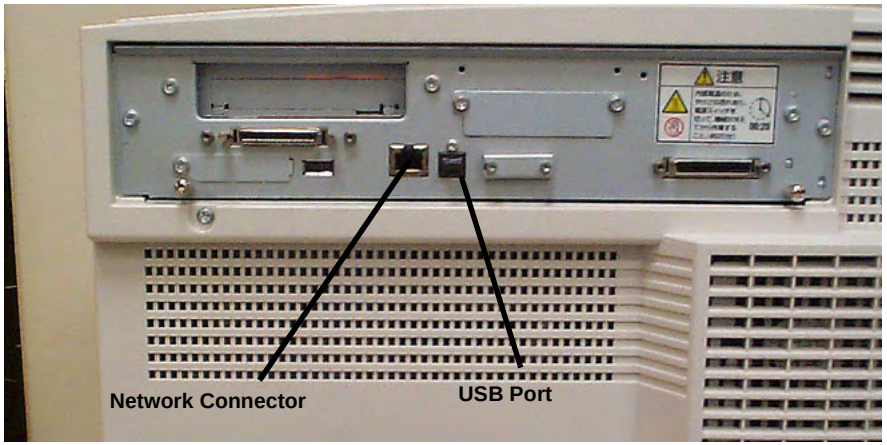


Figure 1 USB Connection for PWS 72xx

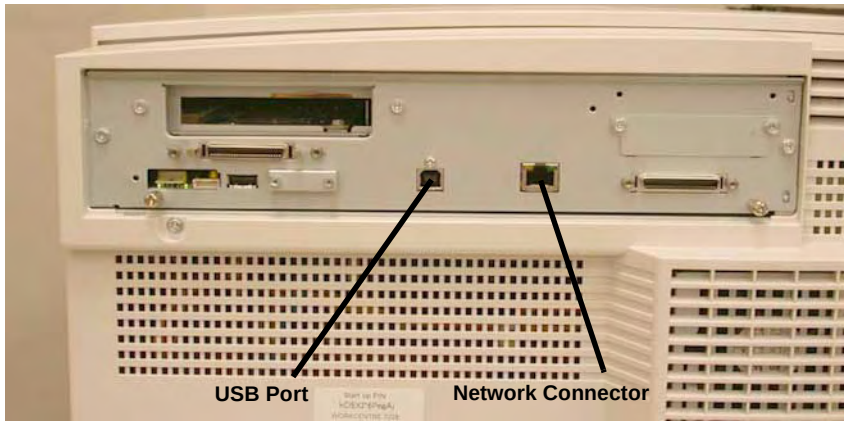


Figure 2 USB Connection for 73xx

6. Switch on the machine.
7. The **Found New Hardware** wizard will appear. It will ask you to install the **Fuji Xerox PSW USB Interface Driver for 2nd Generation**. Select **Install the Software Automatically**, and **Next**. Follow the prompts to complete the driver installation.
8. Go to Product Tools and start the WC Software Download Tool.

   NOTE: *The actual instructions that accompany the software may have additional steps here, such as a list of NVM values that need to be recorded.*

9. When the tool is connected, select **Enter Diagnostics**.
10. Select dC351. Ensure that the **All** button is selected.
11. Select **Save Machine Settings**. When the upload is complete, exit the Diagnostics Tool. When prompted, save the Machine Data file.
12. Switch off the machine.
13. Switch on the power while pressing the **Power Saver** switch. **Download Mode** will be displayed on the UI.

    NOTE: *A new hardware wizard may appear and you will be asked to install the Fuji Xerox Firmware Download Device on your PWS. Select* ***Cancel****.*

14. Start the Software Download Tool. When connected, select **Enter Software Download**.

    NOTE: *The actual instructions will list the files that need to be selected. Generally the Add all 1 File selection is used when upgrading to a newer version of the software. Use the Add All 1 File (Postscript) selection if a PostScript module is installed.*

    You can verify the presence of the PostScript module from the System Settings List under Software Version. If the statement "Controller+PS ROM" appears, the PostScript module is installed. If there is no PostScript module use the Add All 1 File (Standard).

    If you are reinstalling software at the same version, you must use individual files as the Add All 1 File option will not overwrite a file of the same version.

15. Select the appropriate file(s) for download.
16. Select **Start Download…** The screen will display **Processing**. (Load time is approximately 15 minutes).
17. When the download is completed the machine will reboot. Exit the Software Download Tool.
18. Perform any additional steps or procedures per the actual instructions that accompany the software.
19. Print a new copy of the System Settings List and verify that the software has been upgraded or reloaded to the correct version.
20. Reconnect the customer's network to the RJ45 port on the rear panel.
21. Disconnect the PWS.
22. Verify machine operation.

GP 9 Entering Tools Mode

Purpose

This procedure is used to enter the Tools Mode, using customer password, to make changes within the tools menus.

Procedure

1. Press the **Log In/Out** button on the Control Panel
2. If the customer has enabled the passcode - default (x-admin), enter the passcode and then the password (**11111** is the default; the customer may have set a unique password).
3. Press **Confirm** on the touch screen.

   NOTE: *If this password does not work, the customer has reset the password. Ask customer for password. Do not change password (GP 2) without customer's consent.*

4. For WC 7228/35/45: select **System Settings**.

   You are automatically logged out when you return to user mode
5. For WC 7328/35/45/46:
   - Press the **Machine Status Button**.
   - Select the **Tools** Tab.

   Press the **Log In/Out** button to log out.

GP 10 Replacing Billing PWBs

CAUTION

GP10 is used to maintain the integrity of the serial number and billing data, when one or more serialized PWBs must be replaced.

To maintain the integrity of the serial number and billing data, never replace all three listed PWBs at the same time. If any of the following billing data PWBs needs replacing, only replace them ***one at a time****.*

- *ESS NVM PWB (PL 13.2).*
- *MCU NVM PWB (PL 13.1).*
- *SEEP ROM on the Backplane PWB (PL 13.1).*

Failure to comply with the board replacement procedure in GP 10 could result in catastrophic NVM corruption.

Purpose

The serial no., product no., and billing count are stored at three locations; the MCU NVM PWB (IOT), the SEEP ROM (SYS1) on the Backplane (BP) PWB, and the ESS NVM PWB (SYS2). This procedure allows the data in all three locations to be synchronized in case of replacement of one of the PWBs, or due to data corruption associated with one of the following faults:

- 124-324 (3 Billing Counter Mismatch)
- 124-325 (1 Billing Counter Mismatch; Unable to recover Billing Counter during recovery)
- 124-312 (Product No. Mismatch)
- 124-313 (Serial No. Mismatch)
- 124-315 (IOT Speed Mismatch)
- 124-317 (IOT not the same)
- 124-310 (Product No. Failure: Not initialized)
- 124-311 (Serial No. Failure: Not initialized)

Procedure

1. Enter UI Diagnostic mode (Accessing UI Diagnostics).
2. Select **Adjustment/Others**.
3. Select **Machine ID/Billing Data Settings**.
4. Select a PWB with the correct data.
5. Select **Start**.
6. Enter the correct serial number in the **Serial Number** screen and then select **Confirm**. Enter the correct serial number again and select **Confirm** again.
7. Select **Close** and check that all three columns are the same.
8. If two or more serial numbers DO NOT match the machine label serial number, escalate the service call to Field Engineering or the NTC.

GP 11 Drum Cartridge Inventory

Purpose

The purpose of this procedure is to manage Drum Cartridge inventory at the customer account.

Procedure

1. Check the customers on-site Inventory. There should be a minimum of four Drum Cartridges (CRU), 1 each color, for on-site replacement.
   - If the customer requests additional CRUs ensure the customer's job requirements or volume justifies additional CRU stock. CRUs can be ordered at a higher level to meet customer satisfaction. The Customer should be informed that this additional stock is to be used when a CRU replacement message is displayed on the UI, or when directed by the CSE to do so.
   - In accounts with multiple machine placements it may not be necessary to maintain four CRUs for each machine.
2. Perform following to check% of life remaining.
   a. Press the **Machine Status** button.
   b. Select **Supplies** tab.
   c. Scroll down to the Drum Cartridges and check% life remaining. If 50% or less is displayed order a new CRU for that location.
3. NASG only: Order replacement CRUs through the Welcome Center Parts Ordering Desk. The Welcome Center is directed to only accept Xerographic CRU orders from the CSE (1-800-635-8054 option 1).

GP 13 Fax Diagnostics

Purpose

This procedure describes the process for running fax diagnostic tests found in Accessing UI Diagnostics.

Procedure

To Access Fax Diagnostics:

1. Enter Accessing UI Diagnostics.
2. Press the **Log In/Out** button on the Control Panel
3. On the display, select **System Settings**, then **Common Settings**, then **Maintenance/ Diagnostics**.
4. Select Sub System.
5. Select **Fax Diagnostics**.

There are two tests for Fax Diagnostics, the Signal Sending Test and the Relay On/Off Test

Signal Sending Test

This test checks the ability of the Fax system to generate and transmit a specific signal.

To run this test:

1. From the Fax Diagnostics screen, select **Signal Sending Test**.
2. Select the line number you wish to test (standard line is **1**. Lines **3** and **5** are for optional additional lines, **0**, **2**, and **4** are for FX use only).
3. Enter the **Signal Number** you wish to test and select **Send Signals**. Refer to Table 1 for the list of signal numbers.
4. An audio tone or tones corresponding to the selected signal should be heard. This verifies communication from the UI to the ESS PWB, and demonstrates the ability of the system to generate the specific signal being tested.

   If an error occurs, a Fault Code will be displayed.
5. To stop the test, select **Cancel Sending**.

Relay On/Off Test

This test turns on/off various relays that are used in the NCU.

To run this test:

1. From the Fax Diagnostics screen, select **Relay On/Off** Test.
2. Select the Line Number and select **Relay On**.

   If an error occurs, a Fault Code will be displayed. Listen for the Relay to pick up the Line.
3. To stop the test, select **Relay Off**.

Table 1 Fax Diagnostic signal numbers

Signal No.	Output	Description
011	Tonal Signal Output	462Hz
012	Tonal Signal Output	1080Hz
013	Tonal Signal Output	1100Hz
014	Tonal Signal Output	1300Hz

Table 1 Fax Diagnostic signal numbers

Signal No.	Output	Description
015	Tonal Signal Output	1650Hz
016	Tonal Signal Output	1850Hz
017	Tonal Signal Output	2100Hz
019	DTMF Signal Output	Dual Tone 1
020	DTMF Signal Output	Dual Tone 2
021	DTMF Signal Output	Dual Tone 3
022	DTMF Signal Output	Dual Tone 4
023	DTMF Signal Output	Dual Tone 5
024	DTMF Signal Output	Dual Tone 6
025	DTMF Signal Output	Dual Tone 7
026	DTMF Signal Output	Dual Tone 8
027	DTMF Signal Output	Dual Tone 9
028	DTMF Signal Output	Dual Tone 0
029	DTMF Signal Output	Dual Tone *
030	DTMF Signal Output	Dual Tone #
031	DTMF Signal Output	Dual Tone A
032	DTMF Signal Output	Dual Tone B
033	DTMF Signal Output	Dual Tone C
034	DTMF Signal Output	Dual Tone D
035	V.21 (H) Signal Output	HDLC Flag
036	V.27ter Signal Output	2400 bps (HDLC Flag)
037	V.27ter Signal Output	4800 bps (HDLC Flag)
038	V.29 Signal Output	7200 bps (HDLC Flag)
039	V.29 Signal Output	9600 bps (HDLC Flag)
040	V.17 Signal Output	7200 bps (HDLC Flag)
041	V.17 Signal Output	9600 bps (HDLC Flag)
042	V.17 Signal Output	12000 bps (HDLC Flag)
043	V.17 Signal Output	14400 bps (HDLC Flag)
080	V.8 Signal Output	ANSam
081	V.8 Signal Output	CM
082	V.8 Signal Output	JM
083	V.8 Signal Output	INFOc
084	V.8 Signal Output	INFOa
085	V.8 Signal Output	PPh+ALT
096	V.34 Signal Output	2400/2400 (HDLC Flag)
097	V.34 Signal Output	4800/2400 (HDLC Flag)
098	V.34 Signal Output	7200/2400 (HDLC Flag)
099	V.34 Signal Output	9600/2400 (HDLC Flag)
100	V.34 Signal Output	12000/2400 (HDLC Flag)
101	V.34 Signal Output	14400/2400 (HDLC Flag)
102	V.34 Signal Output	16800/2400 (HDLC Flag)

Table 1 Fax Diagnostic signal numbers

Signal No.	Output	Description
103	V.34 Signal Output	19200/2400 (HDLC Flag)
104	V.34 Signal Output	21600/2400 (HDLC Flag)
106	V.34 Signal Output	4800/2743 (HDLC Flag)
107	V.34 Signal Output	7200/2743 (HDLC Flag)
108	V.34 Signal Output	9600/2743 (HDLC Flag)
109	V.34 Signal Output	12000/2743 (HDLC Flag)
110	V.34 Signal Output	14400/2743 (HDLC Flag)
111	V.34 Signal Output	16800/2743 (HDLC Flag)
112	V.34 Signal Output	19200/2743 (HDLC Flag)
113	V.34 Signal Output	21600/2743 (HDLC Flag)
114	V.34 Signal Output	24000/2743 (HDLC Flag)
117	V.34 Signal Output	4800/3000 (HDLC Flag)
118	V.34 Signal Output	7200/3000 (HDLC Flag)
119	V.34 Signal Output	9600/3000 (HDLC Flag)
120	V.34 Signal Output	12000/3000 (HDLC Flag)
121	V.34 Signal Output	14400/3000 (HDLC Flag)
122	V.34 Signal Output	16800/3000 (HDLC Flag)
123	V.34 Signal Output	19200/3000 (HDLC Flag)
124	V.34 Signal Output	21600/3000 (HDLC Flag)
125	V.34 Signal Output	24000/3000 (HDLC Flag)
126	V.34 Signal Output	26400/3000 (HDLC Flag)
127	V.34 Signal Output	28800/3000 (HDLC Flag)
129	V.34 Signal Output	4800/3200 (HDLC Flag)
130	V.34 Signal Output	7200/3200 (HDLC Flag)
131	V.34 Signal Output	9600/3200 (HDLC Flag)
132	V.34 Signal Output	12000/3200 (HDLC Flag)
133	V.34 Signal Output	14400/3200 (HDLC Flag)
134	V.34 Signal Output	16800/3200 (HDLC Flag)
135	V.34 Signal Output	19200/3200 (HDLC Flag)
136	V.34 Signal Output	21600/3200 (HDLC Flag)
137	V.34 Signal Output	24000/3200 (HDLC Flag)
138	V.34 Signal Output	26400/3200 (HDLC Flag)
139	V.34 Signal Output	28800/3200 (HDLC Flag)
140	V.34 Signal Output	31200/3200 (HDLC Flag)
142	V.34 Signal Output	4800/3429 (HDLC Flag)
143	V.34 Signal Output	7200/3429 (HDLC Flag)
144	V.34 Signal Output	9600/3429 (HDLC Flag)
145	V.34 Signal Output	12000/3429 (HDLC Flag)
146	V.34 Signal Output	14400/3429 (HDLC Flag)
147	V.34 Signal Output	16800/3429 (HDLC Flag)
148	V.34 Signal Output	19200/3429 (HDLC Flag)

Table 1 Fax Diagnostic signal numbers

Signal No.	Output	Description
149	V.34 Signal Output	21600/3429 (HDLC Flag)
150	V.34 Signal Output	24000/3429 (HDLC Flag)
151	V.34 Signal Output	26400/3429 (HDLC Flag)
152	V.34 Signal Output	28800/3429 (HDLC Flag)
153	V.34 Signal Output	31200/3429 (HDLC Flag)
154	V.34 Signal Output	33600/3429 (HDLC Flag)
160	DTMF Signal Output	Signal Tone 697Hz
161	DTMF Signal Output	Signal Tone 770Hz
162	DTMF Signal Output	Signal Tone 852Hz
163	DTMF Signal Output	Signal Tone 941Hz
164	DTMF Signal Output	Signal Tone 1209Hz
165	DTMF Signal Output	Signal Tone 1336Hz
166	DTMF Signal Output	Signal Tone 1477Hz
167	DTMF Signal Output	Signal Tone 1633Hz

GP 14 Special Boot Modes

Purpose

This procedure describes methods of recovering from certain un-clearable faults.

Procedure

Some boot-up failures, as well as some un-clearable 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.

Job 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 (progress bar) appears.

Spool Initialization

This step will delete all pending print or copy jobs in the job queue, and then perform a reboot.

To execute: simultaneously press and hold the **6**, the **Stop**, and the **Power Save** buttons on the Control Panel while switching on the power. Hold the buttons down until the boot up screen (progress bar) appears.

HDD Initialization

This step will delete all pending print or copy jobs in the IOT job queue, initializes the IOT HDD, and will and then perform a reboot. All customer data on the HDD will be deleted.

To execute: simultaneously press and hold the **4**, the **Stop**, and the **Power Save** buttons on the Control Panel while switching on the power. Hold the buttons down until the boot up screen (progress bar) appears.

ESS NVM Initialization

CAUTION

STOP HERE! This portion of the routine will set all IOT ESS NVM values to default. DO NOT execute this portion unless specifically directed to perform this portion.

Do not attempt this part of the procedure unless there is a known-good 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 (progress bar) appears.

GP 15 A/P Finisher Software

Purpose

This procedure is used to load the A/P Finisher Software Download Tool on the PWS and to download software to the A/P Finisher.

Procedure

1. Install the A/P Finisher Software Download tool on the PWS.
   a. Install the CD with tool in the PWS CD drive. Typically the Finisher Software Download Tool is on the same CD as the system software and the PWS Tool software.
   b. Navigate to the tool setup on the CD (path=**Finisher Software Download Application\DISK1\setup.exe**).
   c. Double-click **setup.exe** to start install.
   d. When the Welcome Screen appears, select Next (Figure 1).

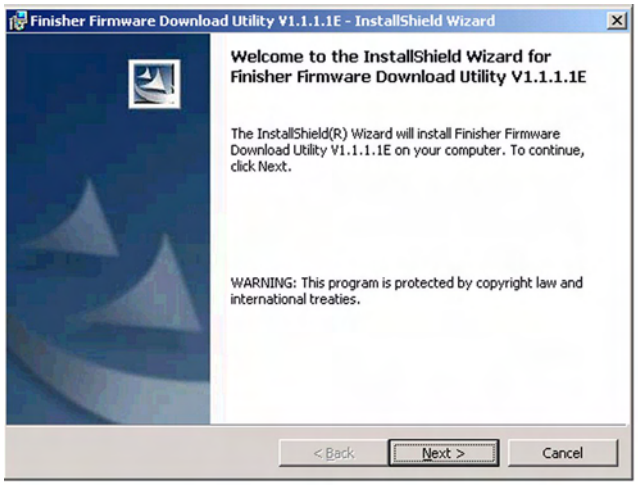


Figure 1 Welcome Screen

   e. Verify the folder location automatically picked by the tool and select Install (Figure 2).

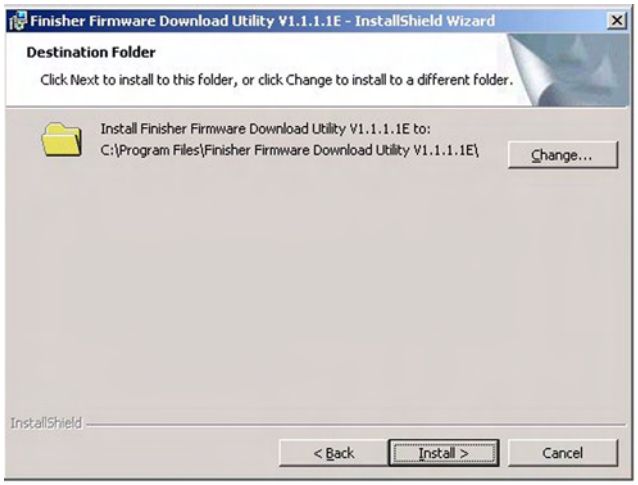


Figure 2 Tool Location

NOTE: *If you wish to install the tool to another folder, select Change and browse for desired location.*

f. Select Finish to complete the install.

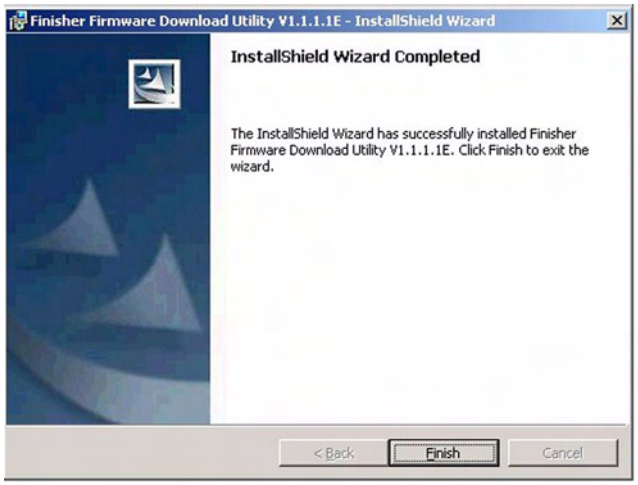


Figure 3 Completing the Install

NOTE: *Tool is now ready for use by double clicking on the tool icon.*

2. Prepare the A/P Finisher for software upload.
   a. Check the A/P Finisher current software version (GP 16).
   b. If machine is a copier go to the next step, otherwise continue here: Enter Tools Mode from the UI (GP 9) and disable configuration page under the System Settings button.
   c. Switch off the machine.
   d. Open the A/P Finisher Front Door and remove the cover (PL 21.3) at top of frame to expose serial port.
   e. Connect a serial cable from PWS to the serial port on the A/P Finisher.
   f. Switch on machine power.
3. Load software on the A/P Finisher.
   a. Install CD with A/P Finisher software in the PWS CD drive.
   b. When machine is ready, select the Finisher Firmware tool on the PWS (the Software Transfer window will launch) (Figure 4).

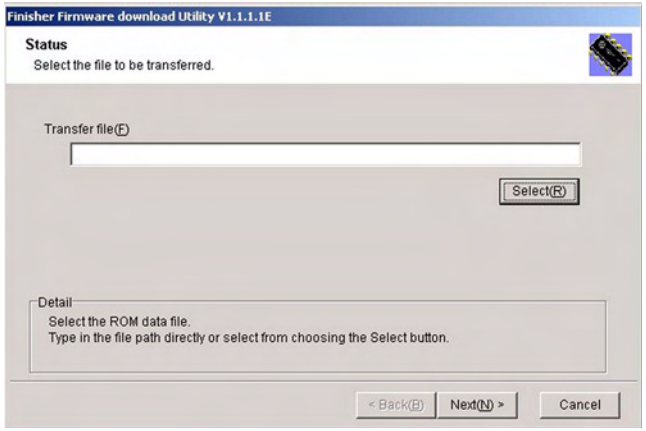


Figure 4 Software Transfer window

   c. Click Select and Navigate to the xxxxxx.mot file on the CD.
   d. Select file and click Next.
   e. In the Status window (Figure 5), verify that the selected file is correct and then click Next.

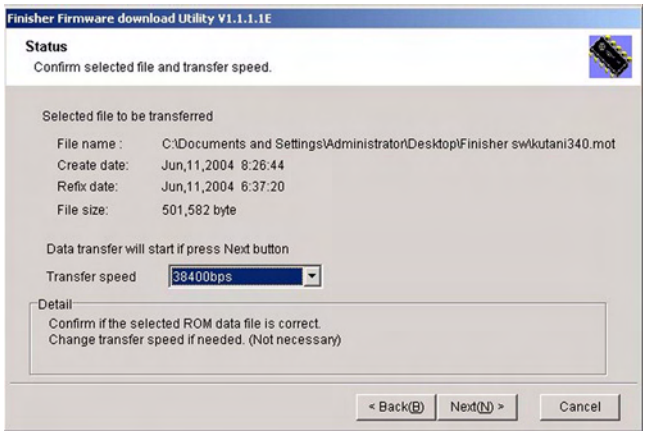


Figure 5 Verify selection

f. When File transfer has been completed appears (Figure 6), click End.

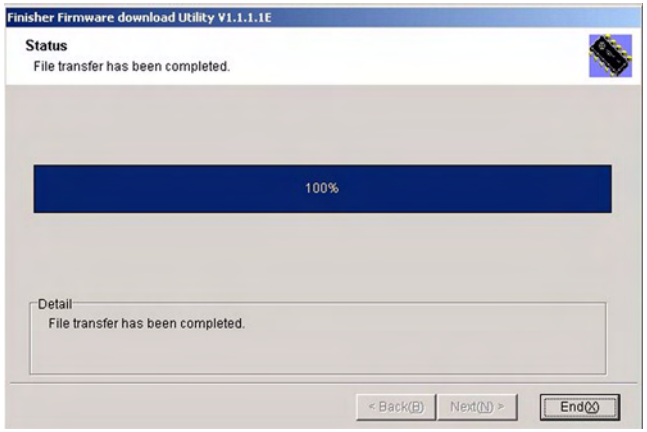


Figure 6 File Transfer

4. Switch off machine and remove serial cable. Install the small cover and switch on the power.

   NOTE: *Ensure that the small cover over the serial port is correctly re-installed. Failure to re-install the cover correctly could cause the machine to not recognize the A/P Finisher.*

5. If required, enter tools from UI (using customer password) and enable configuration page at start up.

GP 16 Checking A/P Finisher Software Version

Purpose

This procedure is used to check what Software version is loaded on the A/P Finisher.

Procedure

1. Checking A/P Finisher Software version using the Configuration Report:
   a. On the Control Panel, select Machine Status.
   b. Select the **SW Version** Button.
   c. View the Finisher Version in the list.

GP 17 Setting Country Code

Purpose

This procedure is used to set the Country Code for correct FAX operation.

Procedure

1. Enter **Tools** mode (GP 9).
2. Follow the path, **System Settings** -> **System Settings** ->**Common Settings** -> **Other Settings**.
3. Scroll the Other Settings menu to find **Country** (on page 2; item 14, 15, or 16 depending on configuration). To change the value:
   - Select **Change Settings**.
   - Scroll through the list to select the Country.
   - Select **Save**.
4. Exit **Tools** mode.

GP 18 Using Micro Probe for Voltage Readings

Purpose

Many of the electrical harness connectors on this machine can be damaged when using the probes supplied with the Multimeter. A Micro Probe (600T02177) is available for performing electrical measurements on these small connectors.

Procedure

1. Place Micro Probe onto end of stepped probe (600T01915).
2. Perform electrical measurements on the small harness Connectors as necessary.

Space Requirements

Figure 1

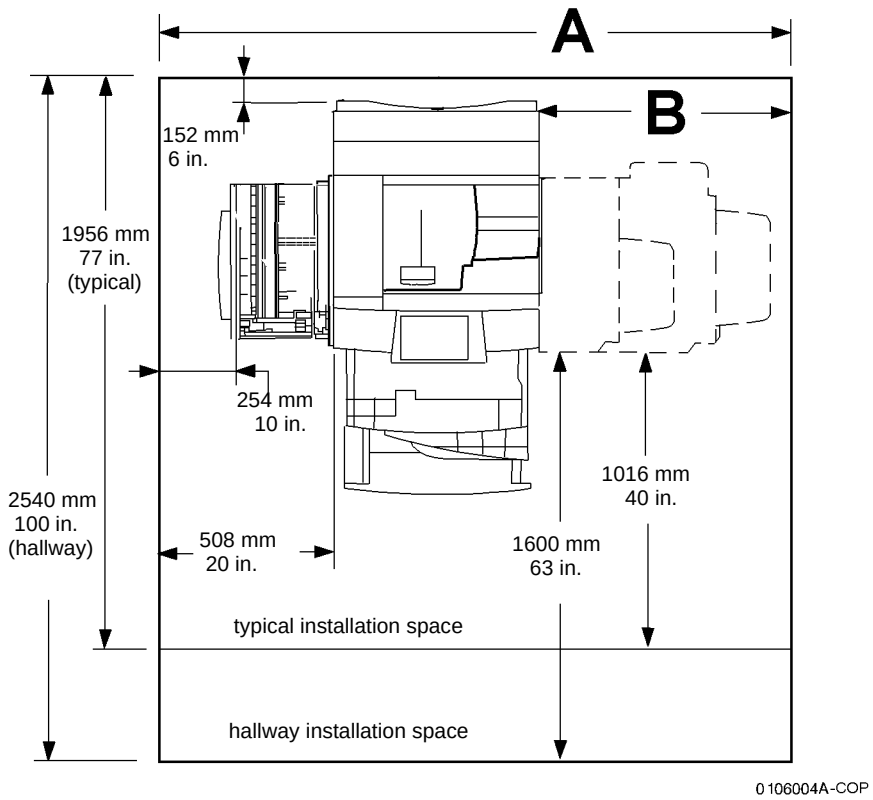


Figure 1 Space Requirements

Table 1 Space Requirements

	A	B
No Finisher	1585 mm 62.4 in	502 mm 19.8 in
Office Finisher	2032 mm 80 in	949 mm 37.4 in
Advanced Finisher	2286 mm 90 in	1203 mm 47.4 in
Professional Finisher	2286 mm 90 in	1203 mm 47.4 in

Voltage Requirements

Single Phase (2 conductors + ground wire)

Table 2 Voltage Requirements

Region	Power Voltage, VAC	Power Frequency, Hz	Note
ESG (XE)	220-240 VAC (-10%, +6%)	50 Hz +/- 3%	
USSG, XCL (XC)	110-127 VAC (-10%, +10%)	60 Hz +/- 3%	

Product Codes

Table 1 Product Codes

Item	Product Code
IOT/OCT/Duplex Copier, 7228/7235/7245 220 VAC	AYC
IOT/OCT/Duplex Copier, 7328/7335/7345 , 120 VAC	FKA
IOT/OCT/Duplex Copier, 7328/7335/7345, 120 VAC GSA	FKAN
IOT/OCT/Duplex Copier, 7328/7335/7345, 220 VAC	FHA
IOT/OCT/Duplex Copier, 7328/7335/7345, 220 VAC GSA	FGB
IOT/OCT/Duplex Copier, 7346, 120 VAC	LXW
IOT/OCT/Duplex Copier, 7346, 120 VAC GSA	LXWN
IOT/OCT/Duplex Copier, 7346, 220 VAC	LXX
IOT/OCT/Duplex Copier, 7346, 220 VAC GSA	MAF
IIT/UI/DADF, 72XX, 220 VAC	AYD
IIT/UI/Platen, 72XX 220VAC	AYE
IIT/UI/DADF, 73XX, 220 VAC	GAW
IIT/UI/Platen, 73XX 220VAC	GAV
IIT/UI/DADF, 73XX, 120 VAC	FGA
Finisher, Office (MN)	AYK
Finisher, Advanced (XE)	AYH
Finisher, Advanced (XC)	FHX
Finisher, Professional w/Booklet Maker (XE)	AYL
Finisher, Professional w/Booklet Maker (XC)	FHB
Finisher, Office (MN) 7346	MNB
Finisher, Advanced (XE) 7346	MPB
Finisher, Advanced (XC) 7346	MPX
Finisher, Professional w/Booklet Maker (XE) 7346	MNX
Finisher, Professional w/Booklet Maker (XC) 7346	MPA
TTM (Tandem Tray Module)	AYG
3TM (Three Tray Module)	AYF
Fiery DFE	LUA

Paper Capacities

Table 2 Paper Capacities

Specification	Paper Trays 1 - 4	Tray 5 (MSI)
Paper Sizes	Trays 1-4 (3TM); Trays 1-2 (TTM) • Min.: 5.5 x 8.5" SEF/A5 SEF (148 x 210 mm) • Max: A3/11 x 17" Trays 3 & 4 (TTM) • A4, B5 LEF, 8.5 x 11" only	Paper • Min.: 100 x 140 mm (postcard) • Max: 305 x 483 mm Envelopes • Min.: 98 x 190 mm (Monarch 7 3/4 size)

Table 2 Paper Capacities

Specification	Paper Trays 1 - 4	Tray 5 (MSI)
Paper Weights	Optimum: 24 lb./90 gsm Range: 55 - 220 gsm	Range: 55 - 220 gsm
Capacities 20 lb. (80 gsm)	3040 (TTM) or 2080 sheets 3TM total: • Tray 1: 520 sheets • Tray 2: 520 sheets (TTM/ 3TM) • Tray 3: 867 sheets (TTM) 520 sheets 3TM • Tray 4: 1133 sheets (TTM) 520 sheets 3TM	Paper • 100 sheets Transparencies • 70 sheets Envelopes • 10

Copy Speed

(1 original on platen; plain paper; simplex; fed from Tray 1; shown as B/W ppm/Color ppm)

- **WC 7228/7328**
  - 8.5 x 11"/A4 LEF: 29 ppm/26 ppm
  - 8.5 x 11"/A4 SEF: 22 ppm/17 ppm
  - B4/legal size: 20 ppm/15 ppm
  - 11 x17"/A3: 17 ppm/13 ppm
- **WC 7235/7335**
  - 8.5 x 11"/A4 LEF: 35 ppm/31 ppm
  - 8.5 x 11"/A4 SEF: 26 ppm/21 ppm
  - B4/legal size: 21 ppm/17 ppm
  - 11 x17"/A3: 17 ppm/15 ppm
- **WC 7245/7345**
  - 8.5 x 11"/A4 LEF: 45 ppm/35 ppm
  - 8.5 x 11"/A4 SEF: 34 ppm/26 ppm
  - B4/legal size: 27 ppm/21 ppm
  - 11 x17"/A3: 22 ppm/17 ppm
- **WC 7346**
  - 8.5 x 11"/A4 LEF: 45 ppm/40 ppm
  - 8.5 x 11"/A4 SEF: 34 ppm/30 ppm
  - B4/legal size: 27 ppm/24 ppm
  - 11 x17"/A3: 22 ppm/20 ppm

FCOT/FPOT

Maximum First Copy Out Time: original on platen; 8.5" x 11" (A4); Tray 1 to center tray; 100%

- 7346: Color - 6.7 sec. Color Priority Mode; 9.0 sec. B/W Priority Mode
- 7346: B/W - 7.2 sec. Color Priority Mode; 4.8 sec. B/W Priority Mode
- 7245/7345: Color - 7.2 sec. Color Priority Mode; 9.8 sec. B/W Priority Mode
- 7245/7345: B/W - 7.2 sec. Color Priority Mode; 4.8 sec. B/W Priority Mode
- 7235/7335: Color - 7.5 sec. Color Priority Mode; 10.0 sec. B/W Priority Mode

- 7235/7335: B/W - 7.9 sec. Color Priority Mode; 5.7 sec. B/W Priority Mode
- 7228/7328: Color - 7.5 sec. Color Priority Mode; 10.0 sec. B/W Priority Mode
- 7228/7328: B/W - 7.9 sec. Color Priority Mode; 5.7 sec. B/W Priority Mode

First Print Output Time (does not include ESS process time for prints); 8.5” x 11” (A4); Tray 1 to center tray;

- 7245 Color - 9.2 sec. max
- 7245 B/W - 4.3 sec. max (600 x 600dpi)
- 7235 Color - 9.2 sec. max
- 7235 B/W - 5.0 sec. max (600 x 600dpi)
- 7228 Color - 9.2 sec. max
- 7228 B/W - 5.0 sec. max (600 x 600dpi)

Environmental Data and Requirements

Ambient Temperature and Humidity requirement:

- Minimum: 10º C / 50ºF at 15% humidity
- Maximum: 32º C / 89.6ºF at 85% humidity

IIT/DADF Specifications

Table 3 DADF Specifications

Document Size: Platen	Max size: 334 x 452 mm Max scannable area: 297 x 432 mm
Document Size: DADF	5.5” x 8.5” (A5) LEF to 11” x 17” SEF (A3) Max: 297 x 432 mm Min.: 148.5 x 210 mm
Document Weight: DADF	Min:38 gsm (50 gsm in Duplex mode) Max: 128 gsm (110 gsm in Duplex mode)
Document Capacity: DADF	50 sheets 100 gsm or less 40 sheets 101 to 128 gsm
R/E Capability:	Variable Percentages: 25% to 400% in 1% increments Preset Percentages: • 25% • 50% (A3 to A5) • 64% (11 x17 in. to 8.5 x 11 in.) • 70% (A3 to A4; B4 to B5) • 100% • 129% (8.5 x 11 in. to 11 x17 in.) • 141% (A4 to A3; B5 to B4) • 400% Presets can be changed in Tools mode

Common Tools

Table 1 Common Tools

Description	Part Number
Screw Driver (-) 3 x 50	600T40205
Screw Driver (+) 6 x 100	600T1989
Screw Driver (+) NO.1	499T356
Stubby Driver (+) (-)	600T40210
Screw Driver (=) 100MM	499T355
Spanner and Wrench 5.5 x 5.5	600T40501
Spanner and Wrench 7x 7	600T40502
Hex Key Set	600T02002
Box Driver 5.5MM	600T1988
Box Driver 1/4 inch	
Side Cutting Nipper	600T40903
Round Nose Pliers	600T40901
Digital Multi-meter Set	600T2020
Interlock Cheater	600T91616
Silver Scale 150MM	600T41503
CE Tool Case	600T1901
Magnetic Screw Pick-up Tool	600T41911
Scribe Tool	600T41913
Magnetic pickup	600T41911
Eye Loop	600T42008
Flash Light	600T1824
Brush	600T41901
Tester Lead Wire (red)	600T 9583
Tester Lead Wire (black)	600T2030

Product Tools and Test Patterns

Table 1 Tools and Test Patterns

Description	Part Number
Color Test Pattern	82E13120
Geometric Test Pattern	82E8220
DADF Test Pattern	82E2000
DADF Test Pattern (A3)	82P521
HVPS test probe (1/10X)	600T1653
HVPS test probe adapter	600T1996
Copy Paper Carrying Case	600T1999
Copy Paper Zip Lock Bag	600T2000
Xerox Color Xpressions Plus 24# 11×17 in,	3R5465
Colortech Plus - 90 gsm - A3	3R94642
Service and Machine NVM Log	700P97436
Serial Cable	600T2058
USB Cable	600T02231
Null Modem Adapter (female/female)	113E40060
PWS power cord adapter	600T2018
Micro Probe Kit	600T02177
Machine Service Log	Adobe PDF file on CD

Cleaning Materials

Table 1 Cleaning Materials

Description	USSG Part Number	XE Part Number
Cleaning fluid (8oz., Formula A)	43P48	8R90034
Film remover (8 oz.)	43P45	8R90176
Lens/mirror cleaner	43P81	8R90178
Lint-free (white) cleaning cloth	19P3025	19P3025
Lint-free Optics cleaning cloth	499T90417	499T90417
Cleaning towels	35P3191	600S4372
Drop cloth	35P1737	35P1737
Cotton Swab	35P2162	35P2162

CRUs and Consumables

Table 1 CRUs and Consumables

Name	Part Numbers for- WC 7228/7235/7245	Part Numbers for - WC 7328/7335/7345/7346
Drum Cartridge	013R00624	013R00624
Black Toner Cartridge	006R01280	006R01175
Cyan Toner Cartridge	006R01281	006R01176
Magenta Toner Cartridge	006R01282	006R01177
Yellow Toner Cartridge	006R01283	006R01178
Staple Cartridge Booklet Maker (Professional Finisher)	008R12925	008R12925
Staple Cartridge (A/P Finisher)	008R12964	008R12964
Staple Refills (A/P Finisher)	008R12941	008R12941
Staple Cartridge (Office Finisher)	050K48750	050K48750
Staple Refills (Office Finisher)	008R12915	008R12915
Staple Refills (XE Convenience Stapler)	008R12964	008R12964
Waste Toner Cartridge	008R12903	008R12903
Fuser Module (110 V)	008R13040	008R13040
Fuser Module (220 V)	008R13028	008R13028
Fuser Module (110V) **7346 Only**		008R13055
Fuser Module (220V) **7346 Only**		008R13056

Prohibited Media

Table 1 Prohibited Media

Media	Media Type	R-number	Reason
Carbonless Paper	Special	3R5834	Smudge
Fabric Transfer Paper	Special	3R5811	Fuser Wrap Jam
Glossy Tabs	Application	3R4417	Feeding Problem
Plain Paper Tabs	Application	3R5420	Feeding Problem
Digital Windows Decals	Application	3R6339	Poor Image Quality (Gloss non-uniformity)
Xerox No Stripe	Transparency	3R3117	Fuser Wrap Jam
Xerox Enhanced Coating	Transparency	3R2780	Fuser Wrap Jam and Lead Edge Gloss non-uniformity

Glossary of Terms

Table 1 Glossary

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
ADC	Automatic Density Control
ADJ	Adjustment Procedure
AGC	Automatic Gain Control
A/P	Advanced/Professional (Finisher)
ATC	Automatic Toner Concentration
Bit	Binary digit, either 1 or 0, representing an electrical state.
BSD	Block Schematic Diagram
BTR	Bias Transfer Roll
BUR	Back up Roll
CCD	Charge Coupled Device (Photoelectric Converter)
CCM	Color Control Module
CD	1:Circuit Diagram; 2: Compact Disc
Chip	Integrated Circuit (IC)
CRU	Customer Replaceable Unit
CRUM	Customer Replaceable Unit Meter/Memory
CYMK	Toner colors for machine; Y=yellow, C=cyan, M=magenta, and K=black
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.
DMM	Digital Multimeter is generic name for meter that measures voltage, current, or electrical resistance.
Duplex	2-sided printing or copying
EA	Emulsion Aggregation (toner)
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)
FE	Field Engineer
FS	Fast Scan (direction) - Inboard-to Outboard
GND	Ground
HDD	Hard Disk Drive
HFSI	High Frequency Service Item

Table 1 Glossary

Term	Description
HGEA	High Grade Emulsion Aggregation (toner)
HVPS	High Voltage Power Supply
Hz	Hertz (Cycles per second)
IBT	Intermediate Belt Transfer
I/F	Interface
IIO	Intermediate Image Overwrite
IIT	Image Input Terminal - the Scanner/CCD portion of the machine
IOT	Image Output Terminal - the ROS/Xero/paper handling/ fusing portion of the machine
IPS	Image Processing Subsystem
IQ	Image Quality
JBA	Job-based Accounting
KC	1000 copies
LCD	Liquid Crystal Display
LE	Lead Edge of copy or print paper, with reference to definition of term TE
LED	Light Emitting Diode
LEF	Long Edge Feed
LTR	Letter size paper (8.5 x 11 inches)
LUT	Look Up Table - array of NVM locations that store process control data
LVPS	Low Voltage Power Supply
MCU	Machine Control Unit
MF	Multi-Function
MN	Multinational
MOB	Marks On Belt
MRD	Machine Resident Disk
NIC	Network Interface Card
NVM	Non Volatile Memory
OCT	Offset Catch Tray
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

Table 1 Glossary

Term	Description
Regi-Con	Registration Control
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.
S2X	Scan to Transport
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
SIR	Standard Image Reference
SOK	System Operation Key, Software Option Key
FS	Fast Scan (direction) - LE - to - TE
TE	Trail Edge of copy or print paper, with reference to definition of term LE
TRC	Tone Reproduction Curve
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)
XLA	Xerox Latin America
YCMK	Toner colors for machine; Y=yellow, C=cyan, M=magenta, and K=black
XMEX	Xerox Mexico

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. The DADF tag matrix is a label affixed to the rear cover of the DADF.

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 Codes

Classification Code	Description
M	Mandatory tag.
N	Tag not installed in the field.
O	Optional tag.
R	Repair tag.

Processor (P) Tags

There are currently no Tags in this category

TAG: Pxxx

CLASS: R

NAME: **x**

PURPOSE: x

PARTS LIST ON: x

Document Handler (D) Tags

There are currently no Tags in this category

Controller (C) Tags

There are currently no Tags in this category.

Finisher (F) Tags

There are currently no Tags in this category

TAG: F-xx

CLASS: R

MFG SERIAL NUMBERS: x

x

NAME: **x**

PURPOSE: x

PARTS LIST ON: x

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. Connector numbers are ordered numerically in ascending order. Connectors numbered “CN” and “FS” are listed at the end of the “P and J” connectors.

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.

Table 1 Plug/Jack Location List

Connector Number	Figure Number	Item Number	Figure Title
P/J1	Figure 28	9	Control Panel
P/J1	Figure 28	11	UI I/F PWB
P/J2	Figure 12	10	+24V LVPS
P/J2	Figure 28	12	UI I/F PWB
P/J2	Figure 28	14	Fax Control Panel
P/J2	Figure 32	7	IIT LVPS
P/J2	Figure 44	9	Finisher LVPS
P/J 2	Figure 51	12	ESS (WC 72XX)
P/J2	Figure 50	11	ESS (WC 73XX)
P/J3	Figure 28	3	UI I/F PWB
P/J 3	Figure 51	9	ESS (WC 72XX)
P/J3	Figure 50	9	ESS (WC 73XX)
P/J4	Figure 28	4	UI I/F PWB
P/J5	Figure 28	13	UI I/F PWB
P/J6	Figure 28	1	UI I/F PWB
P/J16A	Figure 16	24	I/F (MDD) PWB, HVPS T12
P/J16B	Figure 16	21	I/F (MDD) PWB, HVPS T12
P/J16C	Figure 16	23	I/F (MDD) PWB, HVPS T12
P/J39	Figure 17	17	Developer Motor, AC Drive PWB
P/J42	Figure 17	19	Developer Motor, AC Drive PWB
P/J43	Figure 17	8	Developer Motor, AC Drive PWB
P/J45	Figure 17	9	Developer Motor, AC Drive PWB
P50	Figure 17	18	Developer Motor, AC Drive PWB
P/J72	Figure 12	11	HVPS T13, T14/+24V LVPS
P/J102	Figure 3	1	Left Cover Assembly, Inverter Transport Assembly
P/J103	Figure 8	4	MSI Unit (Bypass Tray)
P/J104	Figure 7	3	Exit Transport Assembly (OCT)
P/J106	Figure 18	3	Tray 1 Feeder, Left Lower Assembly
P/J108	Figure 18	2	Tray 1 Feeder, Left Lower Assembly
P/J109	Figure 5	4	Registration Transport Assembly

Table 1 Plug/Jack Location List

Connector Number	Figure Number	Item Number	Figure Title
P/J111	Figure 3	14	Left Cover Assembly, Inverter Transport Assembly
P/J113	Figure 3	8	Left Cover Assembly, Inverter Transport Assembly
P/J115	Figure 17	23	Developer Motor, AC Drive PWB
P/J116	Figure 2	3	MOB Sensor Assembly
P/J117	Figure 2	1	MOB Sensor Assembly
P/J119	Figure 11	5	IBT Belt Assembly
P/J121	Figure 11	4	IBT Belt Assembly
P/J122	Figure 11	2	IBT Belt Assembly
P/J125	Figure 18	7	Tray 1 Feeder, Left Lower Assembly
P/J129	Figure 1	10	Xerographics
P/J130	Figure 1	9	Xerographics
P/J131	Figure 1	7	Xerographics
P/J132	Figure 1	5	Xerographics
P/J133	Figure 1	16	Xerographics
P/J135	Figure 4	5	Duplex Transport Assembly
P/J136	Figure 4	6	Duplex Transport Assembly
P/J140	Figure 3	12	Left Cover Assembly, Inverter Transport Assembly
P/J144	Figure 2	2	MOB Sensor Assembly
P/J150	Figure 18	4	Tray 1 Feeder, Left Lower Assembly
P/J151	Figure 1	12	Xerographics
P/J152	Figure 1	15	Xerographics
P/J153	Figure 1	19	Xerographics
P/J154	Figure 1	17	Xerographics
P/J155	Figure 5	3	Registration Transport Assembly
P/J171	Figure 1	4	Xerographics
P/J172	Figure 7	2	Exit Transport Assembly
J173	Figure 13	14	Scanner Outlet, PWS Outlet, Finisher Outlet
P/J203	Figure 16	11	I/F (MDD) PWB, HVPS T12
P/J205	Figure 18	1	Tray 1 Feeder, Left Lower Assembly
P/J207	Figure 1	11	Xerographics
P/J209	Figure 12	9	HVPS T13, T14/+24V LVPS
P/J210	Figure 16	28	I/F (MDD) PWB, HVPS T12
P/J211	Figure 6	5	Fuser Assembly
P/J212	Figure 6	6	Fuser Assembly
P/J213	Figure 16	25	I/F (MDD) PWB, HVPS T12
P/J214	Figure 12	13	HVPS T13, T14/+24V LVPS
P/J215	Figure 3	5	Left Cover Assembly, Inverter Transport Assembly
P/J216	Figure 3	15	Left Cover Assembly, Inverter Transport Assembly
P/J217	Figure 3	4	Left Cover Assembly, Inverter Transport Assembly
P/J218	Figure 3	2	Left Cover Assembly, Inverter Transport Assembly

Table 1 Plug/Jack Location List

Connector Number	Figure Number	Item Number	Figure Title
P/J219	Figure 8	3	MSI Unit (Bypass Tray)
P/J220	Figure 7	4	Exit Transport Assembly (OCT)
P/J222	Figure 7	1	Exit Transport Assembly (OCT)
P/J223	Figure 1	8	Xerographics
P/J224	Figure 1	6	Xerographics
P/J225	Figure 1	3	Xerographics
P/J226	Figure 1	20	Xerographics
P/J227	Figure 9	15	Toner Dispense Motor (Y, M, C, K), Main Switch
P/J228	Figure 9	10	Toner Dispense Motor (Y, M, C, K), Main Switch
P/J229	Figure 9	9	Toner Dispense Motor (Y, M, C, K), Main Switch
P/J230	Figure 9	8	Toner Dispense Motor (Y, M, C, K), Main Switch
P/J231	Figure 5	5	Registration Transport Assembly
P/J232	Figure 17	24	Developer Motor, AC Drive PWB
P/J233	Figure 1	2	Xerographics
P/J234	Figure 17	1	Developer Motor, AC Drive PWB
P/J235	Figure 17	2	Developer Motor, AC Drive PWB
P/J237	Figure 11	3	IBT Belt Assembly
P/J240	Figure 5	2	Registration Transport Assembly
P/J251	Figure 3	6	Left Cover Assembly, Inverter Transport Assembly
P/J252	Figure 17	7	Developer Motor, AC Drive PWB
P/J255	Figure 2	4	MOB Sensor Assembly
P/J260	Figure 6	9	Fuser Assembly
P/J261	Figure 6	8	Fuser Assembly
P/J262	Figure 6	4	Fuser Assembly
P/J263	Figure 6	3	Fuser Assembly
P/J264	Figure 6	7	Fuser Assembly
P/J265	Figure 8	2	MSI Unit (Bypass Tray)
P/J288	Figure 9	16	Toner Dispense Motor (Y, M, C, K), Main Switch
P/J300	Figure 51	1	ESS (WC 72XX)
P/J300	Figure 50	1	ESS (WC 73XX)
P/J303	Figure 50	23	
P/J310	Figure 51	10	ESS (WC 72XX)
P/J310	Figure 50	10	ESS (WC 73XX)
J330	Figure 51	4	ESS (WC 72XX)
J330	Figure 50	4	ESS (WC 73XX)
J331	Figure 51	3	ESS (WC 72XX)
J331	Figure 50	6	ESS (WC 73XX)
J332	Figure 51	5	ESS (WC 72XX)
J332	Figure 50	2	ESS (WC 73XX)
J333	Figure 51	23	ESS (WC 72XX)

Table 1 Plug/Jack Location List

Connector Number	Figure Number	Item Number	Figure Title
J333	Figure 50	3	ESS (WC 73XX)
J334	Figure 51	14	ESS (WC 72XX)
J334	Figure 50	5	ESS (WC 73XX)
P/J335	Figure 51	6	ESS (WC 72XX)
P/J335	Figure 50	7	ESS (WC 73XX)
P/J336	Figure 51	13	ESS (WC 72XX)
P/J336	Figure 50	12	ESS (WC 73XX)
J338	Figure 51	11	ESS (WC 72XX)
J338	Figure 50	13	ESS (WC 73XX)
J340	Figure 51	14	ESS (WC 72XX)
J340	Figure 50	17	ESS (WC 73XX)
P/J341 (WC 72XX)	Figure 52	1	ESS Options
P/J341 (WC 73XX)	Figure 52	3	ESS Options
J342	Figure 51	16	ESS (WC 72XX)
J342	Figure 50	15	ESS (WC 73XX)
J343	Figure 51	18	ESS (WC 72XX)
J343	Figure 50	17	ESS (WC 73XX)
P345 (WC 72XX)	Figure 52	2	ESS Options
P345 (WC 73XX)	Figure 52	4	ESS Options
P345 (WC 72XX)	Figure 52	2	ESS Options
P/J348	Figure 52	6, 7, 8	ESS Options
P/J349	Figure 50	21	ESS (WC 73XX)
P/J350	Figure 51	20	ESS (WC 72XX)
J351	Figure 51	15	ESS (WC 72XX)
J351	Figure 50	16	ESS (WC 73XX)
P/J352	Figure 51	19	ESS (WC 72XX)
P/J352	Figure 50	18	ESS (WC 73XX)
J352	Figure 22	5	Fax Box
P/J361	Figure 51	8	ESS (WC 72XX)
P/J361	Figure 50	8	ESS (WC 73XX)
P/J370	Figure 51	25	ESS (WC 72XX)
P/J370	Figure 50	22	ESS (WC 73XX)
P380	Figure 51	21	ESS (WC 72XX)
P380	Figure 50	19	ESS (WC 73XX)
P382	Figure 51	22	ESS (WC 72XX)
P382	Figure 50	20	ESS (WC 73XX)

Table 1 Plug/Jack Location List

Connector Number	Figure Number	Item Number	Figure Title
P/J400	Figure 15	1	MCU PWB
P/J401	Figure 15	16	MCU PWB
P/J402	Figure 15	15	MCU PWB
P/J403	Figure 15	5	MCU PWB
P/J404	Figure 15	6	MCU PWB
P/J405	Figure 15	8	MCU PWB
P/J406	Figure 15	7	MCU PWB
P/J408	Figure 15	9	MCU PWB
P/J409	Figure 15	2	MCU PWB
J410	Figure 16	6	I/F (MDD) PWB
P410	Figure 15	10	MCU PWB
P/J411	Figure 15	14	MCU PWB
P/J412	Figure 15	13	MCU PWB
P413	Figure 15	12	MCU PWB
P/J414	Figure 15	4	MCU PWB
P460	Figure 15	3	MCU PWB
P/J497	Figure 15	11	MCU PWB
P/J501	Figure 12	22	HVPS T13, T14/+24V LVPS
P/J502	Figure 12	5	LVPS T13
P/J502	Figure 12	7	+24V LVPS
P/J502	Figure 44	11	Finisher LVPS
P502	Figure 32	8	IIT LVPS
P/J503	Figure 12	2	HVPS T13, T14
P/J505	Figure 12	8	+24V LVPS
P505	Figure 32	3	IIT LVPS
P/J505	Figure 44	10	Finisher LVPS
P/J511A	Figure 16	29	I/F (MDD) PWB
P/J511B	Figure 16	20	I/F (MDD) PWB
P/J511C	Figure 16	22	I/F (MDD) PWB
P/J514	Figure 10	3	ROS Assembly, SOS PWB (C)
P/J515	Figure 10	2	ROS Assembly, SOS PWB (K)
P/J516	Figure 10	7	ROS Assembly, SOS PWB (Y)
P/J517	Figure 10	8	ROS Assembly, SOS PWB (M)
P/J518	Figure 10	9	ROS Assembly, ROS Motor
P/J526	Figure 10	5	ROS Assembly, Video Data (K)
P/J527	Figure 10	1	ROS Assembly, Video Data (C)
P/J528	Figure 10	6	ROS Assembly, Video Data (M)
P/J529	Figure 10	4	ROS Assembly, Video Data (Y)
P/J530	Figure 16	3	I/F (MDD) PWB, HVPS T12
P/J531	Figure 16	5	I/F (MDD) PWB, HVPS T12

Table 1 Plug/Jack Location List

Connector Number	Figure Number	Item Number	Figure Title
P/J532	Figure 16	1	I/F (MDD) PWB, HVPS T12
P/J533	Figure 16	32	I/F (MDD) PWB, HVPS T12
P/J534	Figure 16	30	I/F (MDD) PWB, HVPS T12
P/J535	Figure 16	15	I/F (MDD) PWB, HVPS T12
P/J536	Figure 16	9	I/F (MDD) PWB, HVPS T12
P/J537	Figure 16	19	I/F (MDD) PWB, HVPS T12
P/J538	Figure 4	1	Duplex Transport Assembly (Duplex PWB)
P/J539	Figure 4	3	Duplex Transport Assembly (Duplex PWB)
P/J539	Figure 16	17	I/F (MDD) PWB
P/J540	Figure 4	4	Duplex PWB
P/J540	Figure 16	7	I/F (MDD) PWB
P/J541	Figure 16	16	I/F (MDD) PWB
P/J541	Figure 21	11	3T Module
P/J541	Figure 26	14	TT Module
P/J542	Figure 16	18	I/F (MDD) PWB, HVPS T12
P/J543	Figure 16	10	I/F (MDD) PWB, HVPS T12
P/J546	Figure 21	1	3T Module
P/J546	Figure 26	1	TT Module
P/J547	Figure 21	4	3T Module
P/J547	Figure 26	4	TT Module
P/J548	Figure 21	12	3T Module
P/J548	Figure 26	15	TT Module
P/J549	Figure 21	10	3T Module
P/J549	Figure 26	13	TT Module
P/J551	Figure 16	31	I/F (MDD) PWB
P/J552	Figure 16	26	I/F (MDD) PWB, HVPS T12
P/J552	Figure 21	6	3T Module
P/J552	Figure 26	6	TT Module
P/J553	Figure 26	10	TT Module
P/J554	Figure 21	8	3T Module
P/J554	Figure 26	11	TT Module
P/J555	Figure 21	5	3T Module
P/J555	Figure 26	5	TT Module
P/J557	Figure 21	2	3T Module
P/J557	Figure 26	2	TT Module
P/J561	Figure 21	9	3T Module
P/J561	Figure 26	12	TT Module
P564	Figure 21	3	3T Module
P/J564	Figure 26	3	TT Module
P/J568	Figure 16	4	I/F (MDD) PWB

Table 1 Plug/Jack Location List

Connector Number	Figure Number	Item Number	Figure Title
P/J570	Figure 12	19	HVPS T13, T14/+24V LVPS
P/J571	Figure 12	20	HVPS T13, T14/+24V LVPS
P/J572	Figure 12	4	HVPS T13, T14/+24V LVPS
P/J573	Figure 12	1	HVPS T13, T14/+24V LVPS
P/J574	Figure 12	21	HVPS T13, T14/+24V LVPS
P/J575	Figure 16	13	I/F (MDD) PWB, HVPS T12
P/J576	Figure 16	14	I/F (MDD) PWB, HVPS T12
P/J580	Figure 12	16	HVPS T13
P/J581	Figure 12	3	HVPS T14
P/J583	Figure 51	7	ESS
P/J584	Figure 51	26	ESS
P/J590	Figure 17	13	Developer Motor, AC Drive PWB
P/J592	Figure 17	14	Developer Motor, AC Drive PWB
J600	Figure 5	1	Registration Transport Assembly
P600	Figure 6	10	Fuser Assembly
P/J602	Figure 1	24	Xerographics
P/J605	Figure 11	1	IBT Belt Assembly
P/J608	Figure 1	25	Xerographics
J610	Figure 8	1	MSI Unit (Bypass Tray)
P610	Figure 17	3	Developer Motor, AC Drive PWB
P/J611	Figure 7	5	Exit Transport Assembly (OCT)
J612	Figure 3	9	Left Cover Assembly, Inverter Transport Assembly
P612	Figure 17	4	Developer Motor, AC Drive PWB
J613	Figure 3	10	Left Cover Assembly, Inverter Transport Assembly
P613	Figure 17	5	Developer Motor, AC Drive PWB
P/J614	Figure 1	18	Xerographics
P/J617	Figure 18	6	Tray 1 Feeder, Left Lower Assembly
P/J619	Figure 1	1	Xerographics-
P/J620	Figure 5	6	Registration Transport Assembly
P/J622	Figure 1	22	Xerographics
P/J623	Figure 18	5	Tray 1 Feeder, Left Lower Assembly
P/J624	Figure 1	21	Xerographics
P626	Figure 3	13	Left Cover Assembly, Inverter Transport Assembly
J626	Figure 4	2	Duplex Transport Assembly
P/J631	Figure 1	23	Xerographics
J633	Figure 3	3	Left Cover Assembly, Inverter Transport Assembly
P633	Figure 3	7	Left Cover Assembly, Inverter Transport Assembly
P/J639	Figure 16	12	I/F (MDD) PWB, HVPS T12
J640	Figure 3	11	Left Cover Assembly, Inverter Transport Assembly
P640	Figure 17	6	Developer Motor, AC Drive PWB

Table 1 Plug/Jack Location List

Connector Number	Figure Number	Item Number	Figure Title
P/J641	Figure 16	8	I/F (MDD) PWB, HVPS T12
P/J651	Figure 17	22	Developer Motor, AC Drive PWB
P/J668	Figure 12	17	HVPS T13, T14/+24V LVPS
P/J669	Figure 12	18	HVPS T13, T14/+24V LVPS
P/J670	Figure 17	21	Connector (Tray Module-MCU PWB)
P/J670	Figure 19	6	3T Module
P/J670	Figure 23	9	TT Module
P/J672	Figure 19	13	3T Module
P/J672	Figure 23	7	TT Module
P/J674	Figure 19	11	3T Module
P/J674	Figure 26	9	TT Module
P/J680	Figure 17	20	Developer Motor, AC Drive PWB
P/J700	Figure 32	12	IIT Rear (IIT LVPS)
P/J702	Figure 31	13	Lamp Ballast PWB
P702	Figure 31	3	IIT/IPS PWB Assembly
J702	Figure 32	8	IIT LVPS
P/J703	Figure 31	11	IIT Front (Lamp Ballast PWB)
J705	Figure 32	3	IIT Rear (IIT LVPS)
P/J708	Figure 31	15	IIT Front (Lamp Ballast PWB)
P/J709	Figure 31	14	IIT Front (Lamp Ballast PWB)
P/J710	Figure 31	8	IIT Front (Lamp Ballast PWB)
P713	Figure 31	16	IIT Front (Lamp Ballast PWB)
P716	Figure 31	1	IIT Front (Lamp Ballast PWB)
P/J719	Figure 32	10	IIT Rear (IIT LVPS)
P/J720	Figure 31	4	IIT Front (Lamp Ballast PWB)
J721	Figure 32	1	IIT Rear (IIT LVPS)
P/J721	Figure 32	1	IIT Rear (IIT LVPS)
P/J722	Figure 31	6	IIT Front (Lamp Ballast PWB)
P/J723	Figure 31	5	IIT Front (Lamp Ballast PWB)
P/J725	Figure 32	5	IIT Rear (IIT LVPS)
P/J727	Figure 31	9	IIT Front (Lamp Ballast PWB)
P/J728	Figure 32	4	IIT Rear (IIT LVPS)
P/J729	Figure 32	2	IIT Rear (IIT LVPS)-
P/J742	Figure 31	17	IIT Front (Lamp Ballast PWB)
P743	Figure 31	2	IIT Front (Lamp Ballast PWB)
P/J750	Figure 32	11	IIT Rear (IIT LVPS)
P/J751	Figure 30	15	DADF PWB
P/J752	Figure 30	14	DADF PWB
P/J753	Figure 30	13	DADF PWB
P/J754	Figure 30	12	DADF PWB

Table 1 Plug/Jack Location List

Connector Number	Figure Number	Item Number	Figure Title
P/J755	Figure 30	11	DADF PWB
P/J756	Figure 30	5	DADF PWB
P/J757	Figure 30	4	DADF PWB
P/J758	Figure 30	3	DADF PWB
P/J759	Figure 30	2	DADF PWB
P/J760	Figure 30	1	DADF PWB
P/J761	Figure 30	16	DADF PWB
P/J764	Figure 30	9	DADF PWB
P/J765	Figure 30	10	DADF PWB
P/J766	Figure 29	3	DADF Rear
P/J767	Figure 29	18	DADF Rear
P/J769	Figure 30	8	DADF PWB
P/J770	Figure 30	7	DADF PWB
P/J771	Figure 29	14	DADF Rear
P/J772	Figure 29	15	DADF Rear
P/J774	Figure 29	13	DADF Rear
P/J775	Figure 29	16	DADF Rear
P/J776	Figure 29	17	DADF Rear-
P/J777	Figure 29	7	DADF Rear
P/J778	Figure 29	6	DADF Rear-
P/J779	Figure 29	5	DADF Rear
P/J780	Figure 29	8	DADF Rear
P/J781	Figure 29	12	DADF Rear
P/J782	Figure 29	10	DADF Rear
P/J785	Figure 30	17	DADF PWB
P/J786	Figure 30	6	DADF PWB
P/J787	Figure 29	11	DADF Rear
P/J788	Figure 29	9	DADF Rear
P/J791	Figure 29	4	DADF Rear
J800A	Figure 35	8	Office Finisher Rear
J800B	Figure 35	8	Office Finisher Rear
P800	Figure 16	27	I/F (MDD) PWB, HVPS T12
P800A	Figure 16	27	I/F (MDD) PWB, HVPS T12
P800B	Figure 16	27	I/F (MDD) PWB, HVPS T12
J801	Figure 12	6	HVPS T13, T14/+24V LVPS
P/J814	Figure 19	5	3T Module
P/J814	Figure 23	5	TT Module
P/J815	Figure 19	4	3T Module
P/J815	Figure 23	4	TT Module
P/J816	Figure 20	1	3T Module

Table 1 Plug/Jack Location List

Connector Number	Figure Number	Item Number	Figure Title
P/J816	Figure 25	1	TT Module
P/J818	Figure 19	5	3T Module
P/J818	Figure 23	3	TT Module
P/J819	Figure 19	4	3T Module
P/J819	Figure 23	4	TT Module
P/J820	Figure 20	2	3T Module
P/J820	Figure 25	3	TT Module
P/J821	Figure 19	10	3T Module
P/J821	Figure 23	6	TT Module
P/J822	Figure 19	4	3T Module
P/J822	Figure 24	1	TT Module
P/J823	Figure 19	5	3T Module
P/J823	Figure 24	2	TT Module
P/J824	Figure 20	3	3T Module
P/J824	Figure 25	2	TT Module
P/J825	Figure 19	9	3T Module
P/J825	Figure 24	3	TT Module
P/J826	Figure 21	7	3T Module
P/J826	Figure 26	7	TT Module
P/J827	Figure 19	3	3T Module
P/J827	Figure 23	3	TT Module
P/J828	Figure 19	3	3T Module
P/J828	Figure 23	3	TT Module
P/J829	Figure 19	3	3T Module
P/J829	Figure 24	4	TT Module
P/J830	Figure 19	8	3T Module (Tray 2, 3, 4 Feeder)
P/J840	Figure 19	7	3T Module (Tray 2, 3, 4 Feeder)
P/J841	Figure 19	14	3T Module
P/J841	Figure 23	8	TT Module
P/J842	Figure 19	12	3T Module
P/J842	Figure 26	8	TT Module
P/J843	Figure 36	9	Office Finisher Main PWB
P/J844	Figure 36	8	Office Finisher Main PWB
P/J845	Figure 36	5	Office Finisher Main PWB
P/J846	Figure 36	6	Office Finisher Main PWB
P/J847	Figure 36	7	Office Finisher Main PWB
P/J848	Figure 36	3	Office Finisher Main PWB
P/J849	Figure 36	4	Office Finisher Main PWB
P/J850	Figure 36	12	Office Finisher Main PWB
P/J851	Figure 36	10	Office Finisher Main PWB

Table 1 Plug/Jack Location List

Connector Number	Figure Number	Item Number	Figure Title
P/J852	Figure 36	11	Office Finisher Main PWB
P/J853	Figure 33	4	H-Transport Assembly-Office Finisher
P/J854	Figure 33	2	H-Transport Assembly-Office Finisher
P/J855	Figure 33	1	H-Transport Assembly-Office Finisher
P/J856	Figure 33	8	H-Transport Assembly-Office Finisher
P/J858	Figure 33	5	H-Transport Assembly-Office Finisher
P/J859	Figure 33	6	H-Transport Assembly-Office Finisher
P/J860	Figure 33	3	H-Transport Assembly-Office Finisher
P/J861	Figure 33	7	H-Transport Assembly-Office Finisher
P/J862	Figure 34	7	Finisher Tamper Unit, Staple Unit - Office Finisher
P/J863	Figure 34	11	Finisher Tamper Unit, Staple Unit - Office Finisher
P/J864	Figure 34	12	Finisher Tamper Unit, Staple Unit - Office Finisher
P/J865	Figure 34	14	Finisher Tamper Unit, Staple Unit - Office Finisher
P/J866	Figure 35	9	Office Finisher Rear
P/J867	Figure 35	2	Office Finisher Rear
P/J868	Figure 35	1	Office Finisher Rear
P/J869	Figure 35	12	Office Finisher Rear
P/J870	Figure 34	13	Finisher Tamper Unit, Staple Unit - Office Finisher
P/J871	Figure 34	16	Finisher Tamper Unit, Staple Unit - Office Finisher
P/J873	Figure 35	10	Office Finisher Rear
P/J874	Figure 34	1	Finisher Tamper Unit, Staple Unit - Office Finisher
P/J875	Figure 34	4	Finisher Tamper Unit, Staple Unit - Office Finisher
P/J876	Figure 34	5	Finisher Tamper Unit, Staple Unit - Office Finisher
P/J877	Figure 34	2	Finisher Tamper Unit, Staple Unit - Office Finisher
P/J878	Figure 34	3	Finisher Tamper Unit, Staple Unit - Office Finisher
P/J879	Figure 35	7	Office Finisher Rear
P/J880	Figure 35	5	Office Finisher Rear
P/J881	Figure 35	6	Office Finisher Rear
P/J882	Figure 35	11	Office Finisher Rear
P/J883	Figure 35	3	Office Finisher Rear
P/J884	Figure 35	4	Office Finisher Rear
P/J885	Figure 34	10	Finisher Tamper Unit, Staple Unit - Office Finisher
P/J886	Figure 34	8	Finisher Tamper Unit, Staple Unit - Office Finisher
P/J887	Figure 34	9	Finisher Tamper Unit, Staple Unit - Office Finisher
P/J888	Figure 34	15	Finisher Tamper Unit, Staple Unit - Office Finisher
P/J889	Figure 36	2	Office Finisher Main PWB-
P/J890	Figure 34	6	Finisher Tamper Unit, Staple Unit - Office Finisher
P/J891	Figure 34	17	Finisher Tamper Unit, Staple Unit - Office Finisher
P/J892	Figure 36	1	Office Finisher Main PWB
P903	Figure 12	15	HVPS T13, T14

Table 1 Plug/Jack Location List

Connector Number	Figure Number	Item Number	Figure Title
P1601	Figure 52	5	ESS Options
P/J7051	Figure 32	9	IIT Rear (IIT LVPS)
J7131	Figure 31	16	IIT Front
P/J7151	Figure 31	18	IIT Front
P/J7152	Figure 32	6	IIT Rear (IIT LVPS)
P7211	Figure 32	1	IIT Rear (IIT LVPS)
P7241	Figure 31	12	IIT Front
P7242	Figure 31	10	IIT Front
P/J7261	Figure 31	7	IIT Front
P/J8175	Figure 47	5	Booklet Front Adv./Prof. Finishers
P/J8176	Figure 46	5	Booklet Rear Adv./Prof. Finishers
P/J8177	Figure 46	2	Booklet Rear Adv./Prof. Finishers
P/J8178	Figure 46	4	Booklet Rear Adv./Prof. Finishers
P/J8179	Figure 46	12	Booklet Rear Adv./Prof. Finishers
P/J8180	Figure 46	11	Booklet Rear Adv./Prof. Finishers
P/J8181	Figure 47	4	Booklet Front Adv./Prof. Finishers
P/J8182	Figure 47	1	Booklet Front Adv./Prof. Finishers
P/J8183	Figure 47	2	Booklet Front Adv./Prof. Finishers
P/J8185	Figure 46	6	Booklet Rear Adv./Prof. Finishers
P/J8186	Figure 46	10	Booklet Rear Adv./Prof. Finishers
P/J8187	Figure 46	7	Booklet Rear Adv./Prof. Finishers
P/J8188	Figure 46	13	Booklet Rear Adv./Prof. Finishers
P/J8189	Figure 47	6	Booklet Front Adv./Prof. Finishers
P/J8190	Figure 46	3	Booklet Rear Adv./Prof. Finishers
P/J8191	Figure 46	1	Booklet Rear Adv./Prof. Finishers
P/J8196	Figure 46	9	Booklet Rear Adv./Prof. Finishers
P/J8197	Figure 46	8	Booklet Rear Adv./Prof. Finishers
J8201	Figure 47	9	Booklet Front Adv./Prof. Finishers
P8201	Figure 47	3	Booklet Front Adv./Prof. Finishers
J8202	Figure 49	6	Booklet PWB Adv./Prof. Finishers
P8202	Figure 47	7	Booklet Front Adv./Prof. Finishers
J8203	Figure 49	7	Booklet PWB Adv./Prof. Finishers
P8203	Figure 47	8	Booklet Front Adv./Prof. Finishers
P/J8218	Figure 48	3	Booklet Tray Unit Adv./Prof. Finishers
P/J8300	Figure 45	7	Adv./Prof. Finishers Main PWB
P/J8301	Figure 45	8	Adv./Prof. Finishers Main PWB
P/J8302	Figure 45	16	Adv./Prof. Finishers Main PWB
P/J8303	Figure 43	8	Adv./Prof. Finishers Rear
P/J8304	Figure 45	1	Adv./Prof. Finishers Main PWB
P/J8305	Figure 45	18	Adv./Prof. Finishers Main PWB

Table 1 Plug/Jack Location List

Connector Number	Figure Number	Item Number	Figure Title
P/J8306	Figure 45	4	Adv./Prof. Finishers Main PWB
P/J8307	Figure 45	5	Adv./Prof. Finishers Main PWB
P/J8308	Figure 45	2	Adv./Prof. Finishers Main PWB
P/J8309	Figure 45	19	Adv./Prof. Finishers Main PWB
P/J8310	Figure 45	9	Adv./Prof. Finishers Main PWB
P8311	Figure 45	15	Adv./Prof. Finishers Main PWB
P/J8312	Figure 43	6	Adv./Prof. Finishers Rear
P/J8313	Figure 45	12	Adv./Prof. Finishers Main PWB
P/J8314	Figure 45	11	Adv./Prof. Finishers Main PWB
P/J8315	Figure 45	13	Adv./Prof. Finishers Main PWB
P/J8316	Figure 45	10	Adv./Prof. Finishers Main PWB
P/J8317	Figure 45	14	Adv./Prof. Finishers Main PWB
P/J8319	Figure 38	8	Adv./Prof. Finishers Top Tray Exit Sensor, Gate Sensor
P/J8320	Figure 39	1	Adv./Prof. Finishers Compiler Exit Sensor, Buffer Path Sensor
P/J8321	Figure 38	2	Adv./Prof. Finishers Top Tray Exit Sensor, Gate Sensor
P/J8322	Figure 38	3	Adv./Prof. Finishers Top Tray Exit Sensor, Gate Sensor
P/J8324	Figure 43	25	Adv./Prof. Finishers Rear
P/J8325	Figure 43	23	Adv./Prof. Finishers Rear
P/J8326	Figure 44	4	Adv./Prof. Finishers - Stacker Sensor, H-Transport PWB, LVPS
P/J8327	Figure 44	3	Adv./Prof. Finishers - Stacker Sensor, H-Transport PWB, LVPS
P/J8328	Figure 43	20	Adv./Prof. Finishers Rear
P/J8330	Figure 44	1	Adv./Prof. Finishers - Stacker Sensor, H-Transport PWB, LVPS
P/J8331	Figure 44	2	Adv./Prof. Finishers - Stacker Sensor, H-Transport PWB, LVPS
P/J8332	Figure 43	16	Adv./Prof. Finishers Rear
P/J8333	Figure 43	13	Adv./Prof. Finishers Rear
P/J8334	Figure 43	4	Adv./Prof. Finishers Rear
P/J8335	Figure 43	3	Adv./Prof. Finishers Rear
P/J8336	Figure 43	24	Adv./Prof. Finishers Rear
P/J8338	Figure 43	22	Adv./Prof. Finishers Rear-
P/J8339	Figure 43	2	Adv./Prof. Finishers Rear
P/J8340	Figure 39	2	Adv./Prof. Finishers Compiler Exit Sensor, Buffer Path Sensor
P/J8340	Figure 43	17	Stack Height Sensor

Table 1 Plug/Jack Location List

Connector Number	Figure Number	Item Number	Figure Title
P/J8341	Figure 43	19	Transport Gate Solenoid
P/J8342	Figure 43	12	Adv./Prof. Finishers Rear
P/J8343	Figure 43	11	Gate Sensor
P/J8343	Figure 45	6	C-Finisher Main PWB
P/J8344	Figure 42	3	Adv./Prof. Finishers - Puncher Unit
P/J8345	Figure 43	10	Adv./Prof. Finishers Rear
P/J8346	Figure 42	8	Adv./Prof. Finishers - Puncher Unit
P/J8347	Figure 42	7	Adv./Prof. Finishers - Puncher Unit
P/J8348	Figure 42	1	Adv./Prof. Finishers - Puncher Unit
P/J8349	Figure 43	9	Adv./Prof. Finishers Rear
P/J8350	Figure 42	5	Adv./Prof. Finishers - Puncher Unit
P/J8351	Figure 42	4	Adv./Prof. Finishers - Puncher Unit
P/J8352	Figure 42	2	Adv./Prof. Finishers - Puncher Unit
P/J8353	Figure 42	6	Adv./Prof. Finishers - Puncher Unit
P/J8354	Figure 40	3	Adv./Prof. Finishers - Stapler Unit
P/J8355	Figure 43	14	Adv./Prof. Finishers Rear
P/J8356	Figure 40	1	Adv./Prof. Finishers - Stapler Unit
P/J8357	Figure 40	2	Adv./Prof. Finishers - Stapler Unit
P/J8358	Figure 40	4	Adv./Prof. Finishers - Stapler Unit
P/J8359	Figure 41	2	Adv./Prof. Finishers - Compile Tray Assembly
P/J8360	Figure 41	3	Adv./Prof. Finishers - Compile Tray Assembly
P/J8361	Figure 41	1	Adv./Prof. Finishers - Compile Tray Assembly
P/J8362	Figure 41	5	Adv./Prof. Finishers - Compile Tray Assembly
P/J8363	Figure 41	4	Adv./Prof. Finishers - Compile Tray Assembly
J8364	Figure 38	4	Adv./Prof. Finishers Top Tray Exit Sensor, Gate Sensor
J8365	Figure 38	7	Adv./Prof. Finishers Top Tray Exit Sensor, Gate Sensor
P/J8371	Figure 44	5	Adv./Prof. Finishers - Stacker Sensor, H-Transport PWB, LVPS
P/J8373	Figure 44	7	Adv./Prof. Finishers - Stacker Sensor, H-Transport PWB, LVPS
P/J8376	Figure 45	17	Adv./Prof. Finishers Main PWB
P/J8377	Figure 49	3	Booklet PWB Adv./Prof. Finishers
P/J8378	Figure 49	1	Booklet PWB Adv./Prof. Finishers
P/J8383	Figure 38	6	Adv./Prof. Finishers Top Tray Exit Sensor, Gate Sensor
J8384	Figure 38	5	Adv./Prof. Finishers Top Tray Exit Sensor, Gate Sensor
P8389	Figure 45	3	Adv./Prof. Finishers Main PWB
P/J8391	Figure 43	26	Adv./Prof. Finishers Rear

Table 1 Plug/Jack Location List

Connector Number	Figure Number	Item Number	Figure Title
P/J8392	Figure 39	3	Adv./Prof. Finishers Compiler Exit Sensor, Buffer Path Sensor
P/J8393	Figure 43	1	Adv./Prof. Finishers Rear-
P/J8394	Figure 43	21	Adv./Prof. Finishers Rear
P/J8396	Figure 44	6	Adv./Prof. Finishers - Stacker Sensor, H-Transport PWB, LVPS
P/J8405	Figure 49	4	Booklet PWB Adv./Prof. Finishers
P/J8406	Figure 49	10	Booklet PWB Adv./Prof. Finishers
P/J8407	Figure 49	9	Booklet PWB Adv./Prof. Finishers
P/J8408	Figure 49	8	Booklet PWB Adv./Prof. Finishers
P/J8409	Figure 43	7	Adv./Prof. Finishers Rear
P/J8411	Figure 49	11	Booklet PWB Adv./Prof. Finishers
P/J8429	Figure 49	5	Booklet PWB Adv./Prof. Finishers
P/J8432	Figure 38	1	Adv./Prof. Finishers Top Tray Exit Sensor, Gate Sensor
P/J8434	Figure 43	5	Adv./Prof. Finishers Rear-
P/J8440	Figure 43	17	Adv./Prof. Finishers Rear
P/J8441	Figure 43	18	Adv./Prof. Finishers Rear
J8444	Figure 37	1	Adv./Prof. Finishers - H-Transport Assembly
P8444	Figure 44	8	Adv./Prof. Finishers - Stacker Sensor, H-Transport PWB, LVPS
P/J8445	Figure 37	4	Adv./Prof. Finishers - H-Transport Assembly
P/J8446	Figure 37	3	Adv./Prof. Finishers - H-Transport Assembly
P/J8447	Figure 37	8	Adv./Prof. Finishers - H-Transport Assembly
P/J8448	Figure 37	5	Adv./Prof. Finishers - H-Transport Assembly
P/J8449	Figure 37	10	Adv./Prof. Finishers - H-Transport Assembly
P/J8450	Figure 37	11	Adv./Prof. Finishers - H-Transport Assembly
P/J8451	Figure 37	6	Adv./Prof. Finishers - H-Transport Assembly
P/J8452	Figure 37	9	Adv./Prof. Finishers - H-Transport Assembly
P/J8453	Figure 37	2	Adv./Prof. Finishers - H-Transport Assembly
P/J8460	Figure 48	2	Adv./Prof. Finishers Booklet Tray Unit
P/J8461	Figure 44	12	Adv./Prof. Finishers - Stacker Sensor, H-Transport PWB, LVPS
P/J8465	Figure 37	7	Adv./Prof. Finishers - H-Transport Assembly
CN1	Figure 28	2	Control Panel
CN1	Figure 28	7	Control Panel
CN1	Figure 49	2	Adv./Prof. Finishers Booklet PWB
CN2	Figure 28	5	Control Panel (Back Light)
CN2	Figure 28	6	Control Panel (Inverter PWB)
CN3	Figure 28	8	Control Panel (Inverter PWB)
CN3	Figure 28	10	Control Panel (Back Light)

Table 1 Plug/Jack Location List

Connector Number	Figure Number	Item Number	Figure Title
CNP352	Figure 22	5	Fax Box
CNP/CNJ353	Figure 22	6	Fax Box
CNP/CNJ355	Figure 22	7	Fax Box
CNP/CNJ356	Figure 22	8	Fax Box
CNP/CNJ361	Figure 22	1	Fax Box
CNP362	Figure 22	10	Fax Box
CNP/CNJ363	Figure 22	4	Fax Box
CNP/CNJ364	Figure 22	3	Fax Box
CNP/CNJ365	Figure 22	2	Fax Box
CNP/CNJ366	Figure 22	9	Fax Box
CNP367	Figure 22	11	Fax Box
F1	Figure 29	2	DADF Rear
F2	Figure 29	1	DADF Rear
FS180	Figure 9	17	Toner Dispense Motor (Y, M, C, K), Main Switch
FS181	Figure 9	1	Toner Dispense Motor (Y, M, C, K), Main Switch
FS182	Figure 9	2	Toner Dispense Motor (Y, M, C, K), Main Switch
FS183	Figure 9	3	Toner Dispense Motor (Y, M, C, K), Main Switch
FS184	Figure 9	4	Toner Dispense Motor (Y, M, C, K), Main Switch
FS185	Figure 9	5	Toner Dispense Motor (Y, M, C, K), Main Switch
FS186	Figure 9	6	Toner Dispense Motor (Y, M, C, K), Main Switch
FS187	Figure 9	7	Toner Dispense Motor (Y, M, C, K), Main Switch
FS37	Figure 6	2	Fuser Assembly
FS38	Figure 6	1	Fuser Assembly
FS40	Figure 17	10	Developer Motor, AC Drive PWB
FS41	Figure 17	11	Developer Motor, AC Drive PWB
FS46	Figure 17	12	Developer Motor, AC Drive PWB
FS47	Figure 17	15	Developer Motor, AC Drive PWB
FS48	Figure 17	16	Developer Motor, AC Drive PWB
FS51	Figure 12	12	-
FS56	Figure 9	12	Toner Dispense Motor (Y, M, C, K), Main Switch
FS57	Figure 9	11	Toner Dispense Motor (Y, M, C, K), Main Switch
FS68	Figure 9	13	Toner Dispense Motor (Y, M, C, K), Main Switch
FS69	Figure 9	14	Toner Dispense Motor (Y, M, C, K), Main Switch
FS78	Figure 13	5	Scanner Outlet, PWS Outlet, Finisher Outlet
FS79	Figure 13	4	Scanner Outlet, PWS Outlet, Finisher Outlet
FS80	Figure 13	9	Scanner Outlet, PWS Outlet, Finisher Outlet
FS81	Figure 13	7	Scanner Outlet, PWS Outlet, Finisher Outlet
FS82	Figure 13	6	Scanner Outlet, PWS Outlet, Finisher Outlet
FS83	Figure 13	8	Scanner Outlet, PWS Outlet, Finisher Outlet
FS84	Figure 13	1	Scanner Outlet, PWS Outlet, Finisher Outlet

Table 1 Plug/Jack Location List

Connector Number	Figure Number	Item Number	Figure Title
FS85	Figure 13	2	Scanner Outlet, PWS Outlet, Finisher Outlet
FS86	Figure 13	3	Scanner Outlet, PWS Outlet, Finisher Outlet
FS134	Figure 1	13	Xerographics
FS135	Figure 1	14	Xerographics
FS812	Figure 19	1	3T Module
FS812	Figure 23	1	TT Module
FS813	Figure 19	2	3T Module
FS813	Figure 23	2	TT Module
T74	Figure 13	13	Scanner Outlet, PWS Outlet, Finisher Outlet
T75	Figure 13	12	Scanner Outlet, PWS Outlet, Finisher Outlet
T76	Figure 13	10	Scanner Outlet, PWS Outlet, Finisher Outlet
T77	Figure 13	11	Scanner Outlet, PWS Outlet, Finisher Outlet

Plug/Jack Illustrations

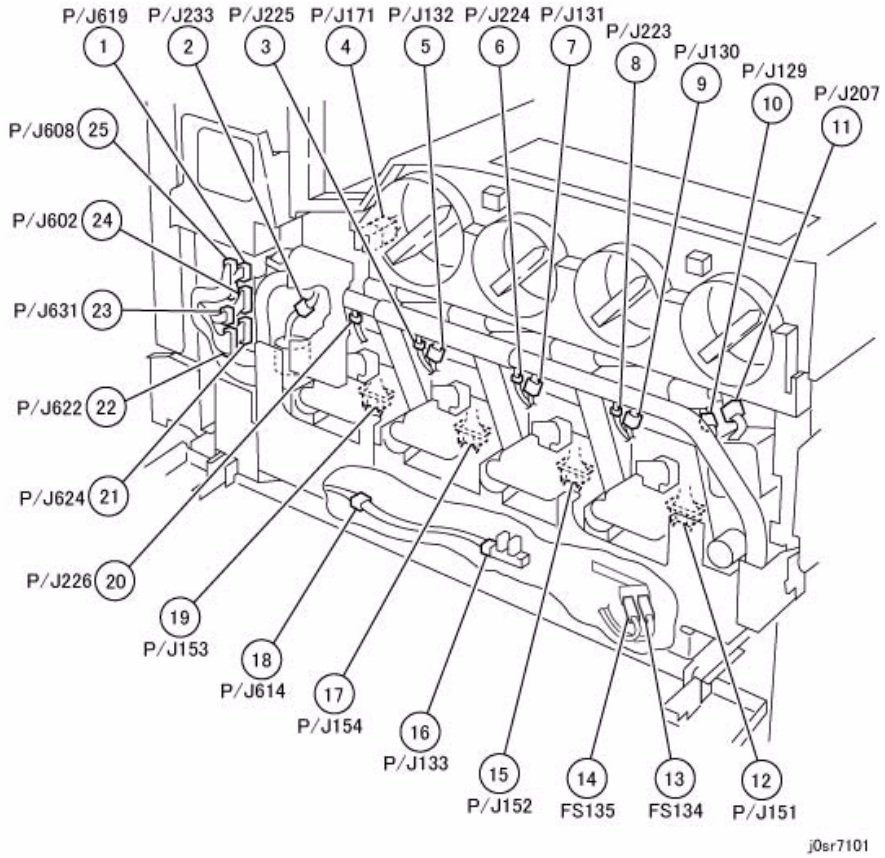


Figure 1 Xerographics. (j0sr7101)

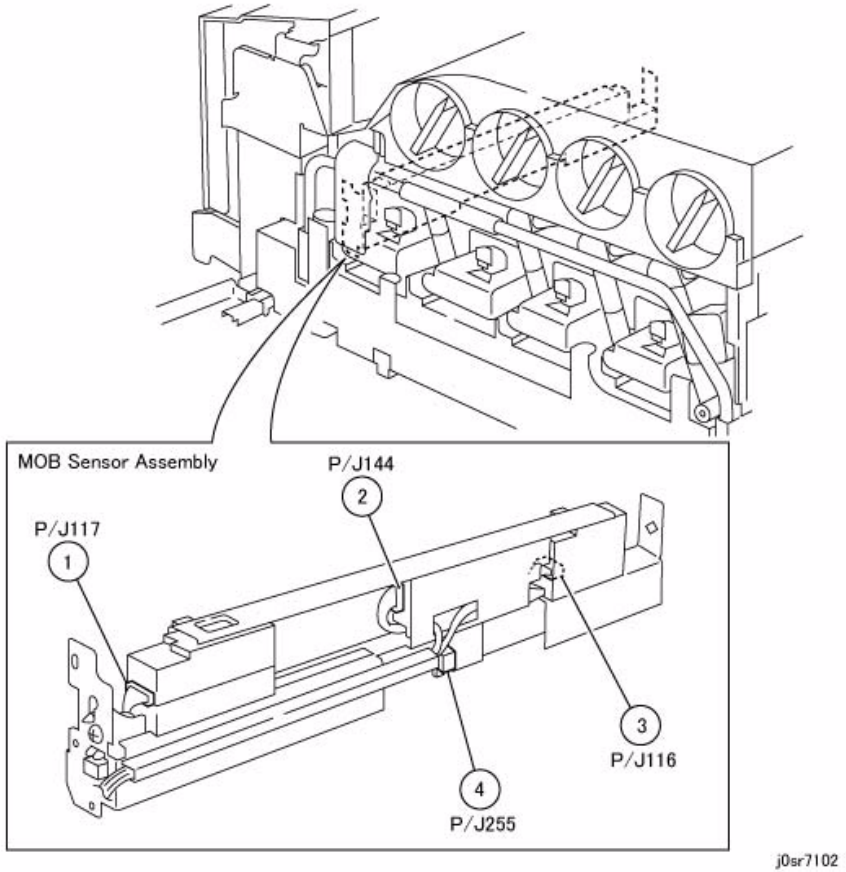


Figure 2 MOB Sensor Assembly (j0sr7102)

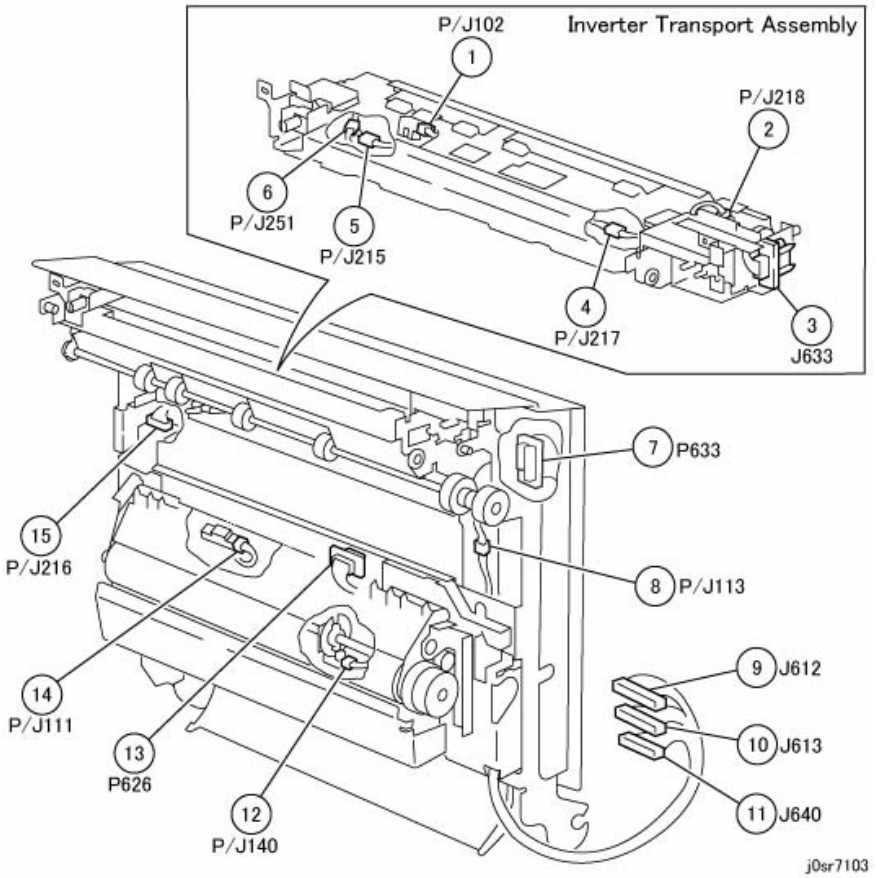


Figure 3 Left Cover Assembly, Inverter Transport Assembly (j0sr7103)

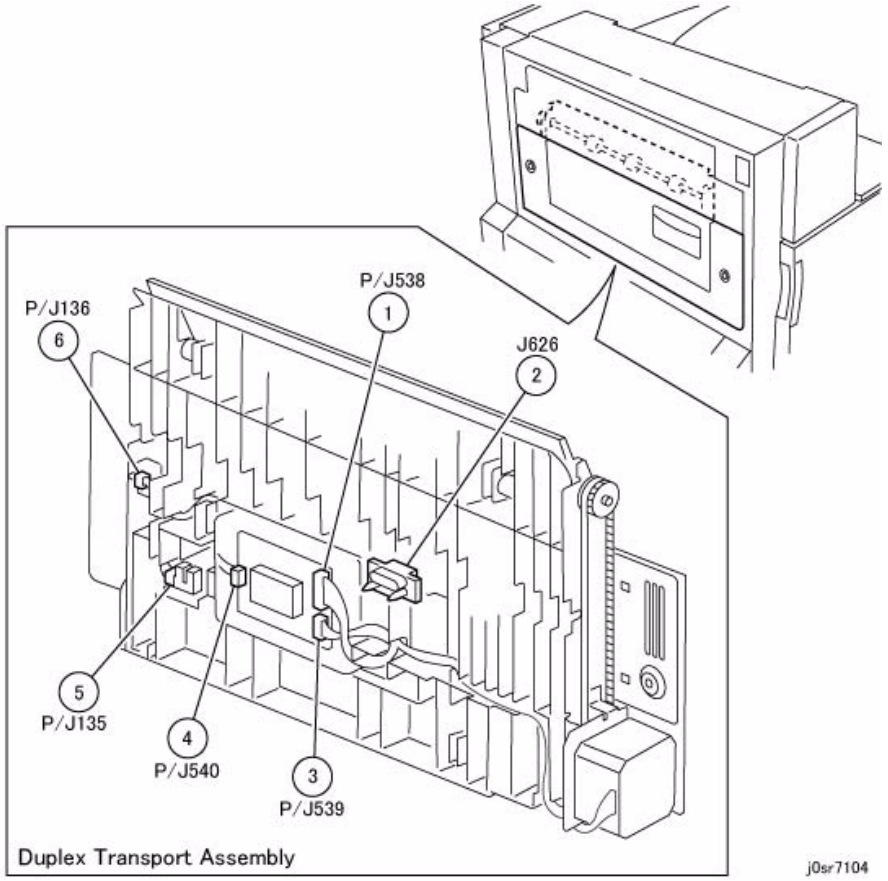


Figure 4 Duplex Transport Assembly (j0sr7104)

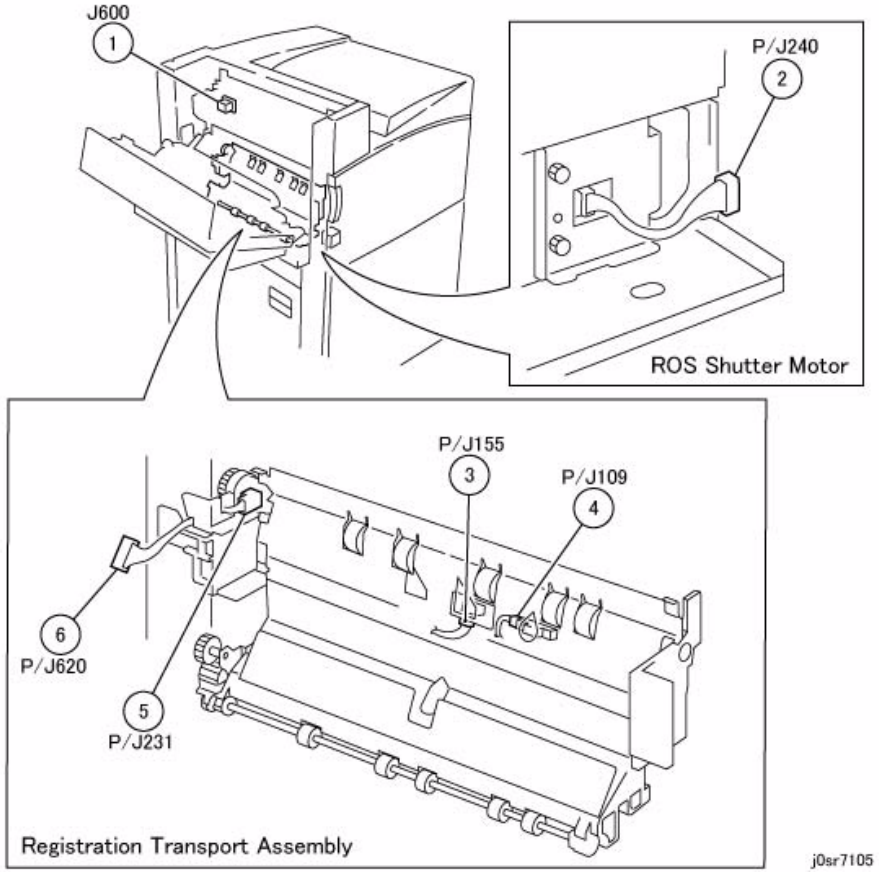


Figure 5 Registration Transport Assembly (j0sr7105)

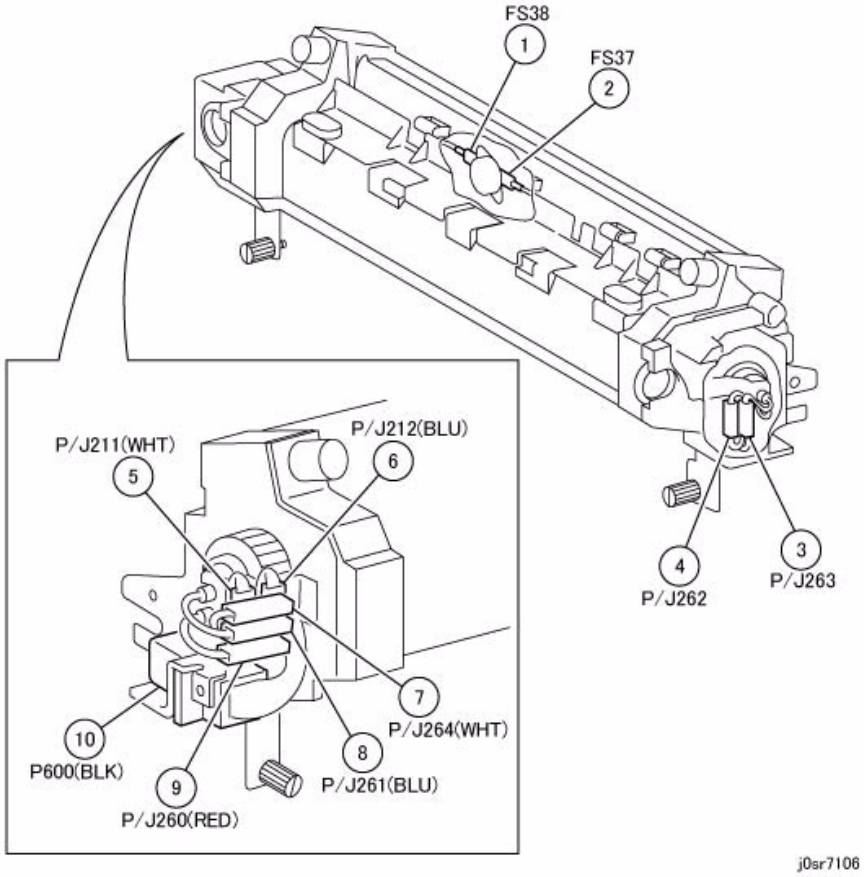


Figure 6 Fuser Assembly (j0sr7106)

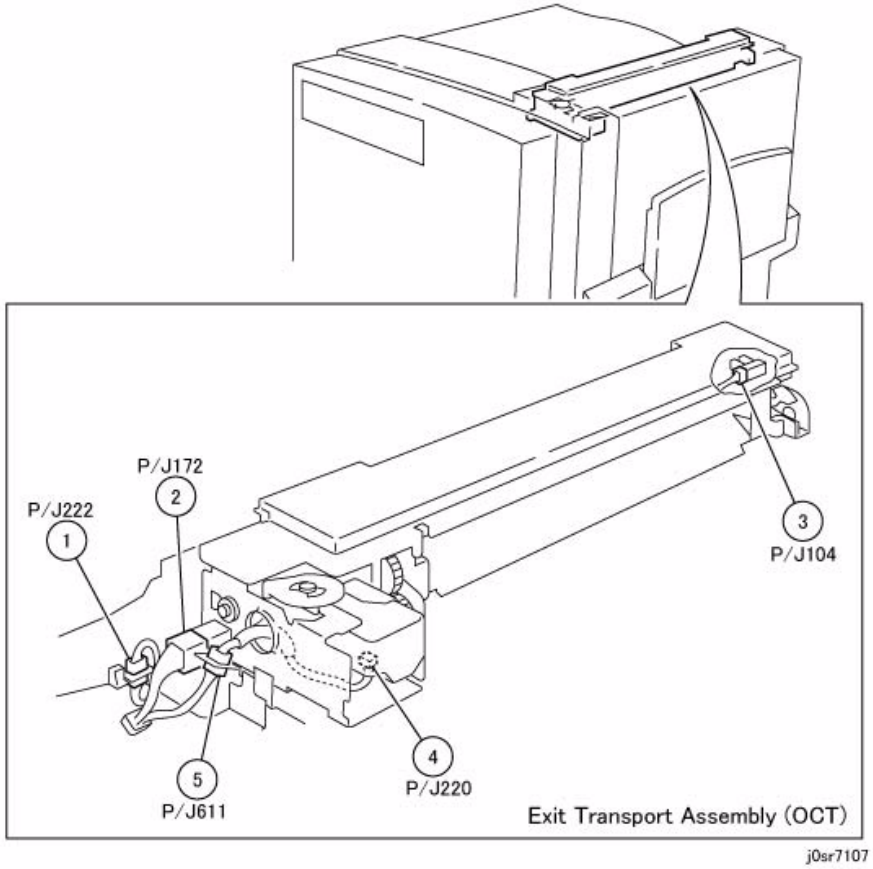


Figure 7 Exit Transport Assembly (OCT) (j0sr7107)

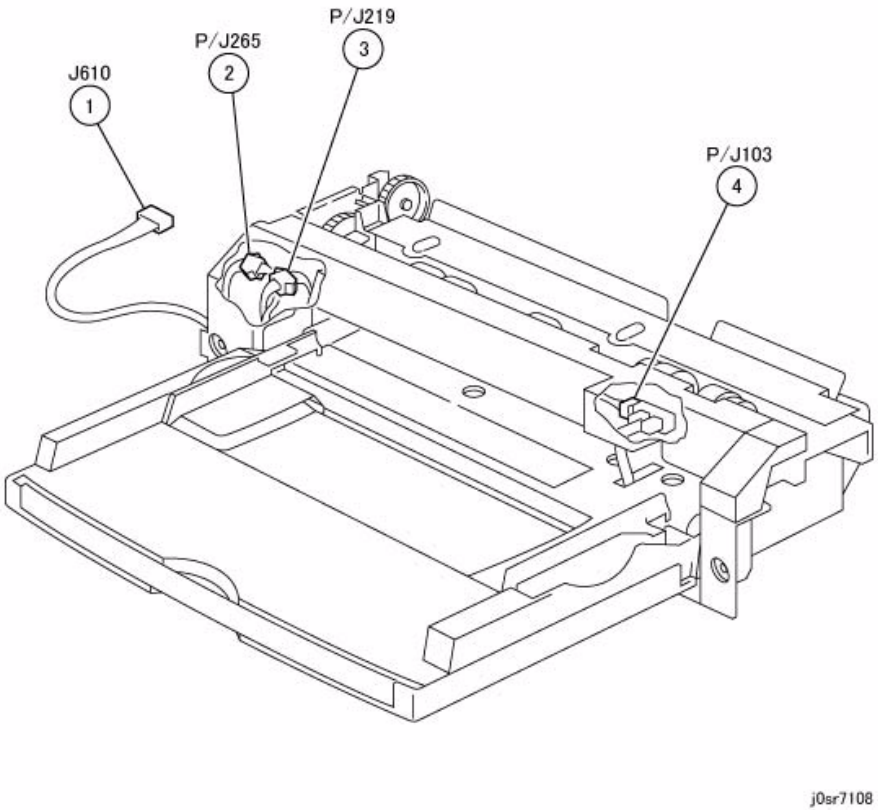


Figure 8 MSI Unit (Bypass Tray) (j0sr7108)

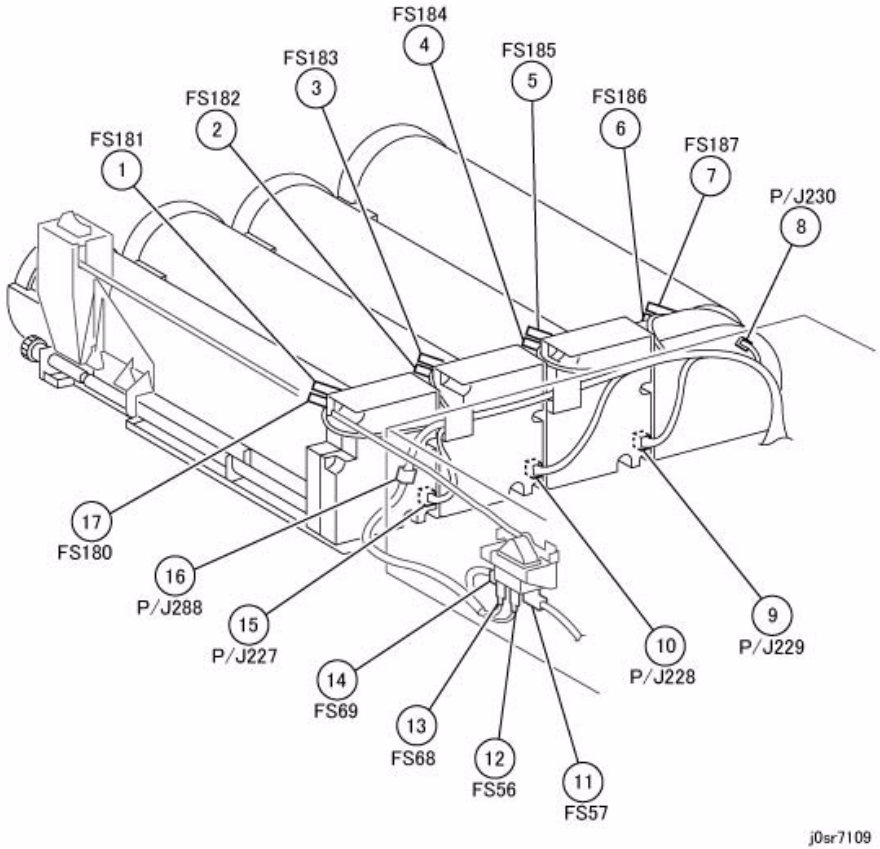


Figure 9 Toner Dispense Motor (Y, M, C, K), Main Switch (j0sr7109)

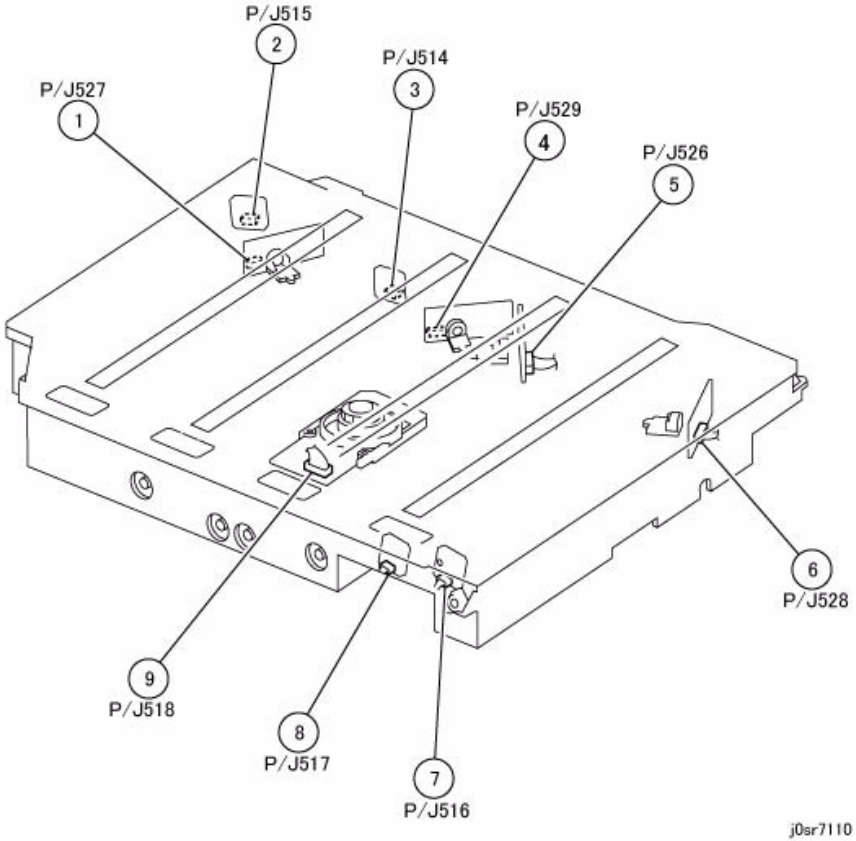


Figure 10 ROS Assembly (j0sr7110)

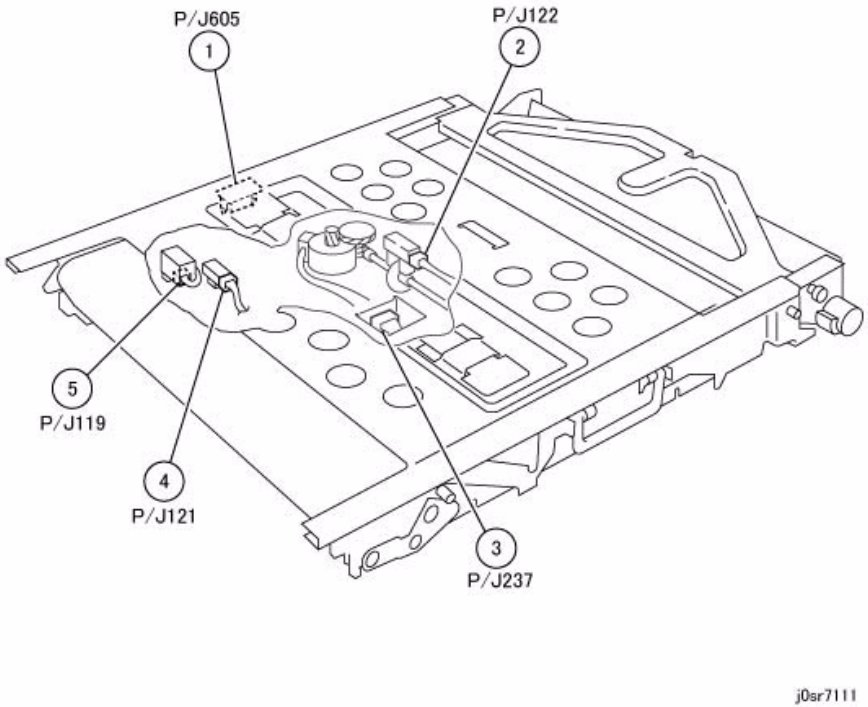


Figure 11 IBT Belt Assembly (j0sr7111)

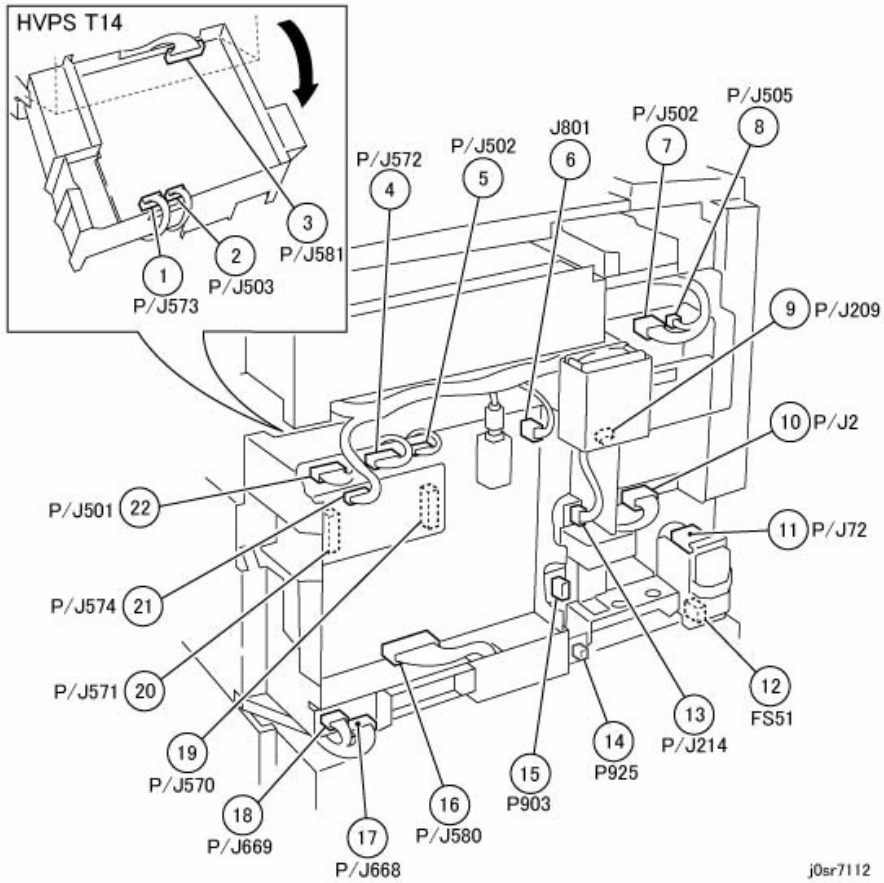


Figure 12 HVPS T13, T14/+24V LVPS (j0sr7112)

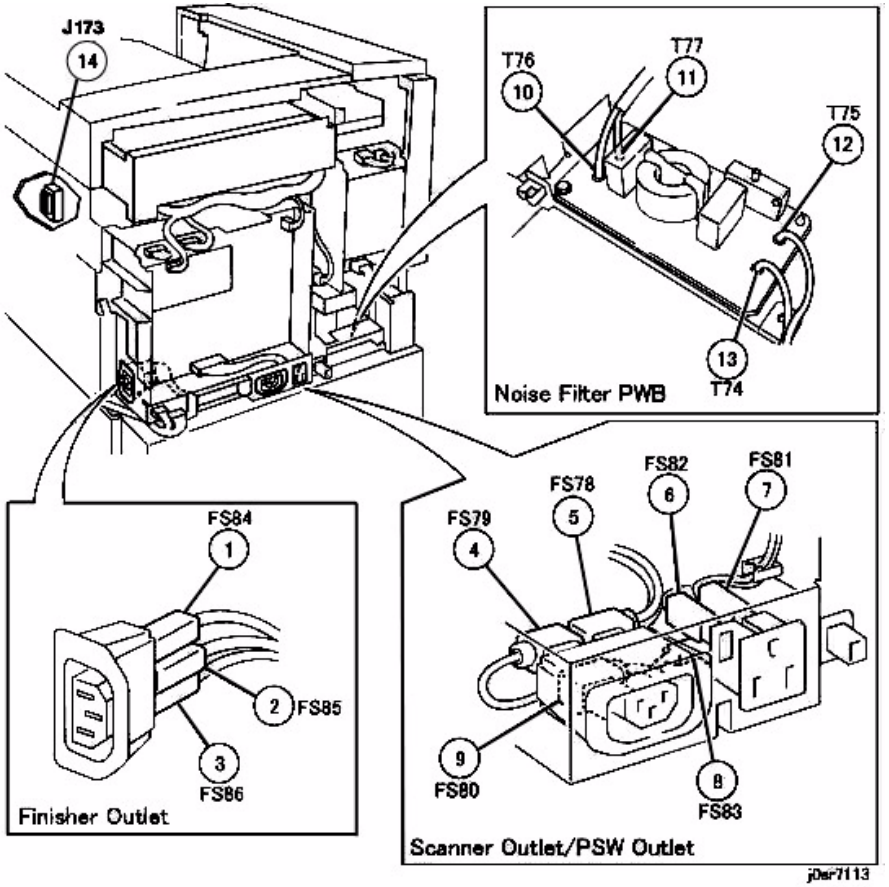


Figure 13 Scanner Outlet, PWS Outlet, Finisher Outlet (j0sr7113)

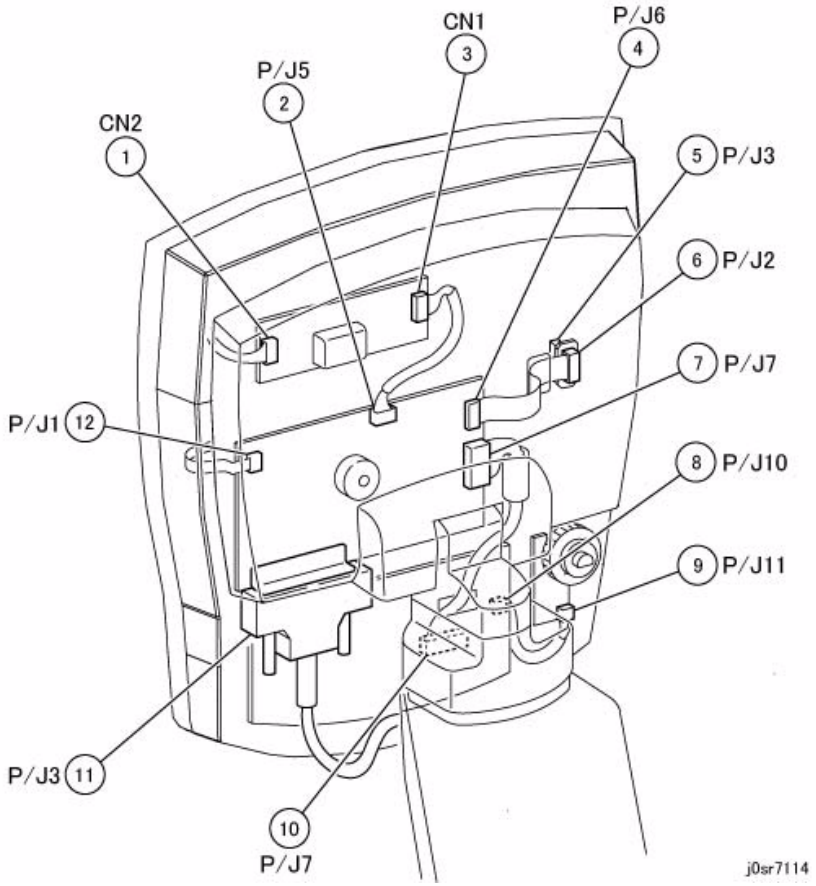


Figure 14 FCW Control Panel -- FX ONLY

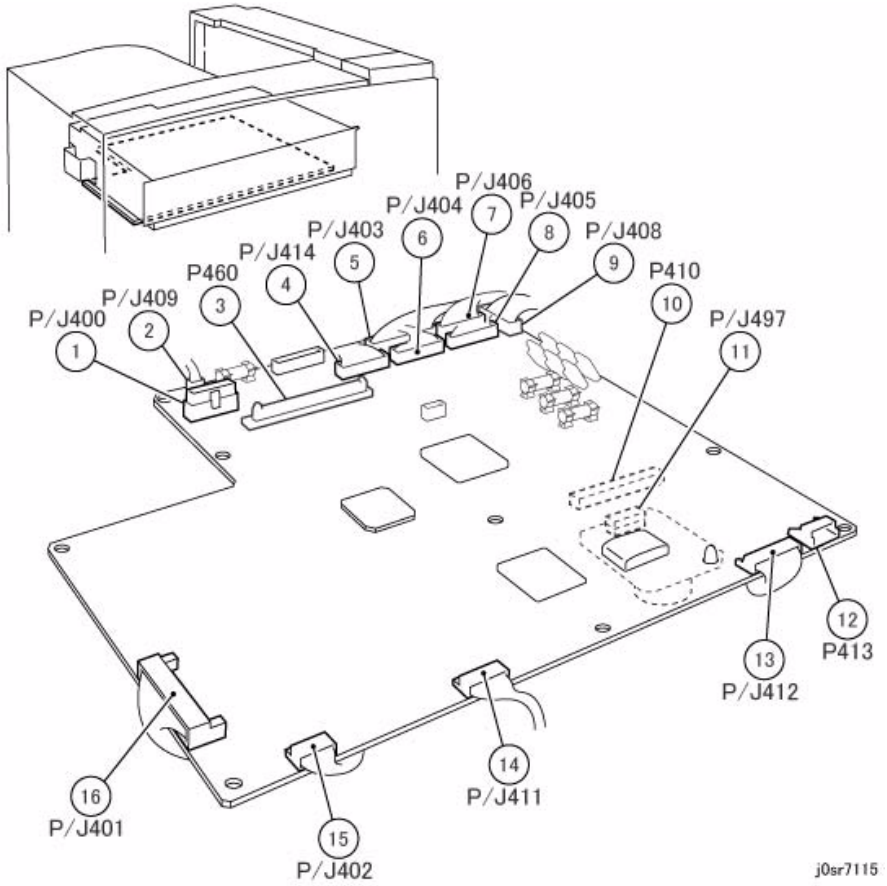


Figure 15 MCU PWB (j0sr7115)

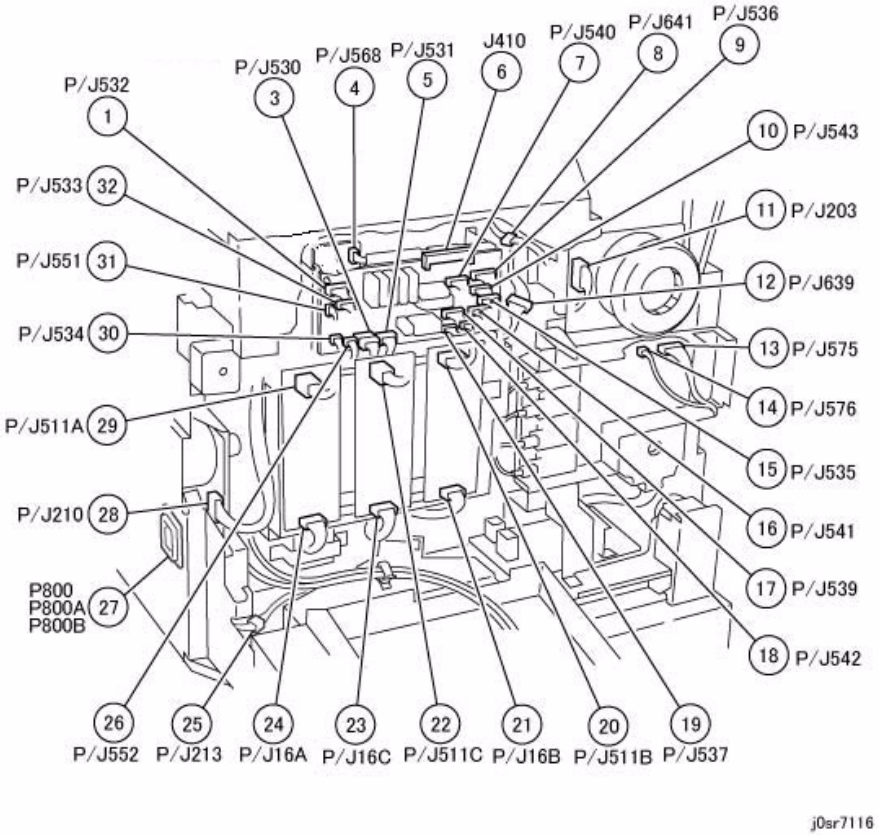


Figure 16 I/F (MDD) PWB, HVPS T12 (j0sr7116)

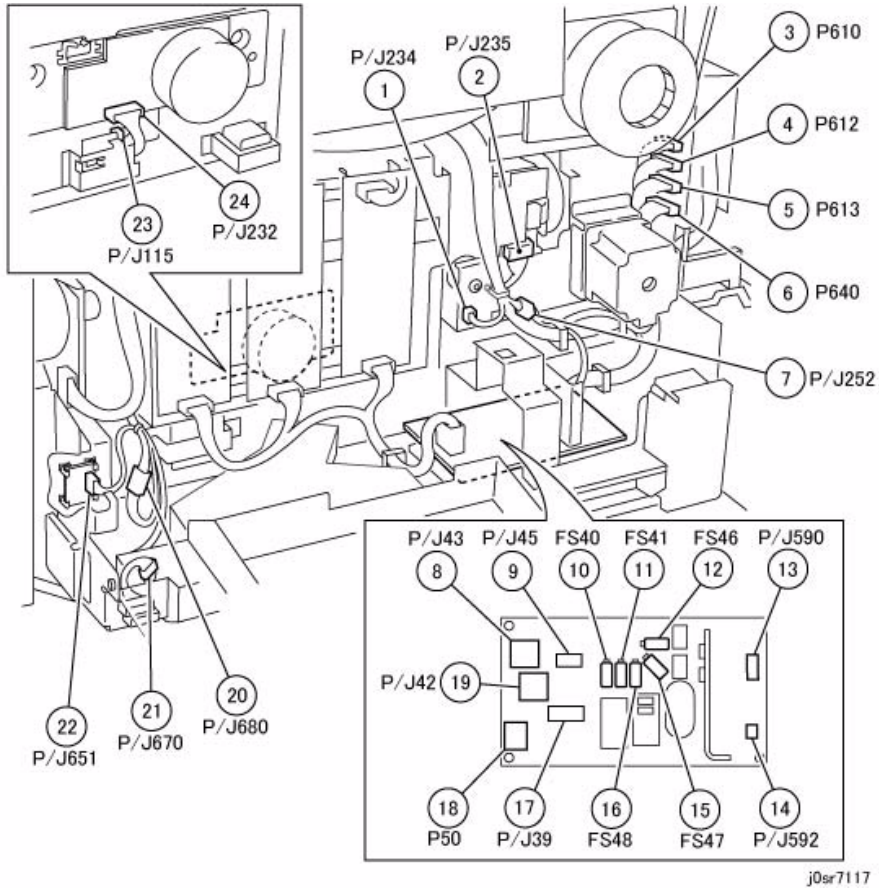


Figure 17 Developer Motor, AC Drive PWB (j0sr7117)

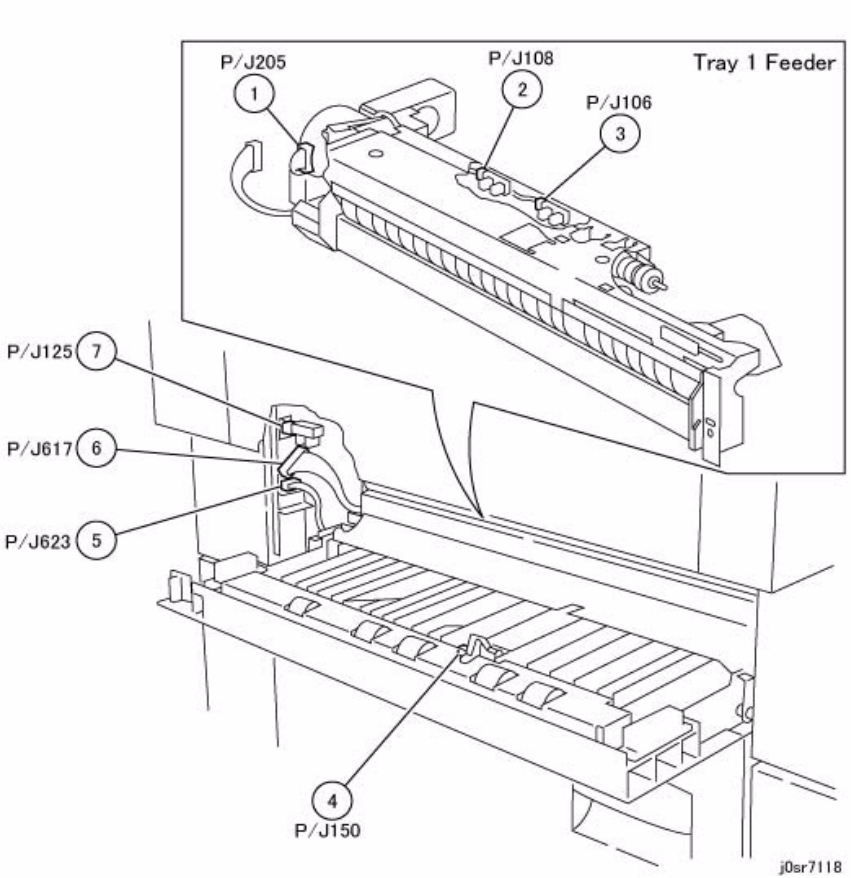


Figure 18 Tray 1 Feeder, Left Lower Assembly (j0sr7118)

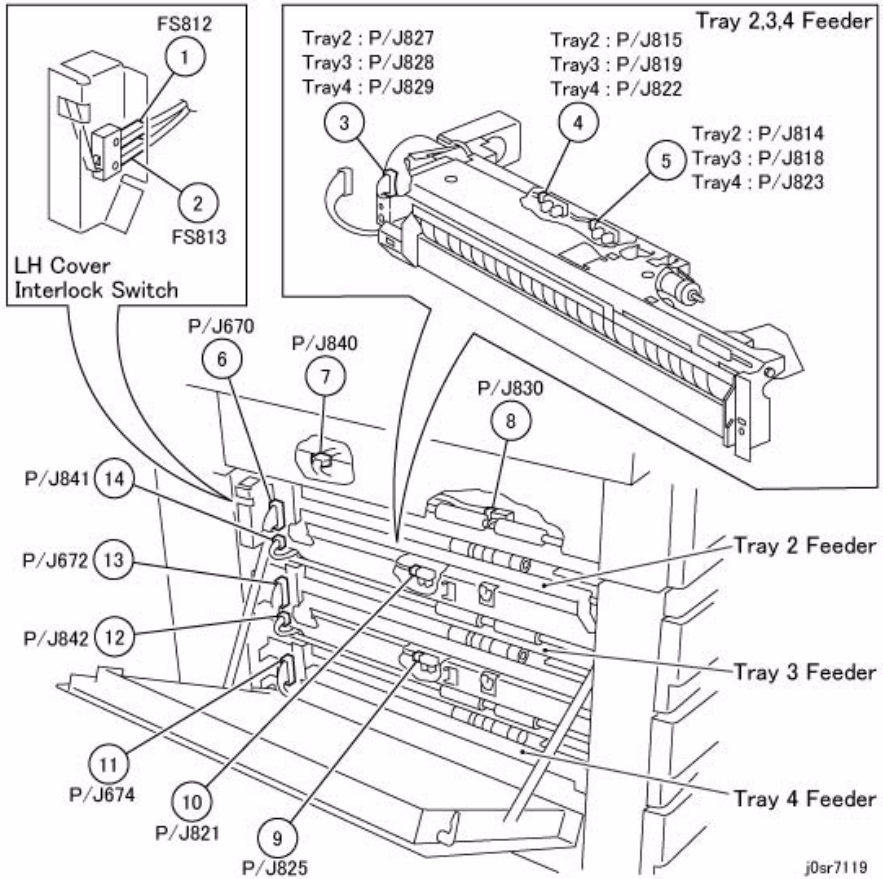


Figure 19 3T Module (Tray 2, 3, 4 Feeder) (j0sr7119)

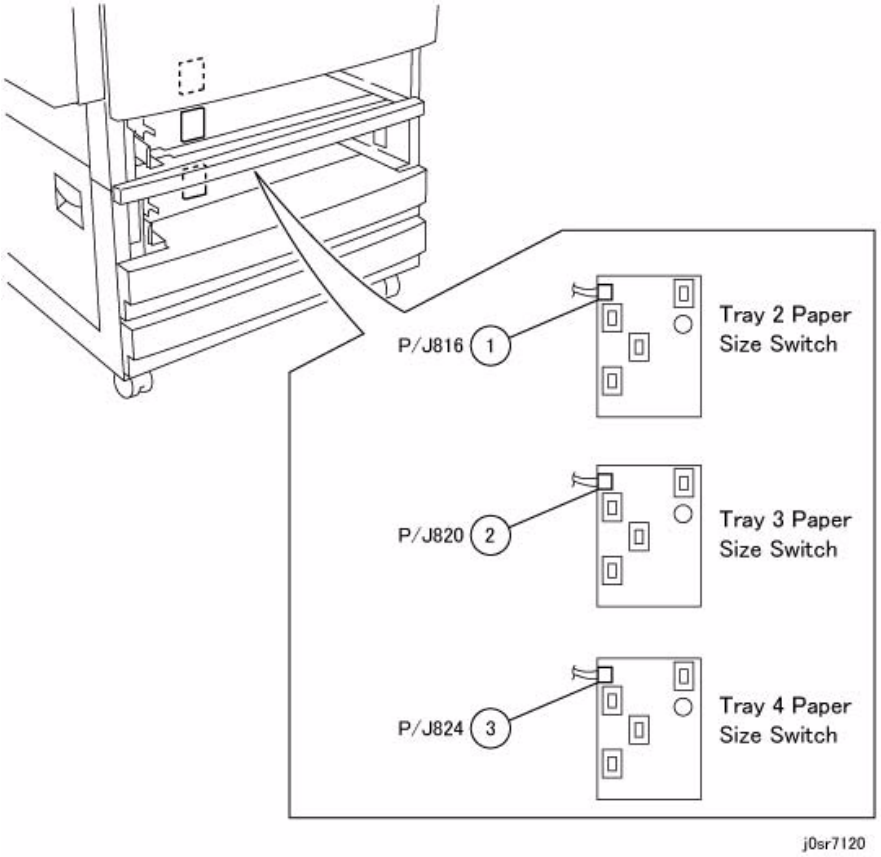


Figure 20 3T Module (Tray 2, 3, 4 Paper Size Switch) (j0sr7120)

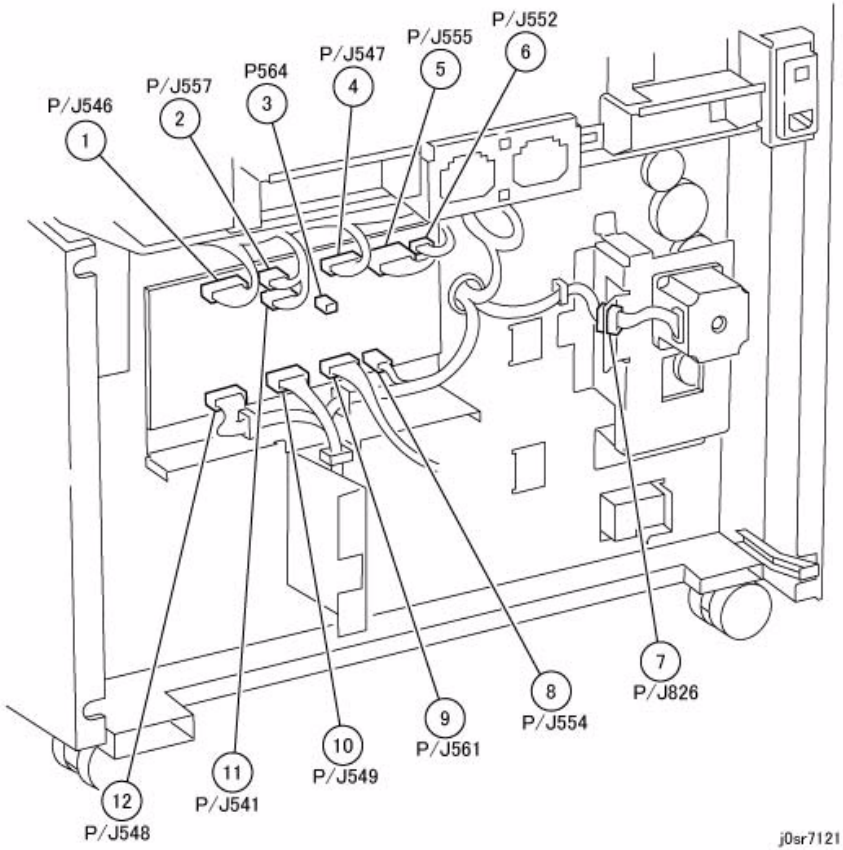


Figure 21 3T Module Rear Location (j0sr7121)

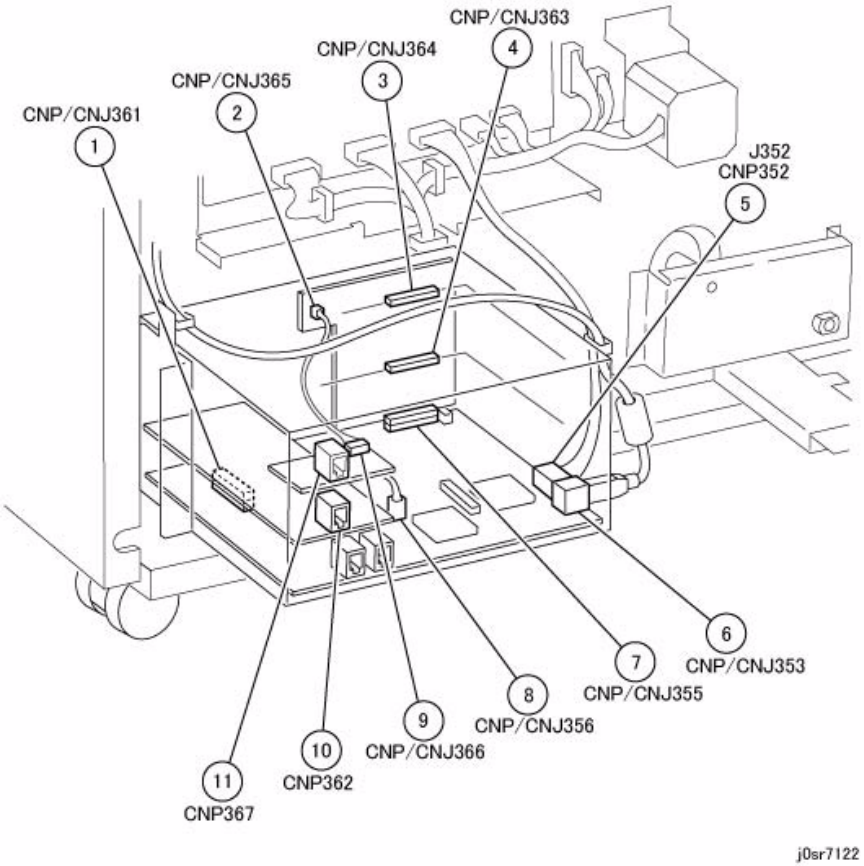


Figure 22 Fax Box (j0sr7122)

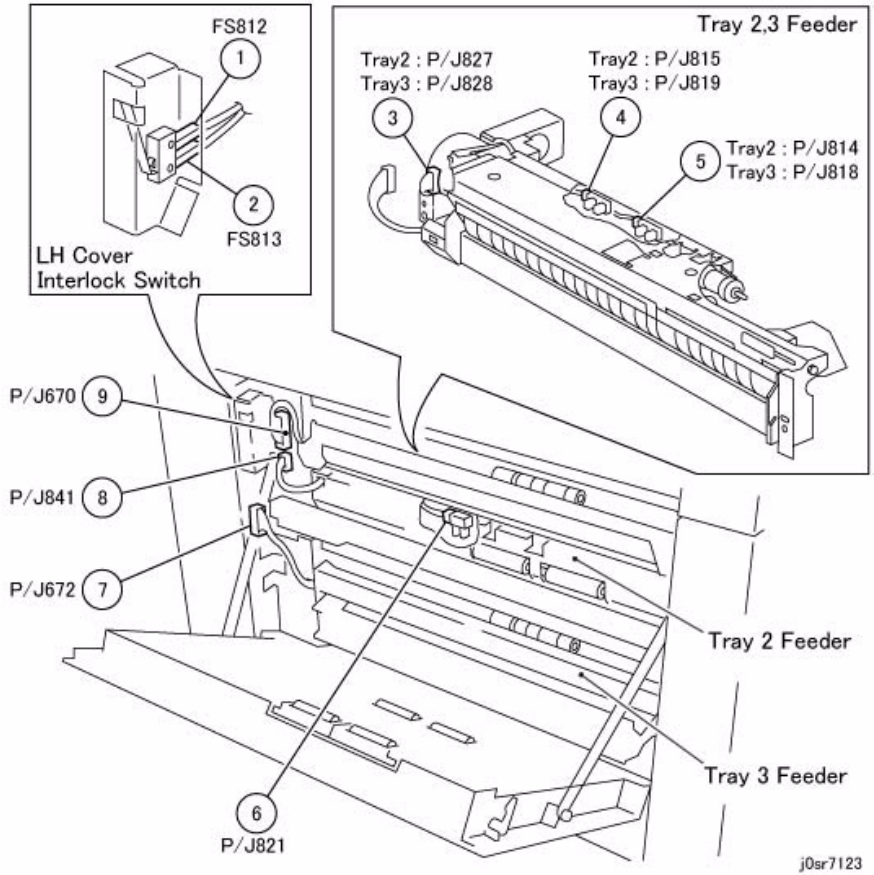


Figure 23 TT Module (Tray 2, 3 Feeder) (j0sr7123)

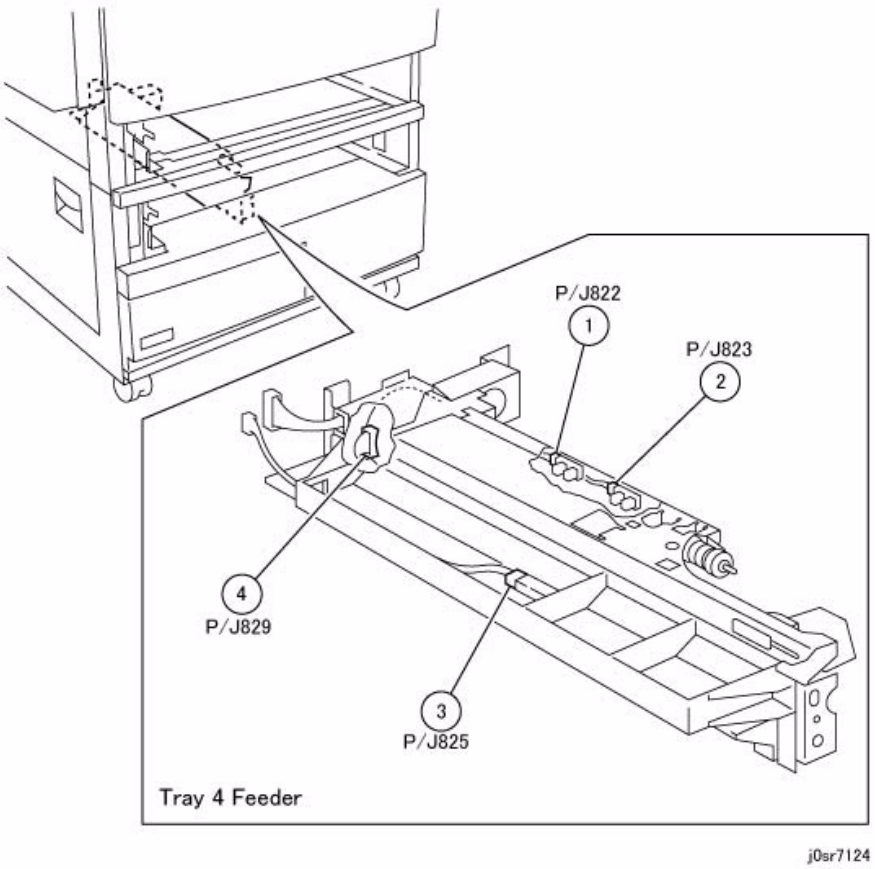


Figure 24 TT Module (Tray 4 Feeder) (j0sr7124)

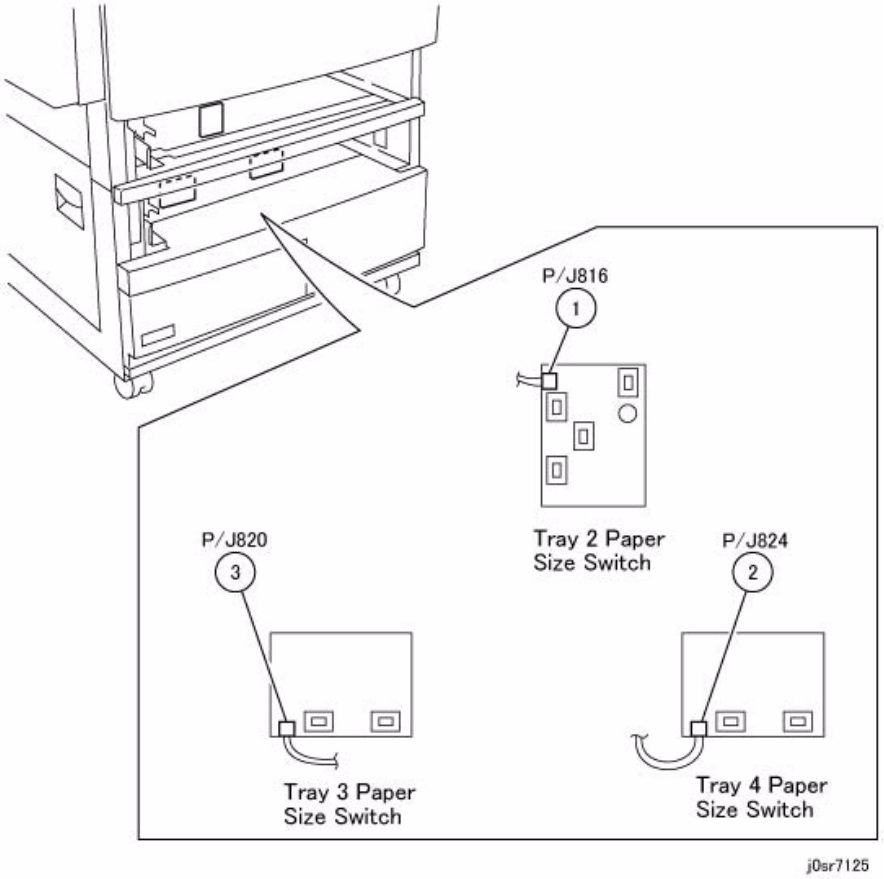


Figure 25 TT Module (Tray 2, 3, 4 Paper Size Switch) (j0sr7125)

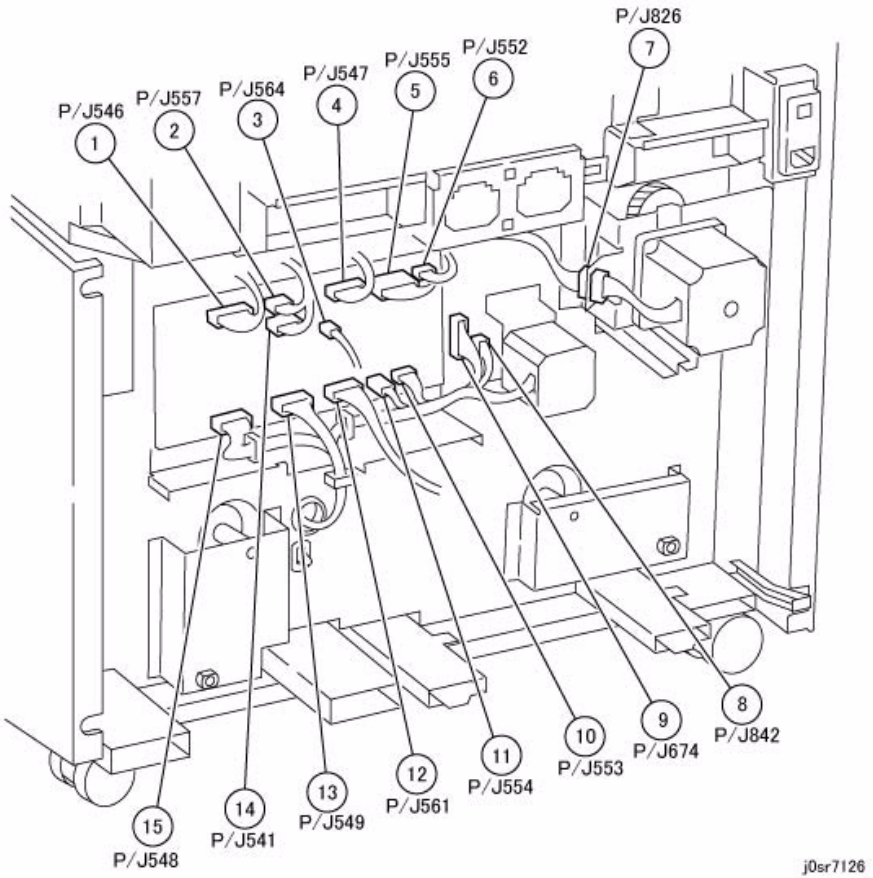


Figure 26 TT Module Rear Location (j0sr7126)

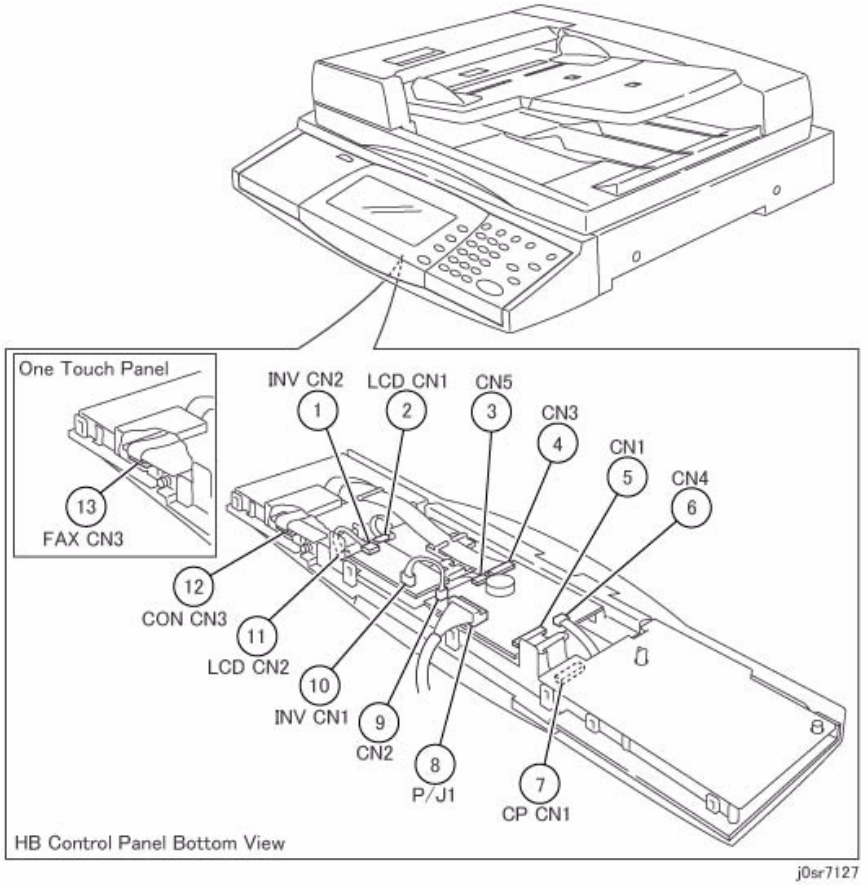


Figure 27 HB Control Panel (j0sr7127)

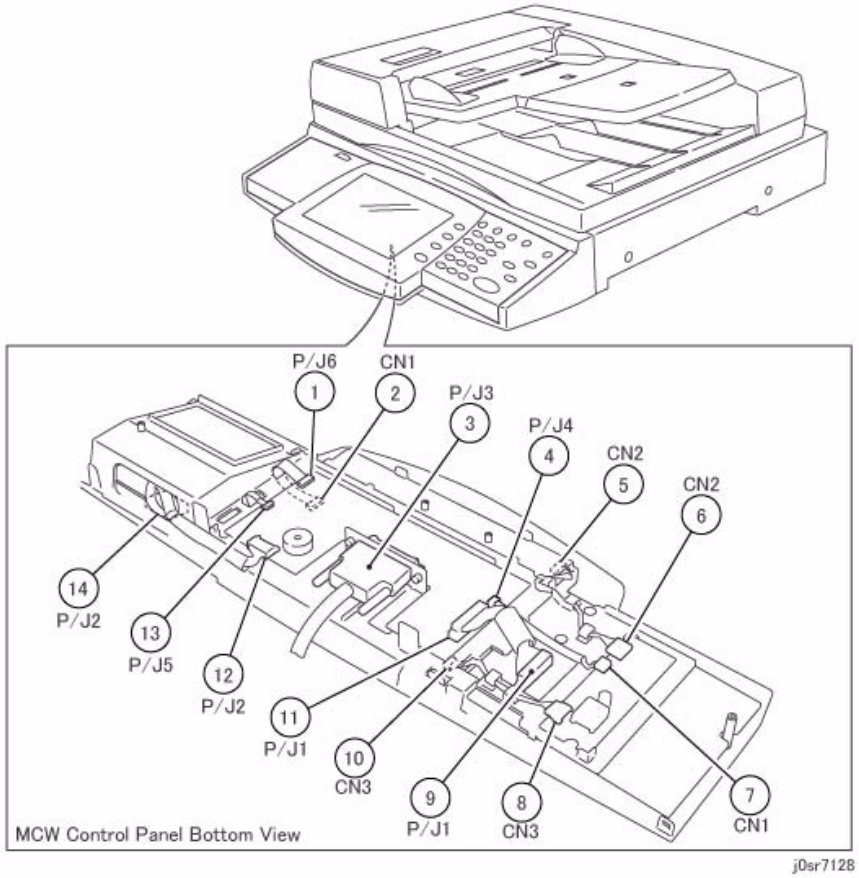


Figure 28 Control Panel (j0sr7128)

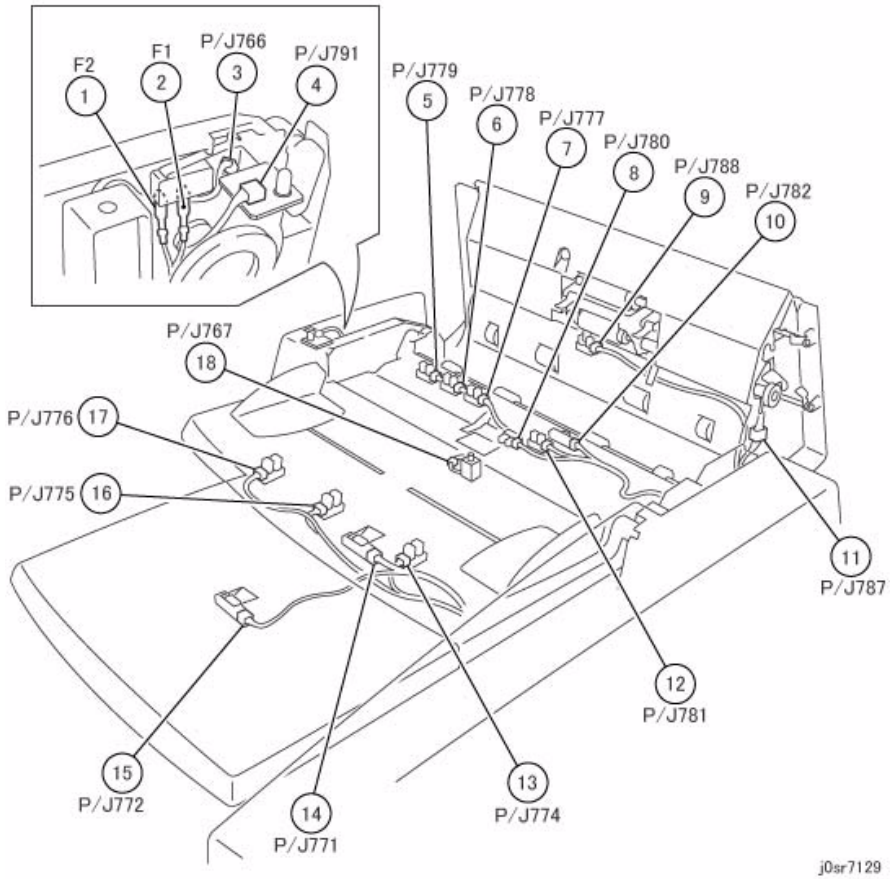


Figure 29 DADF Rear (j0sr7129)

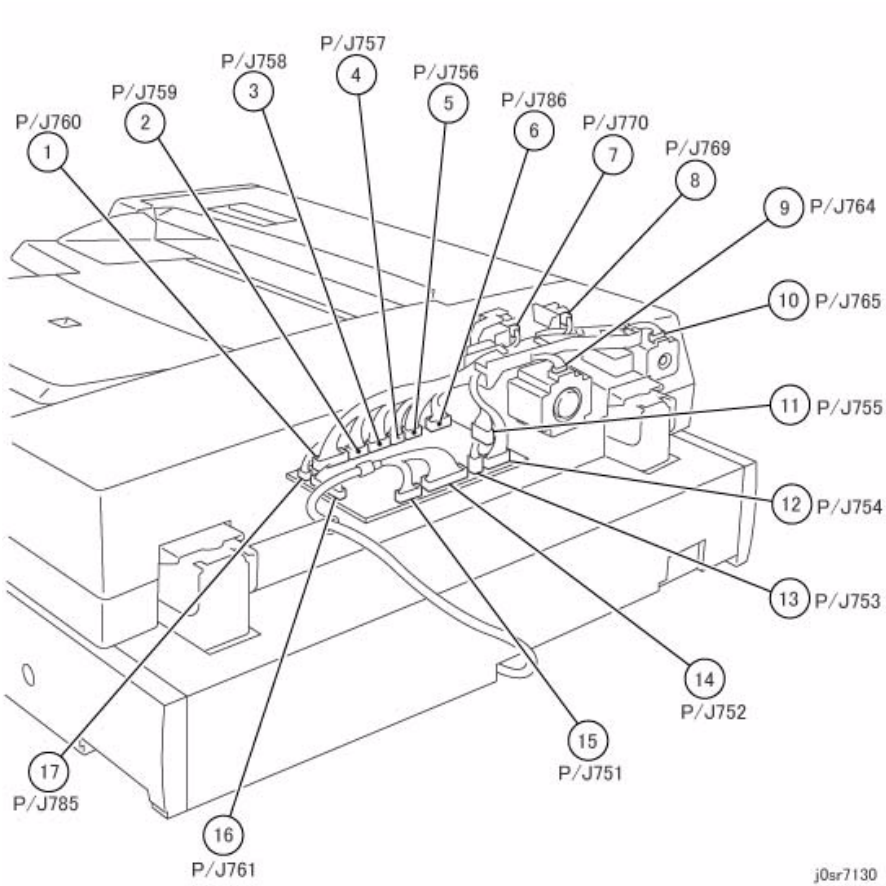


Figure 30 DADF PWB (j0sr7130)

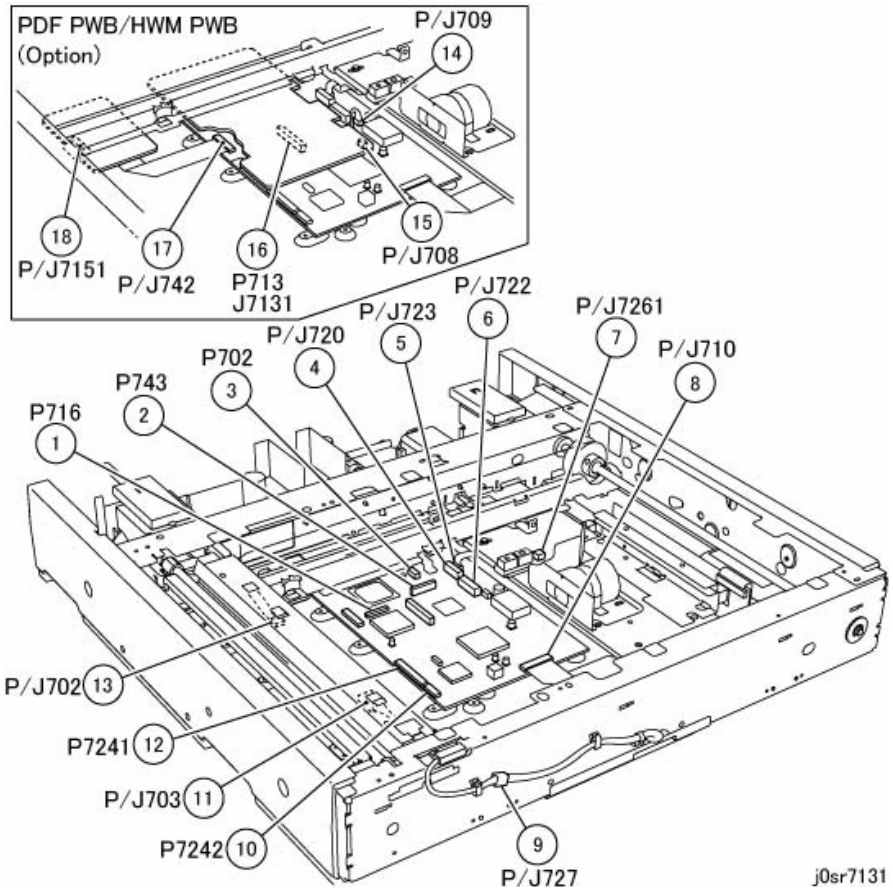


Figure 31 IIT Front (j0sr7131)

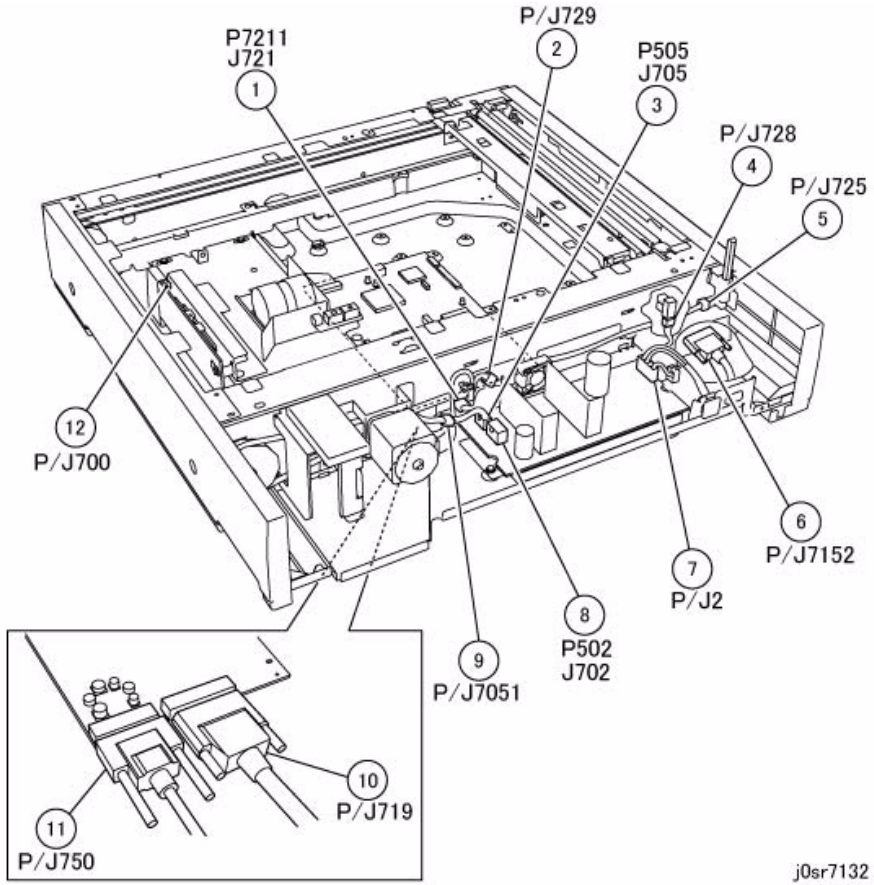


Figure 32 IIT Rear (IIT LVPS) (j0sr7132)

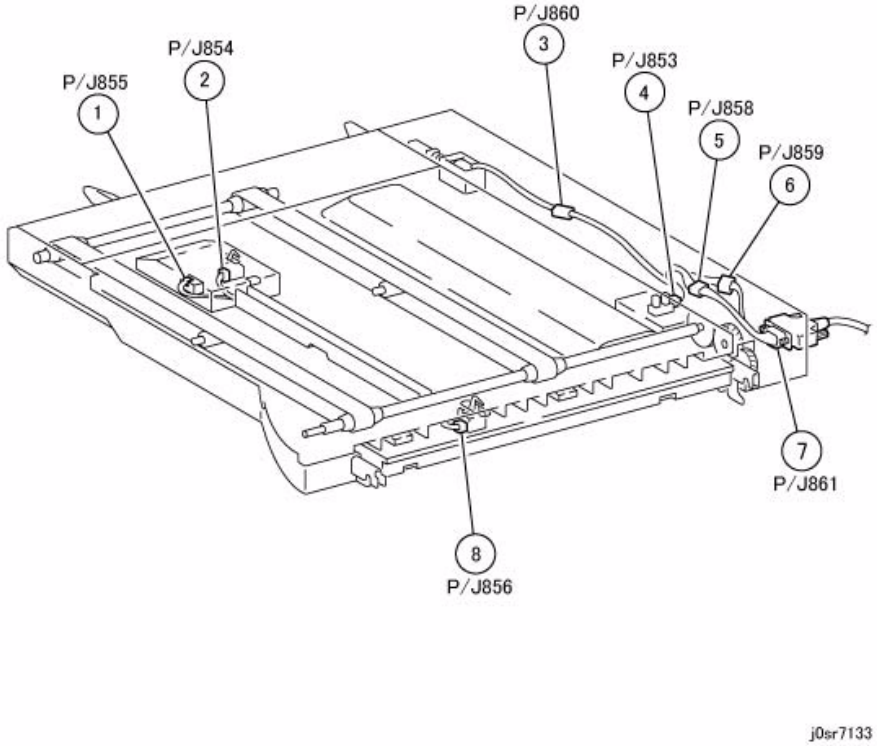


Figure 33 H-Transport Assembly - Office Finisher (j0sr7133)

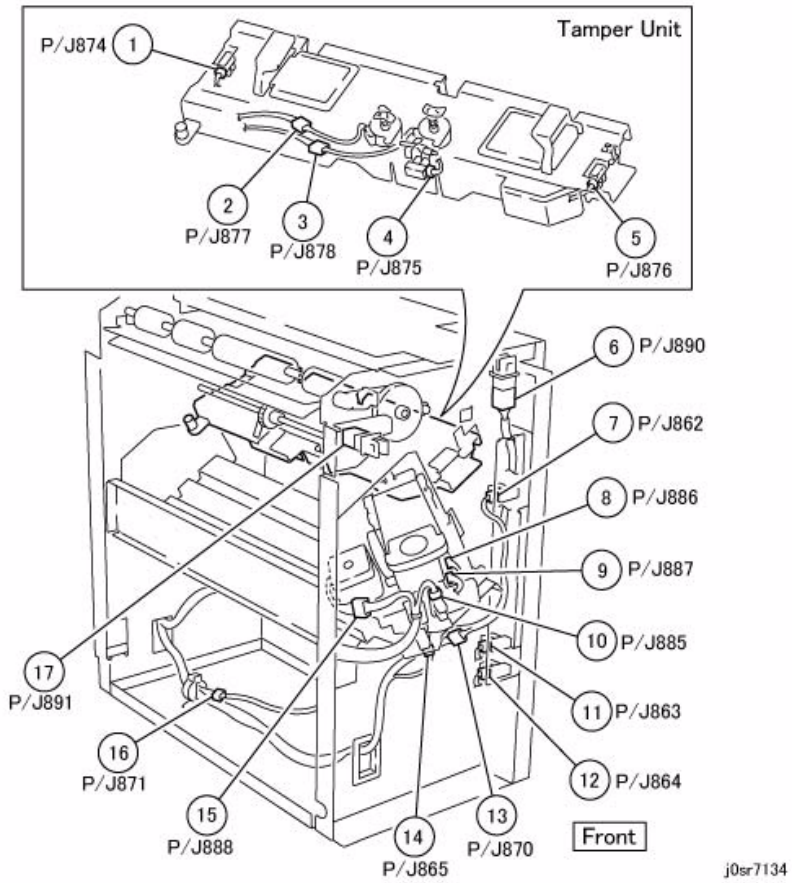


Figure 34 Finisher Tamper Unit, Staple Unit- Office Finisher (j0sr7134)

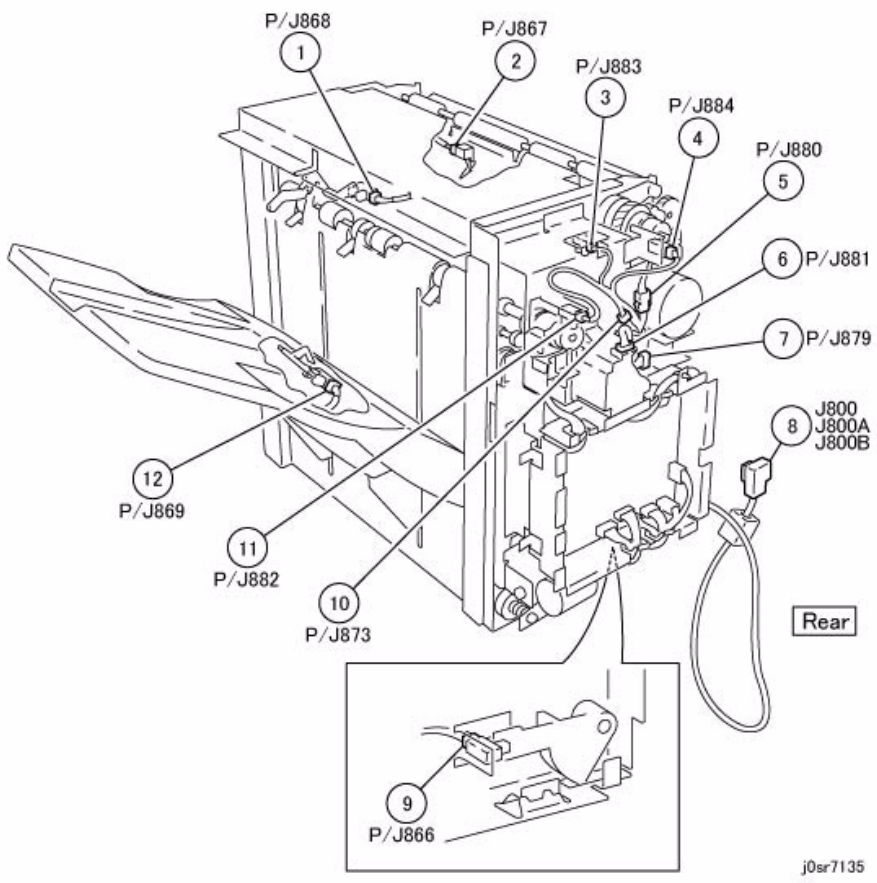


Figure 35 Office Finisher Rear (j0sr7135)

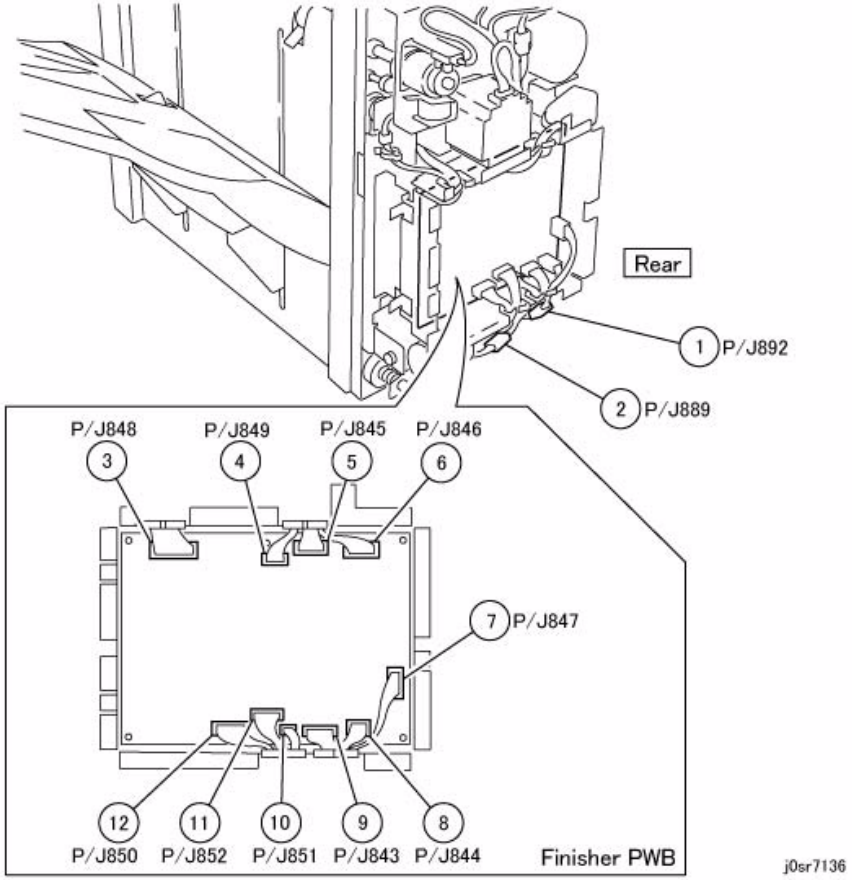


Figure 36 Office Finisher Main PWB (j0sr7136)

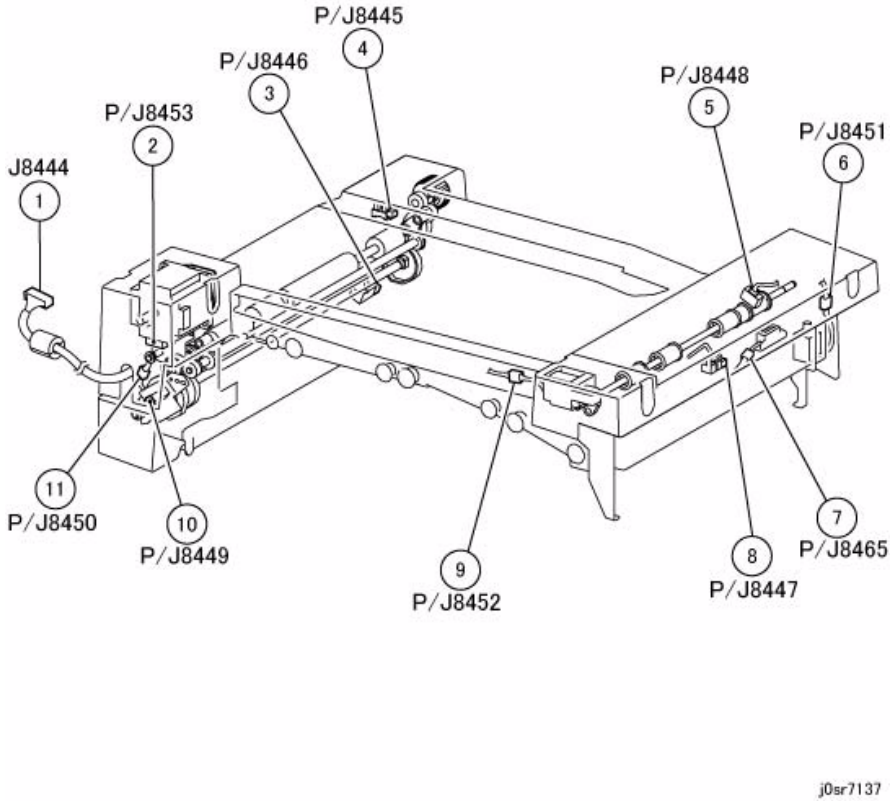


Figure 37 Adv./Prof. Finishers - H-Transport Assembly (j0sr7137)

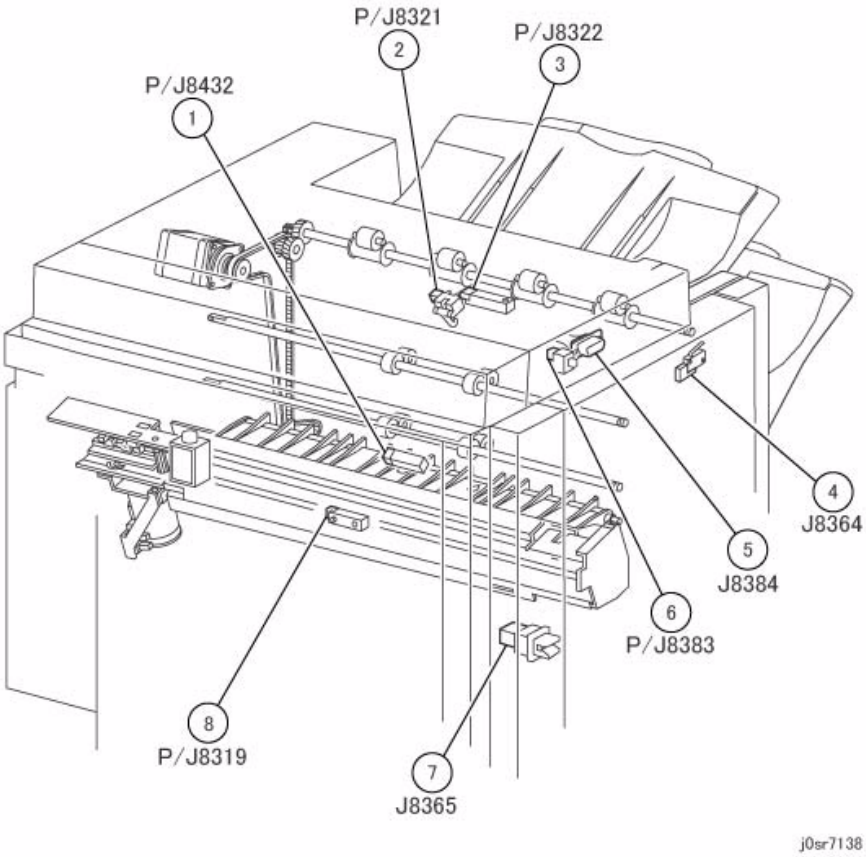


Figure 38 Adv./Prof. Finishers - Top Tray Exit Sensor, Gate Sensor (j0sr7138)

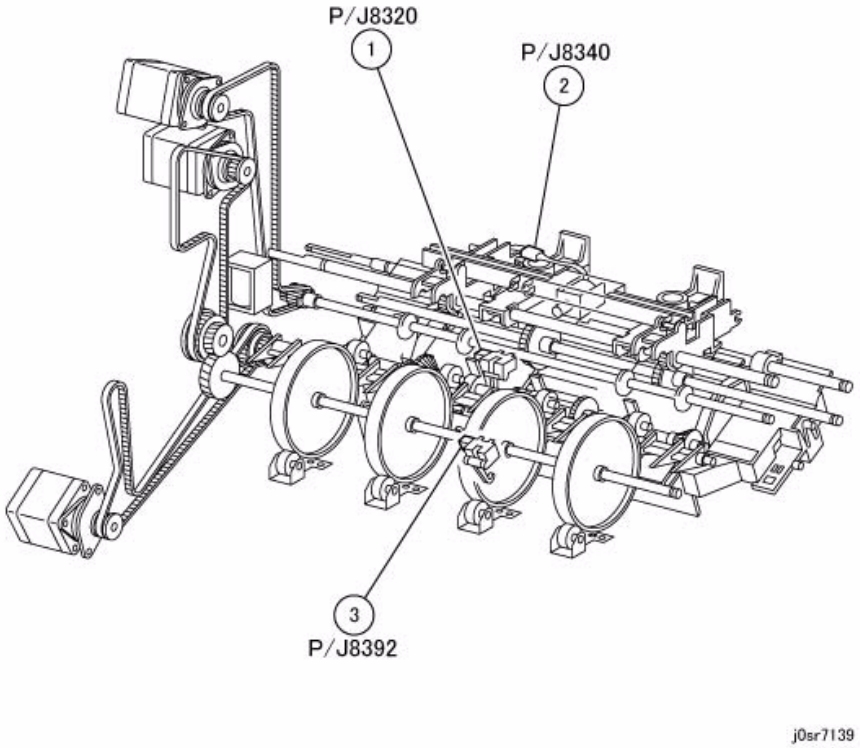


Figure 39 Adv./Prof. Finishers - Compiler Exit Sensor, Buffer Path Sensor (j0sr7139)

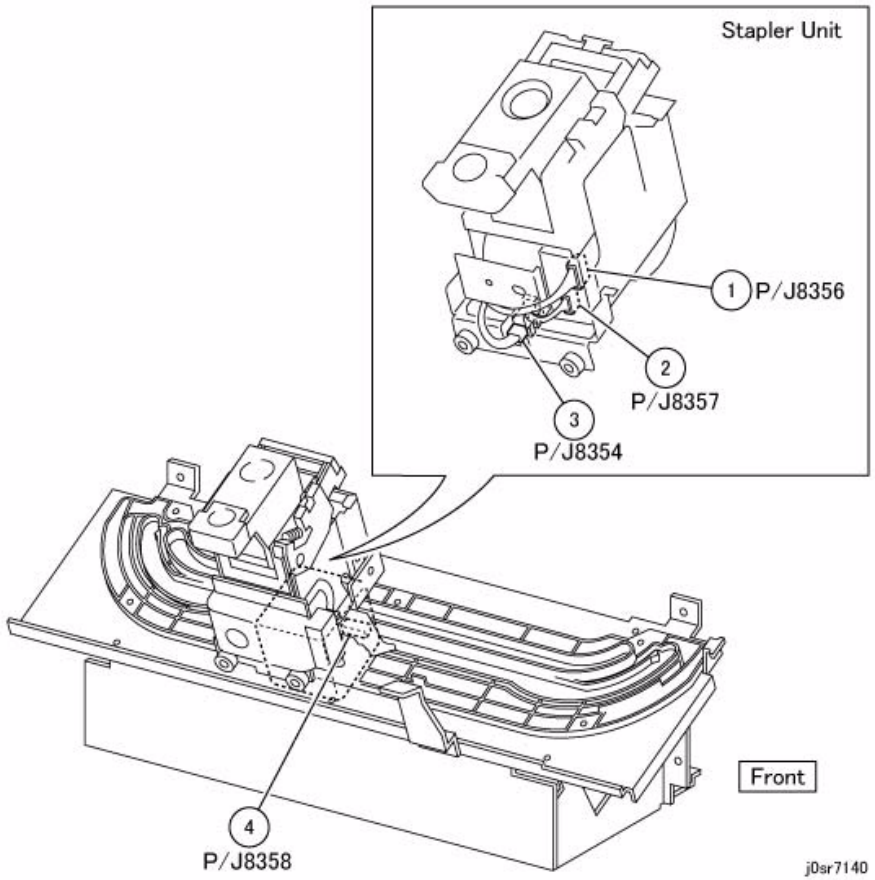


Figure 40 Adv./Prof. Finishers - Stapler Unit (j0sr7140)

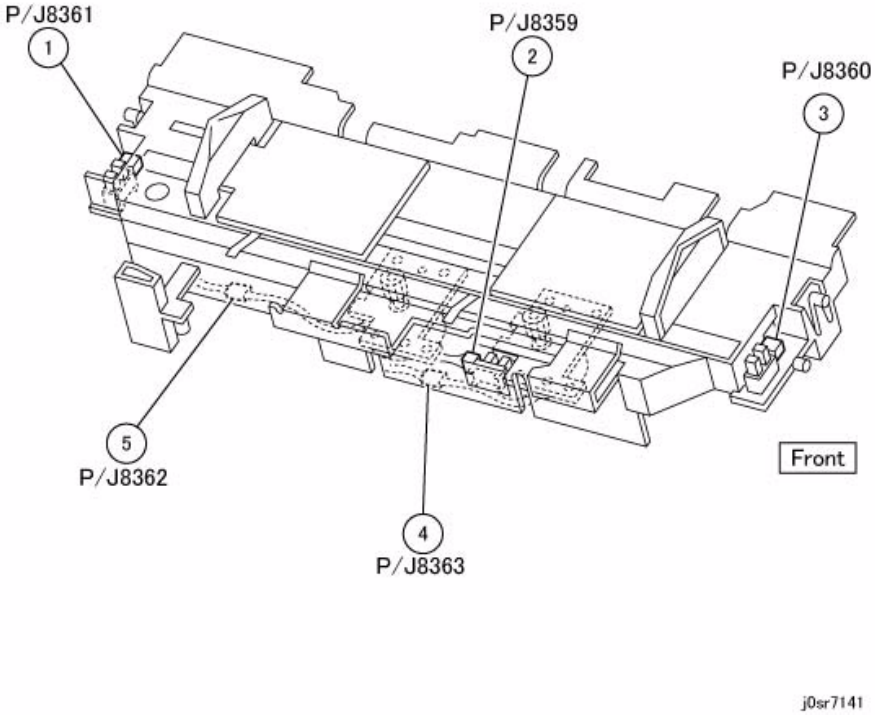


Figure 41 Adv./Prof. Finishers - Compile Tray Assembly (j0sr7141)

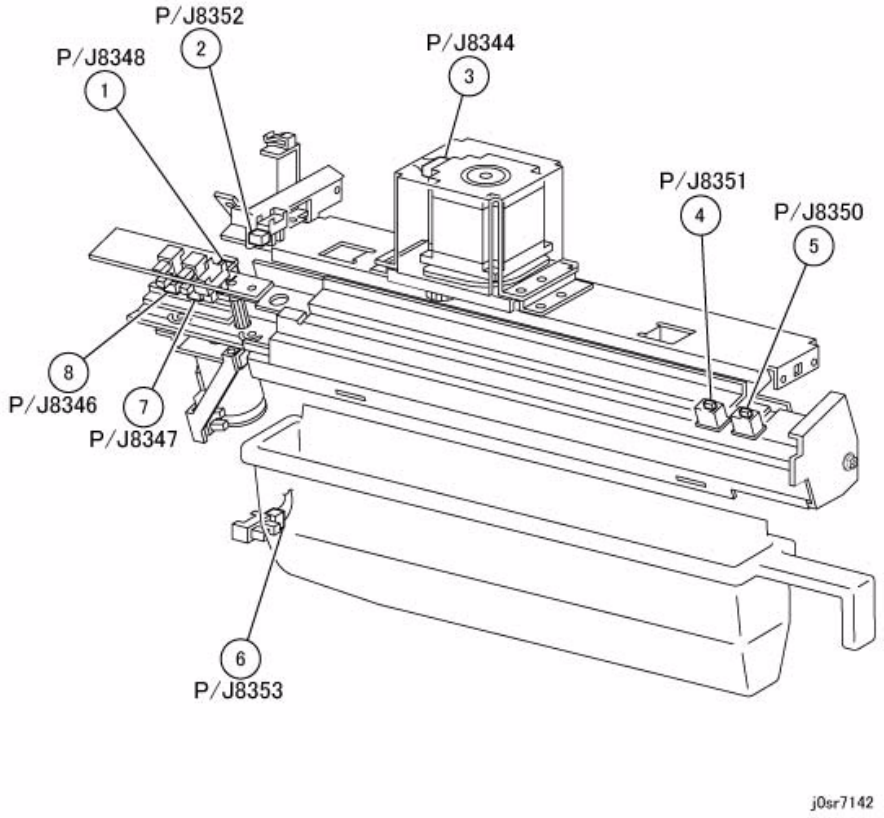


Figure 42 Adv./Prof. Finishers - Puncher Unit (j0sr7142)

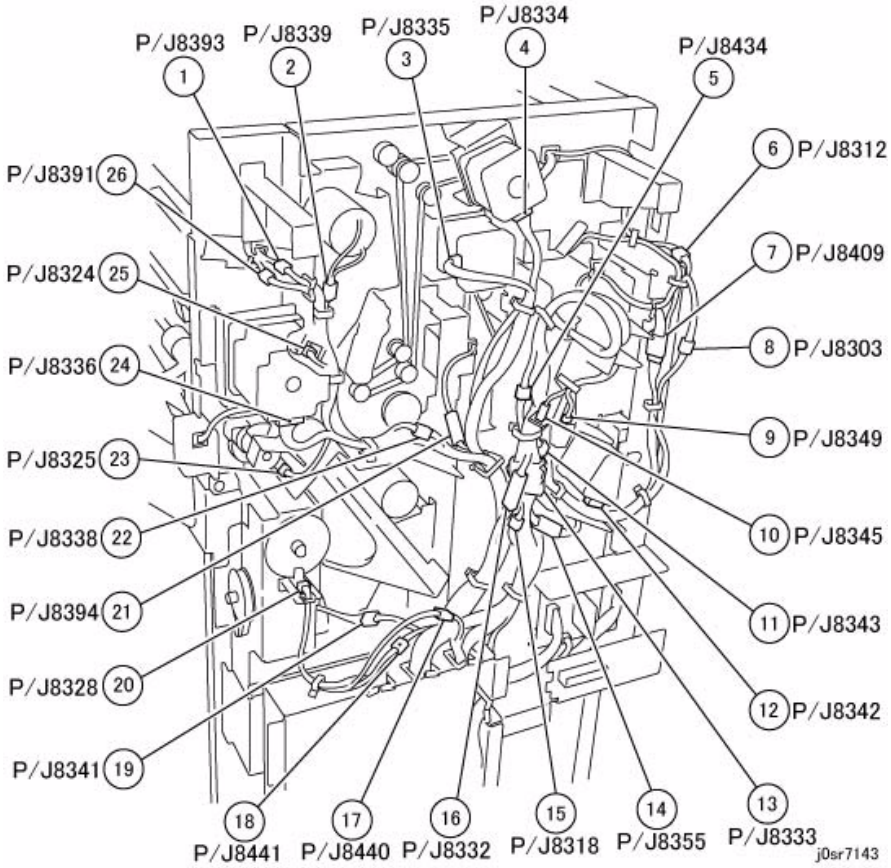


Figure 43 Adv./Prof. Finishers - Rear (j0sr7143)

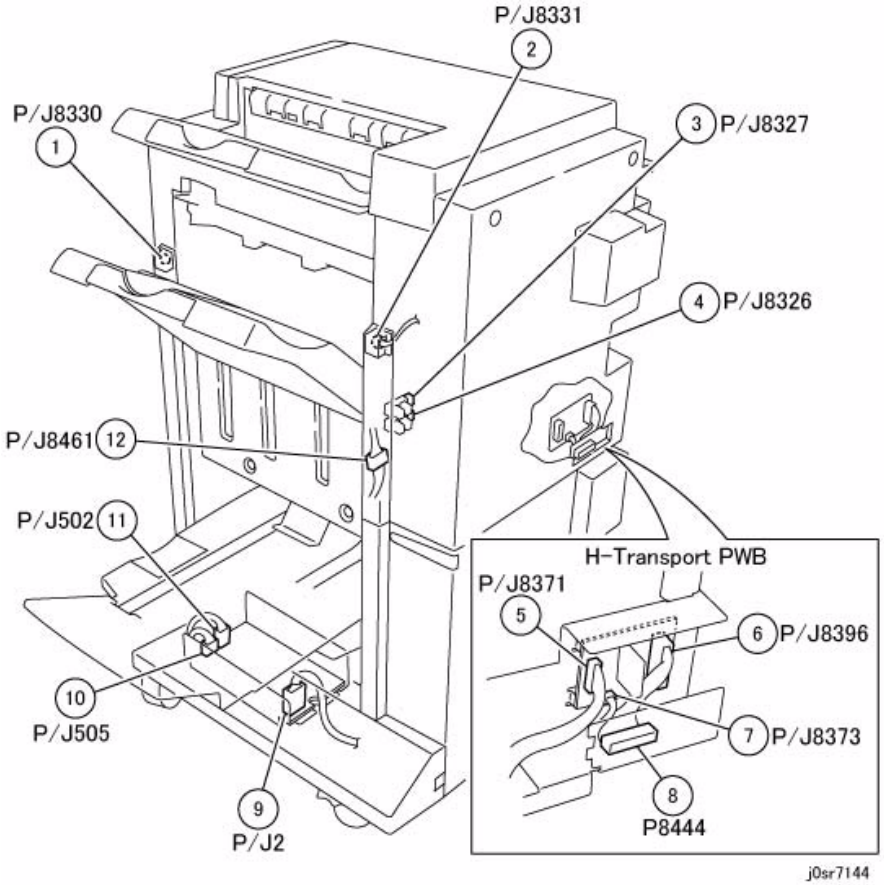


Figure 44 Adv./Prof. Finishers - Stacker Sensor, H-Transport PWB, LVPS (j0sr7144)

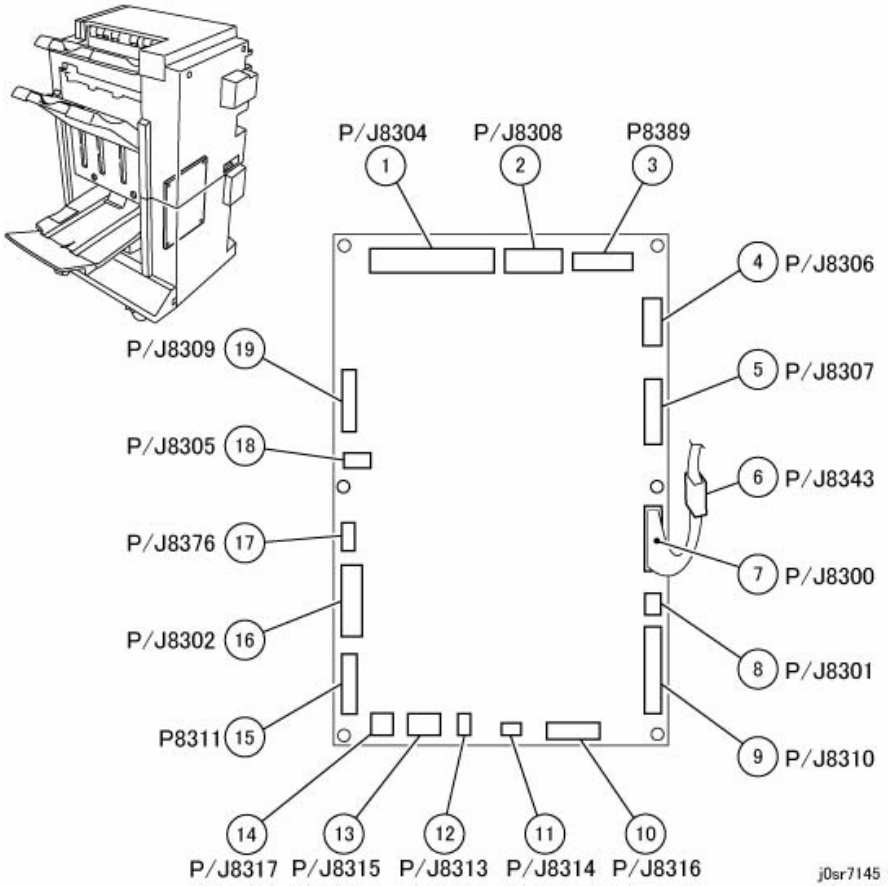


Figure 45 Adv./Prof. Finishers - Main PWB (j0sr7145)

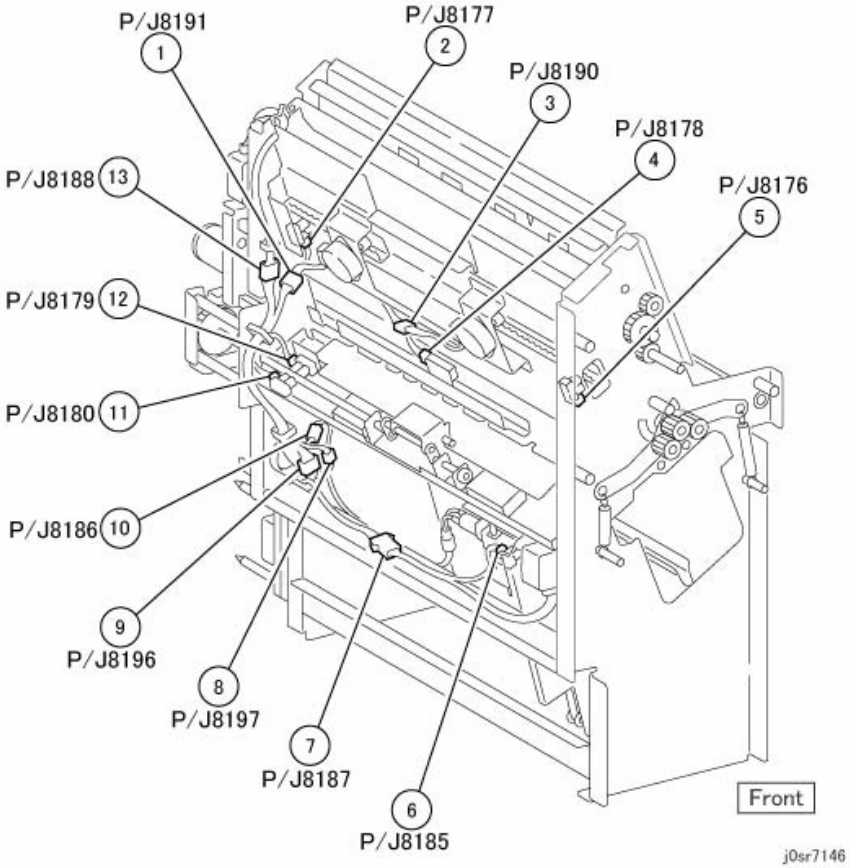


Figure 46 Booklet Rear - Adv./Prof. Finishers (j0sr7146)

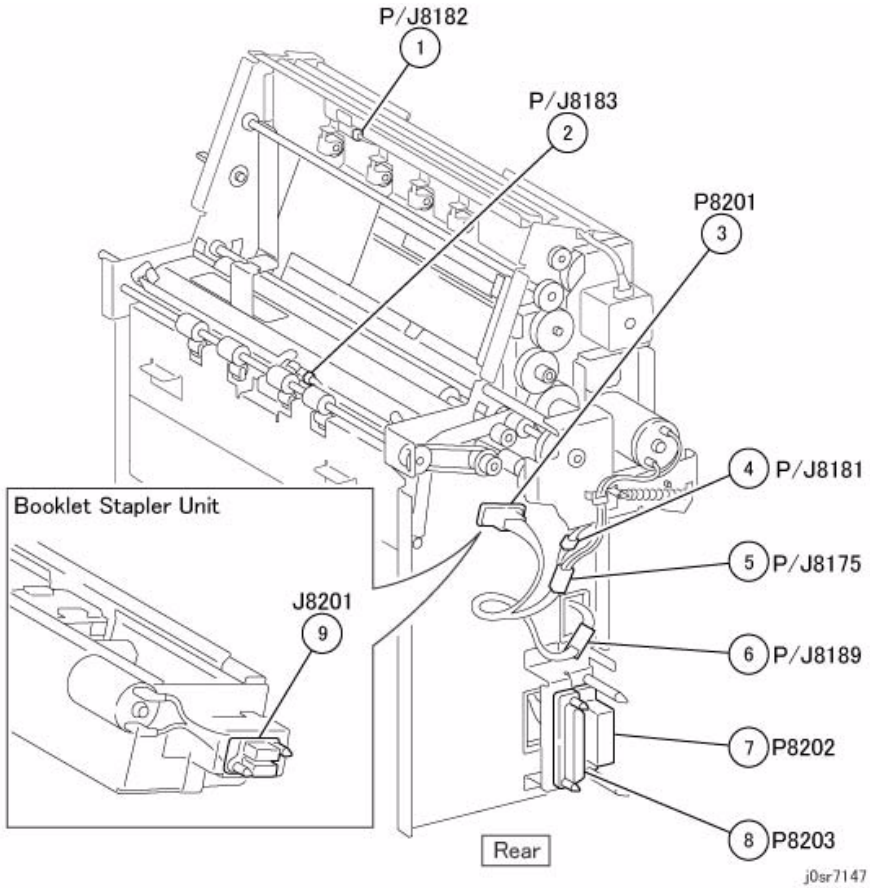


Figure 47 Booklet Front - Adv./Prof. Finishers (j0sr7147)

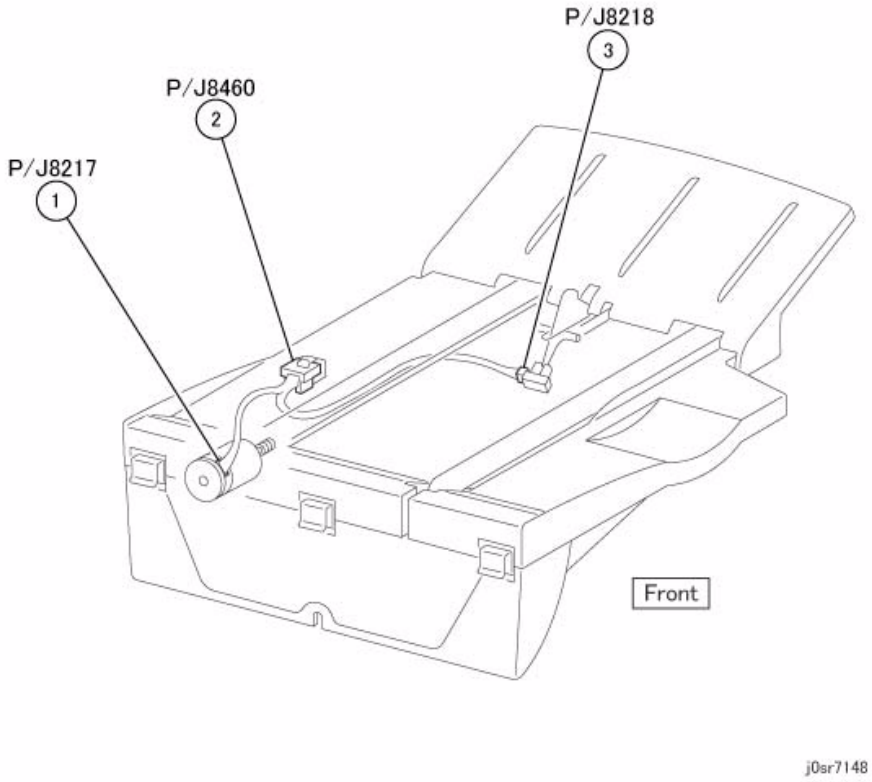


Figure 48 Adv./Prof. Finishers Booklet Tray Unit (j0sr7148)

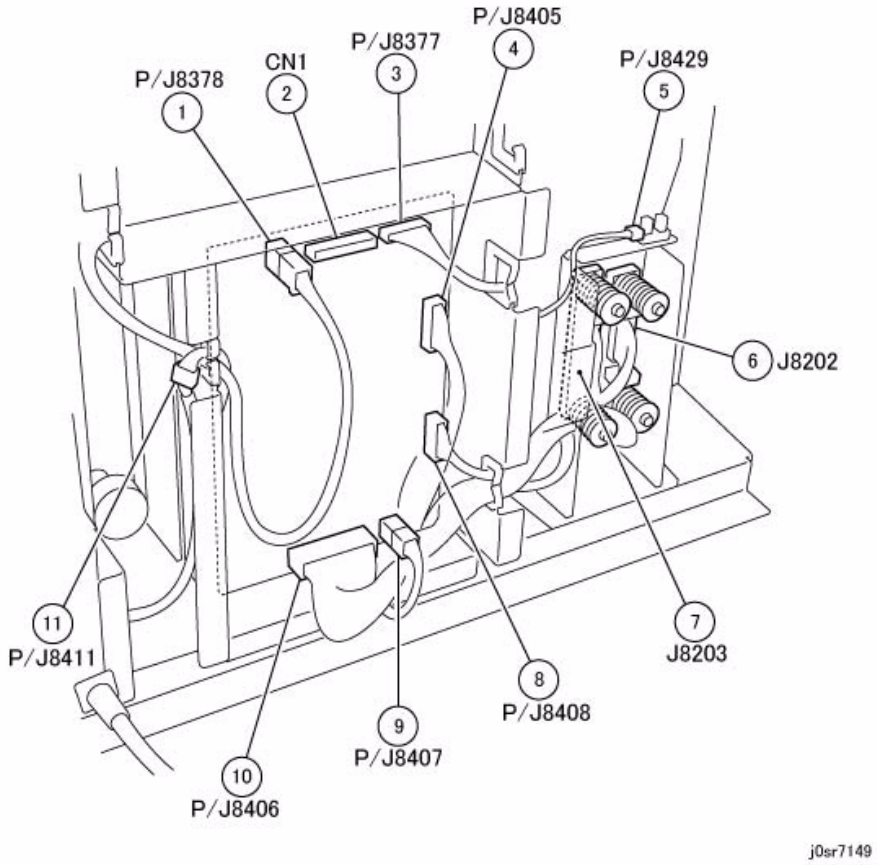


Figure 49 Adv./Prof. Finishers - Booklet PWB (j0sr7149)

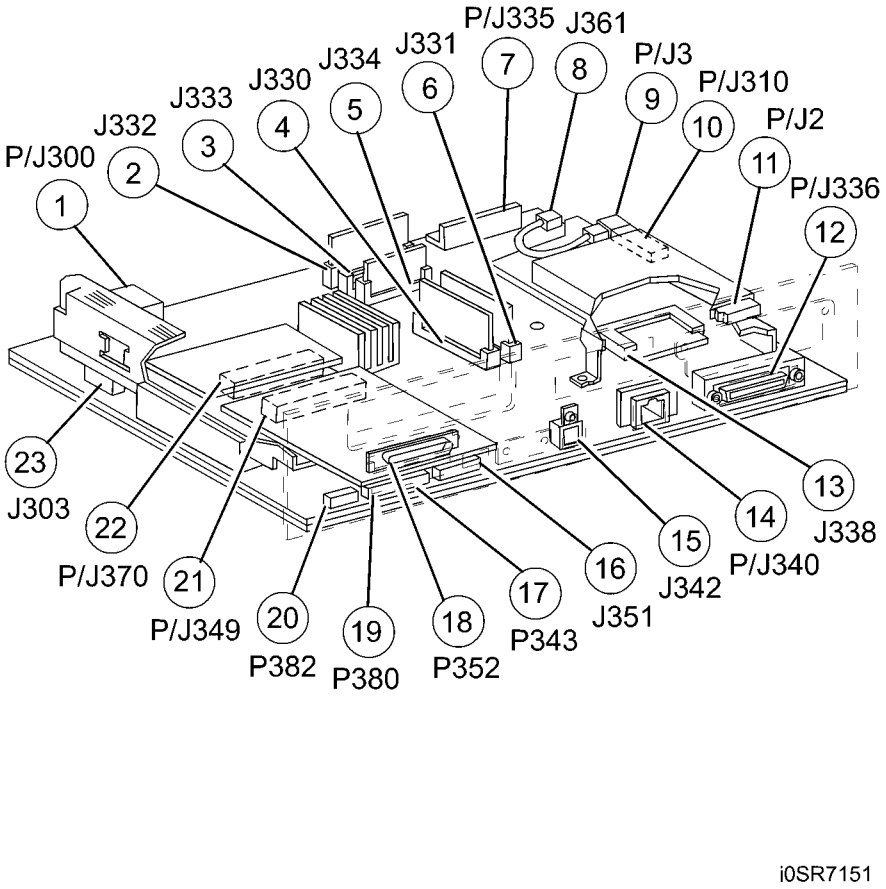


Figure 50 ESS (WC 73XX)

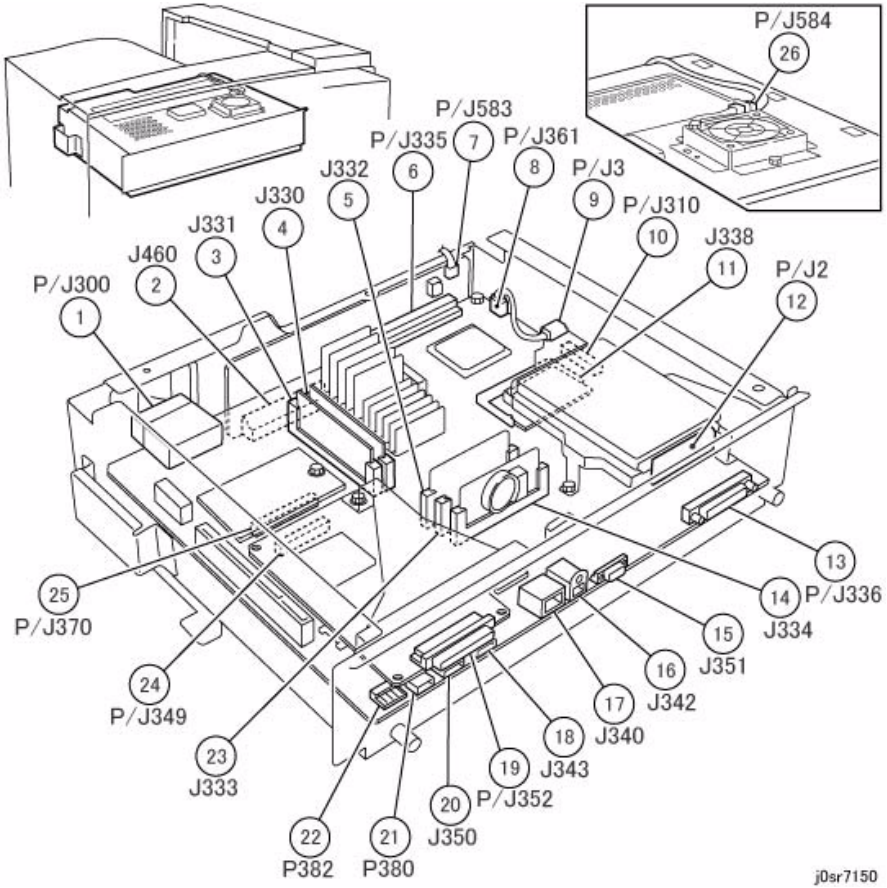


Figure 51 ESS (WC 72XX)

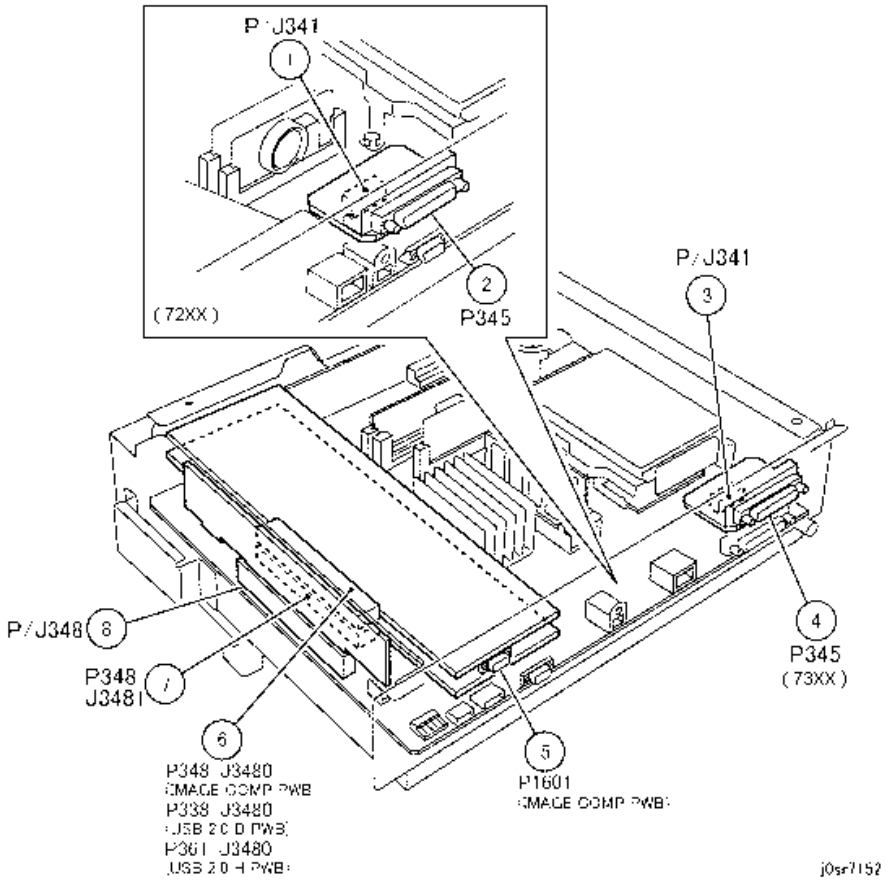


Figure 52 ESS Options

ACH

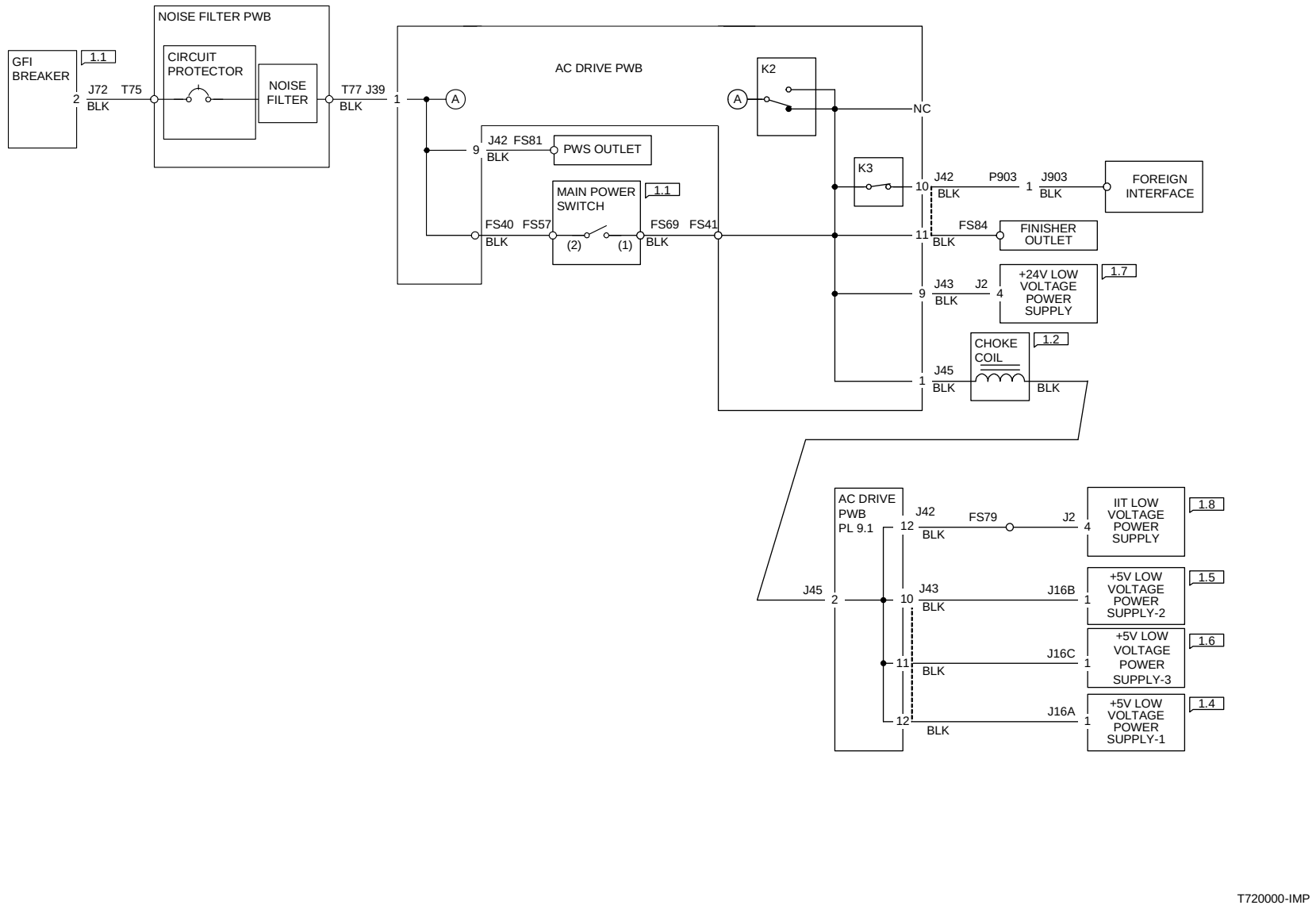
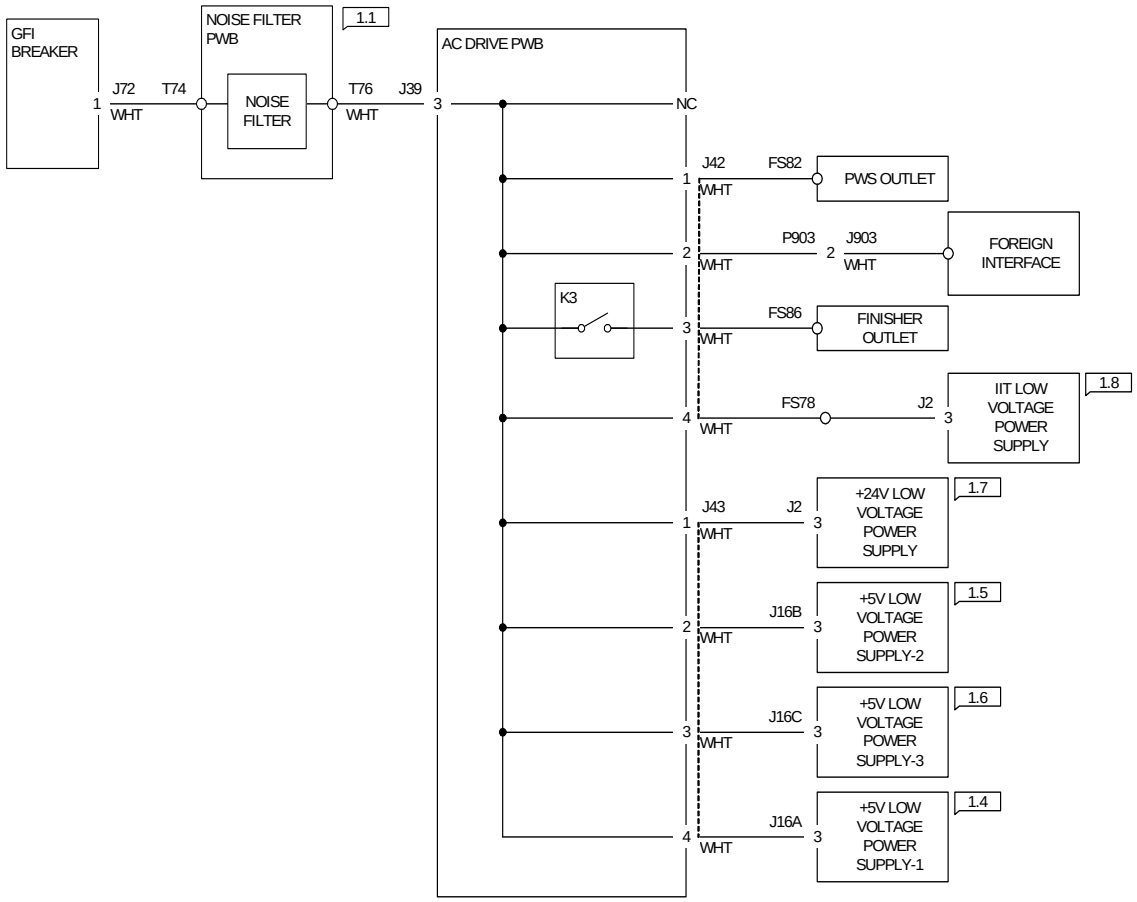


Figure 1 ACH Wirenet

ACN

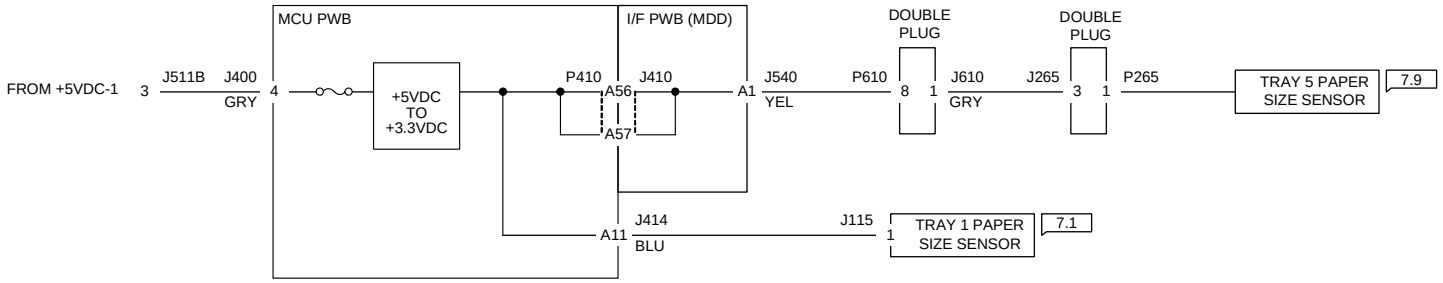


T720001.VSD.

Figure 2 ACN Wirenet

+3.3 VDC / +3.3 VDC RTN Wirenets

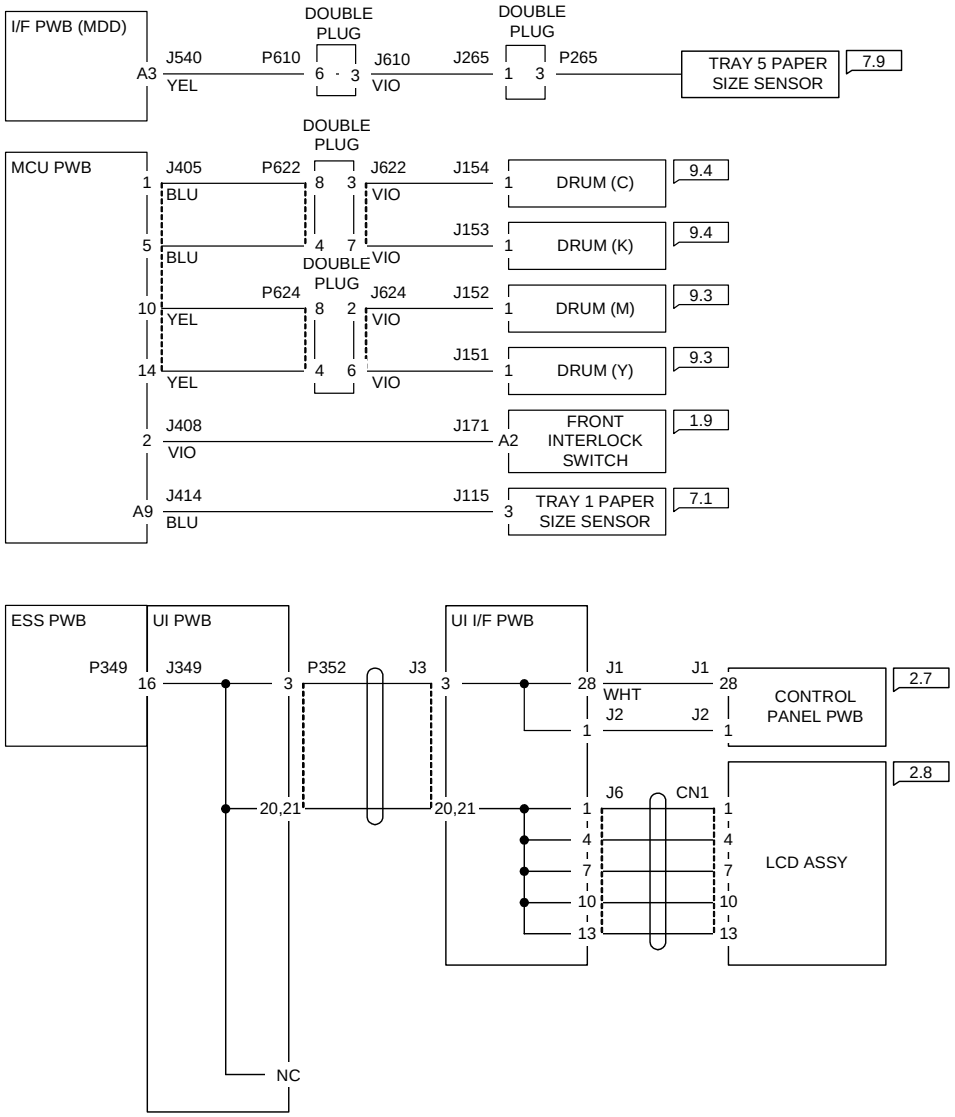
+3.3VDC



T720002.VSD.

Figure 1 +3.3VDC Wirenet

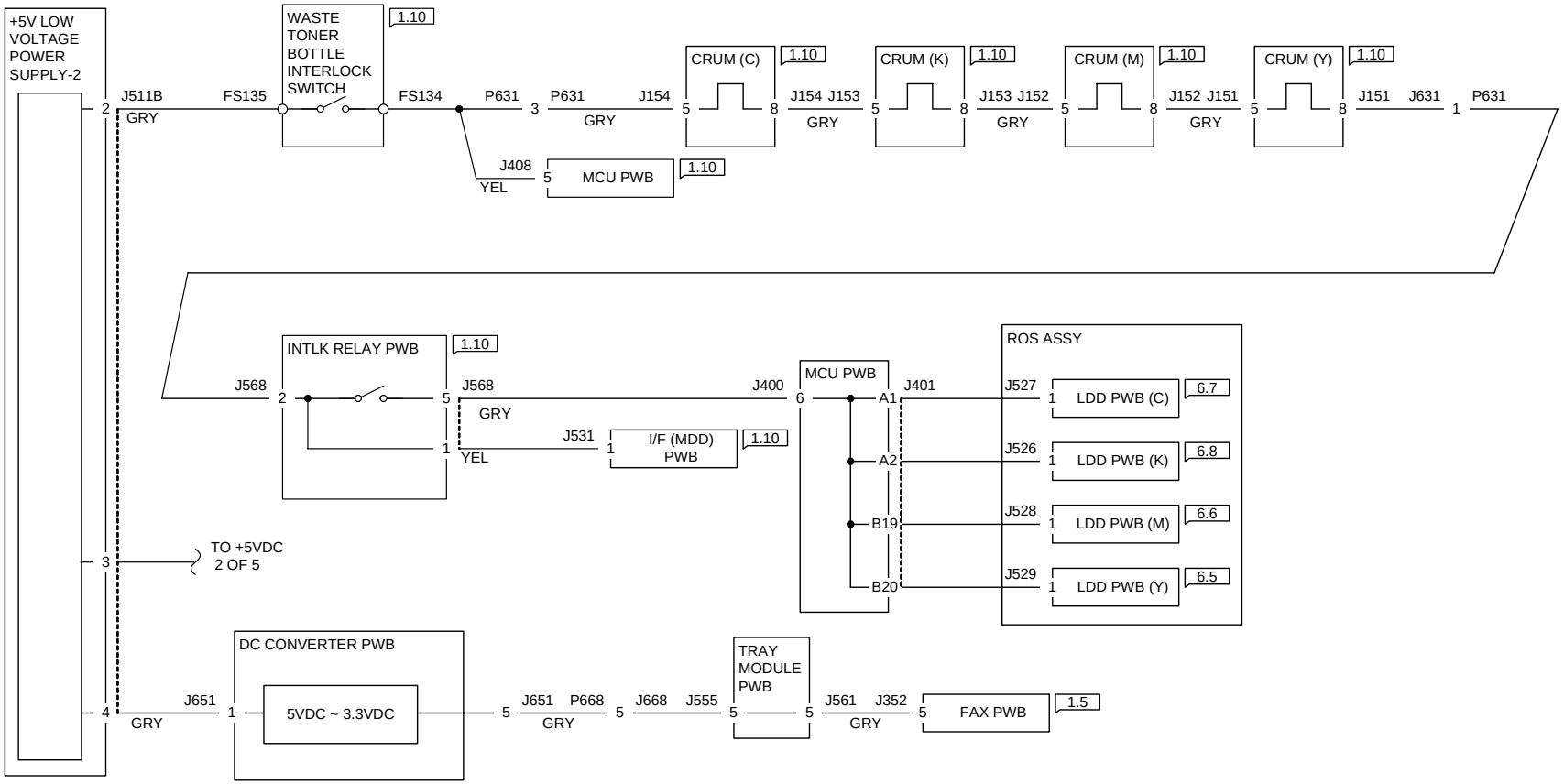
+3.3V RTN



T720003.VSD.

Figure 2 3.3V RTN Wirenet

+5VDC (1 of 5)



T720004.VSD.

Figure 1 +5VDC (1 of 5) Wirenet

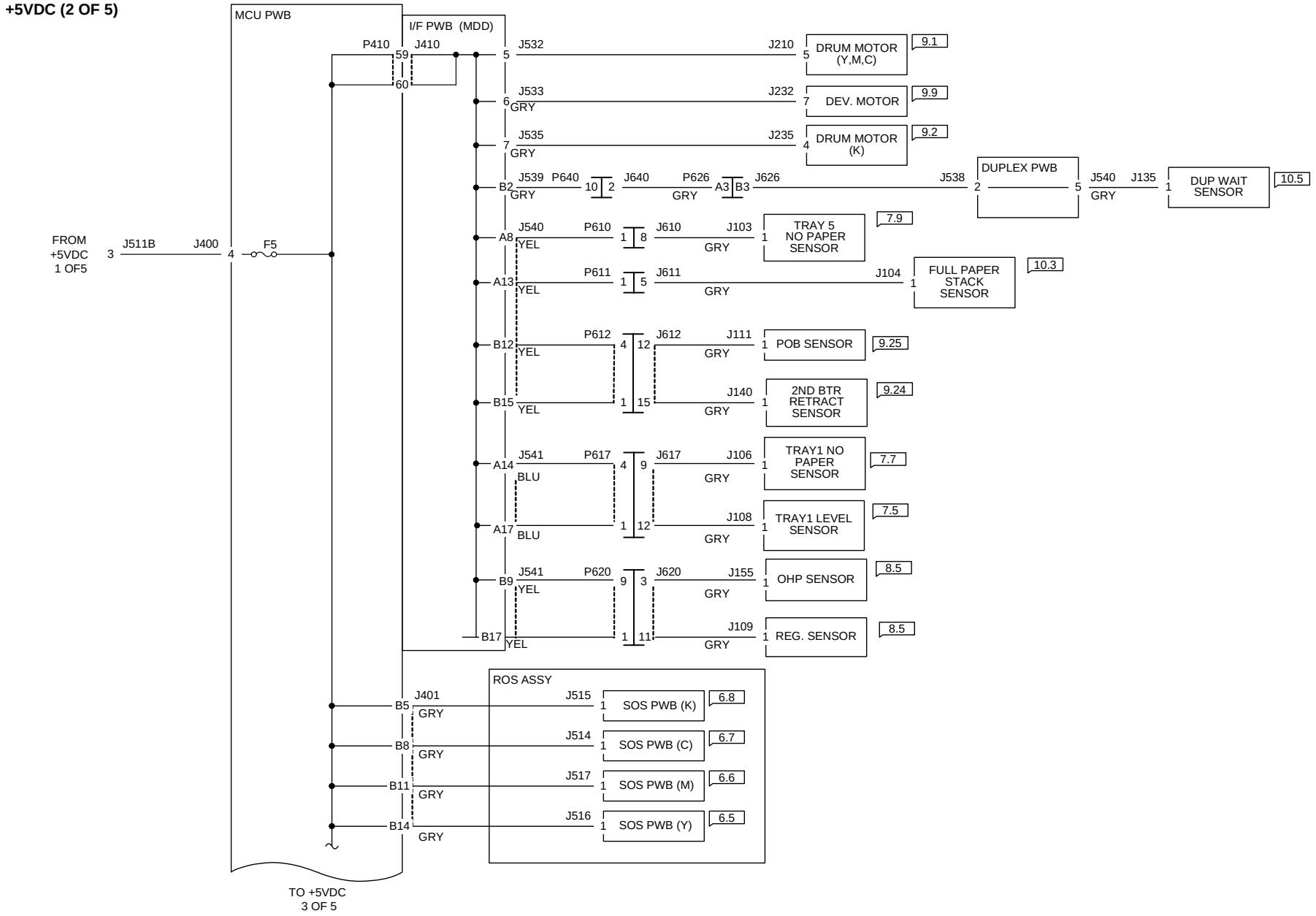
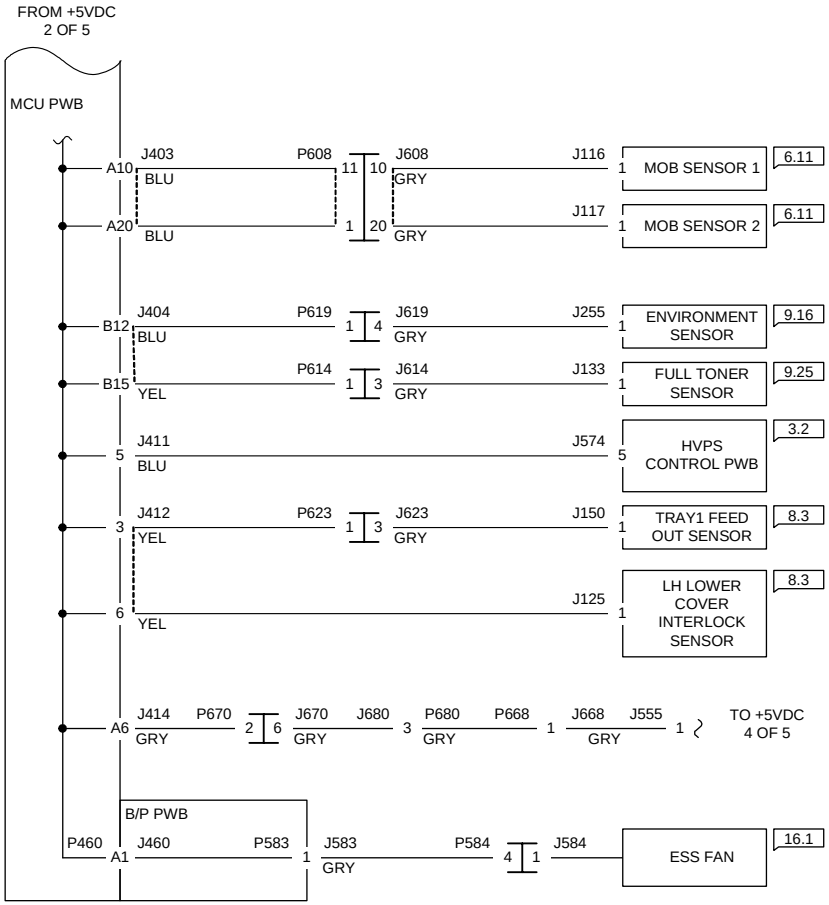


Figure 2 +5VDC (2 of 5) Wirenet

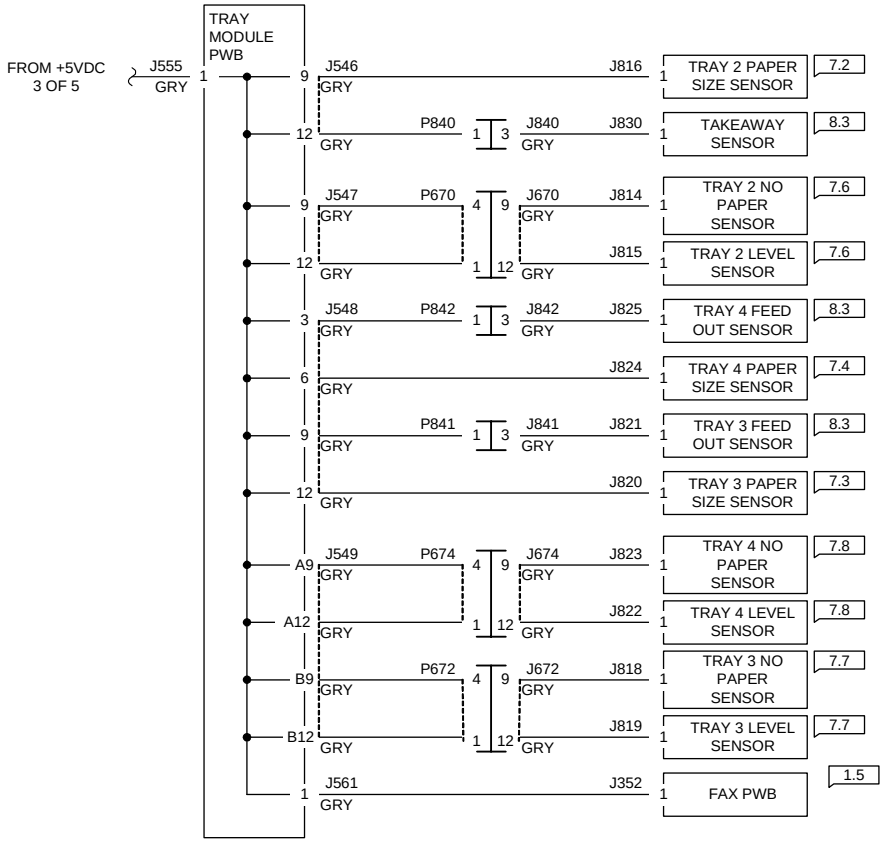
+5VDC (3 OF 5)



T720006.VSD.

Figure 3 +5VDC (3 of 5) Wirenet

+5VDC (4 OF 5)



T720007.VSD.

Figure 4 +5VDC (4 of 5) Wirenet

+5VDC (5 of 5)

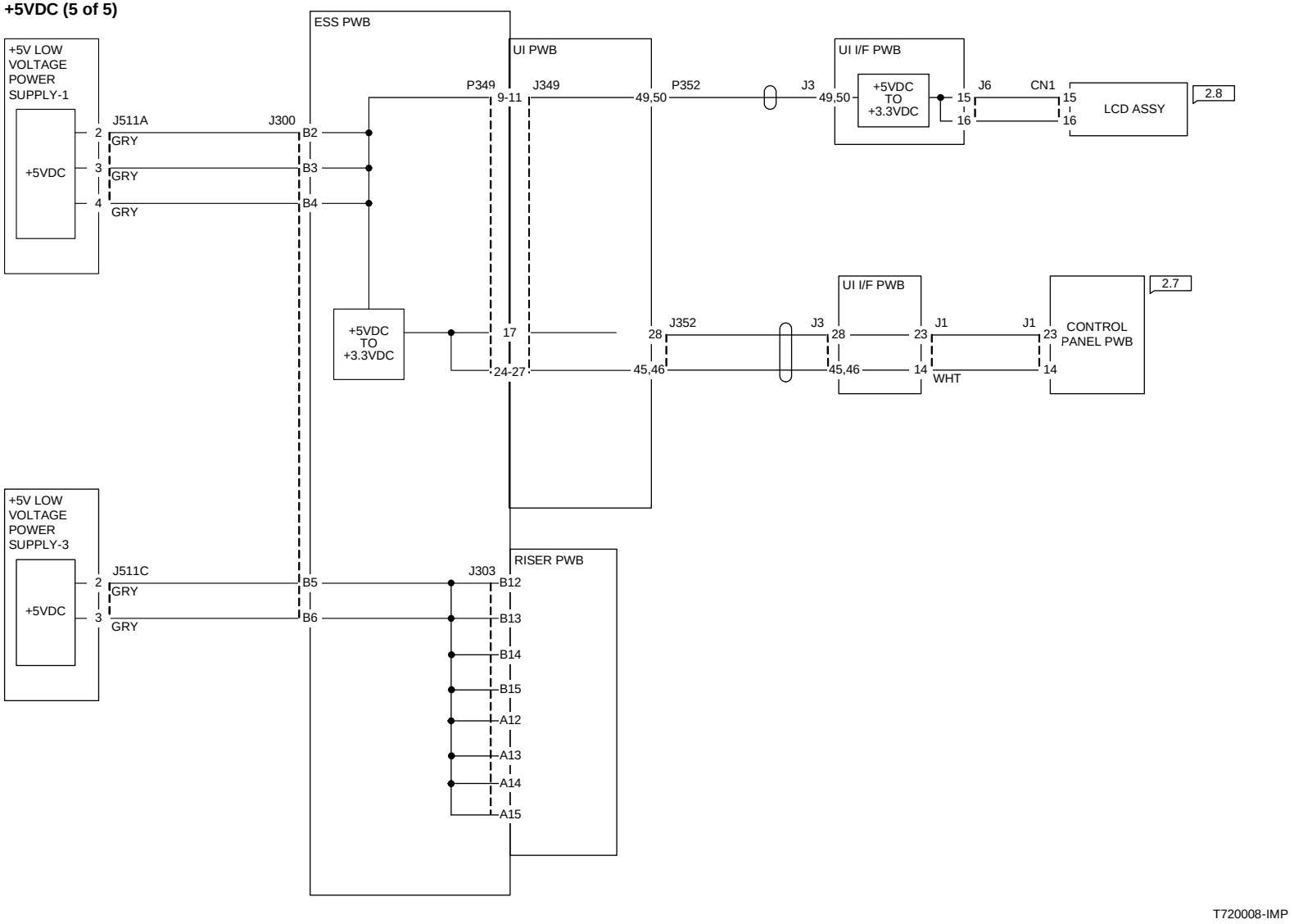
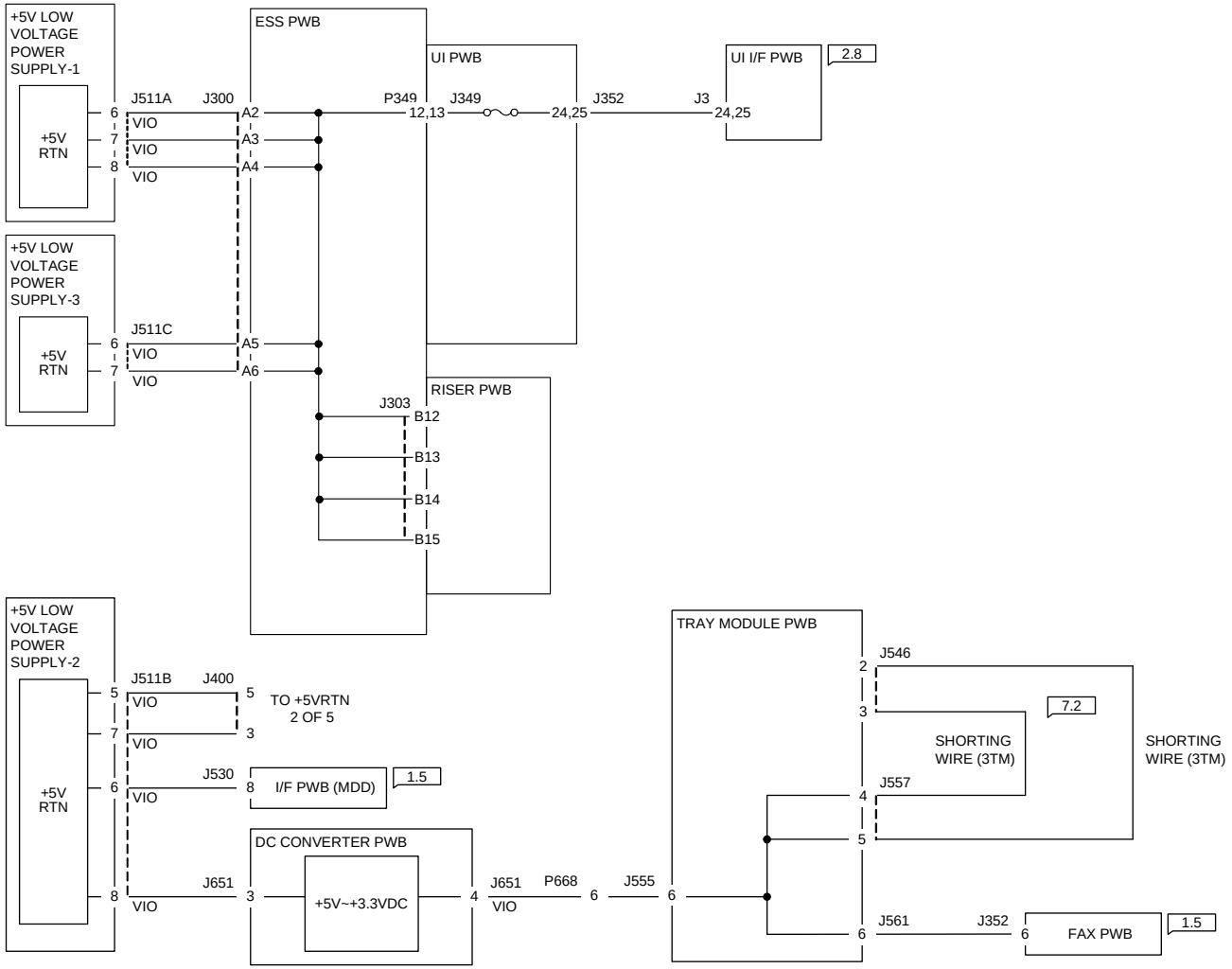


Figure 5 +5VDC (5 of 5) Wirenet

+5VRTN (1 OF 5)



T720009.VSD.

Figure 1 5V RTN (1 of 5) Wirenet

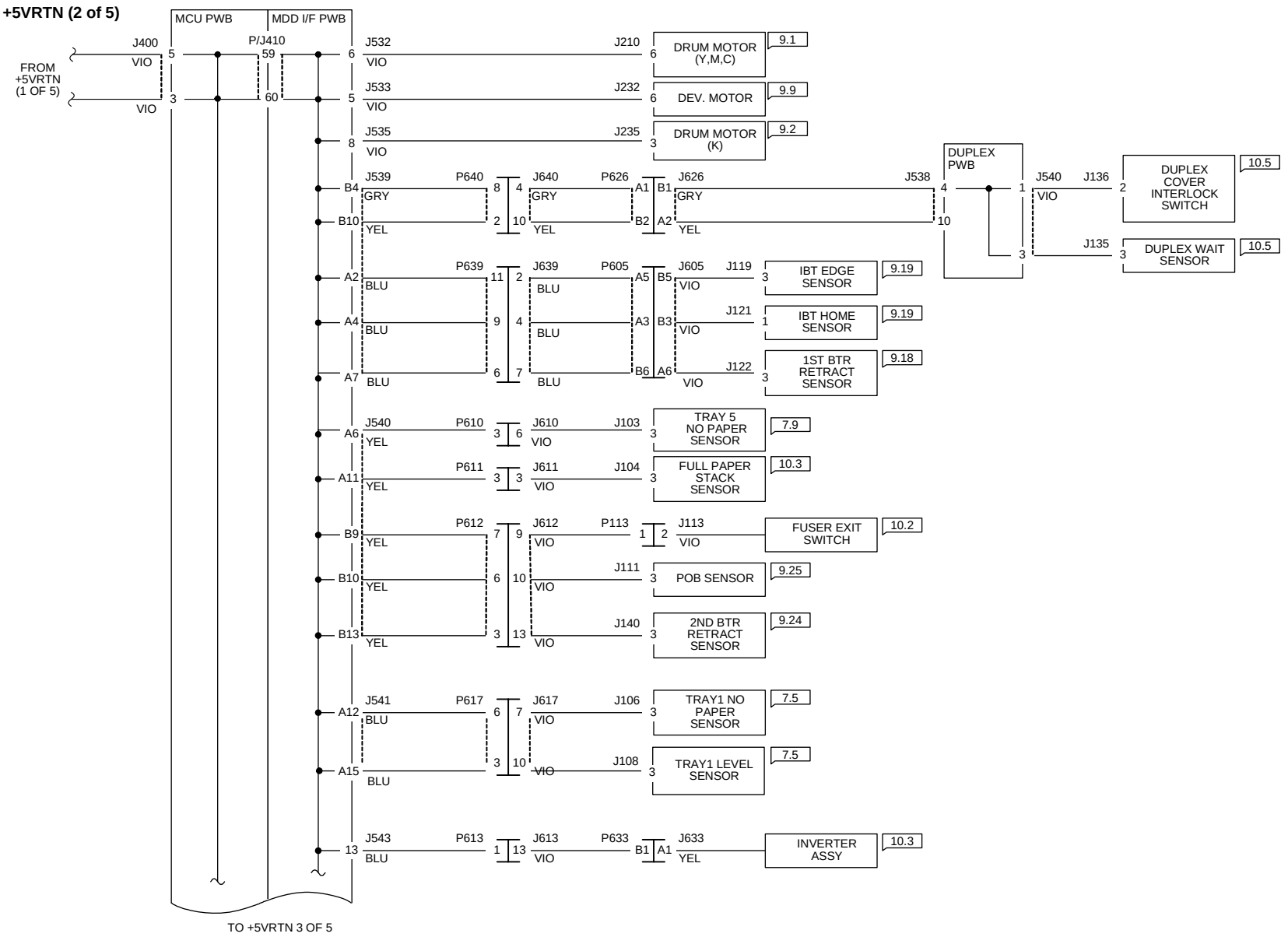


Figure 2 5V RTN (2 of 5) Wirenet

+5VRTN (3 OF 5)

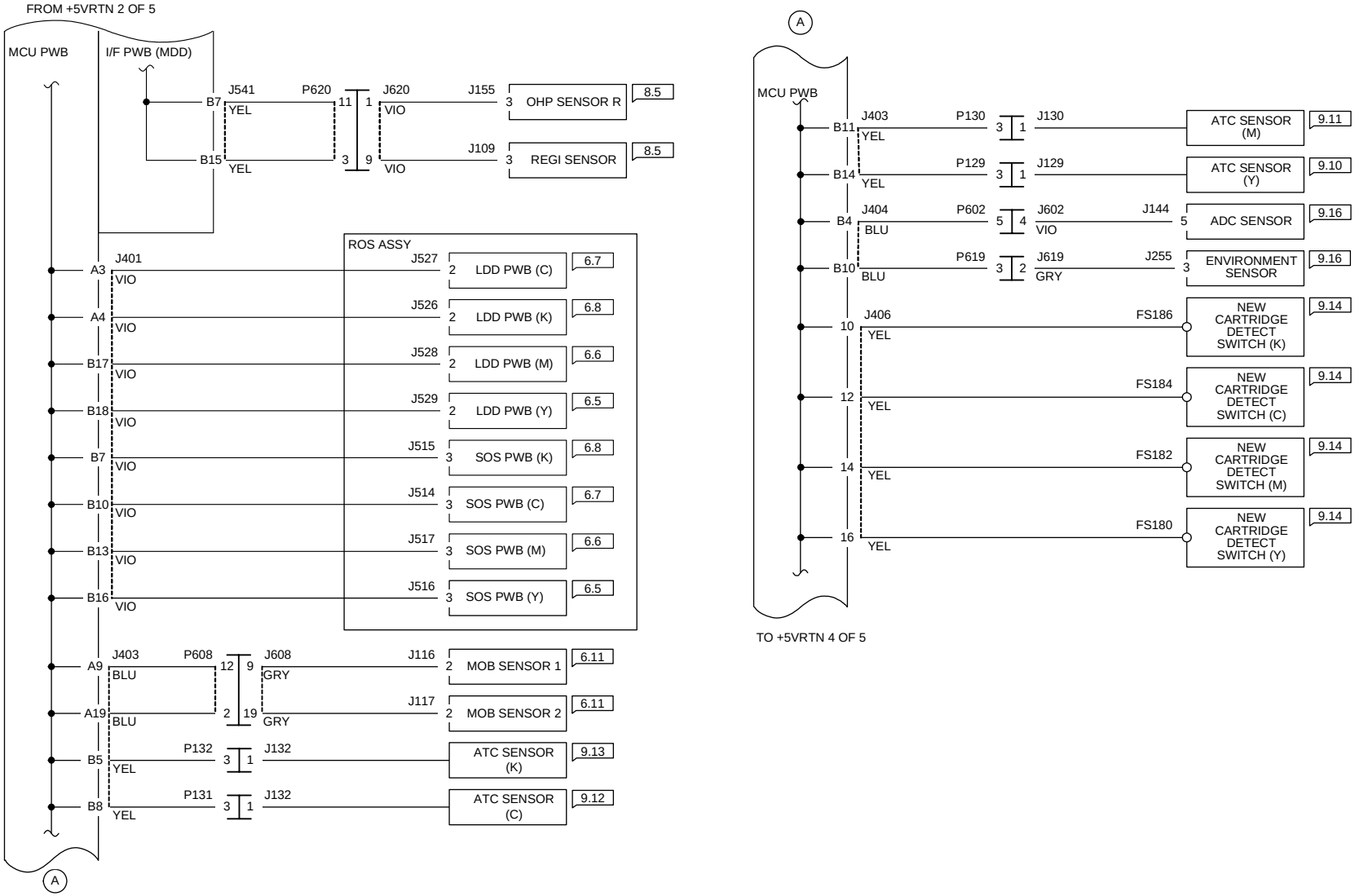
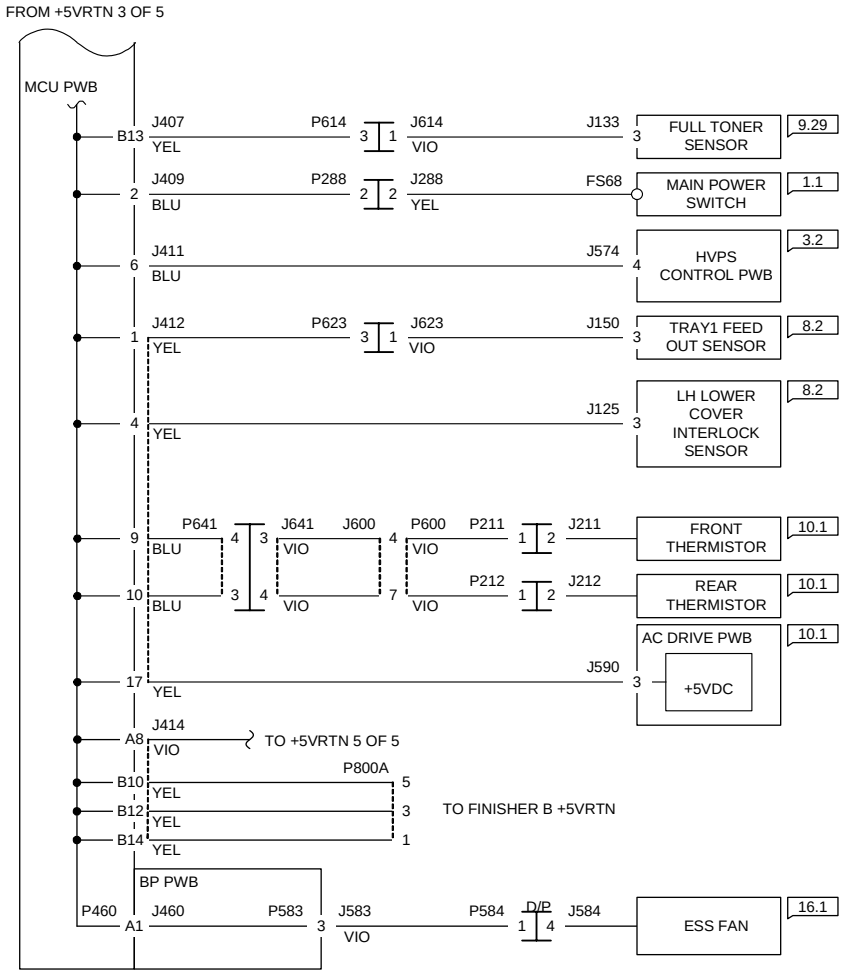


Figure 3 5V RTN (3 of 5) Wirenet

+5VRTN (4 OF 5)



T720012.VSD.

Figure 4 5V RTN (4 of 5) Wirenet

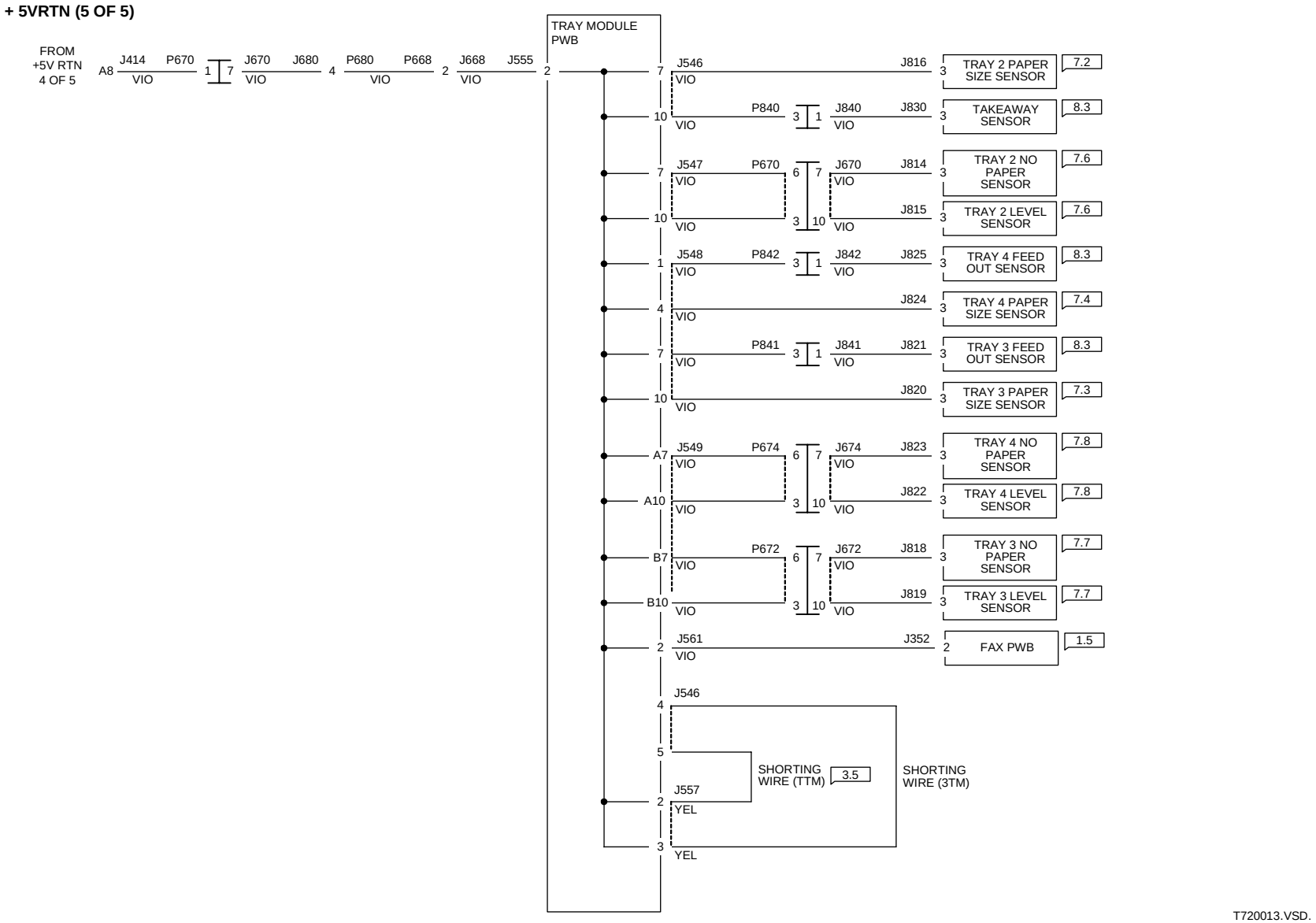


Figure 5 5V RTN (5 of 5) Wirenet

+24VDC (1 OF 4)

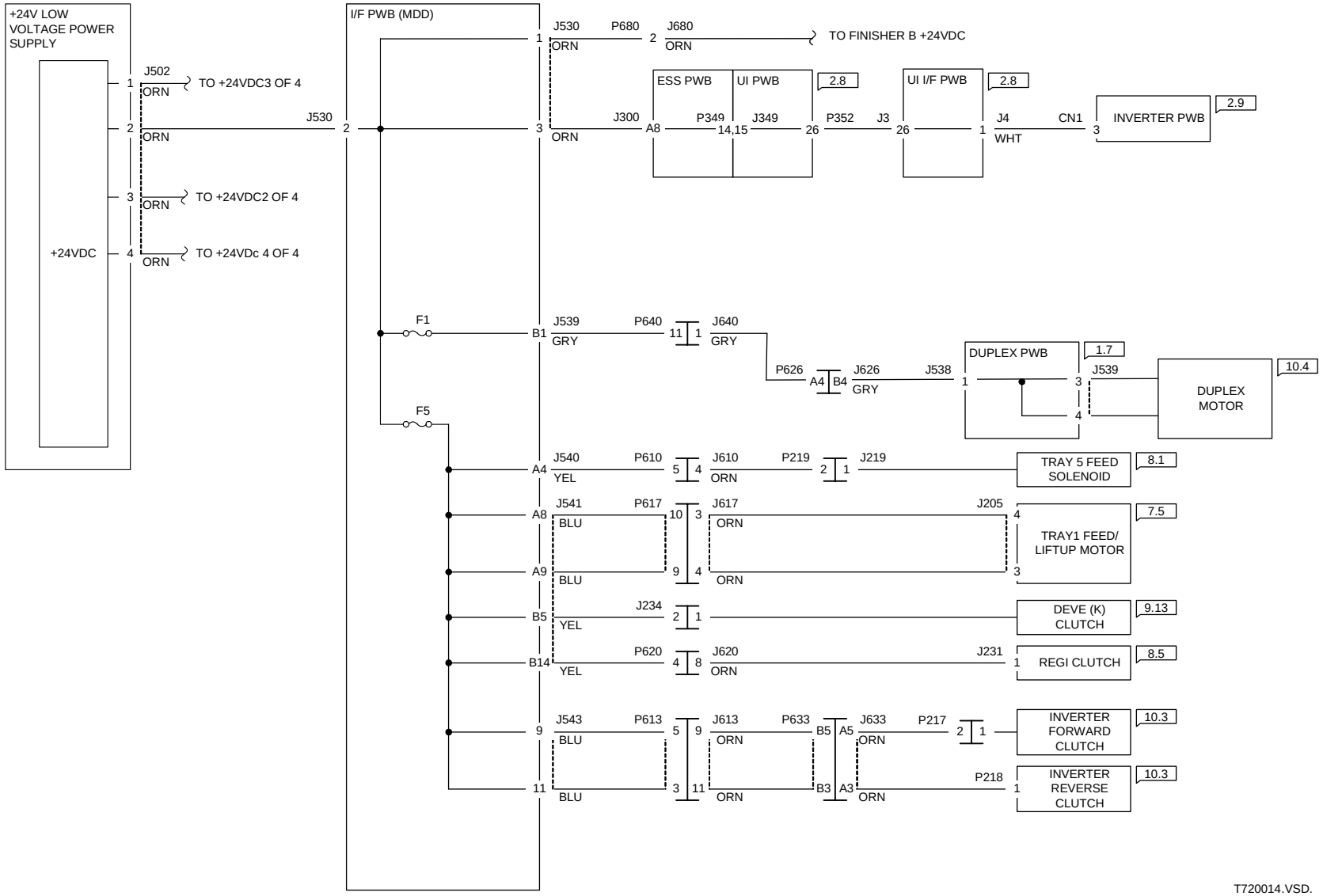
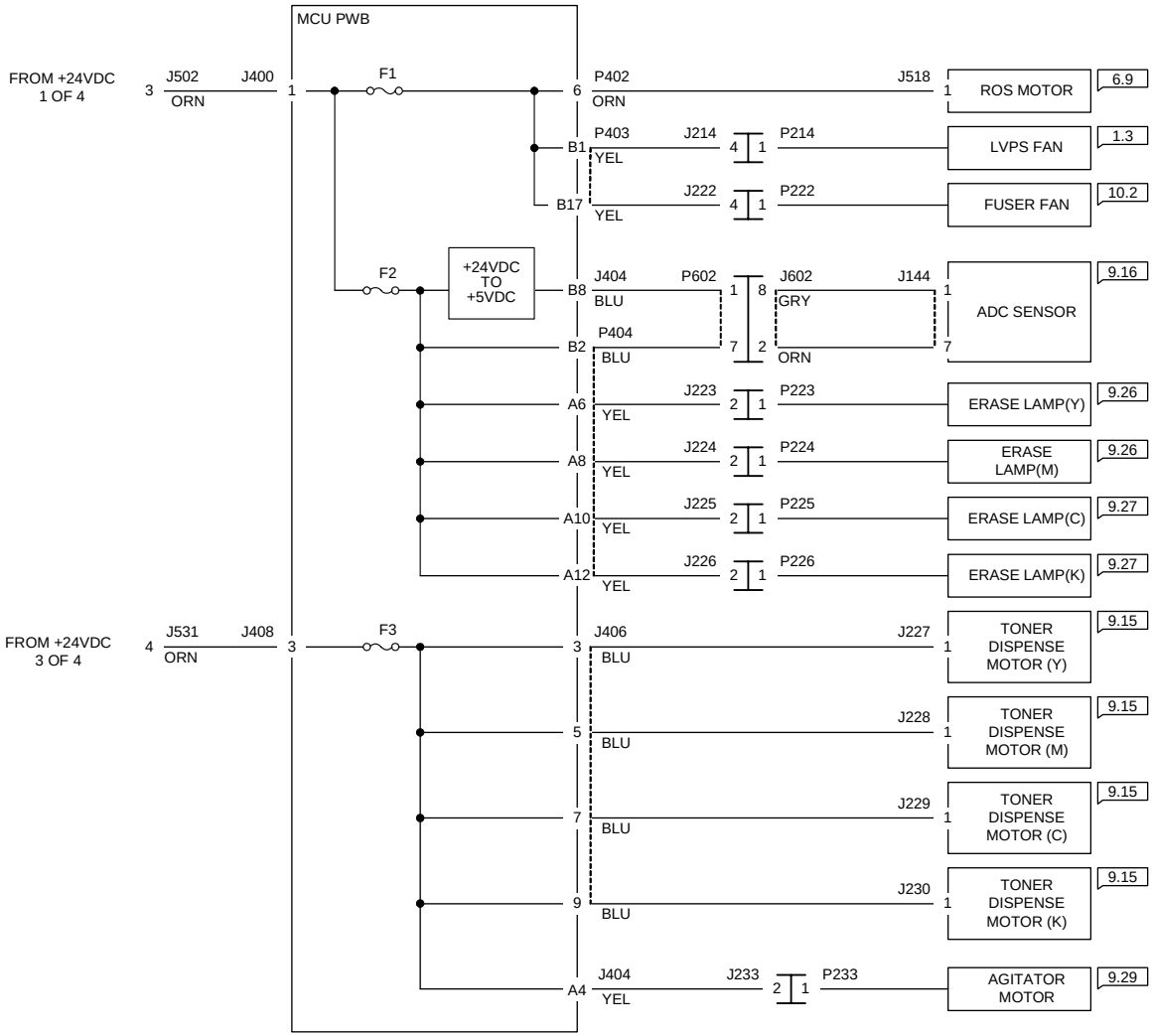


Figure 1 +24VDC (1 of 4)

+24VDC (2 OF 4)



T720015.VSD.

Figure 2 +24VDC (2 of 4)

+24VDC (3 OF 4)

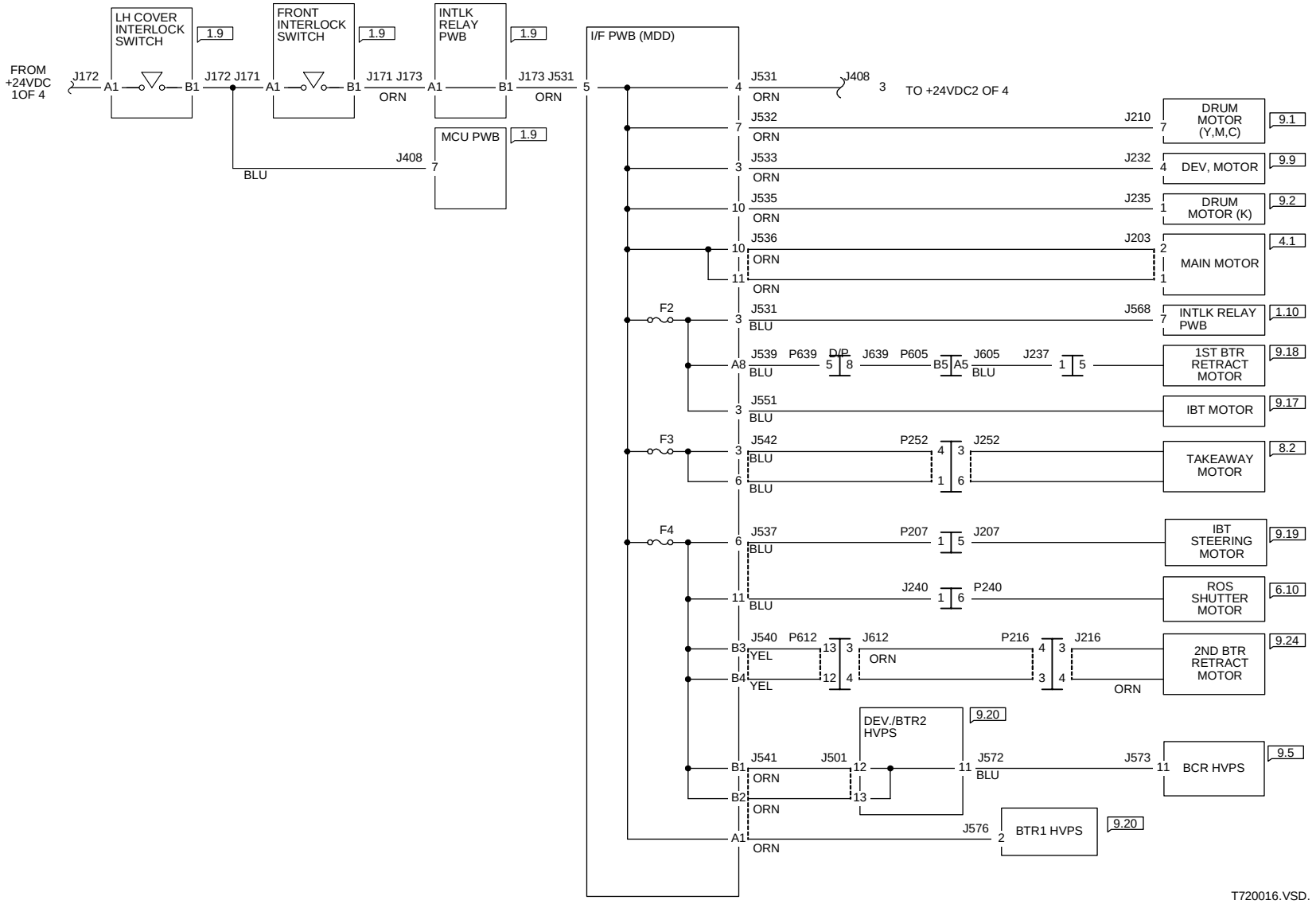
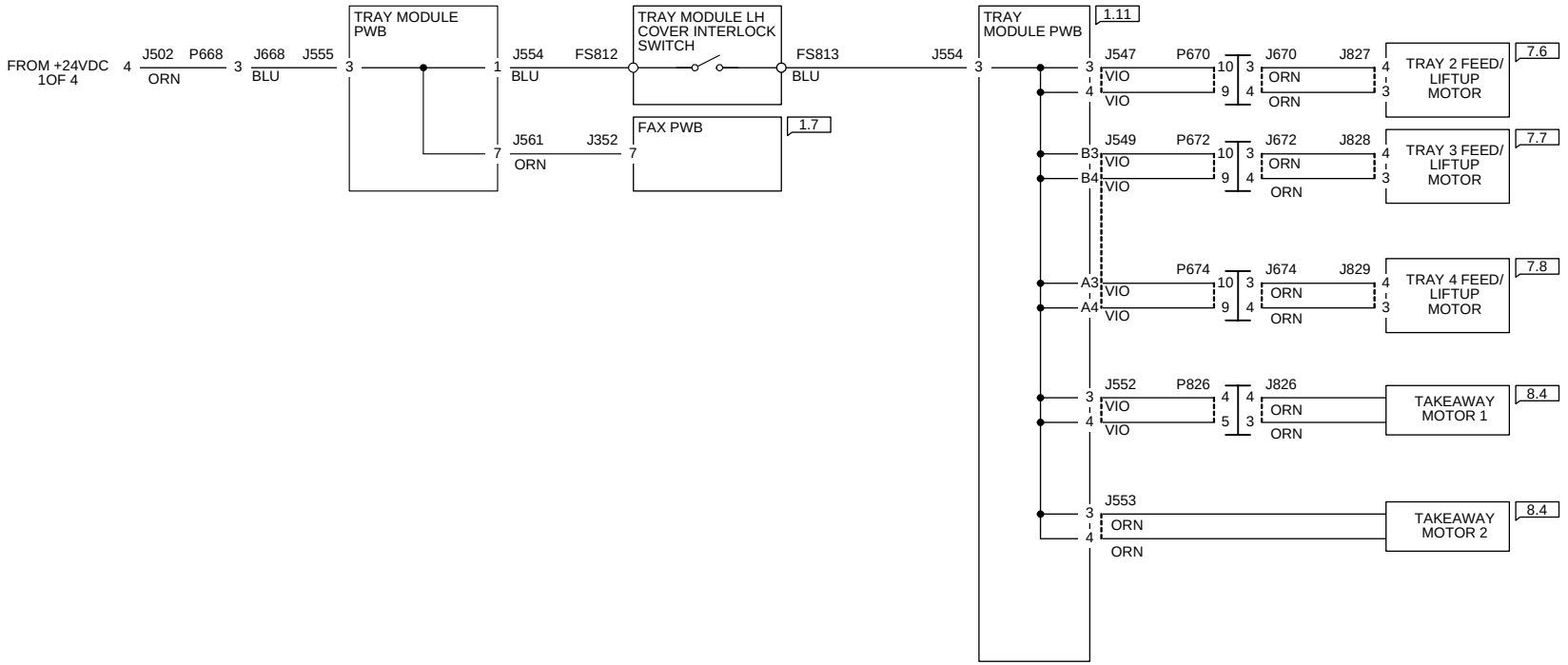


Figure 3 +24VDC (3 of 4)



T720017.VSD.

Figure 4 +24VDC (4 of 4)

+24 VDC RTN Wirenets

+24VRTN

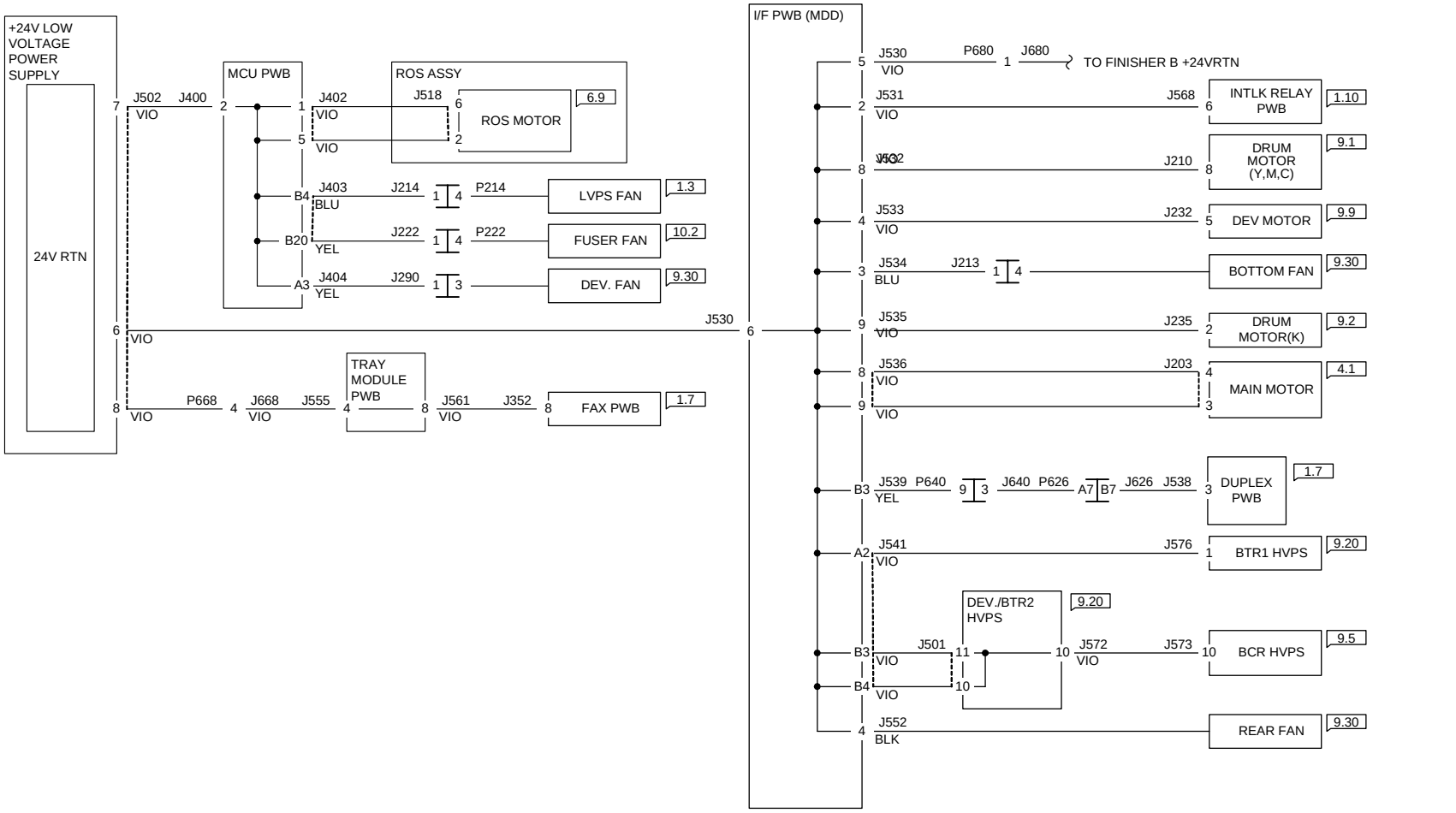


Figure 1 24V RTN Wirenet

IIT +3.3/+5/+24VDC

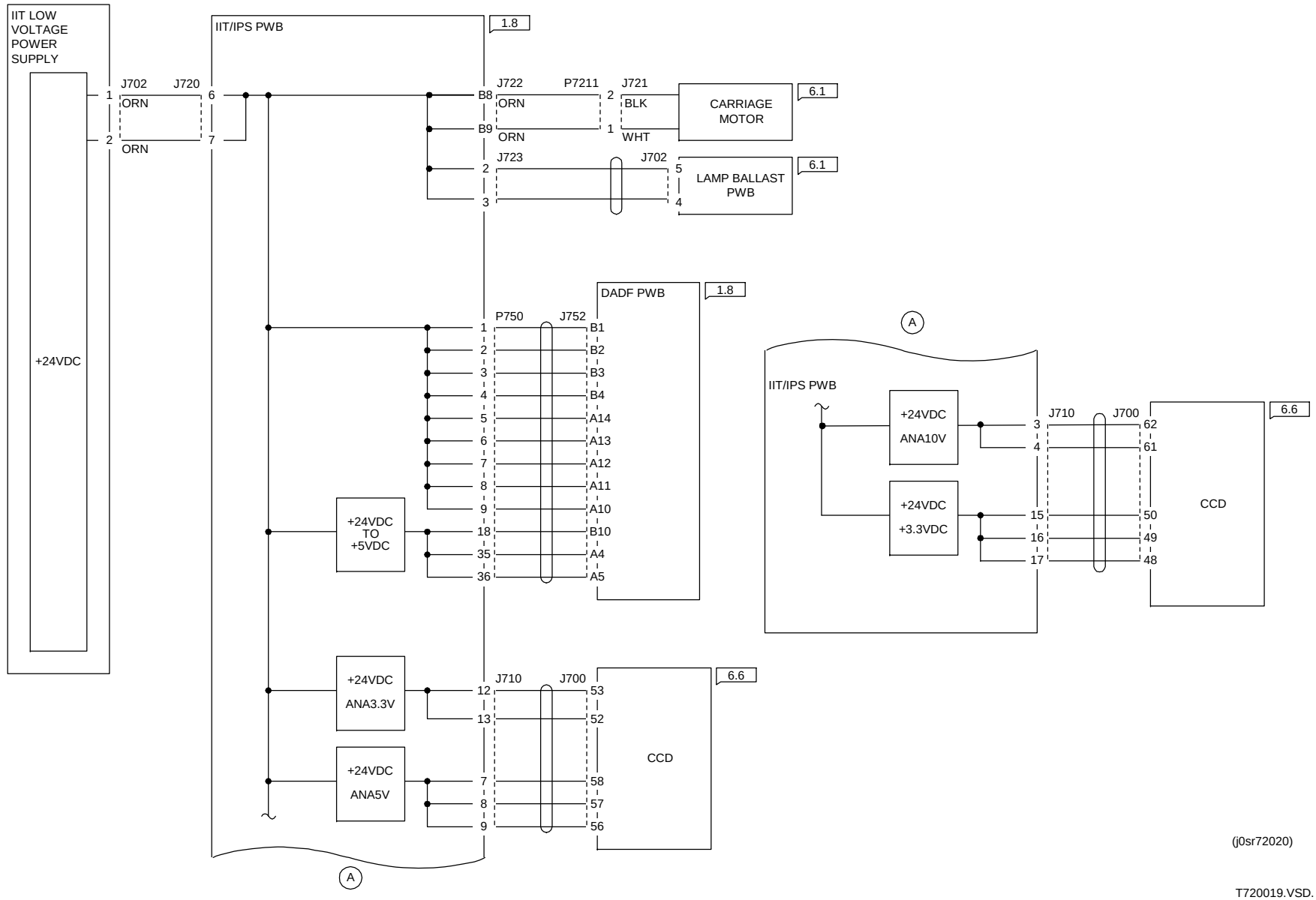


Figure 1 IIT +3.3VDC/+5VDC/+24VDC Wirenet

IIT +3.3/+5/+24V-RTN

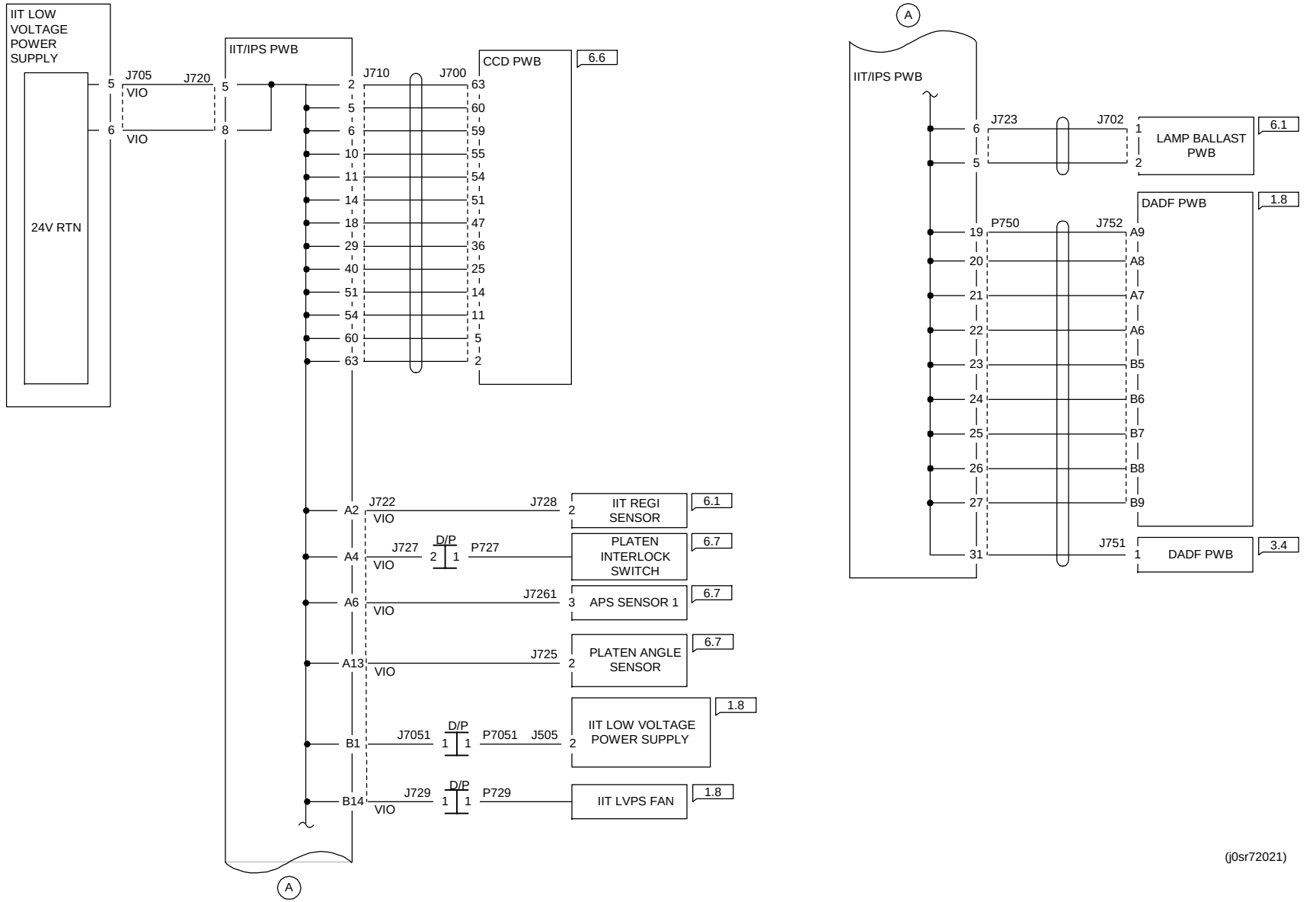
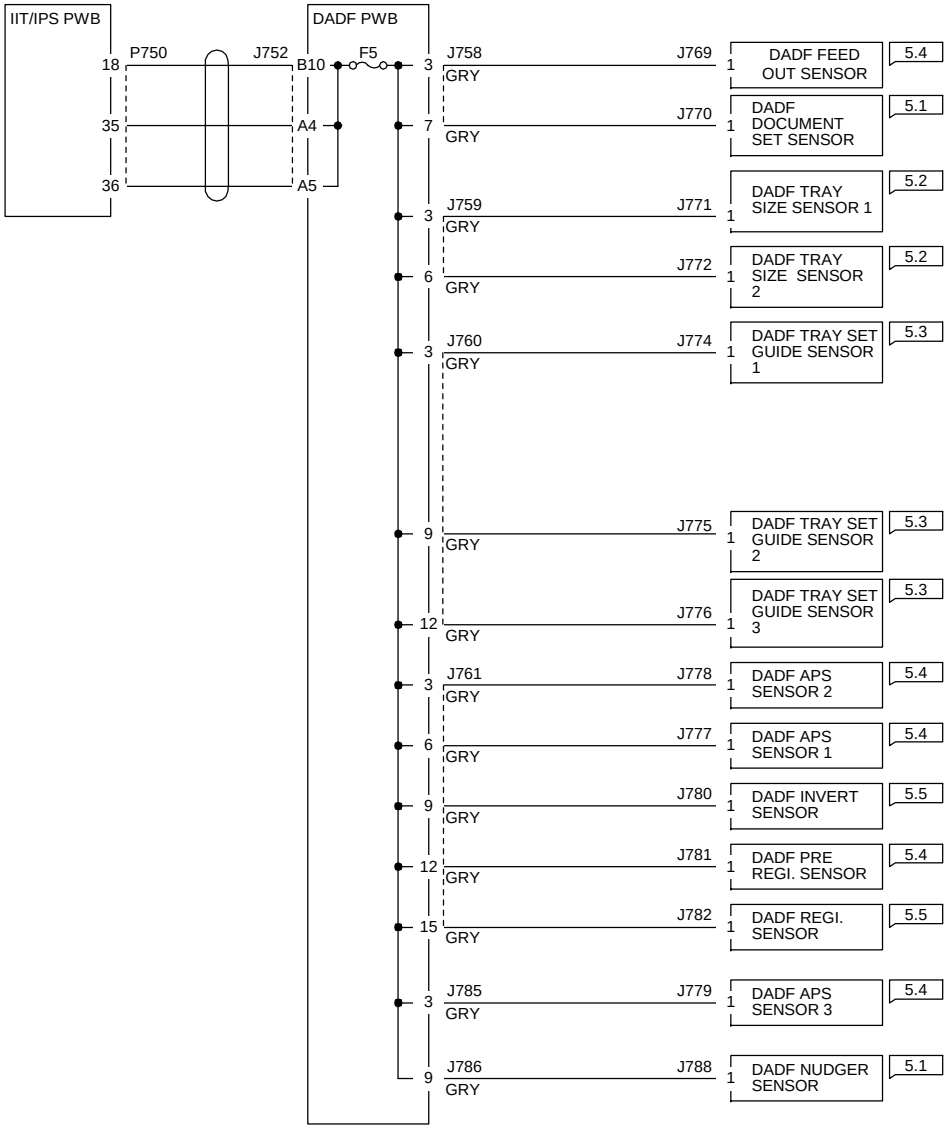


Figure 2 IIT +3.3VDC/+5VDC/+24VDC RTN Wirenet

DADF +5VDC

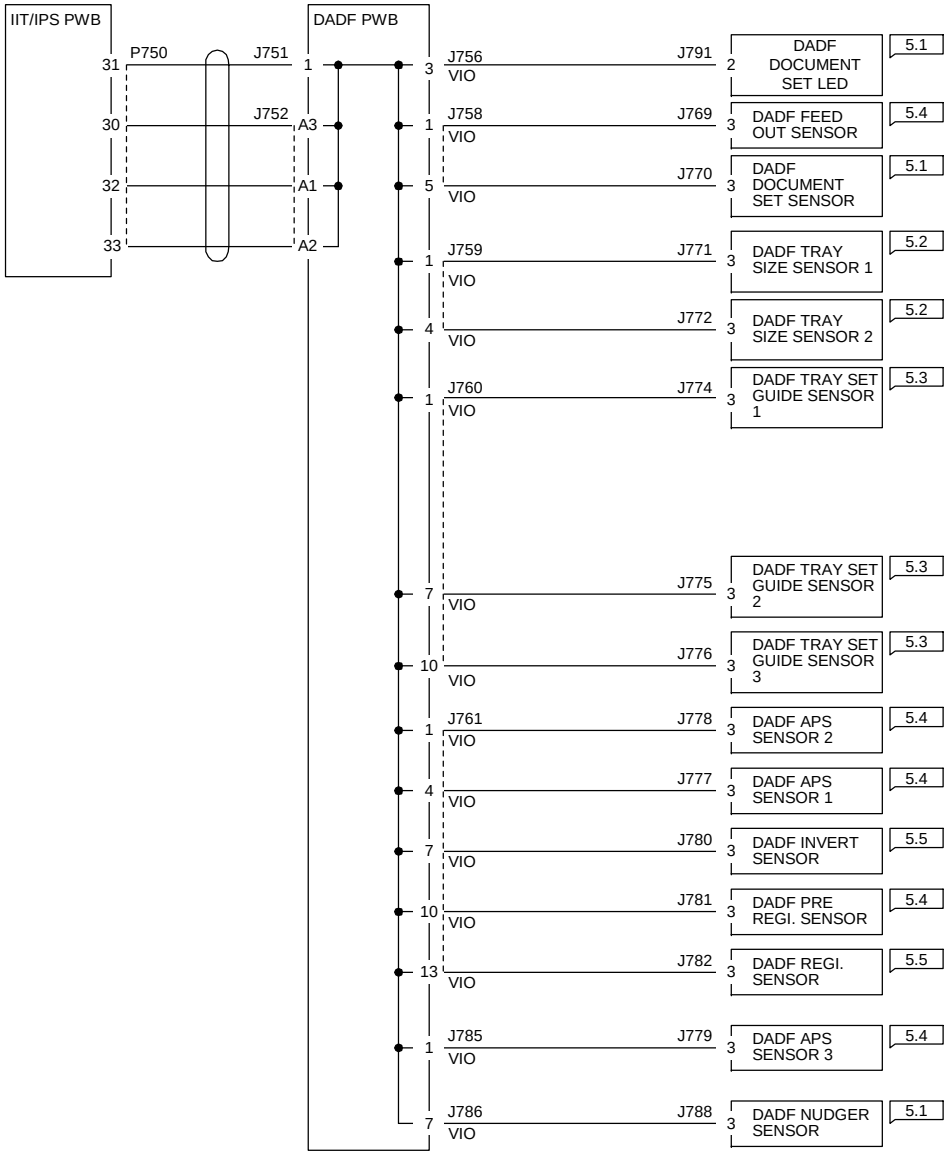


(j0sr72022)

T720021.VSD.

Figure 1 DADF +5 VDC Wirenet

DADF DC COM (5V RTN)

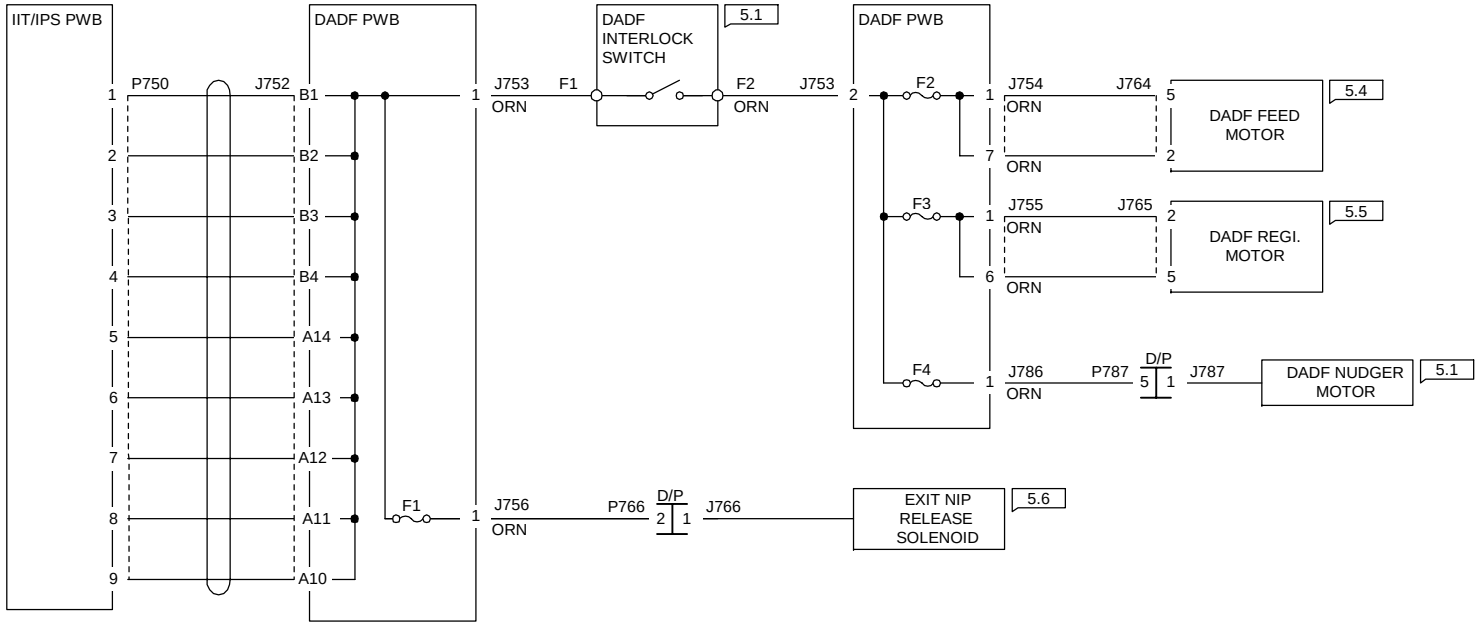


(j0sr72023)

T720022.VSD.

Figure 2 DADF +5VDC RTN Wirenet

DADF +24 VDC

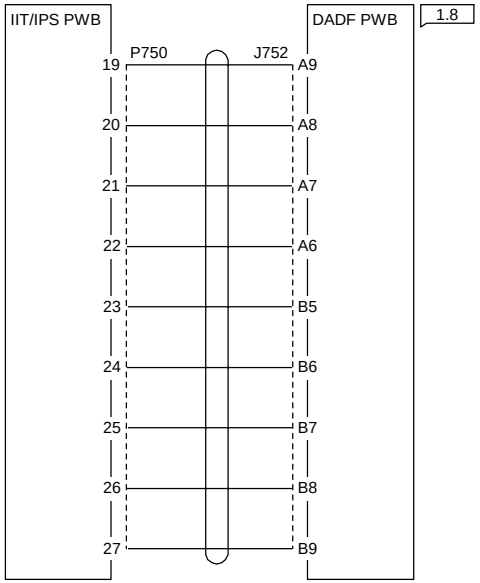


(j0sr72024)

T720023.VSD.

Figure 3 DADF +24VDC Wirenet

DADF 24V RTN



(j0sr72025)

T720024.VSD.

Figure 4 DADF +24VDC RTN Wirenet

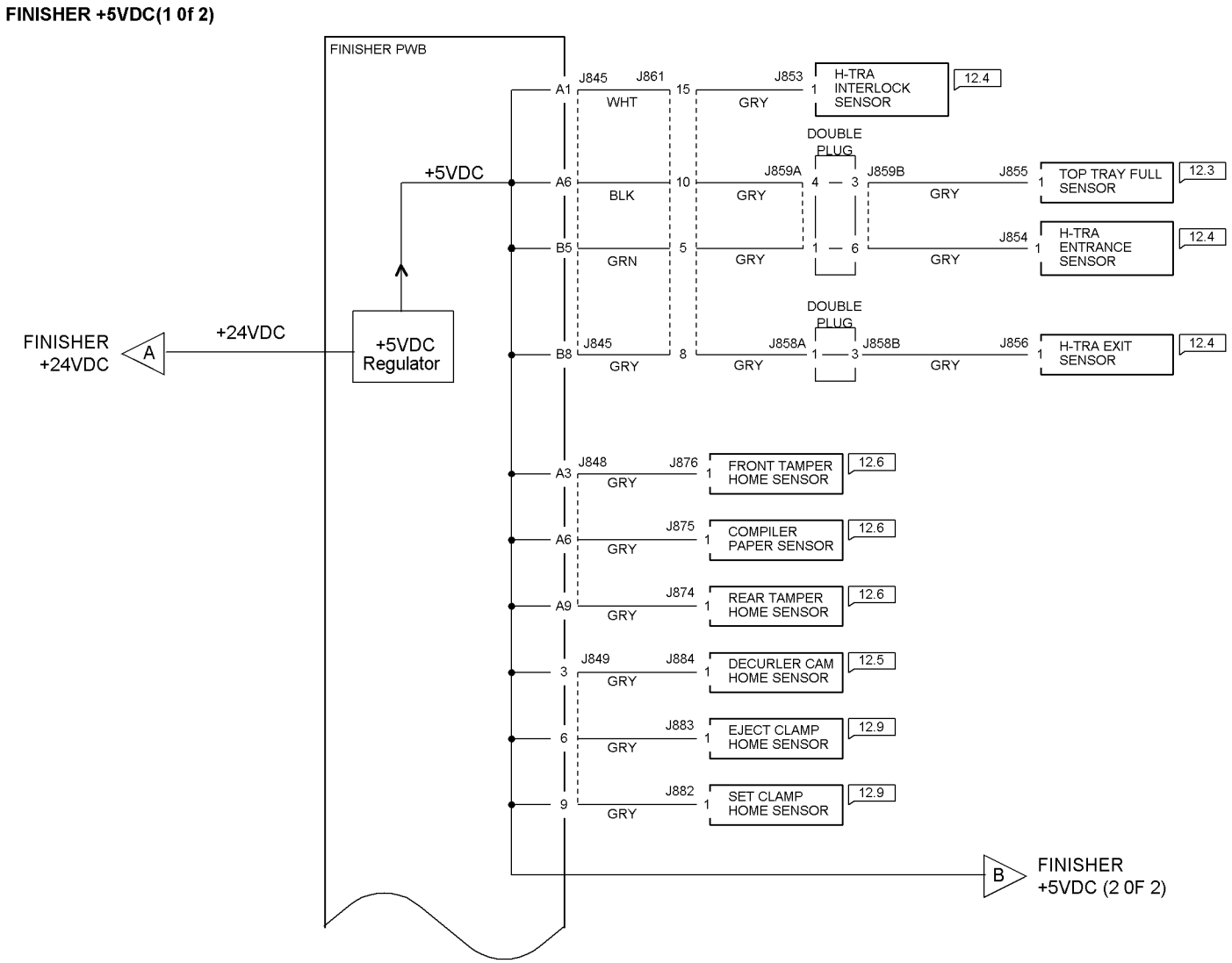
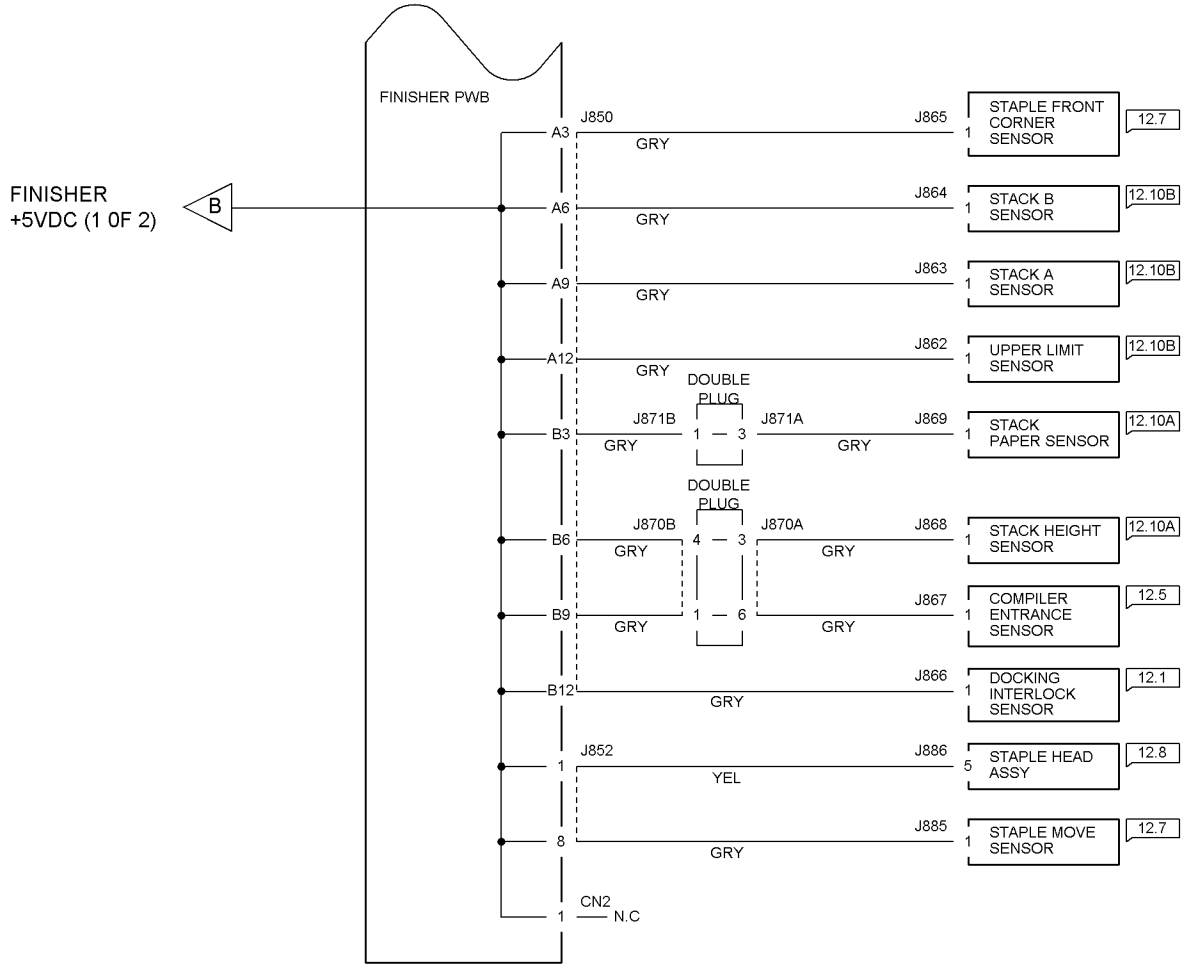


Figure 1 Office Finisher +5VDC (1 of 2) Wirenet

FINISHER +5VDC (2 of 2)



T720026A-CAR

Figure 2 Office Finisher +5VDC (2 of 2) Wirenet

FINISHER 5V RTN (1 of 2)

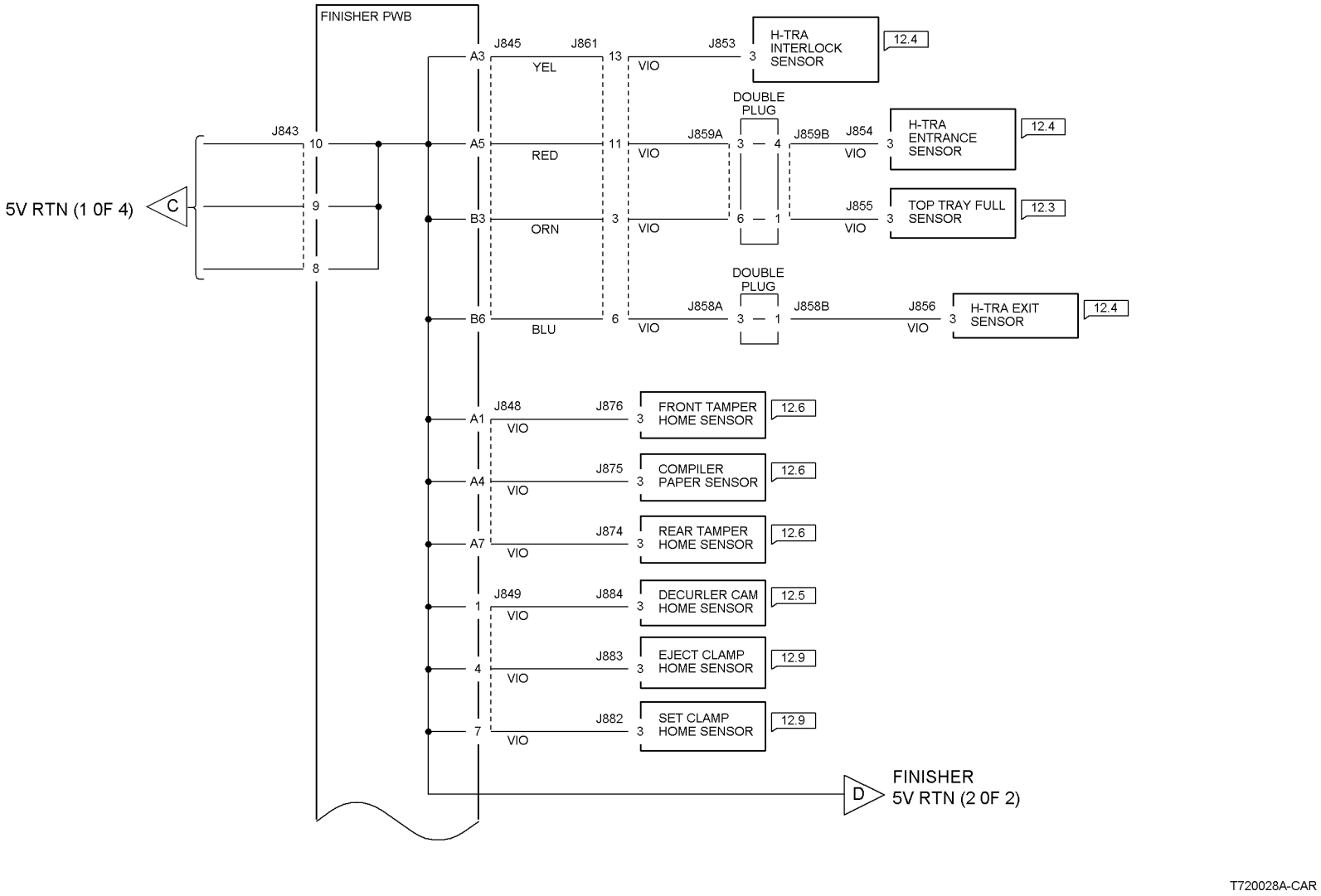


Figure 3 Office Finisher +5V RTN (1 of 2) Wirenet

FINISHER 5V RTN (2 0f 2)

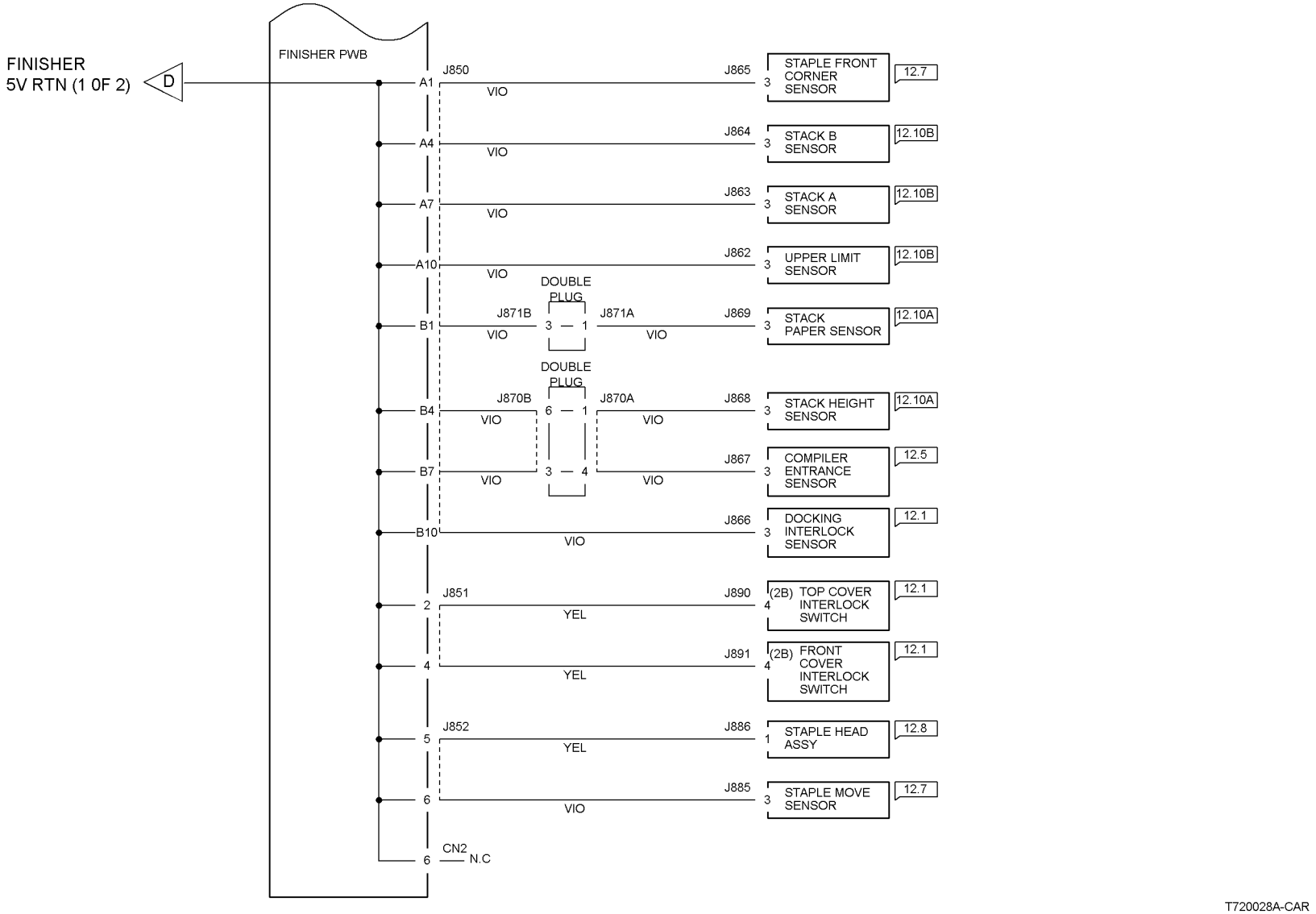


Figure 4 Office Finisher +5V RTN (2 of 2) Wirenet

FINISHER +24VDC

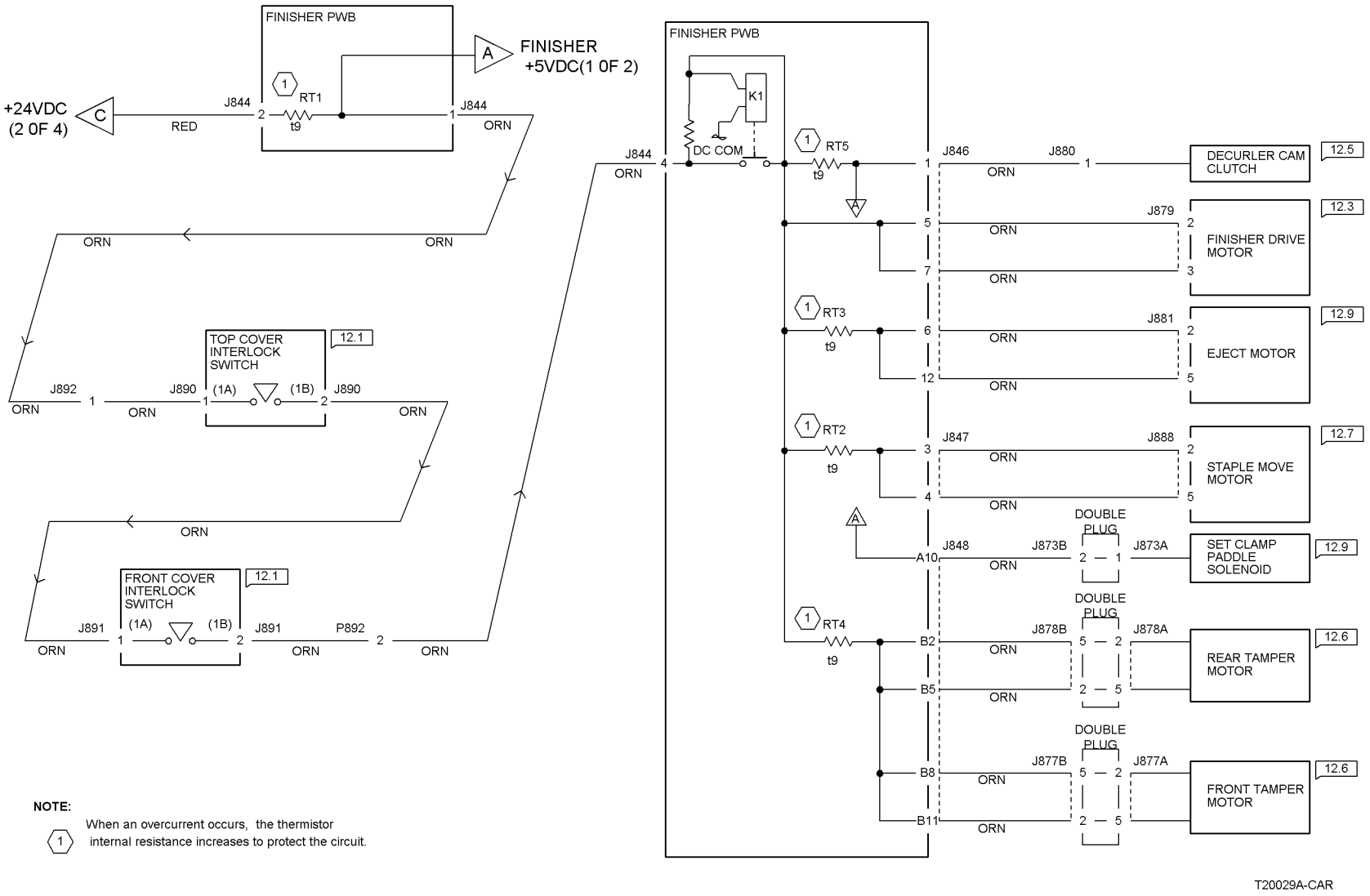
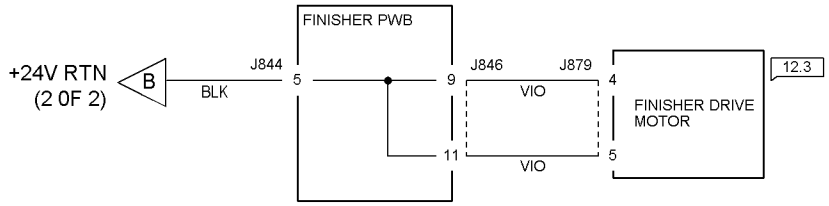


Figure 5 Office Finisher +24VDC Wirenet

FINISHER DC COM (24V RTN)



T720030A-CAR

Figure 6 Office Finisher 24V RTN Wirenet

A/P FINISHER +24VDC DISTRIBUTION (1 OF 3)

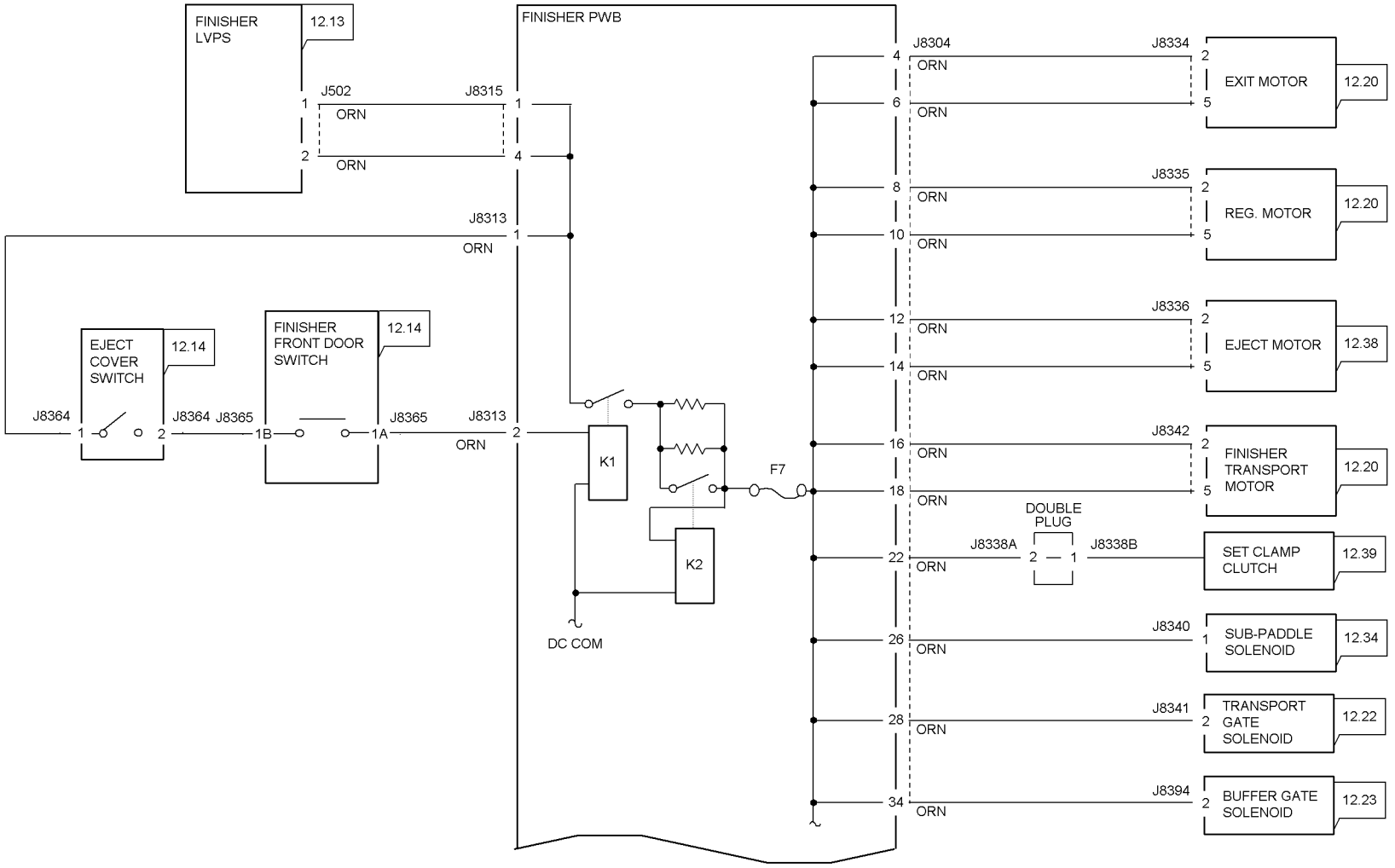


Figure 1 A/P Finisher +24V (1 of 3) Wirenet

A/P FINISHER +24 VDC DISTRIBUTION (2 OF 3)

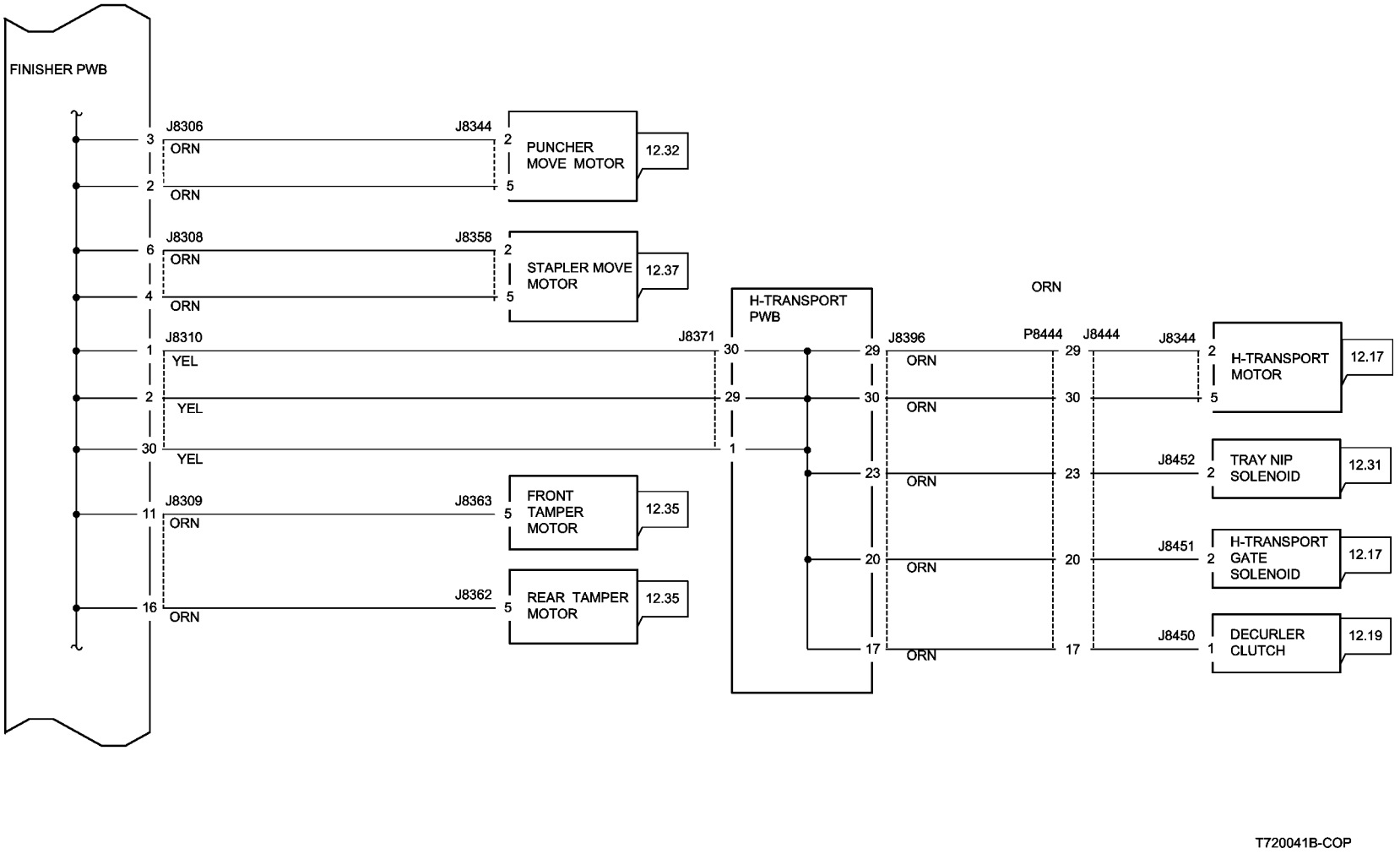


Figure 2 A/P Finisher +24V (2 of 3) Wirenet

A/P FINISHER +24VDC DISTRIBUTION (3 OF 3)

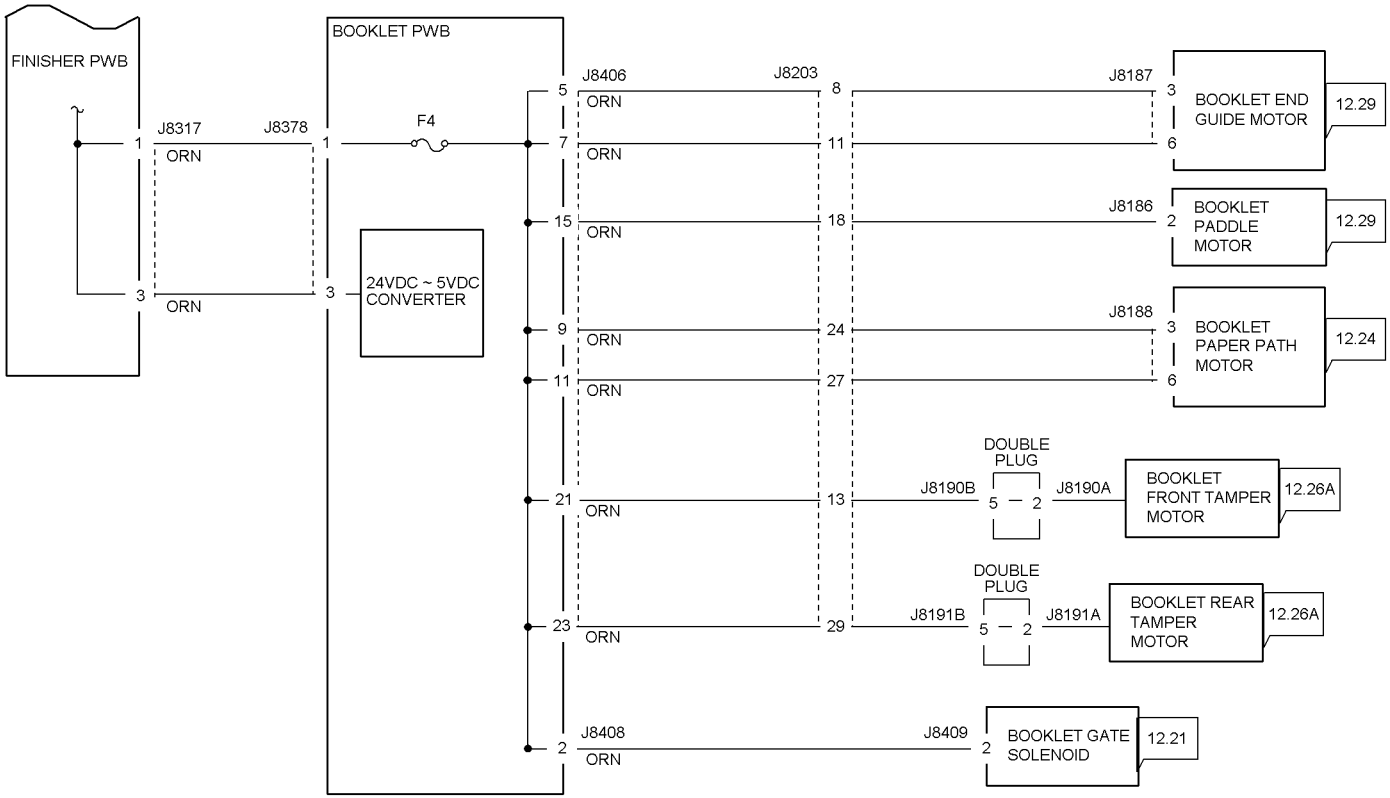


Figure 3 A/P Finisher +24V (3 of 3) Wirenet

FINISHER +5VDC DISTRIBUTION (1 OF 3)

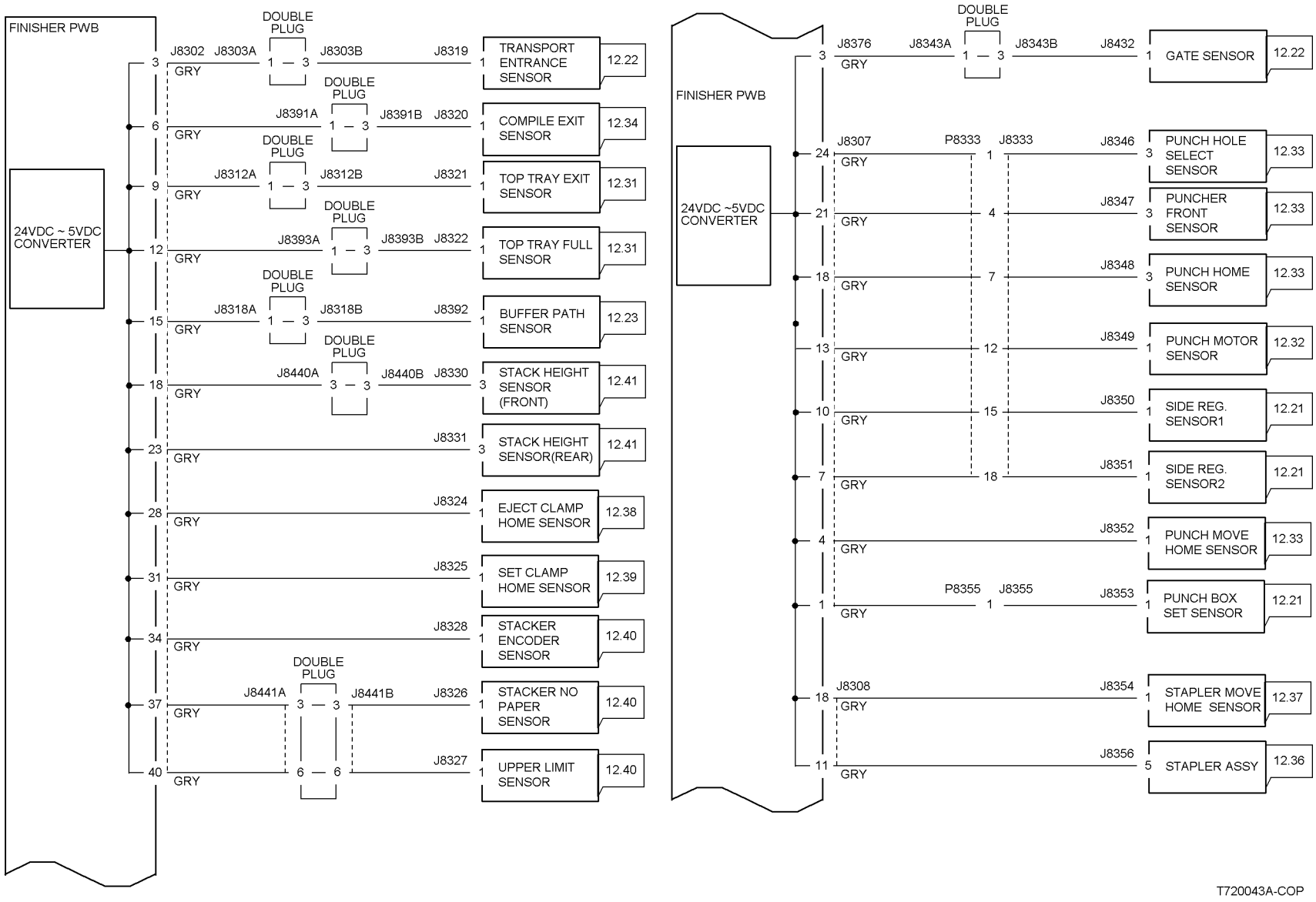


Figure 4 A/P Finisher +5V (1 of 3) Wirenet

A/P FINISHER +5 VDC DISTRIBUTION (2 OF 3)

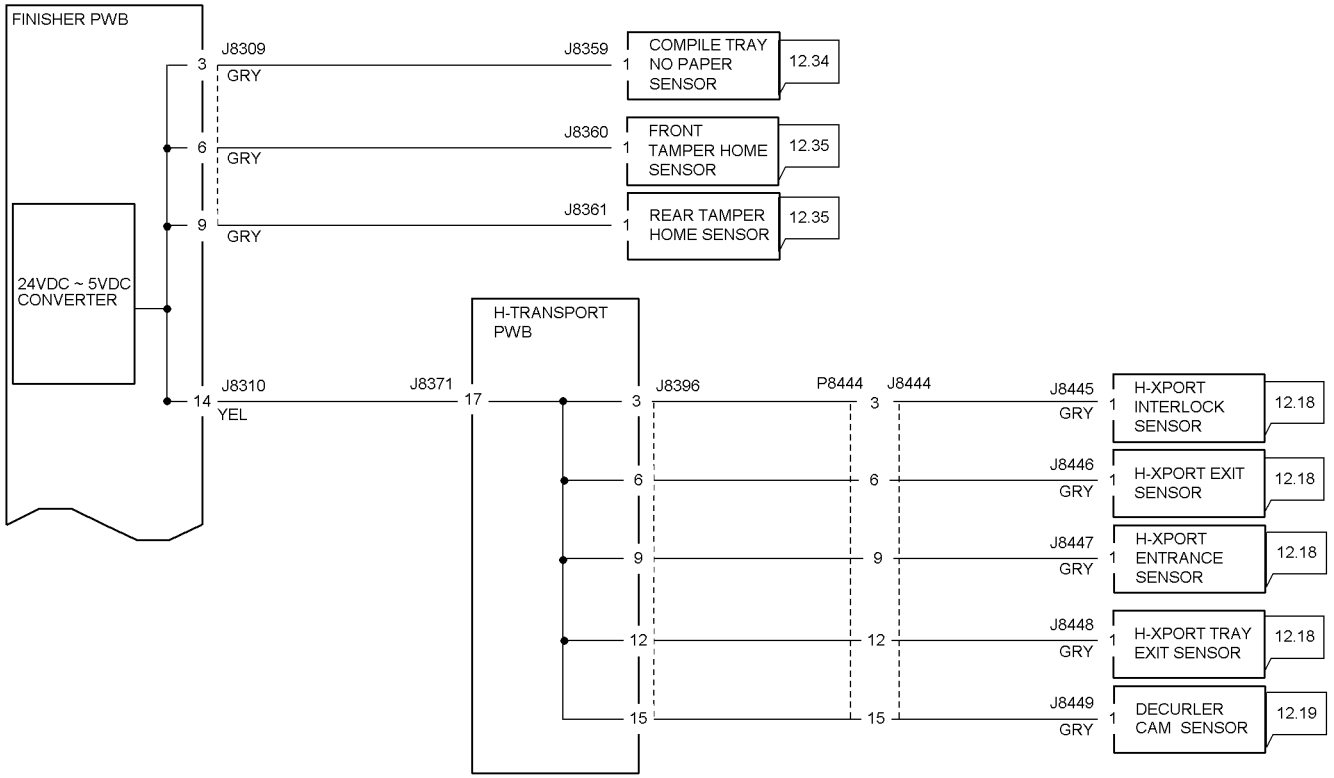


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Figure 5 A/P Finisher +5V (2 of 3) Wirenet

A/P FINISHER +5 VDC DISTRIBUTION (3 OF 3) (BOOKLET MAKER OPTION)

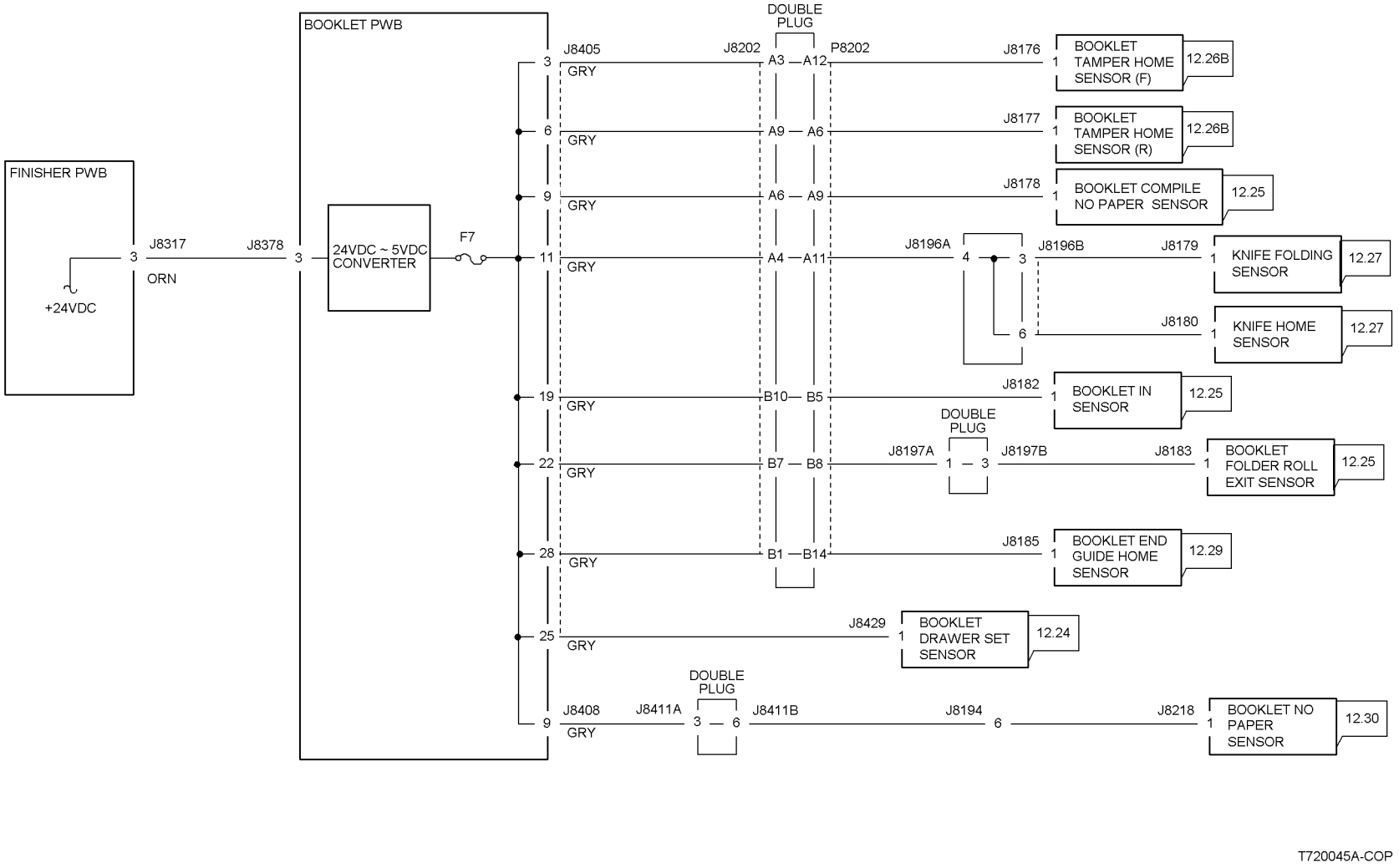


Figure 6 A/P Finisher +5V (3 of 3) Wirenet

A/P FINISHER DC COM DISTRIBUTION (1 OF 4)

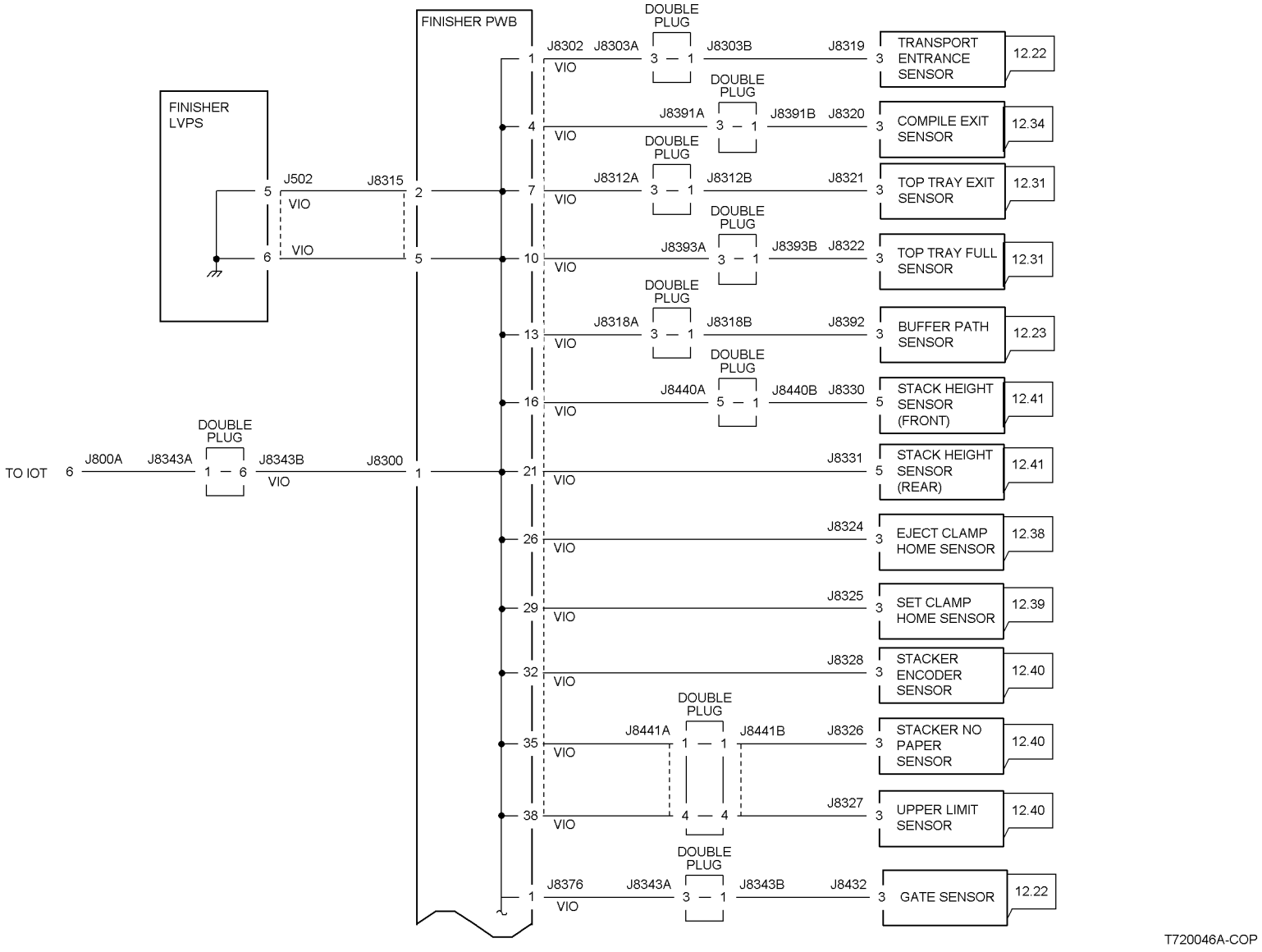
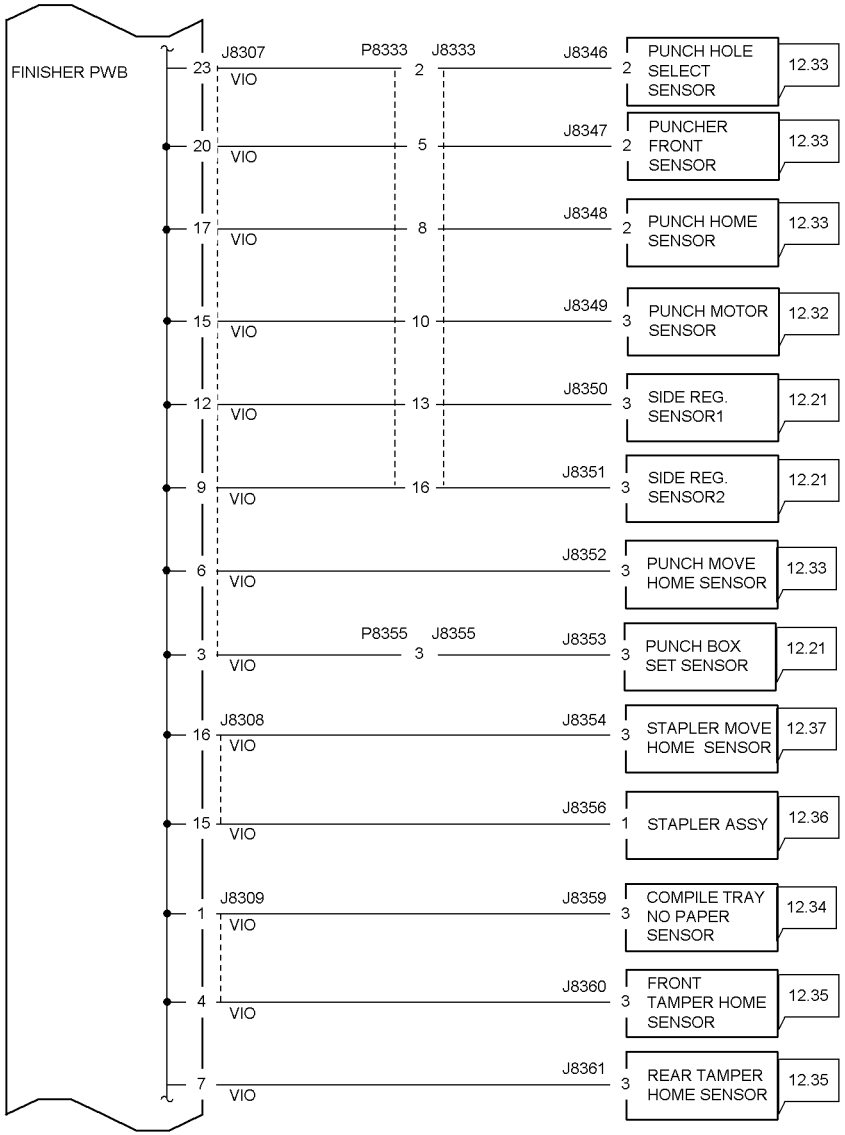


Figure 7 A/P Finisher DC COM (1 of 4) Wirenet

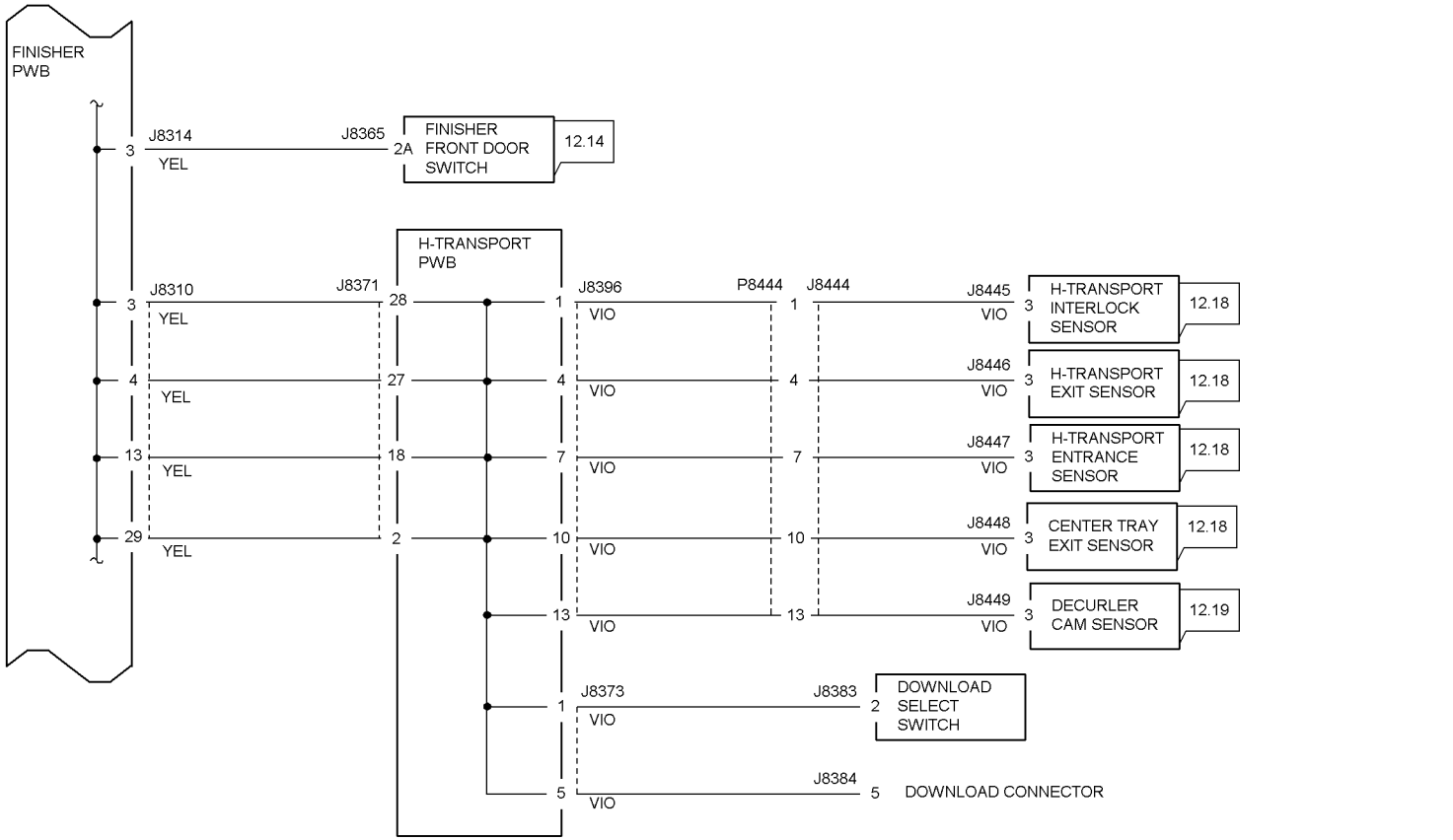
A/P FINISHER DC COM DISTRIBUTION (2 OF 4)



T720047A-COP

Figure 8 A/P Finisher DC COM (2 of 4) Wirenet

A/P FINISHER DC COM DISTRIBUTION (3 OF 4)



T720048A-COP

Figure 9 A/P Finisher DC COM (3 of 4) Wirenet

A/P FINISHER DC COM DISTRIBUTION (4 OF 4) (BOOKLET MAKER OPTION)

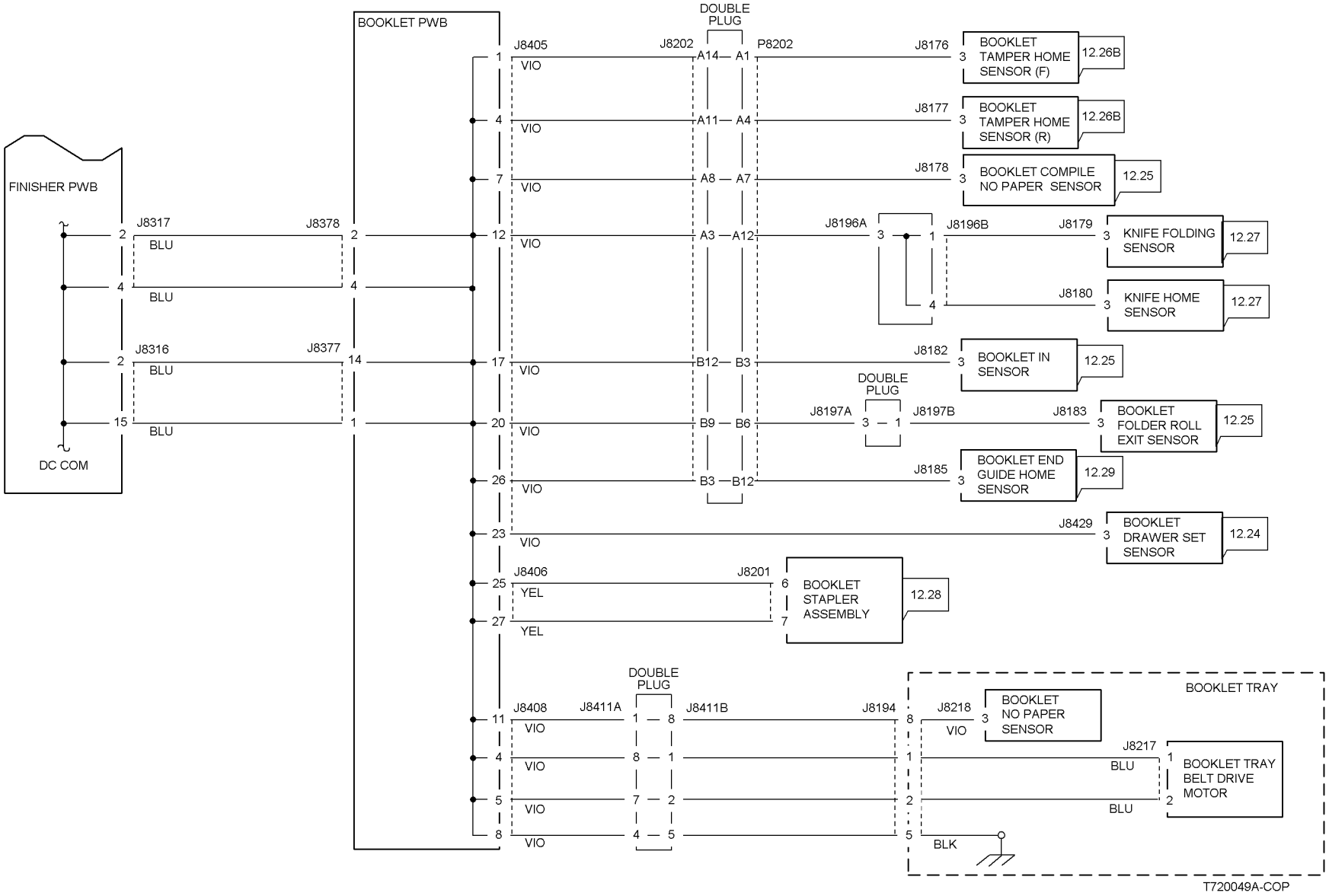


Figure 10 A/P Finisher DC COM (4 of 4) Wirenet

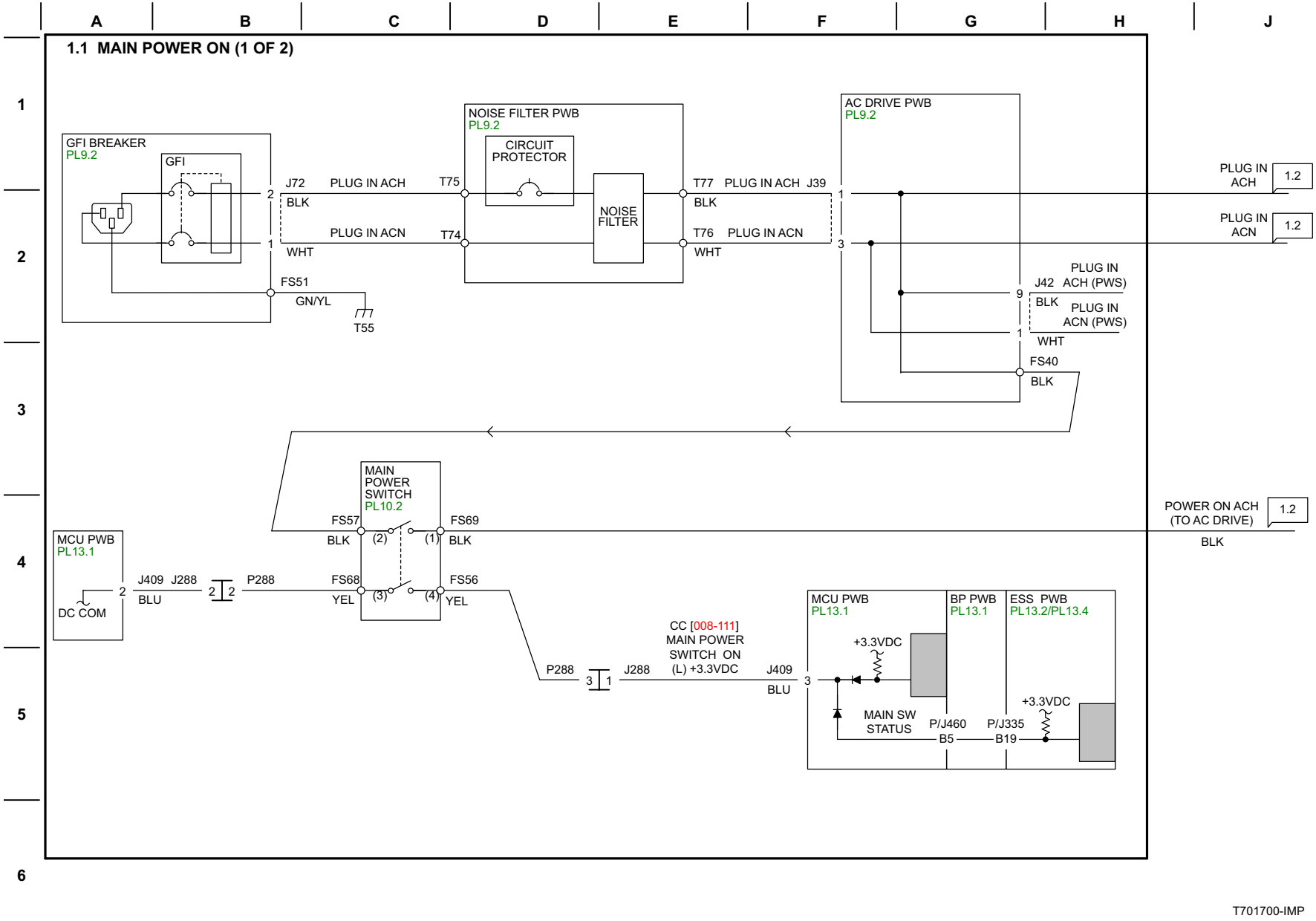


Figure 1 BSD 1.1 Main Power On (1 of 2)

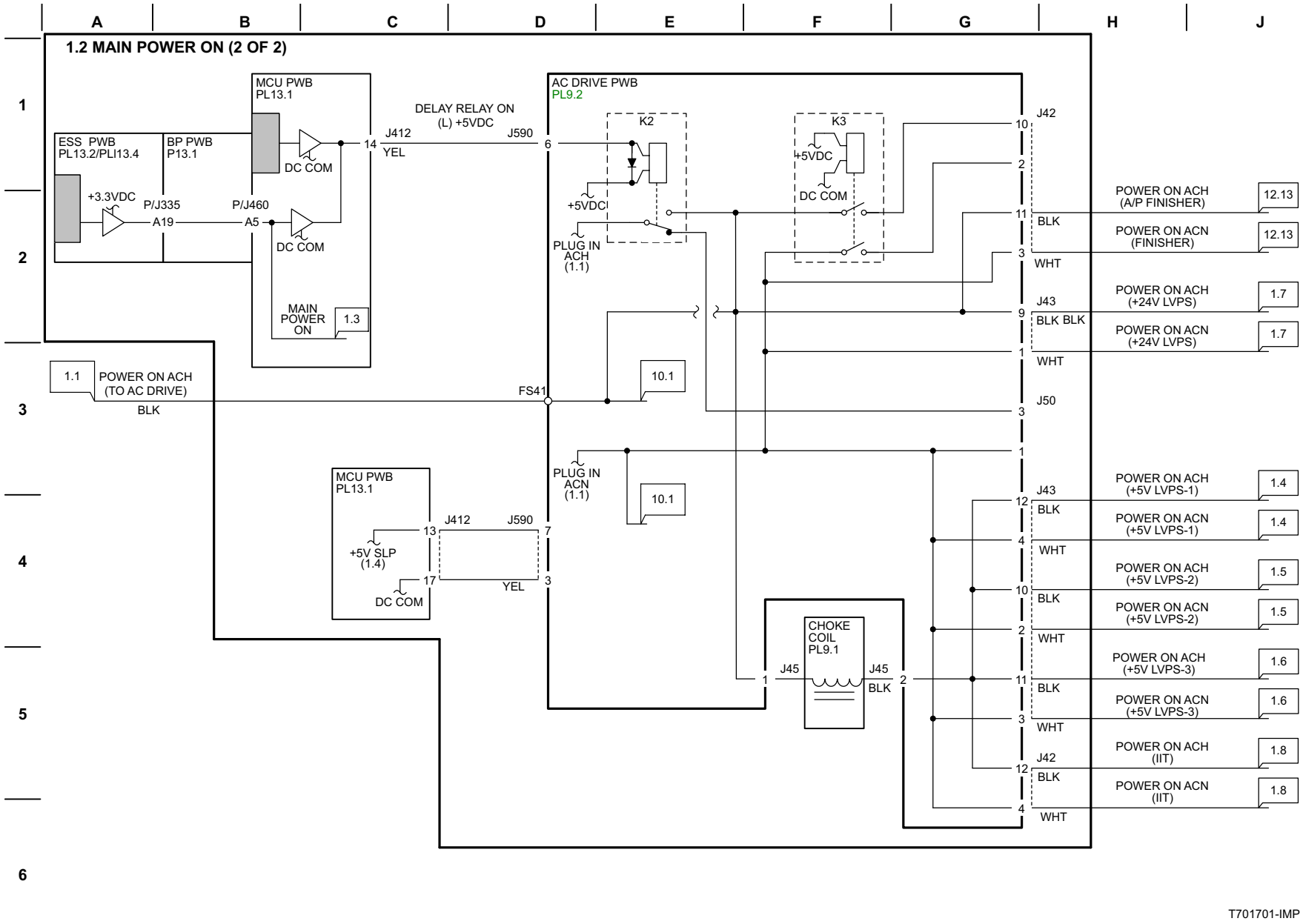
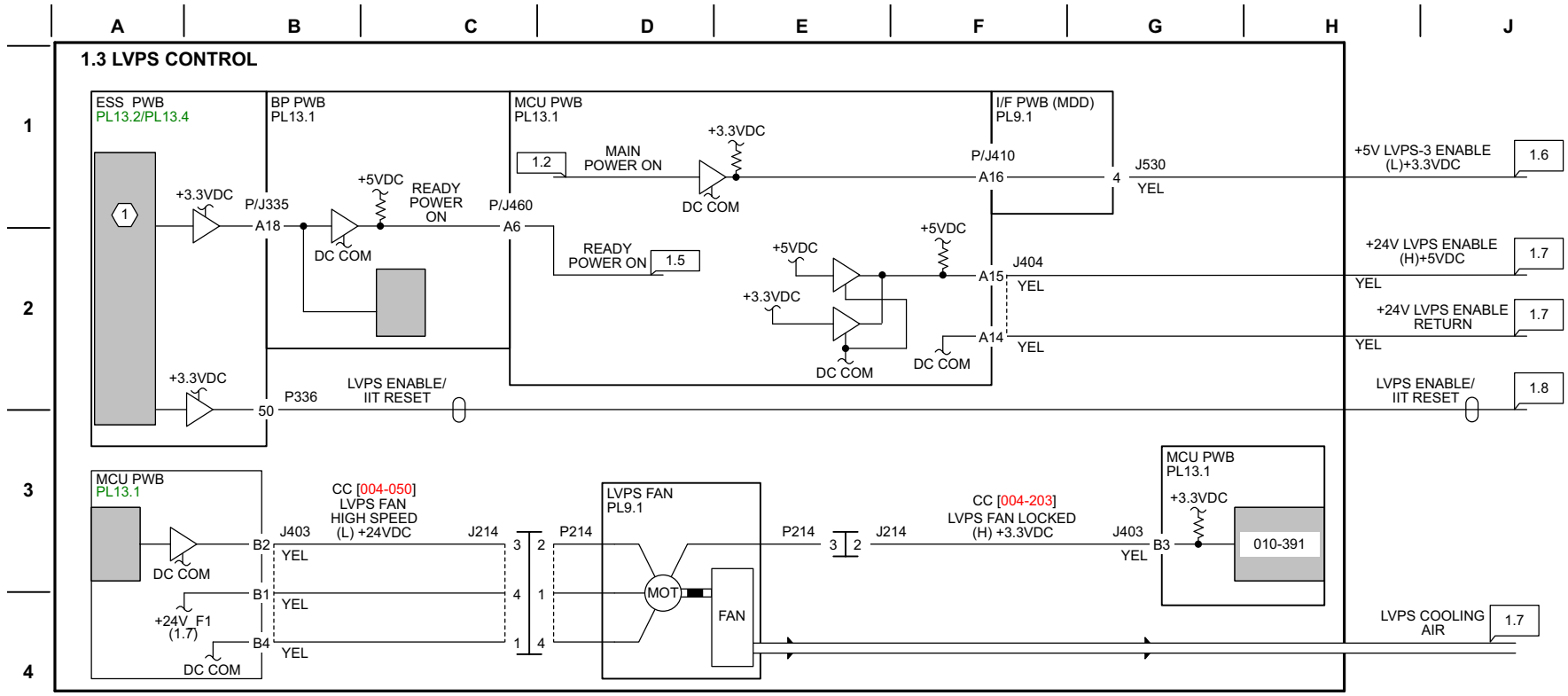


Figure 2 BSD 1.2 Main Power On (2 of 2)



	Standby	Low Power	Semi Low Power	Sleep
Main Power ON	L	L	H	L
Ready Power ON	H	H	L	L
LVPS Enable/ IIT Reset	H	L	L	L

Figure 3 BSD 1.3 LVPS Control

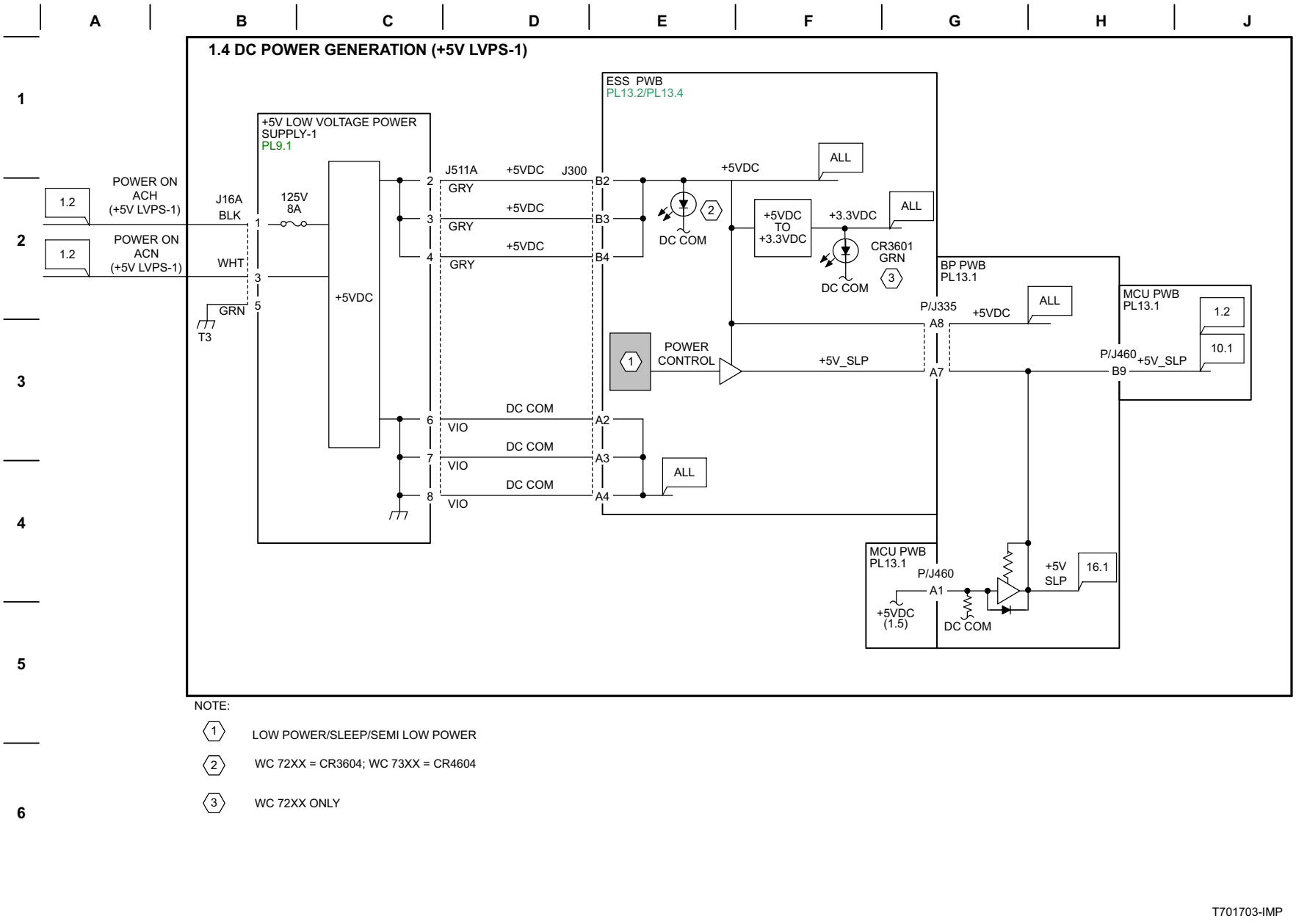


Figure 4 BSD 1.4 DC Power +5 VDC LVPS-1

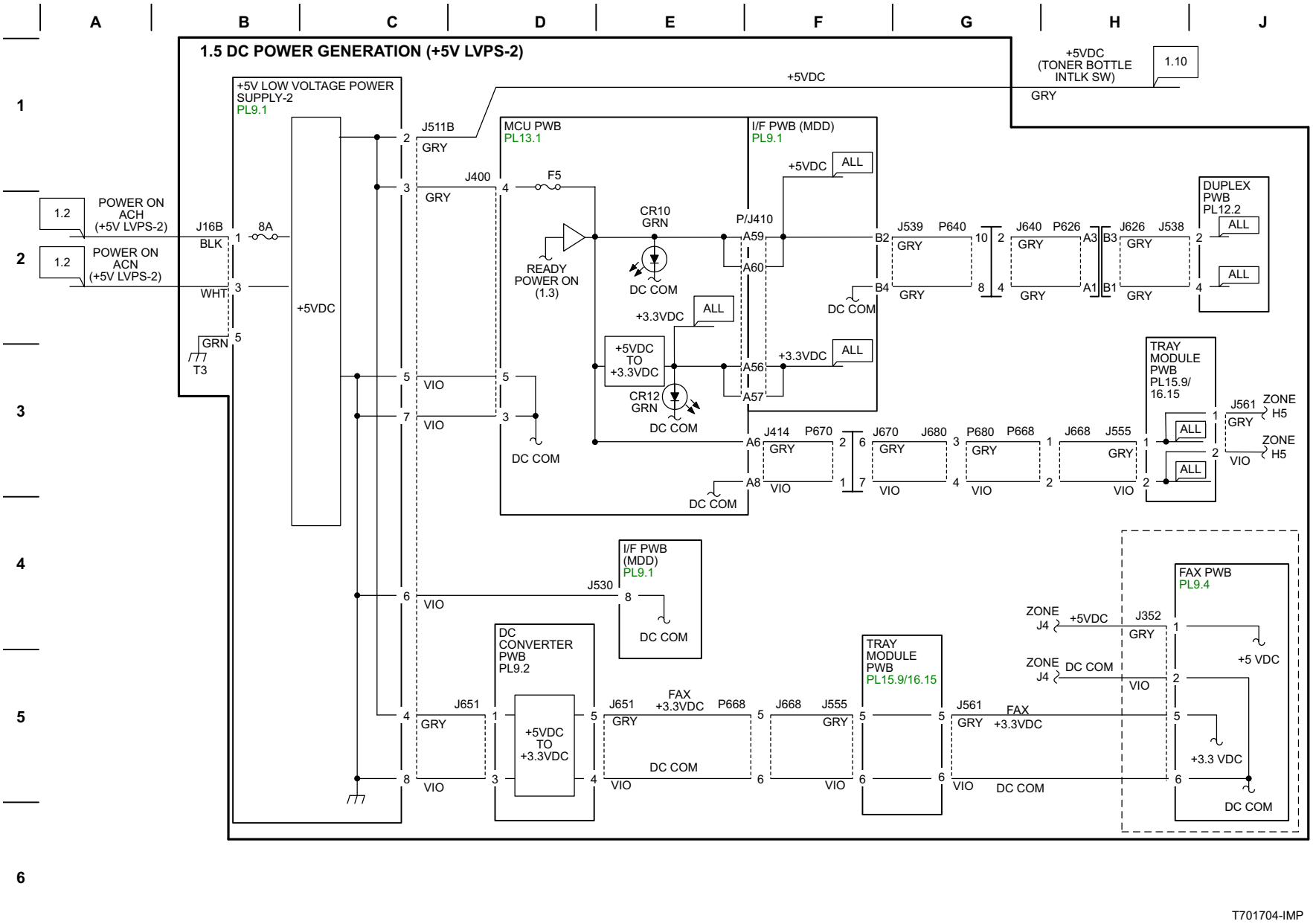
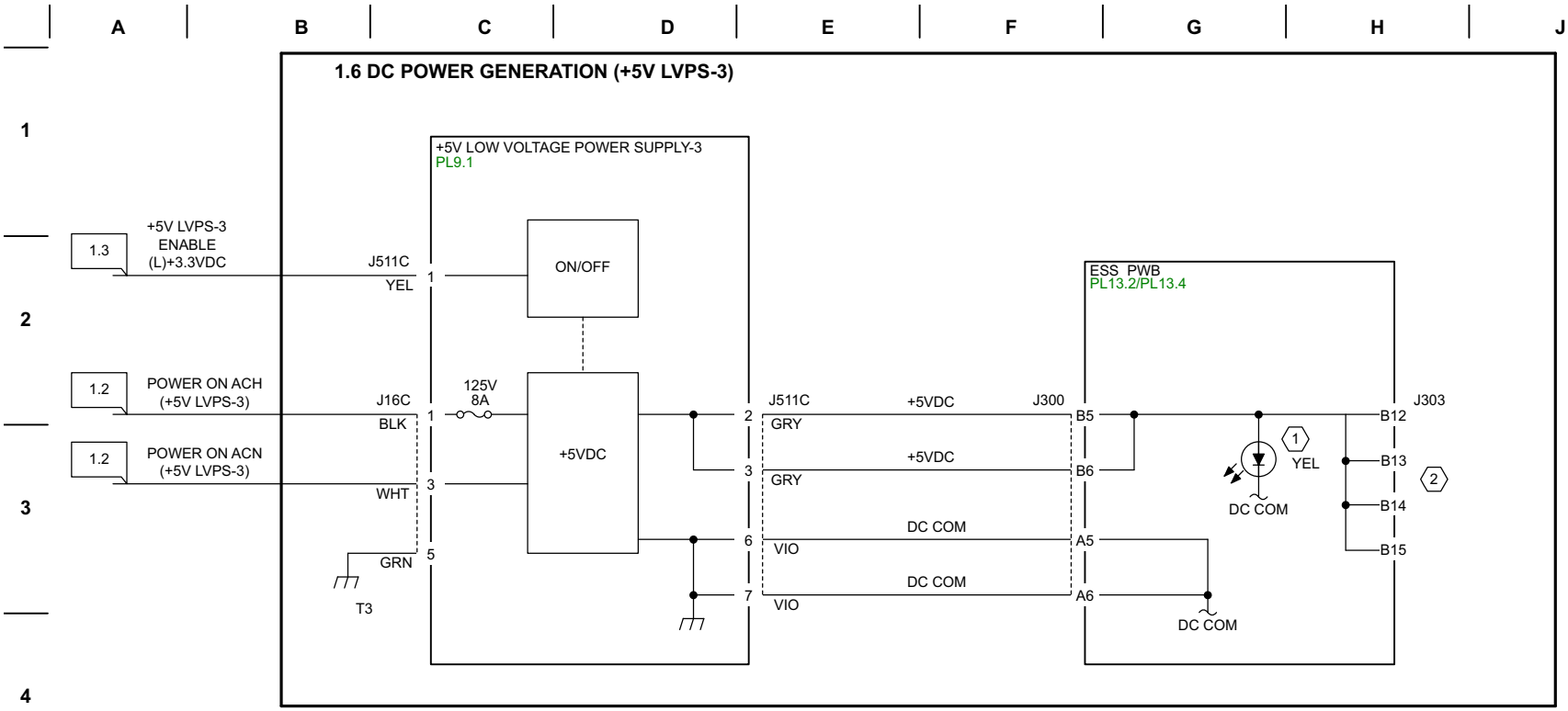


Figure 5 BSD 1.5 DC Power +5 VDC LVPS-2



NOTES:

1. WC 72XX = CR3607; WC73XX = CR4605
2. LVPS-3 SUPPLIES POWER ONLY TO ESS CUSTOMER OPTIONS:
   IMAGE COMP PWB
   USB PORT
   PARALLEL PORT
   CARD READER, ETC.

T701705-IMP

Figure 6 BSD 1.6 DC Power +5 VDC LVPS-3

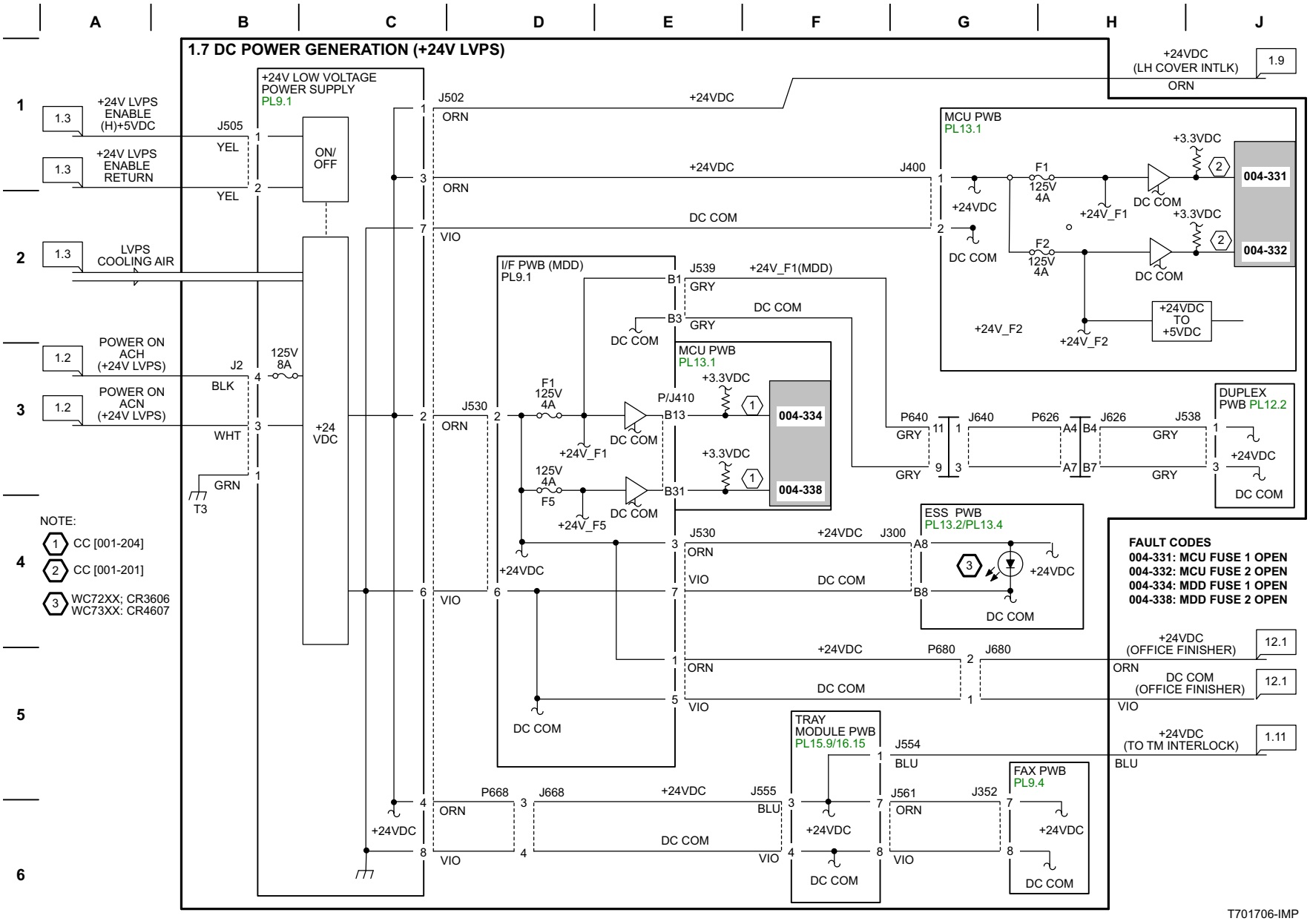
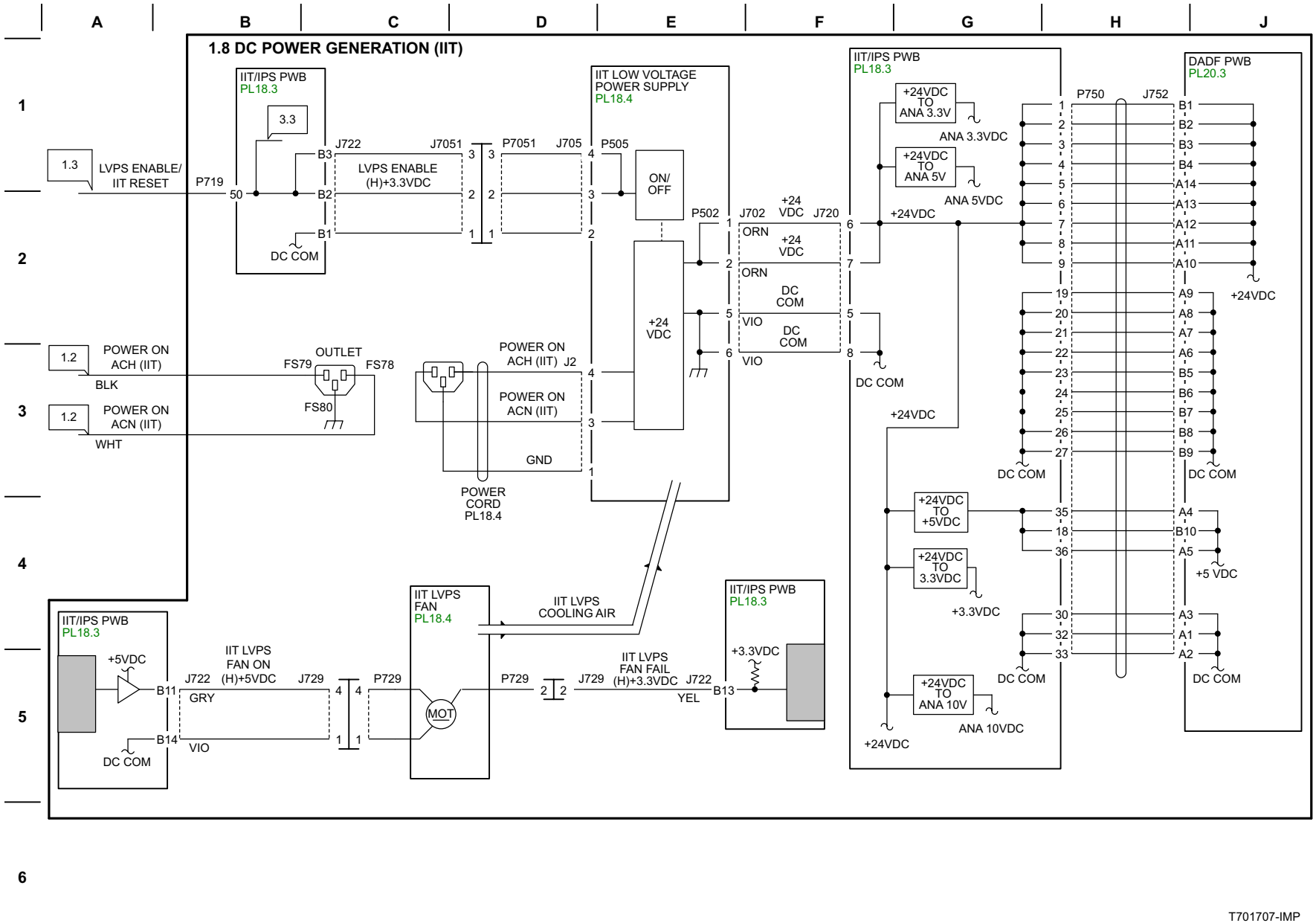


Figure 7 BSD 1.7 DC Power +24 VDC LVPS



T701707-IMP

Figure 8 BSD 1.8 DC Power IIT

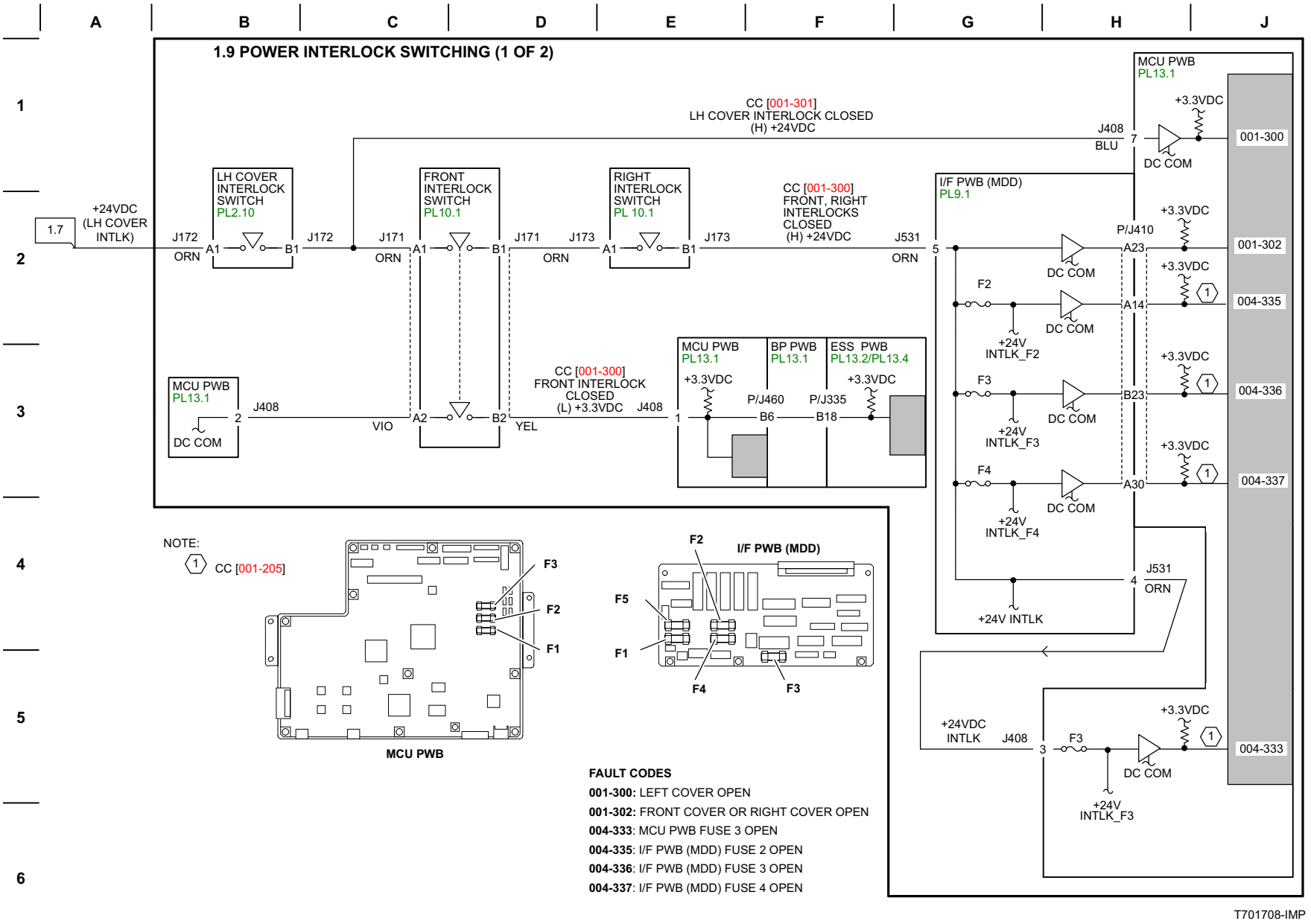


Figure 9 BSD 1.9 Interlocks (1 of 2)

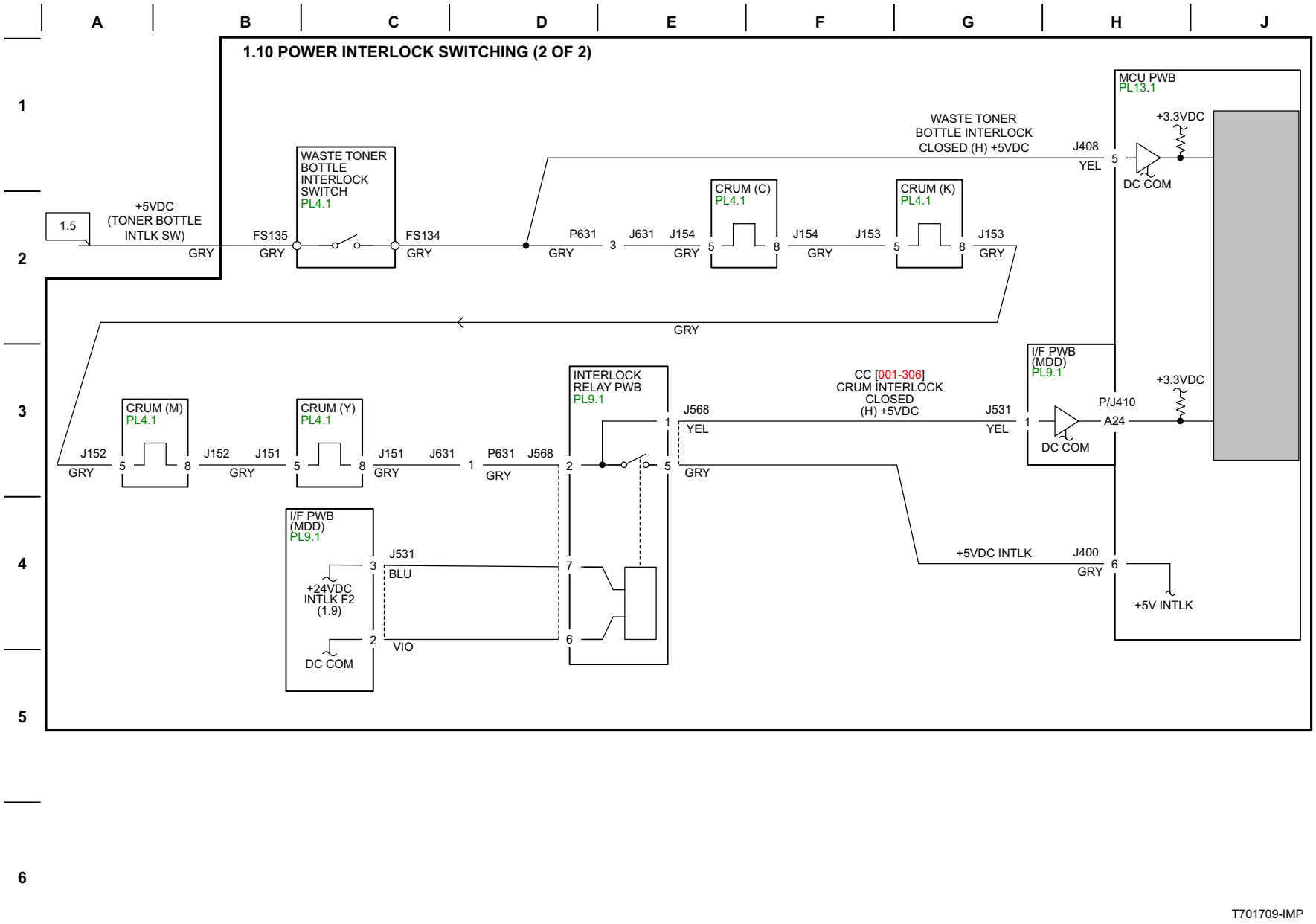


Figure 10 BSD 1.10 Interlocks (2 of 2)

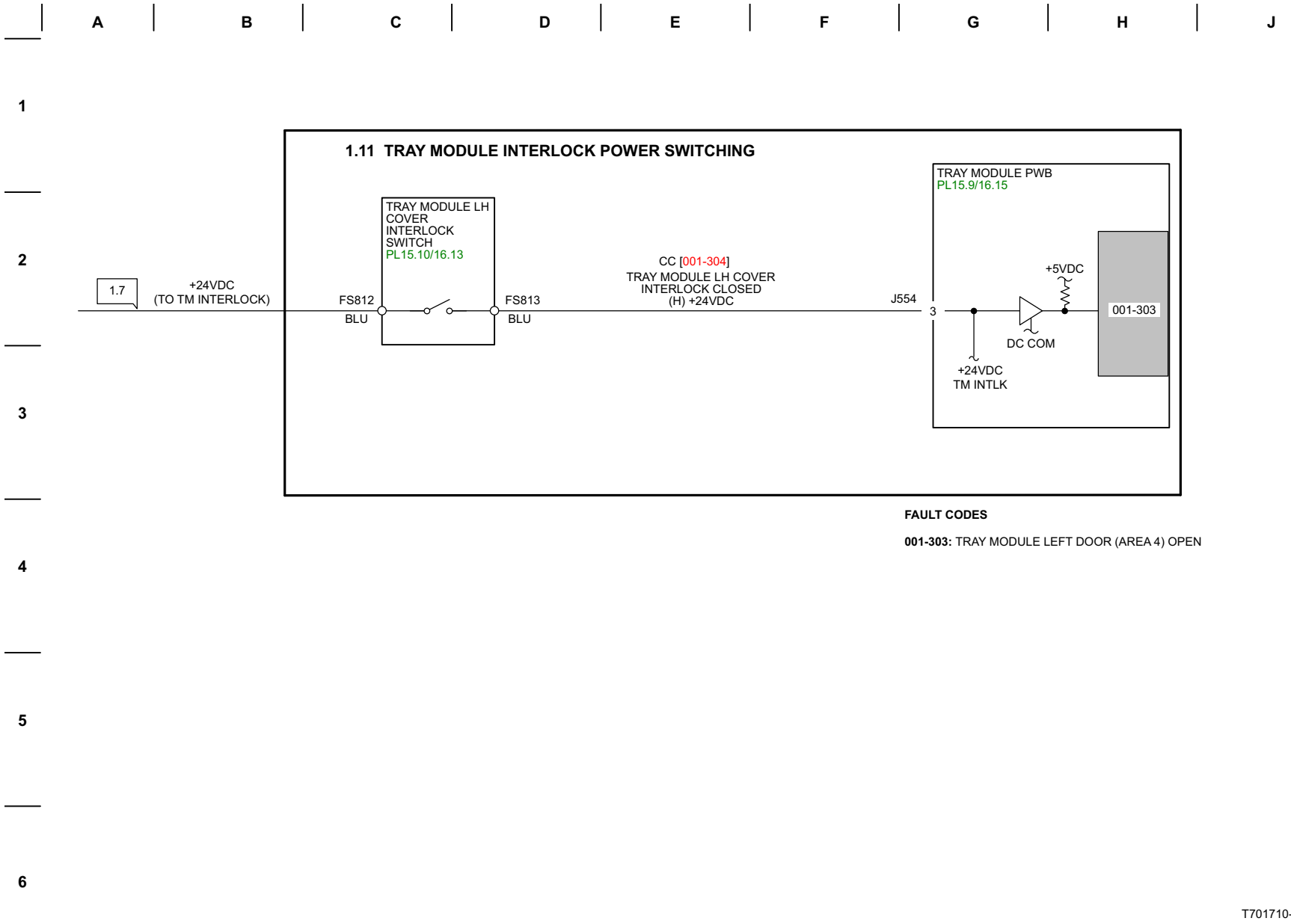
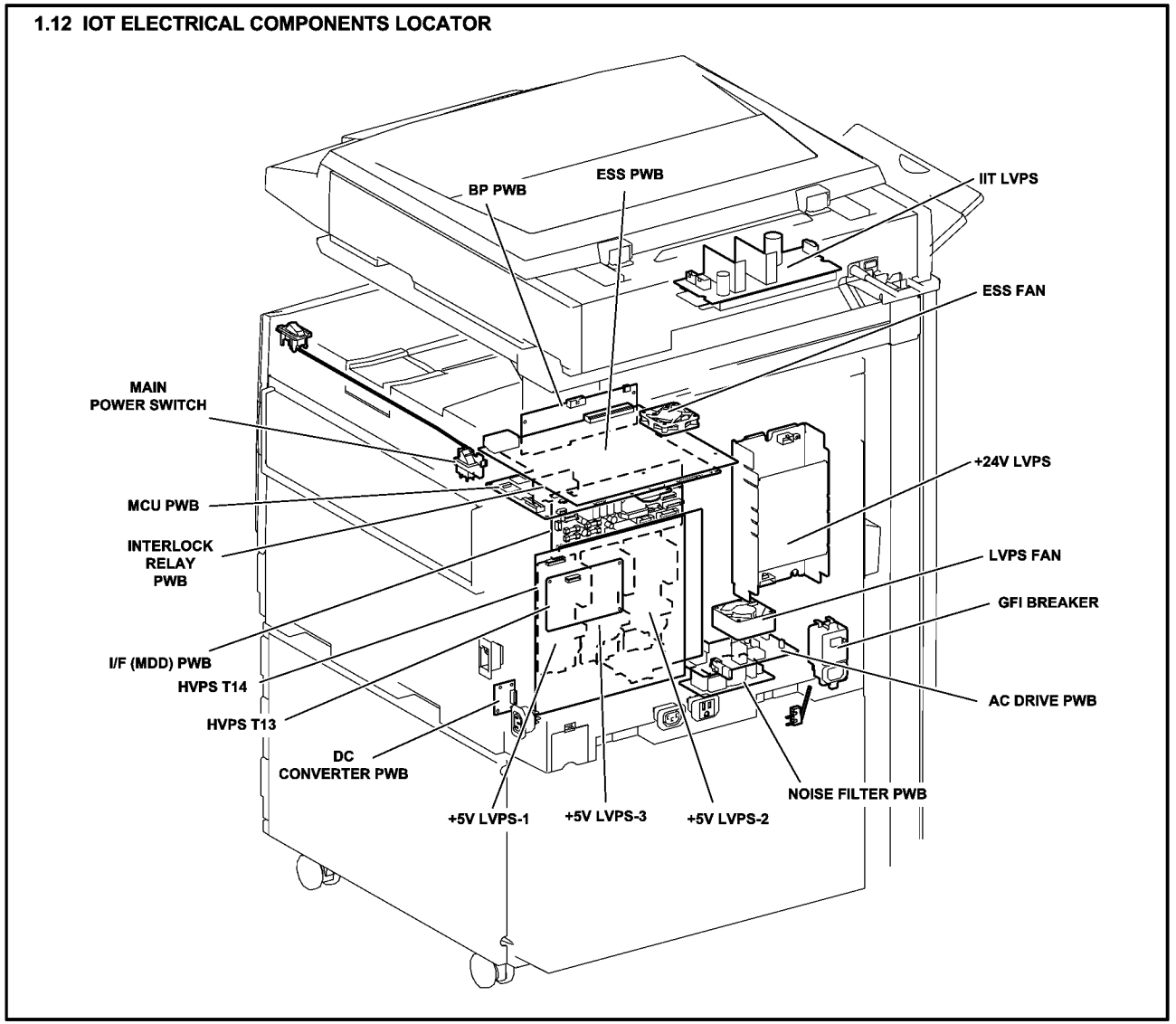


Figure 11 BSD 1.11 TTM, 3TM Tray Module Interlocks



T701711-IMP

Figure 12 BSD 1.12 IOT Electrical Components Locations

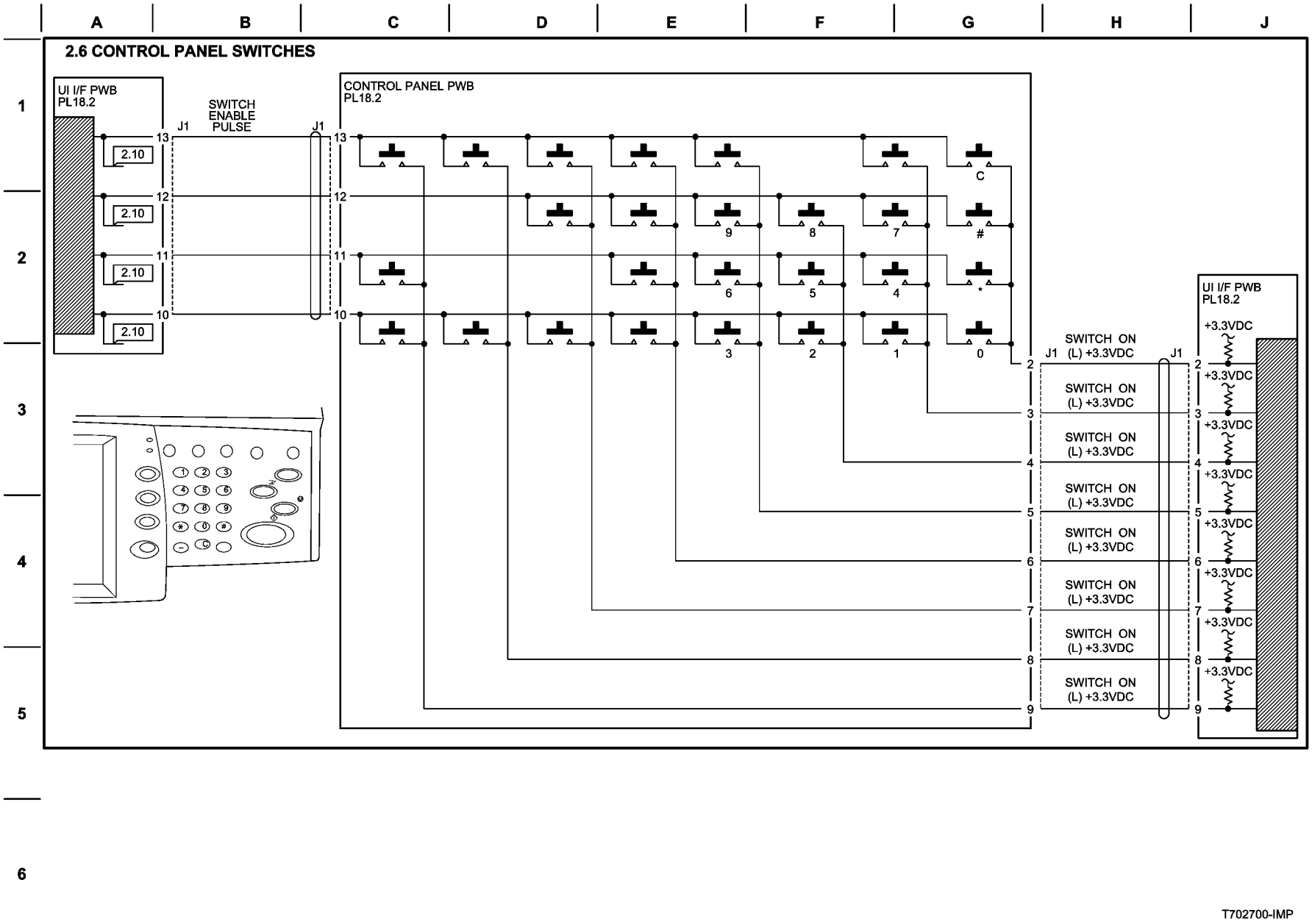


Figure 1 BSD 2.6 Control Panel Switches

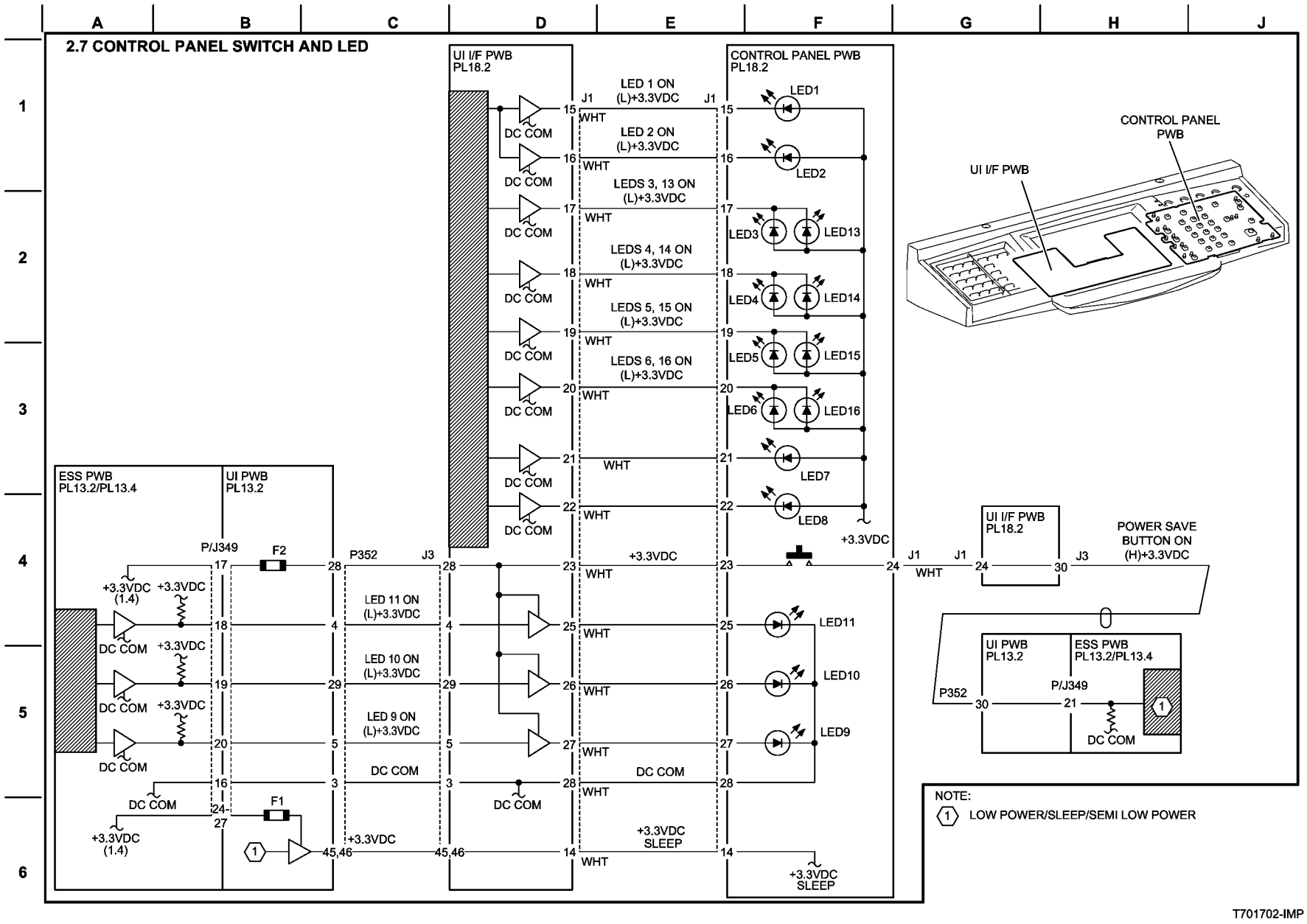


Figure 2 BSD 2.7 Control Panel Switch and LEDs

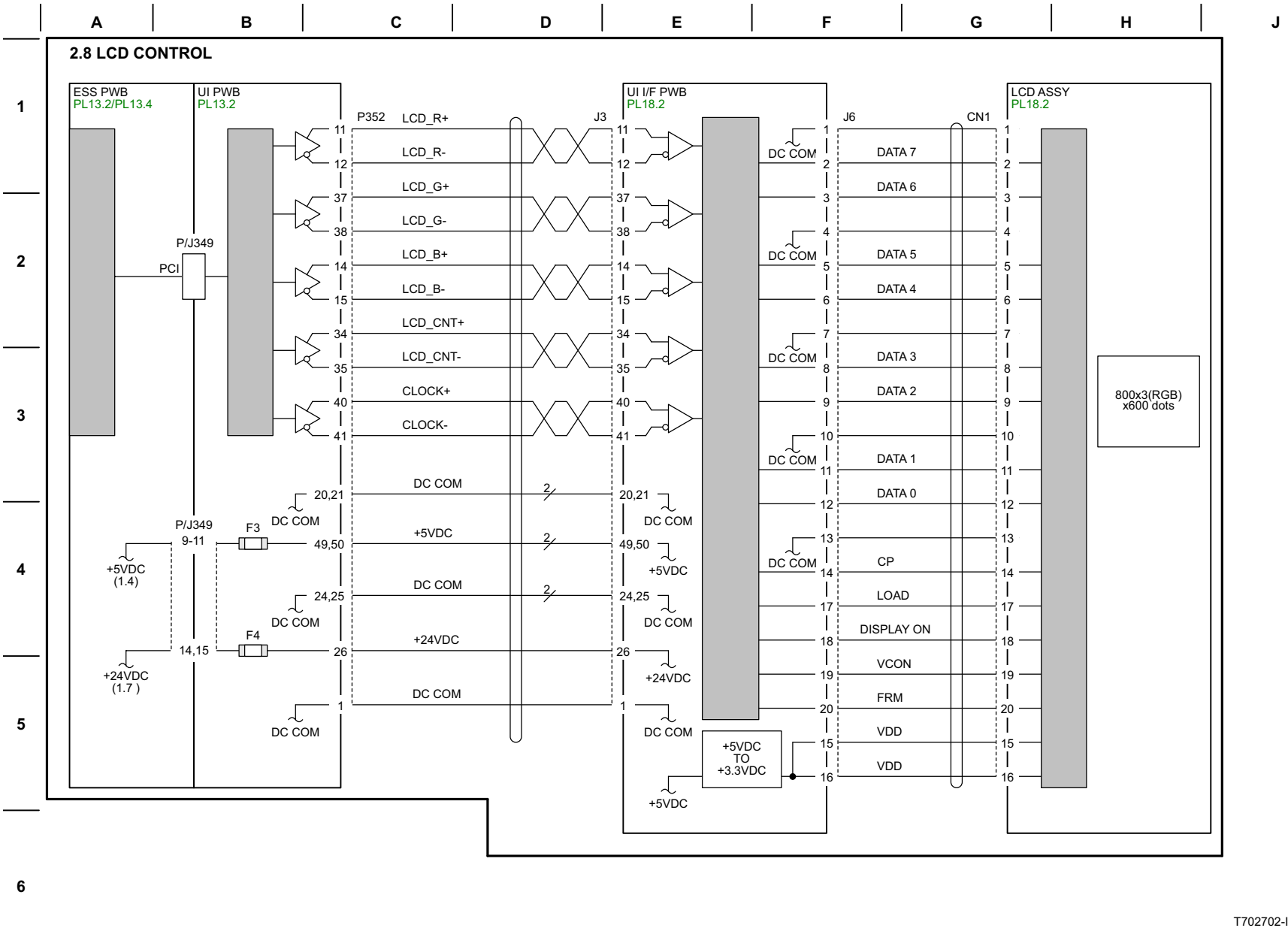


Figure 3 BSD 2.8 LCD Control

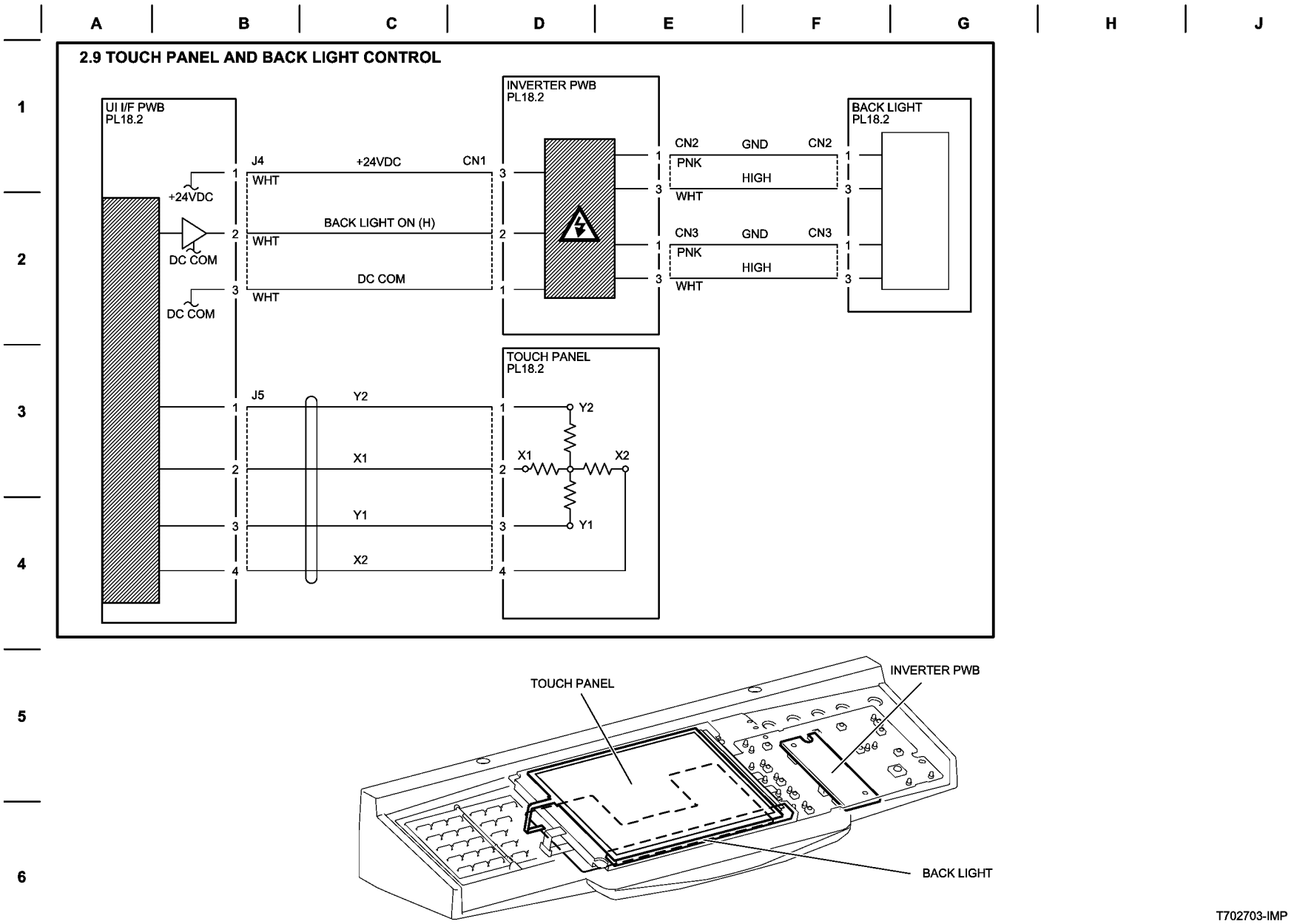
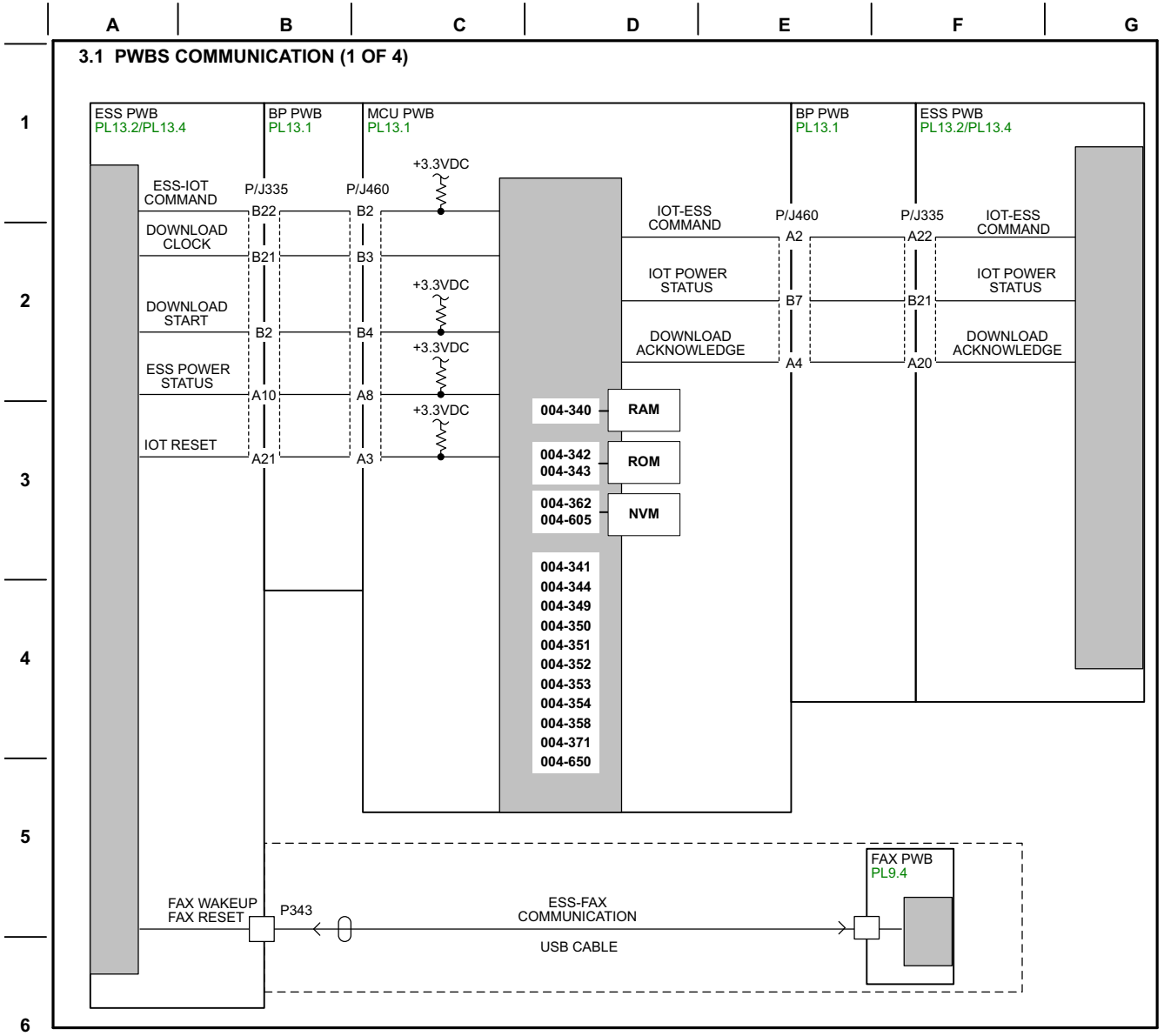


Figure 4 BSD 2.9 Touch Panel and Back Light



FAULT CODES

004-340: IOT RAM FAILURE
004-341: IOT LOGIC FAILURE
004-342: FLASH ROM LIMIT FAILURE
004-343: FLASH ROM R/W FAILURE
004-344: IOT MICRO-PITCH ERROR
004-349: MARKING SOFTWARE LOGIC
004-350: IOT VIDEO FAULT
004-351: IOT XEROGRAPHIC FAULT
004-352: IOT COMMUNICATIONS FAULT
004-353: IOT PAPER HANDLING FAULT
004-354: IOT COMMUNICATIONS FAULT
004-358: IOT COMMUNICATIONS FAULT
004-362: IOT NVM R/W FAULT
004-371: IOT CONTROLLER TIMING FAULT
004-605: IOT NVM CORRUPT
004-650: IOT CYCLE DOWN TIMEOUT

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Figure 1 BSD 3.1 PWB Communication (1 of 4)

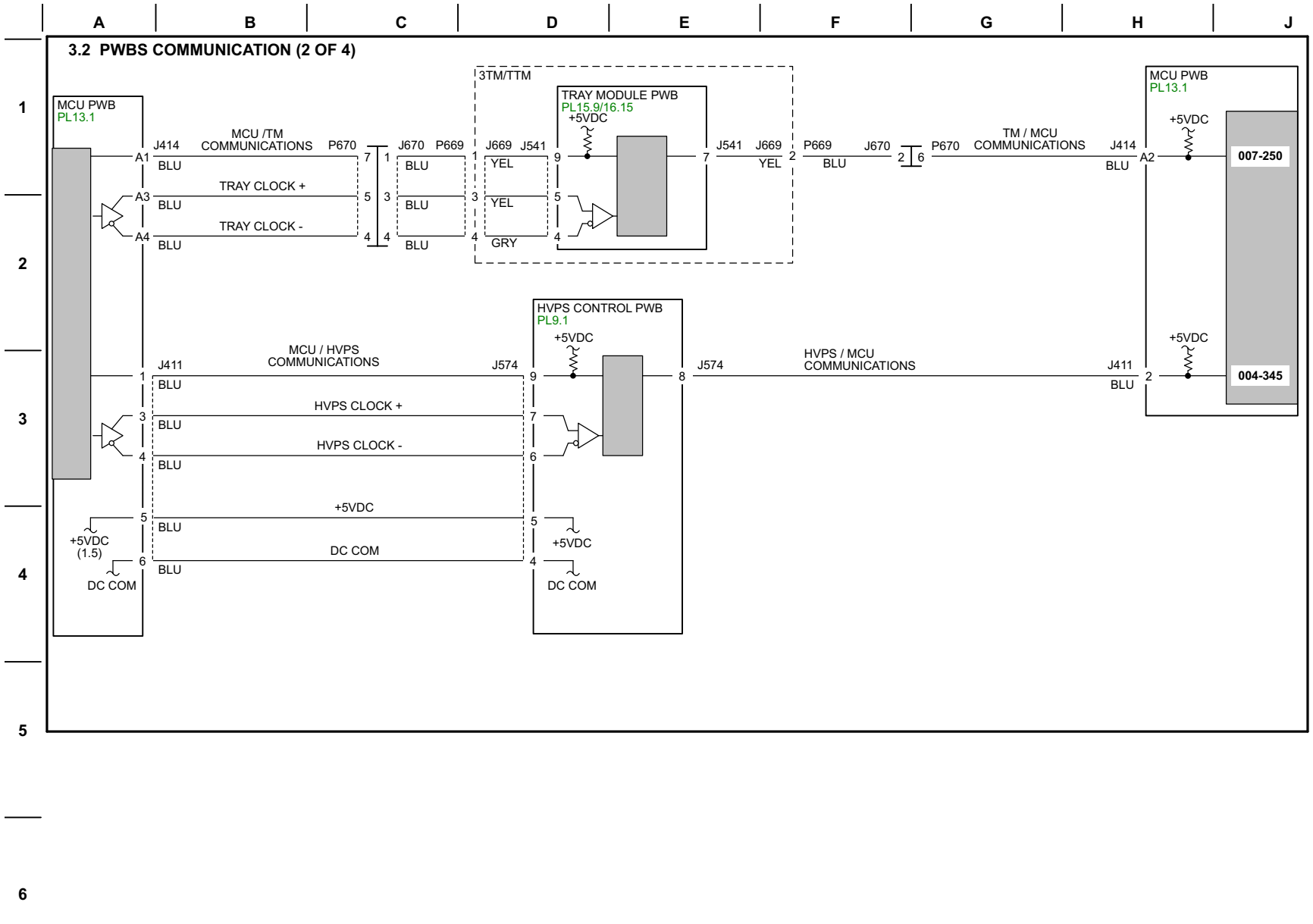


Figure 2 BSD 3.2 PWB Communication (2 of 4)

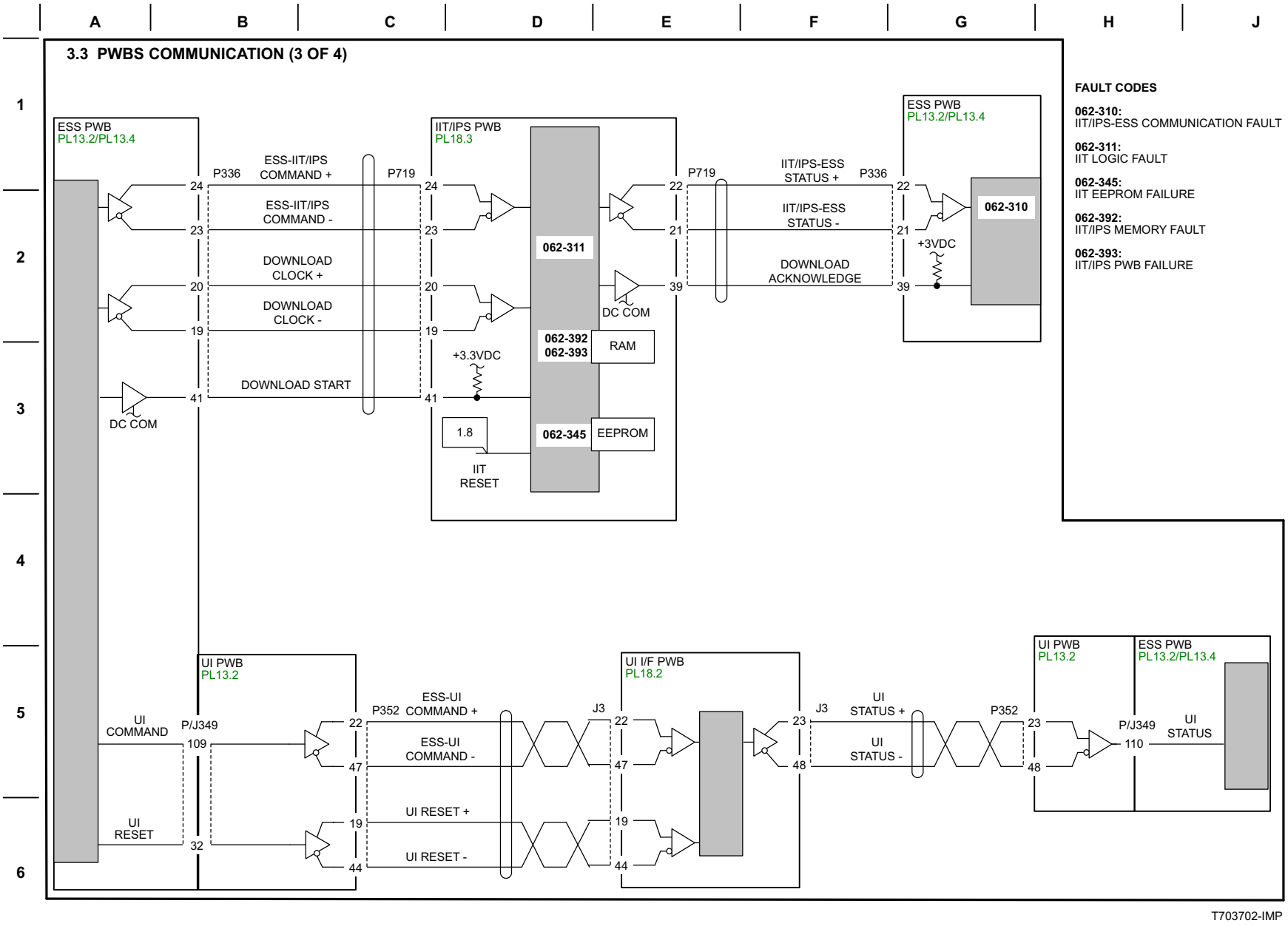


Figure 3 BSD 3.3 PWB Communication (3 of 4)

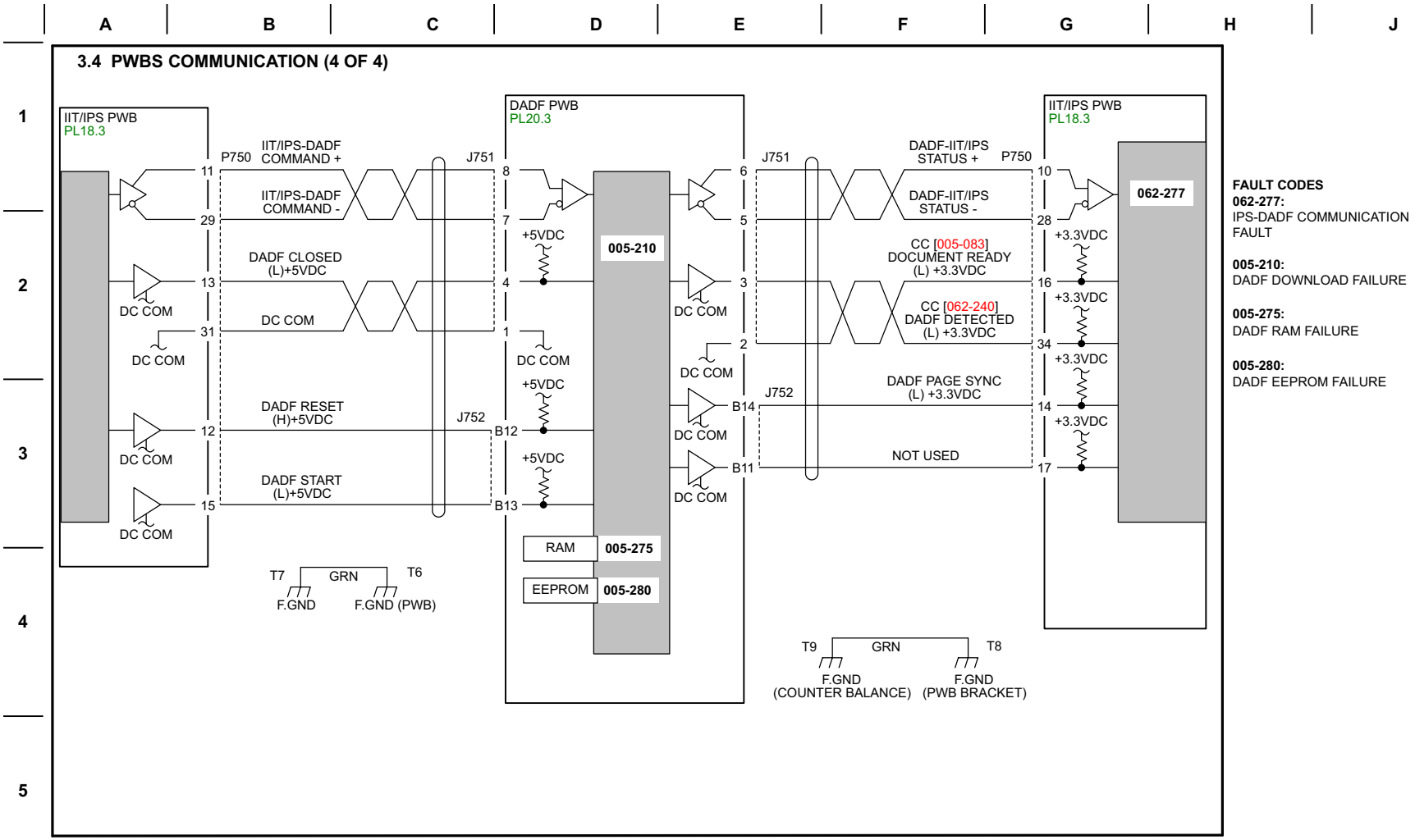
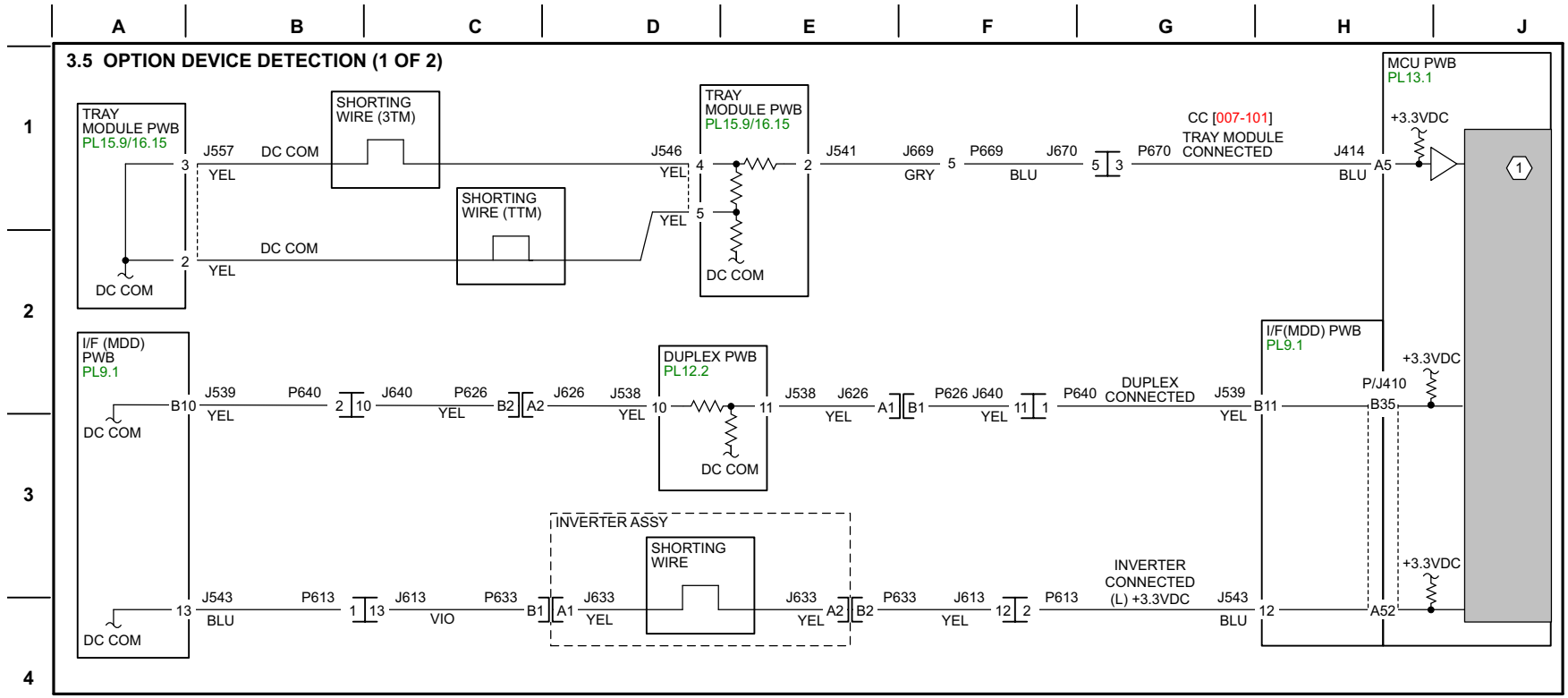


Figure 4 BSD 3.4 PWB Communication (4 of 4)



TTM	3TM	VOLTAGE	A/D VALUE
		3.23	982
	■	1.44	381
■		1.01	251

T703704-IMP

Figure 5 BSD 3.5 Optional Device Detection (1 of 2)

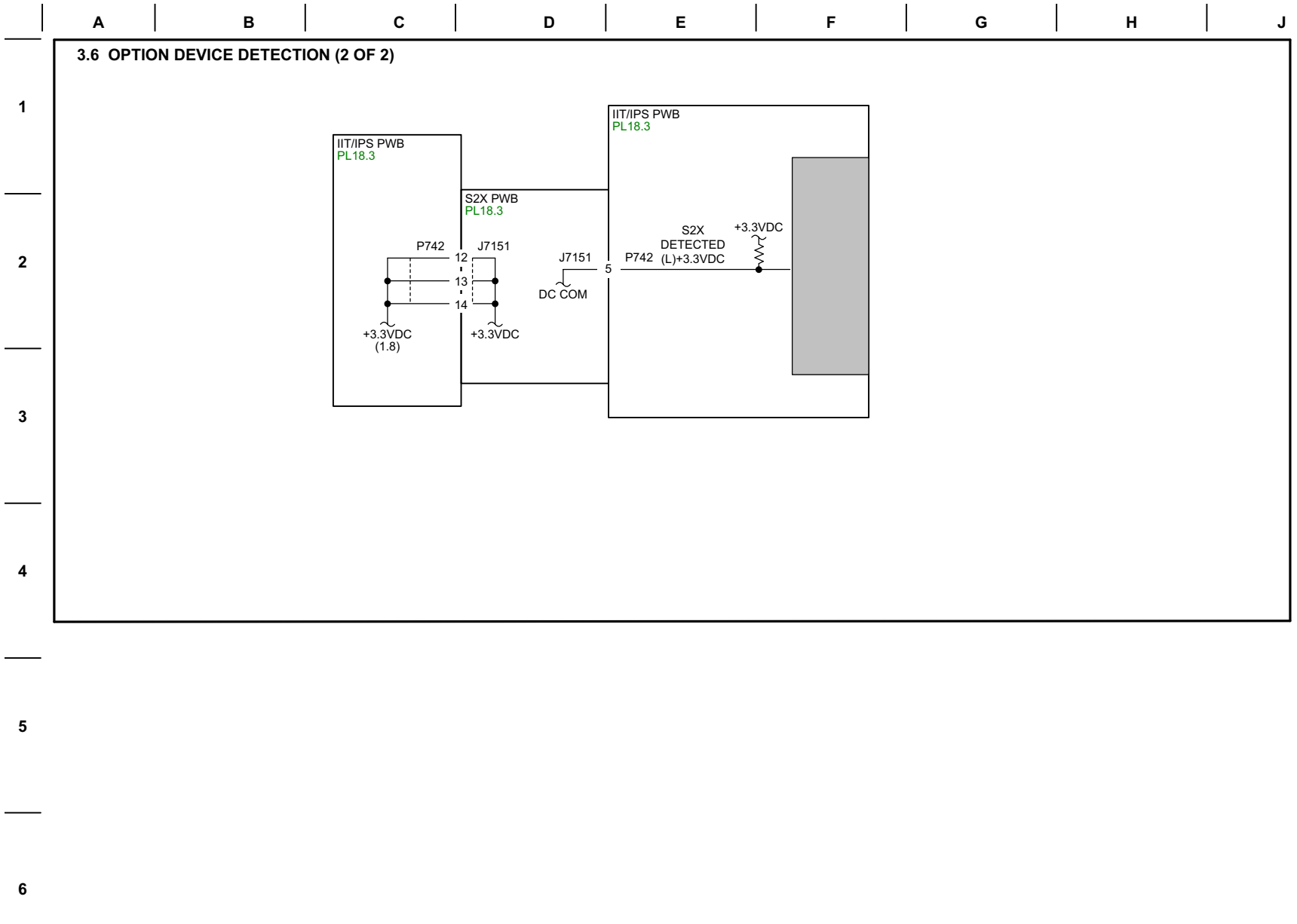


Figure 6 BSD 3.6 Optional Device Detection (2 of 2)

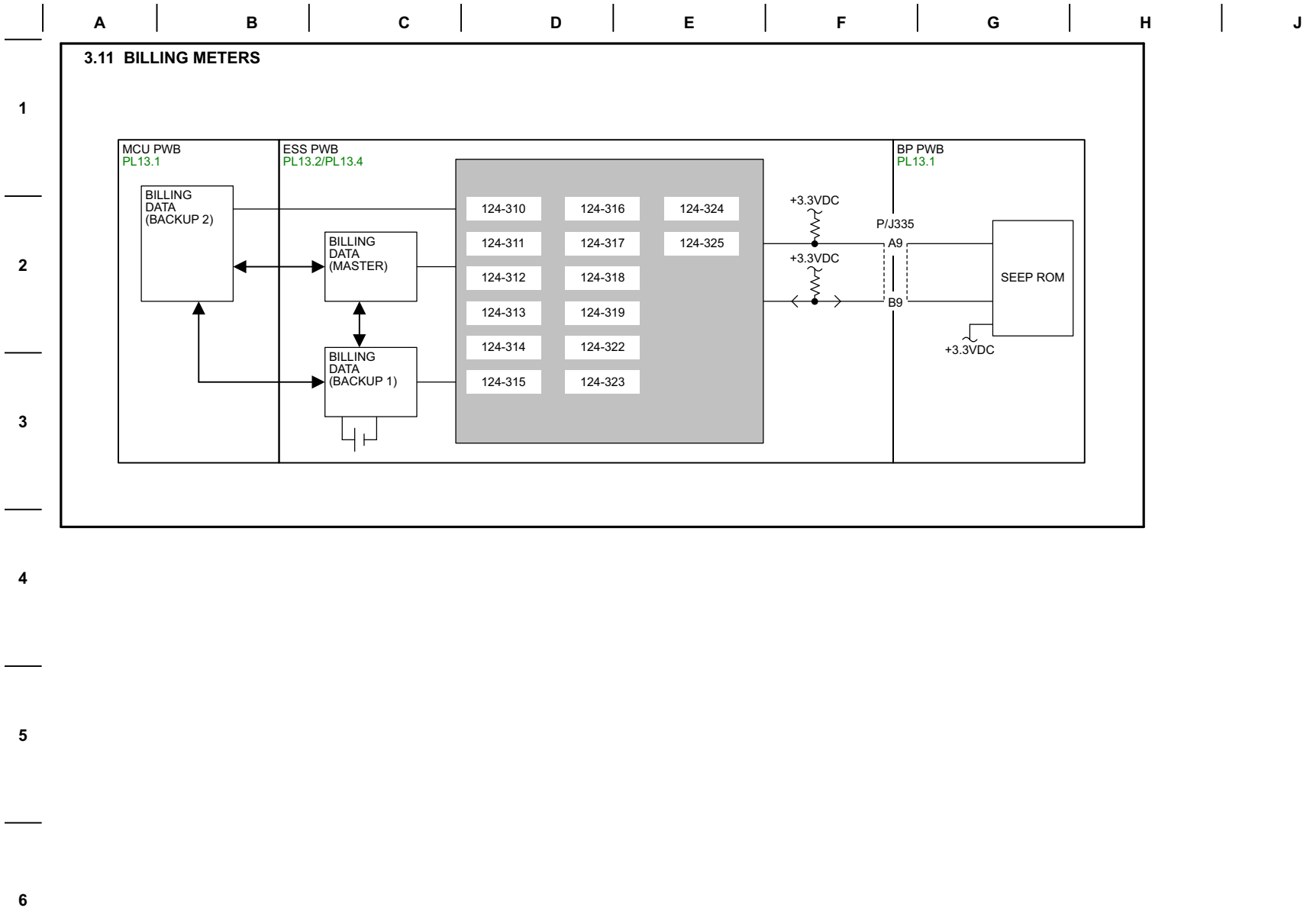
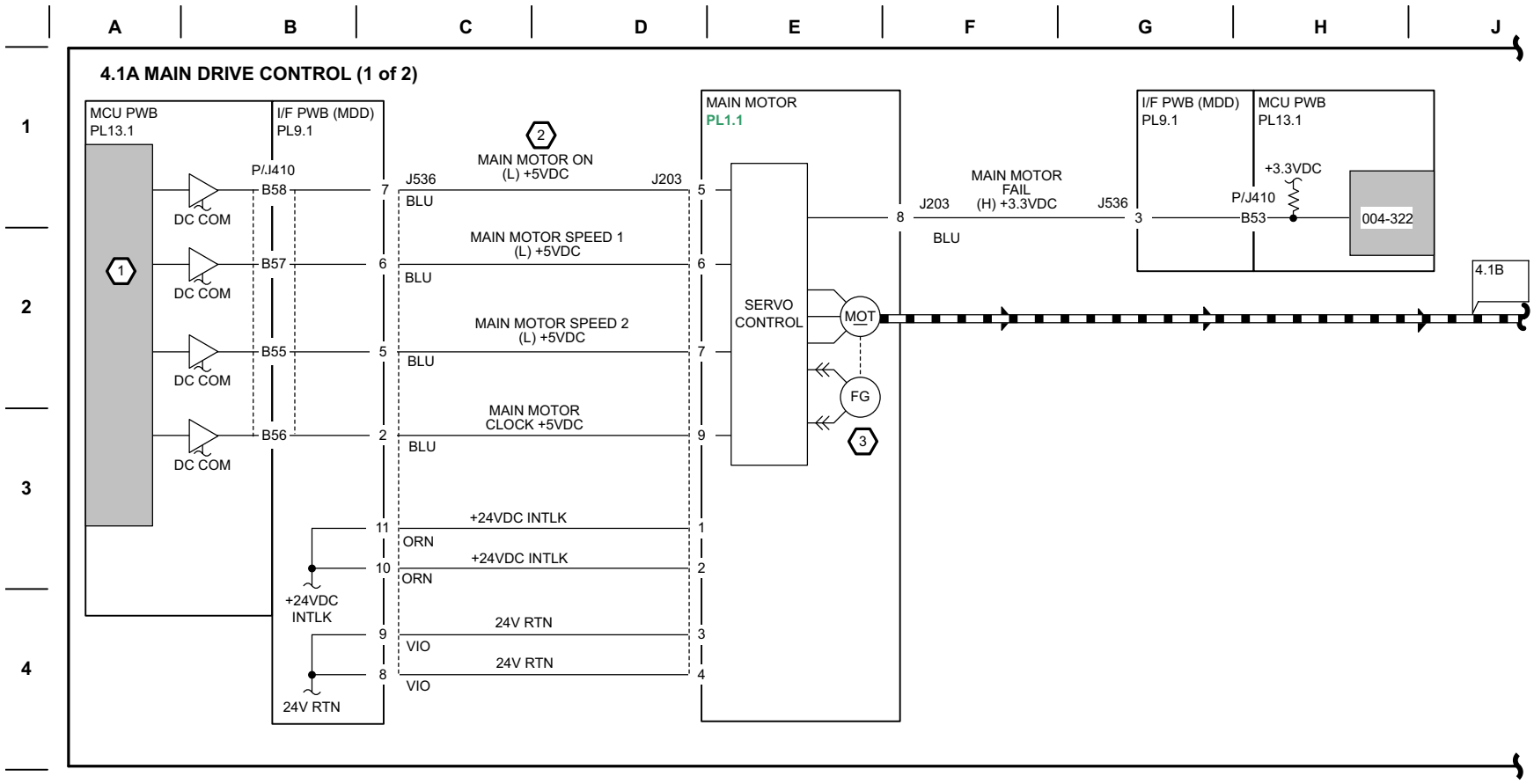


Figure 7 BSD 3.7 Electronic Billing



NOTES:

1. DRIVES AT HIGH SPEED FOR STANDARD PAPER AND AT HALF SPEED FOR TRANSPARENCIES.
2. MAIN MOTOR: NORMAL SPEED = CC [004-004]
   HALF SPEED = CC [004-007]
   DOUBLE SPEED = CC [004-008]
3. THE MAIN MOTOR ROTATION SPEED IS CONTROLLED WITH THE INTERNAL CLOCK.

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Figure 1 BSD 4.1A Main Drive (1 of 2)

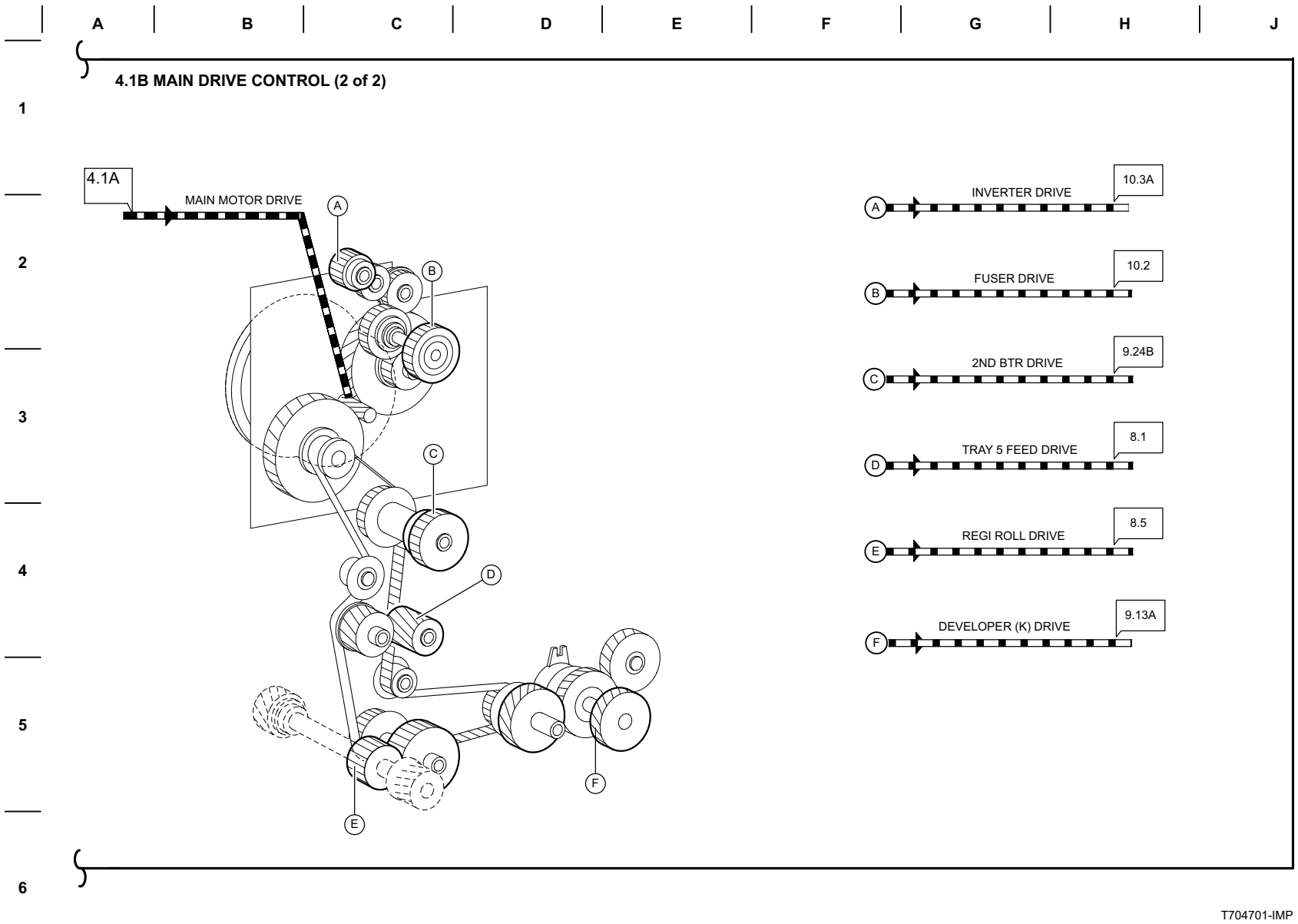
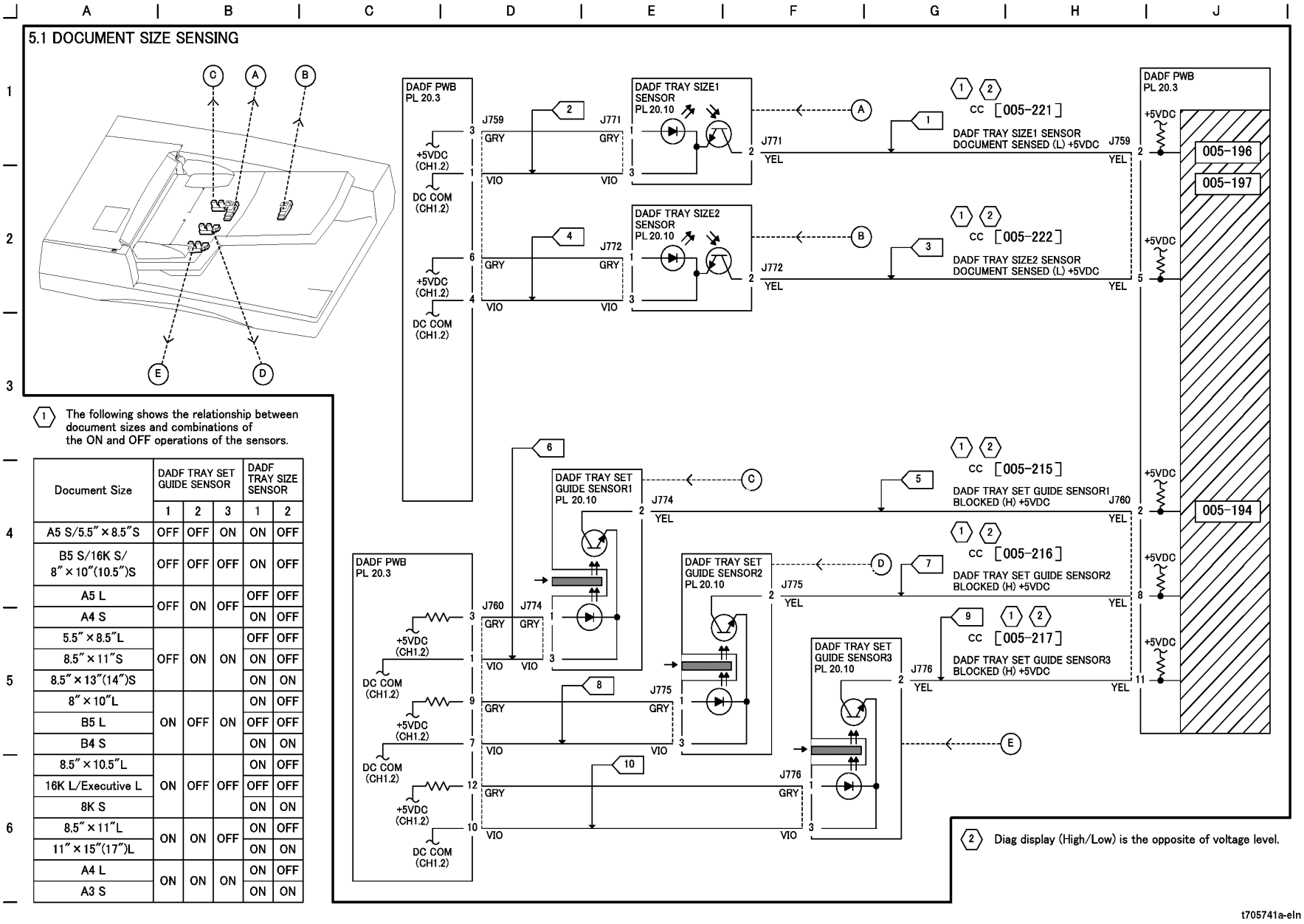


Figure 2 BSD 4.1B Main Drive (2 of 2)



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 BSD 5.1 Document Size Sensing

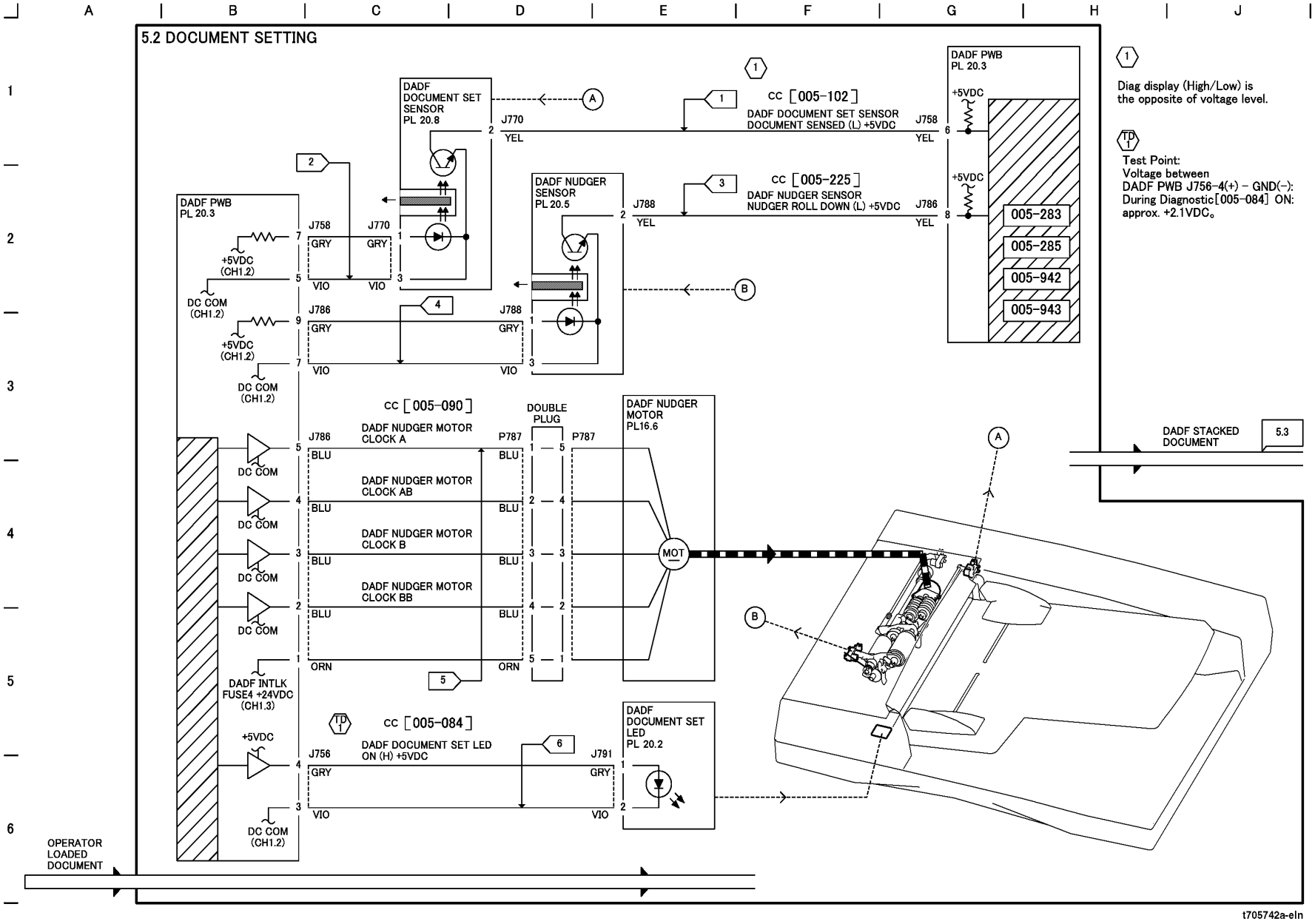


Figure 2 BSD 5.2 Document Setting

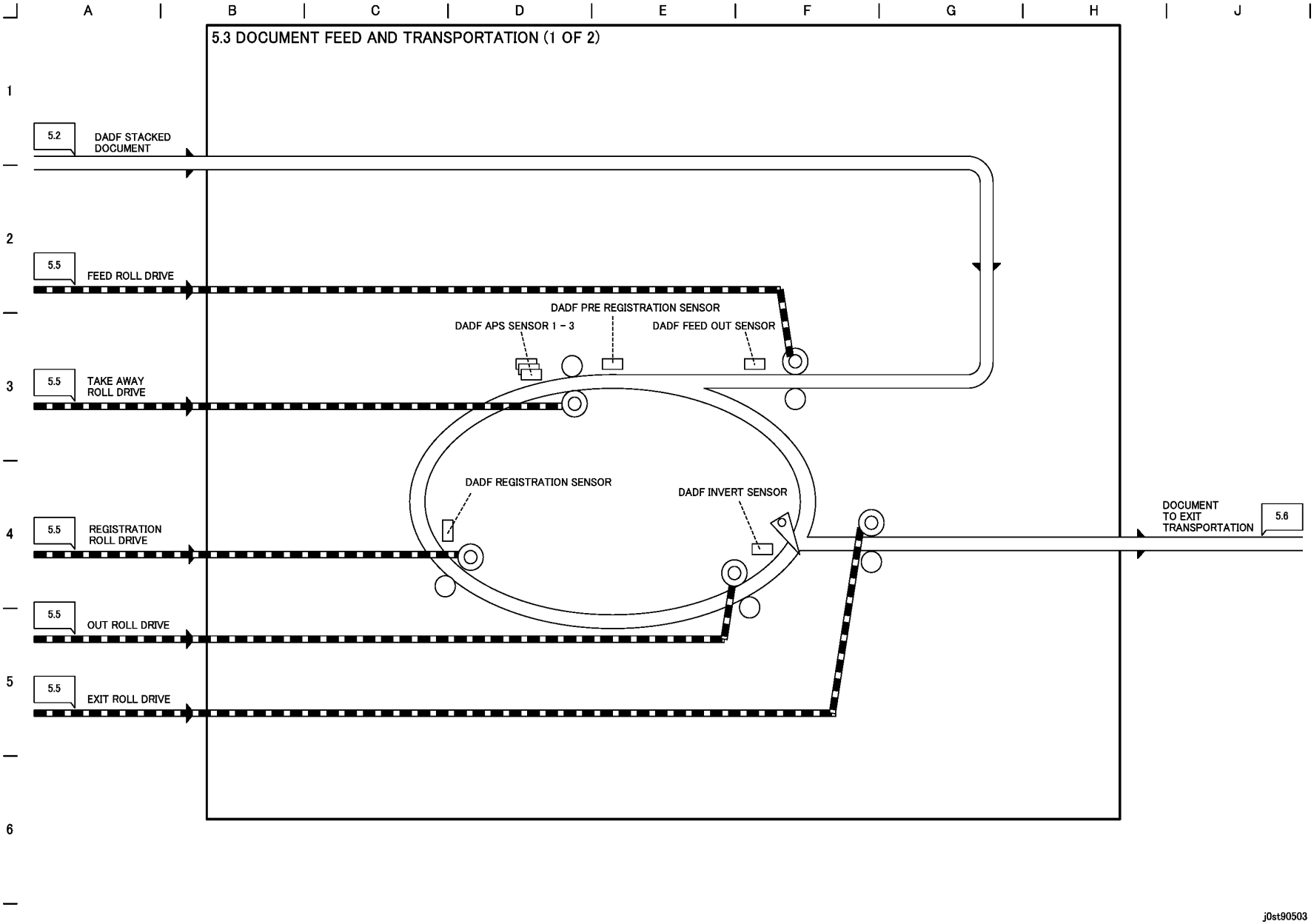


Figure 3 BSD 5.3 Document Feed and Transportation (1 of 2)

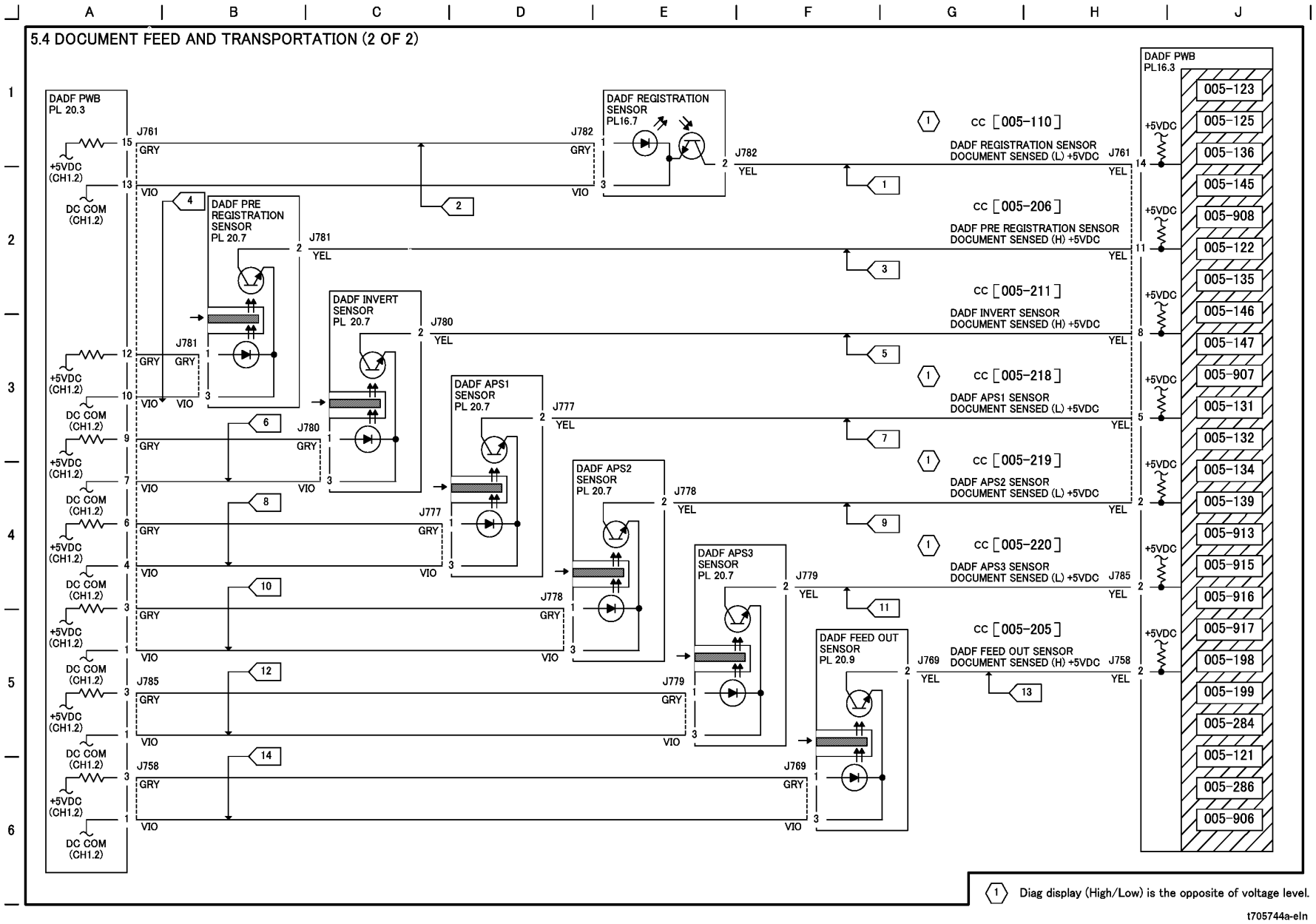


Figure 4 BSD 5.4 Document Feed and Transportation (2 of 2)

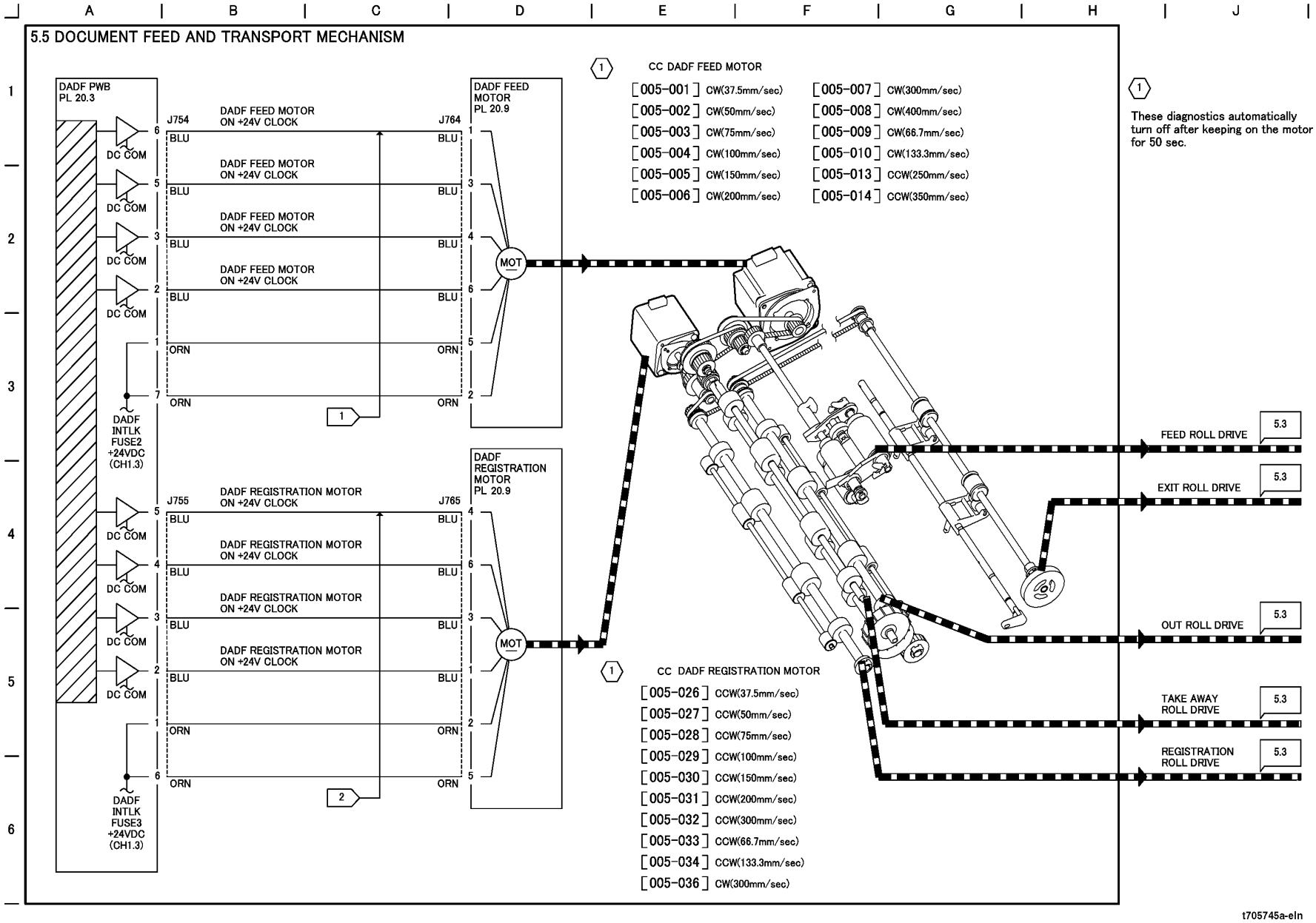


Figure 5 BSD 5.5 Document Feed and Transport Mechanism

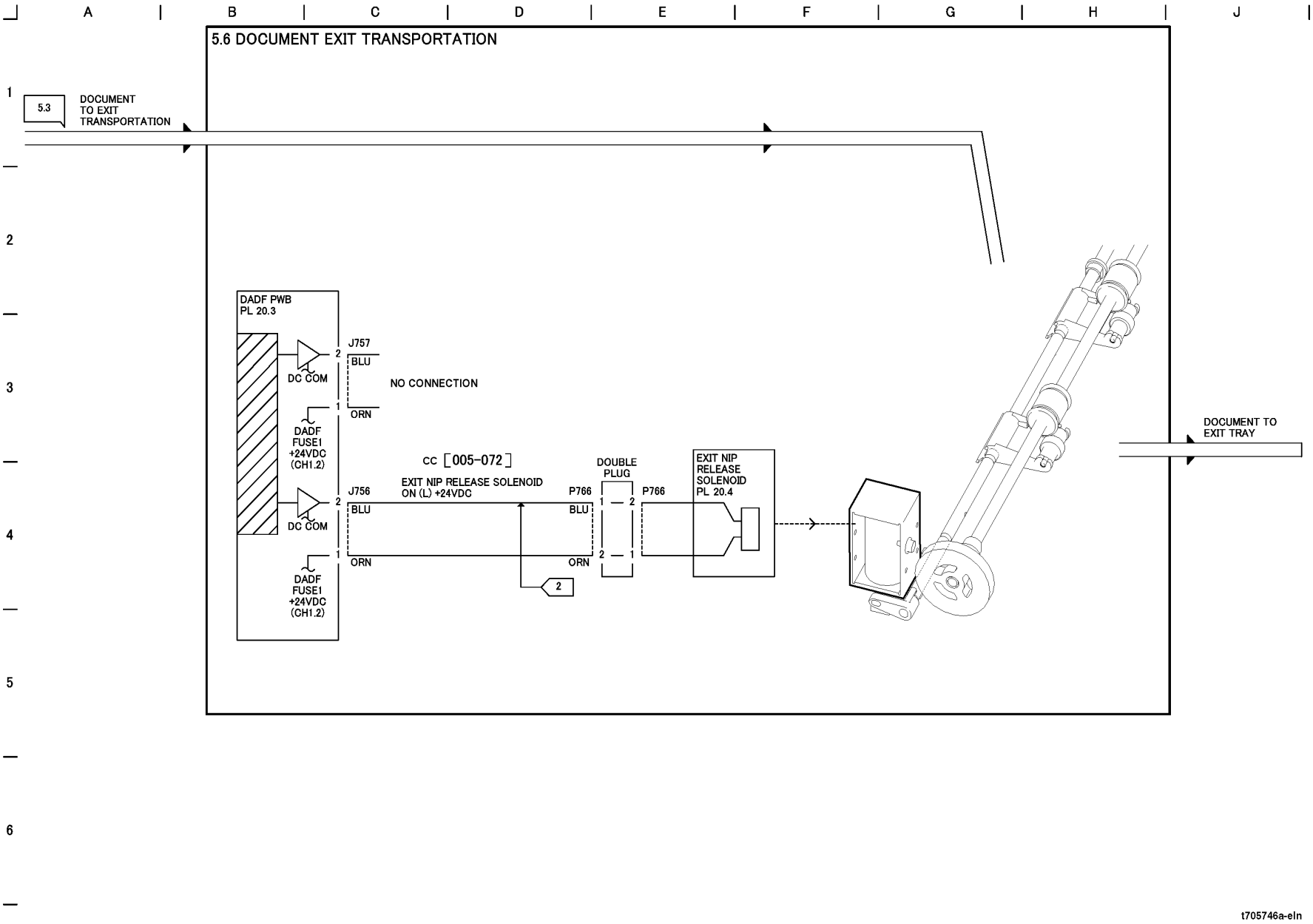
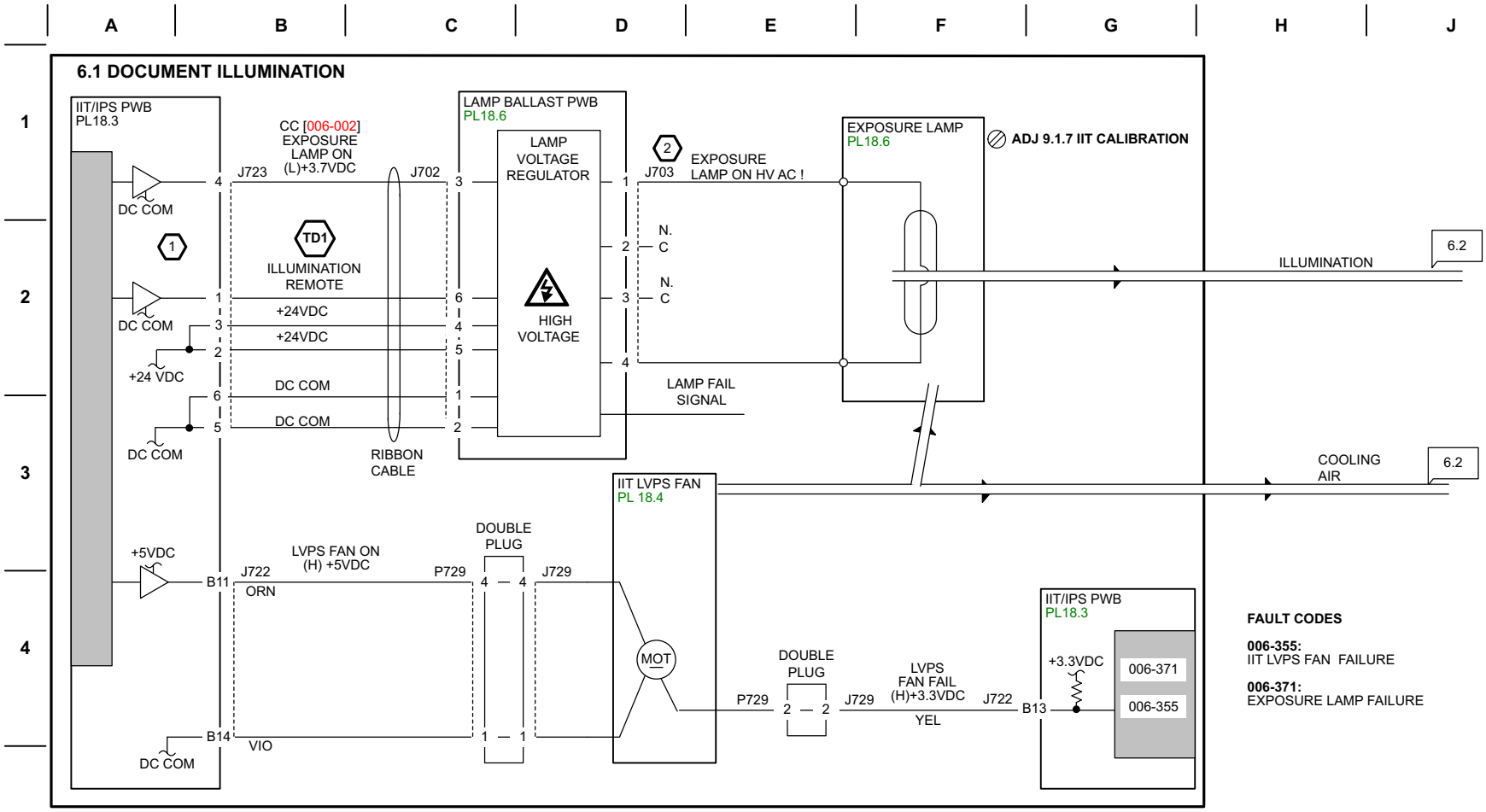


Figure 6 BSD 5.6 Document Exit Transportation



Exposure Lamp ON/OFF Timing

NOTES:

(1) **1.ON timing**
a. When performing AGC/AOC/Shading Correction (in initialization)
b.15 min after POWER ON.
c. When a document is sensed (by Platen Angle Sensor).
d. At the start of scanning a doc. (synch with the transfer of Carriage from the size detection position)
e. When performing White Variation Correction before starting to scan a doc.
f. 30 or more min before the next scan in the same job.
g. At the end of a job 2 hours after power on, and afterwards, at the end of jobs at 2-hour intervals.

2. 2. OFF timing
a. At the end of AGC/AOC/Shading Correction (in initialization)
b. At the end of sensing a doc.
c. At the end of scanning a doc.

(2) Don't use tester for the measurement of high voltage.

TD1 Test Point of IIT/IPS PWB J723-1 (+) and GND (-), with DC330 [06-002] on, approx. +7.8VDC.

Figure 1 BSD 6.1 Document Illumination

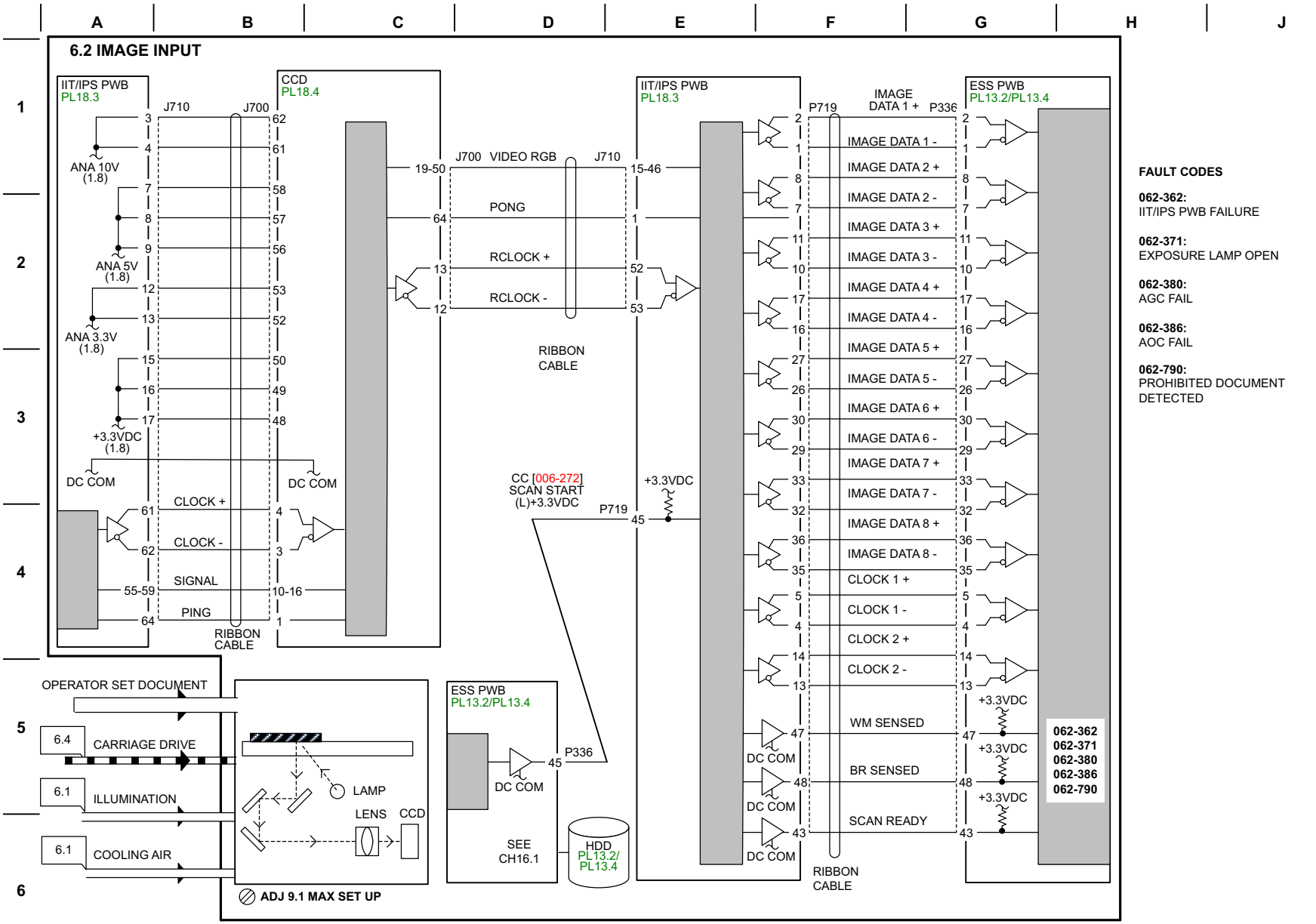


Figure 2 BSD 6.2 Image Input

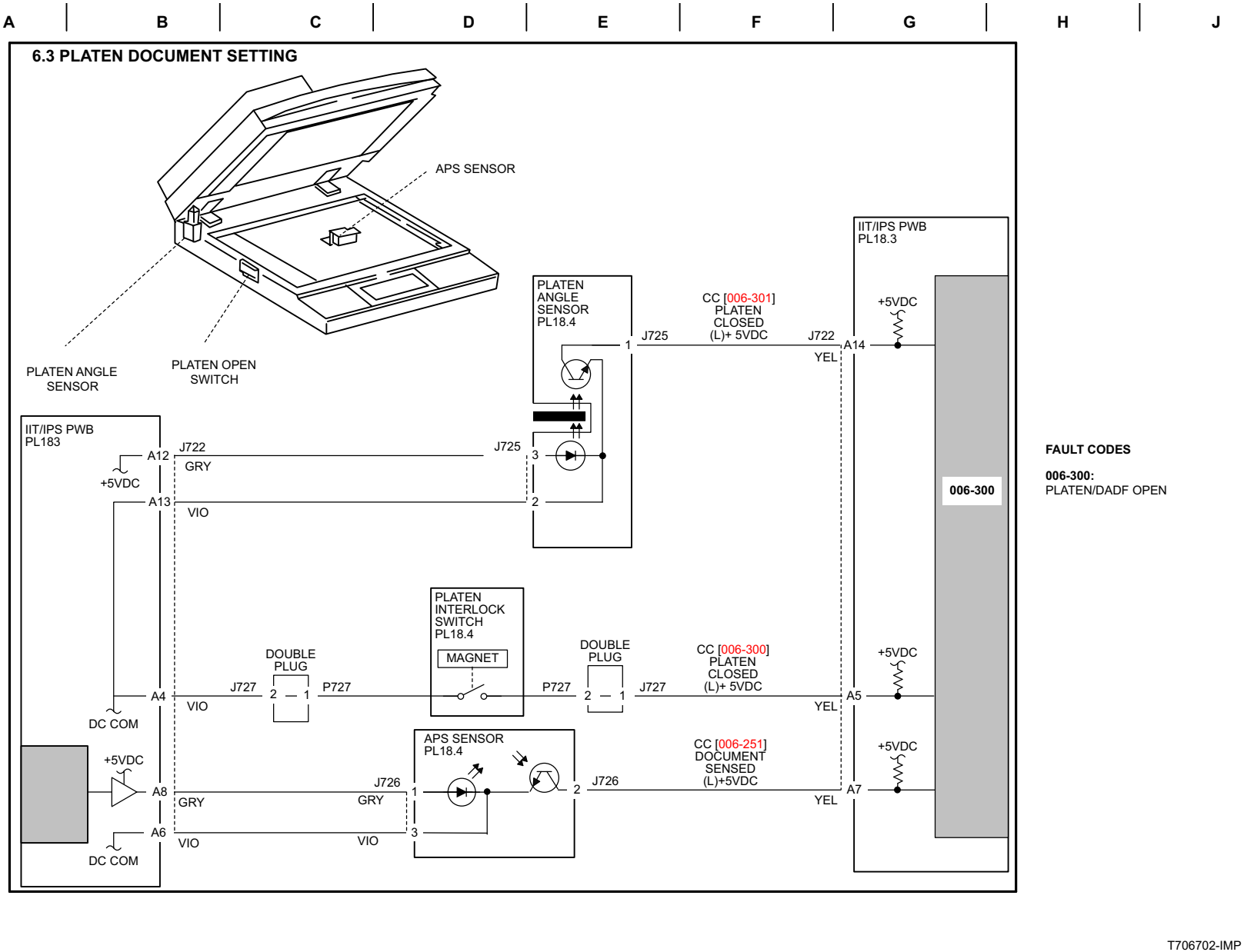


Figure 3 BSD 6.3 Platen Document Setting

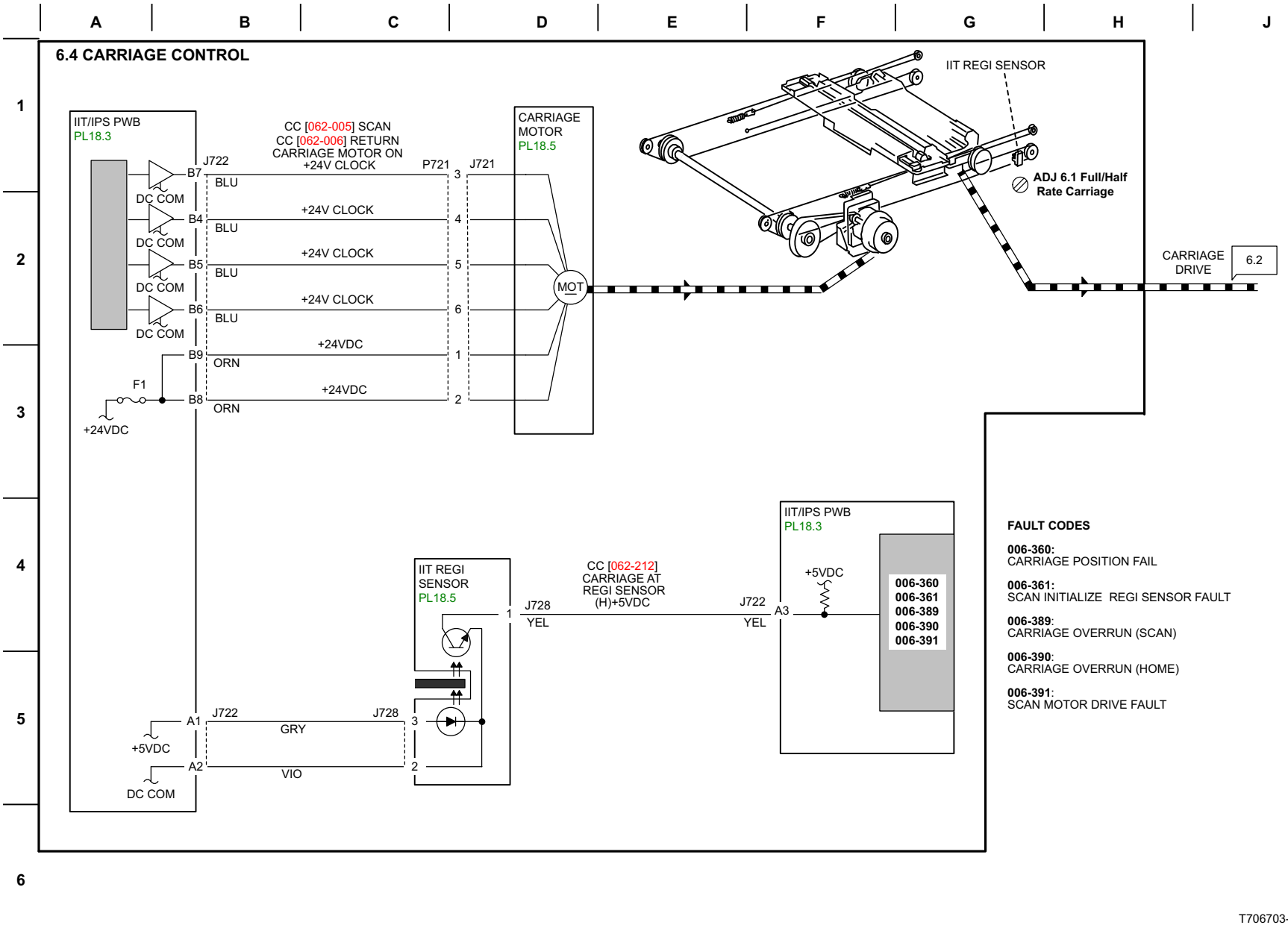


Figure 4 BSD 6.4 Carriage Control

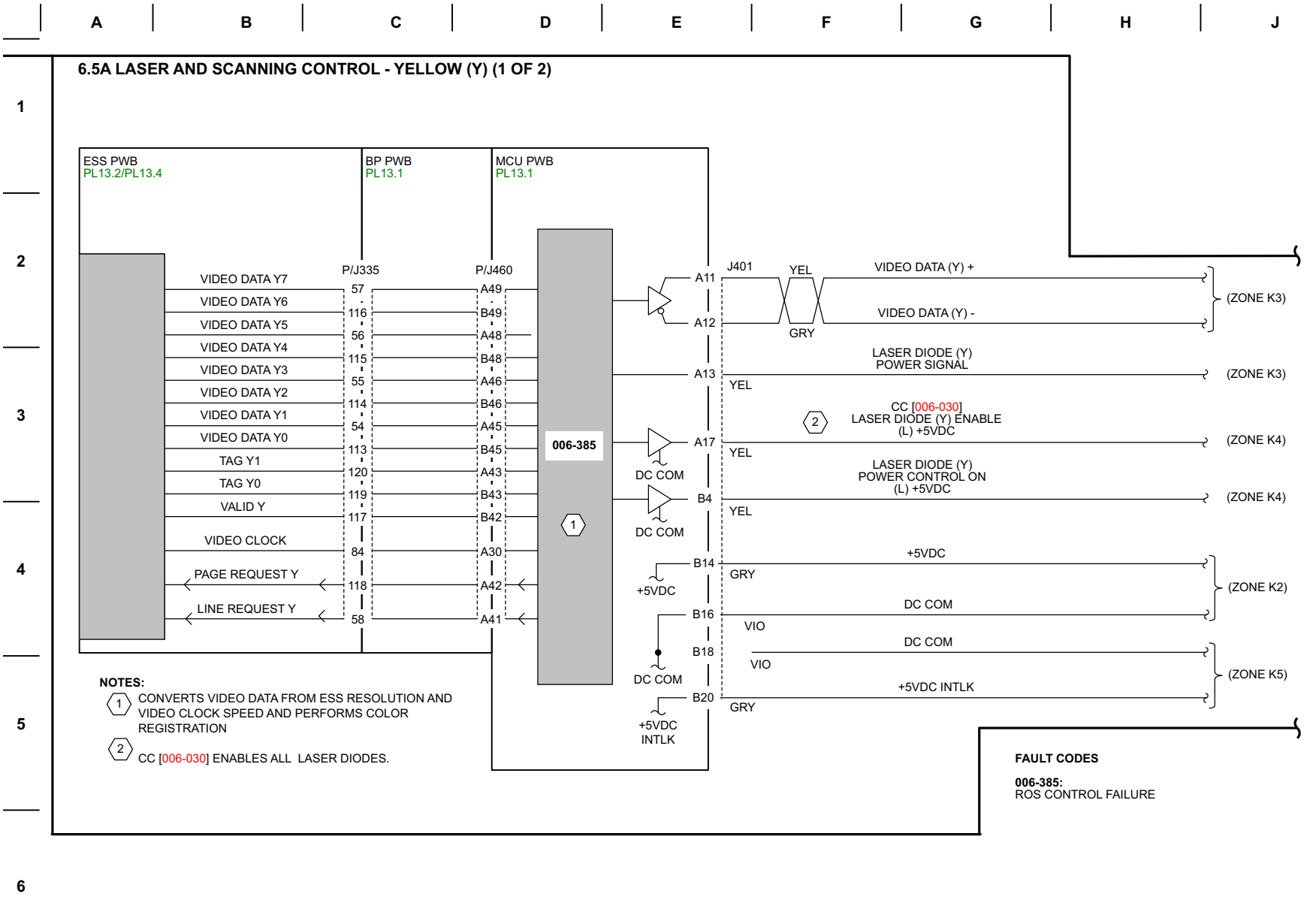


Figure 5 BSD 6.5A Laser and Scanning Yellow (1 of 2)

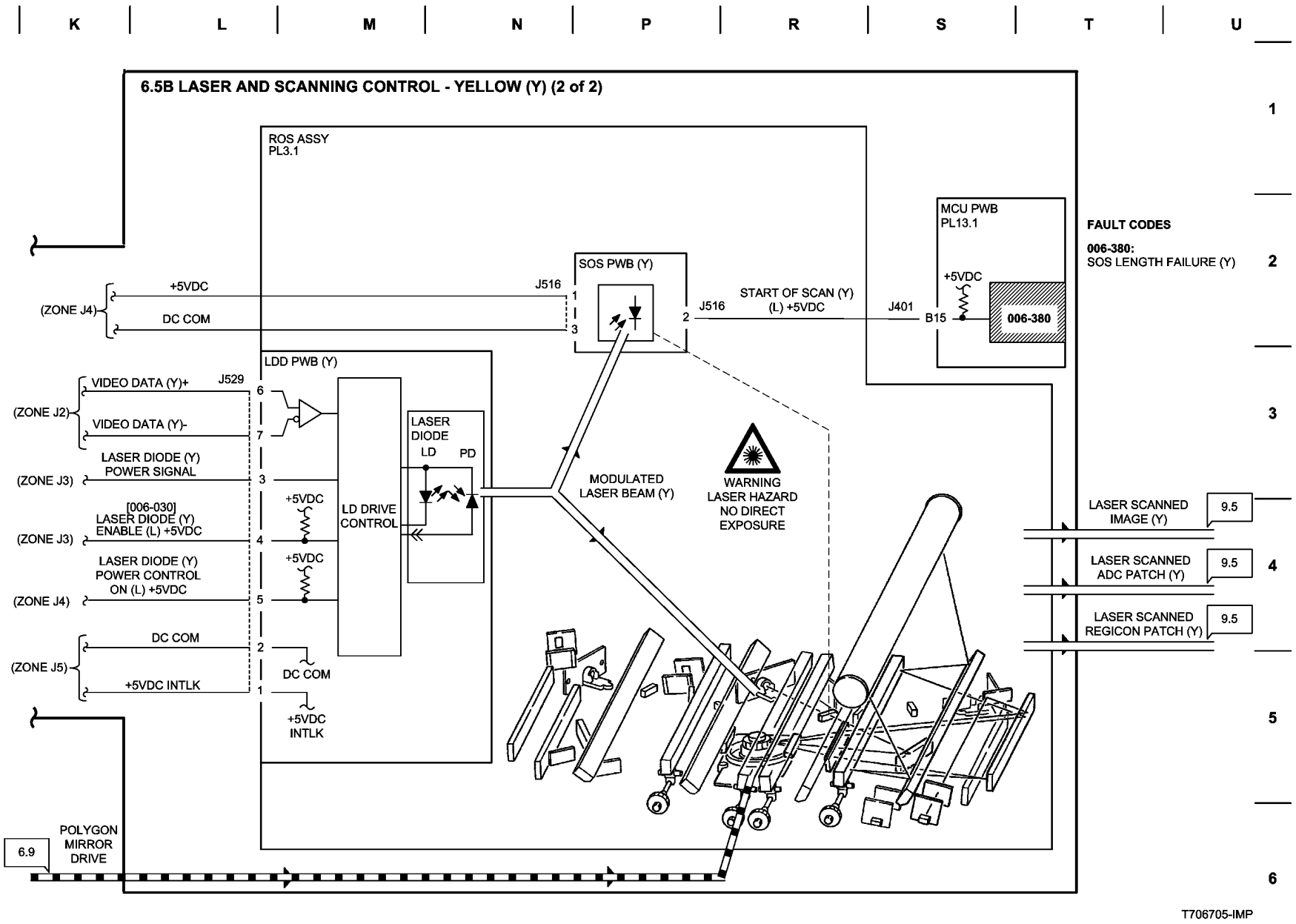


Figure 6 BSD 6.5B Laser and Scanning Yellow (2 of 2)

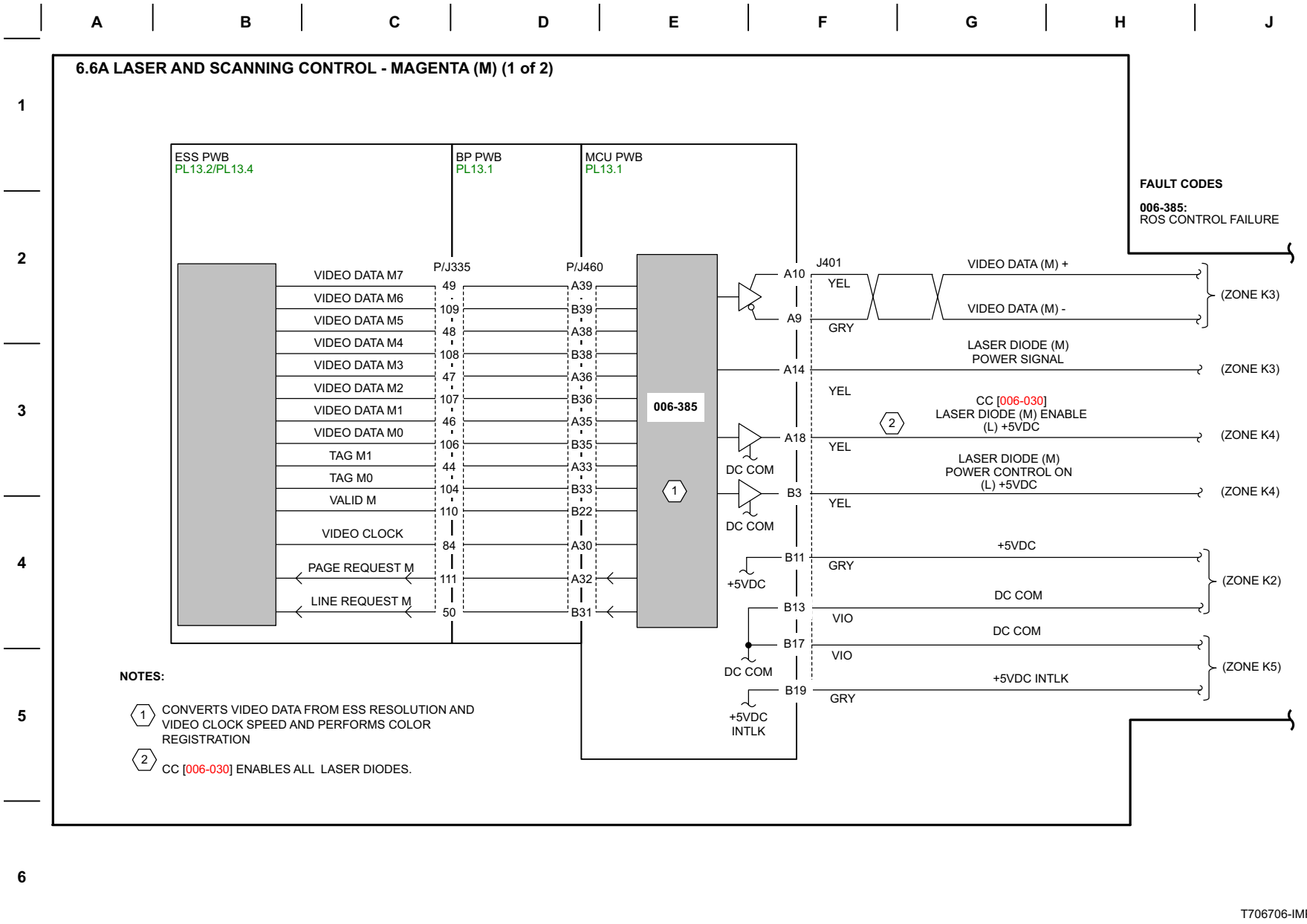


Figure 7 BSD 6.6A Laser and Scanning Magenta (1 of 2)

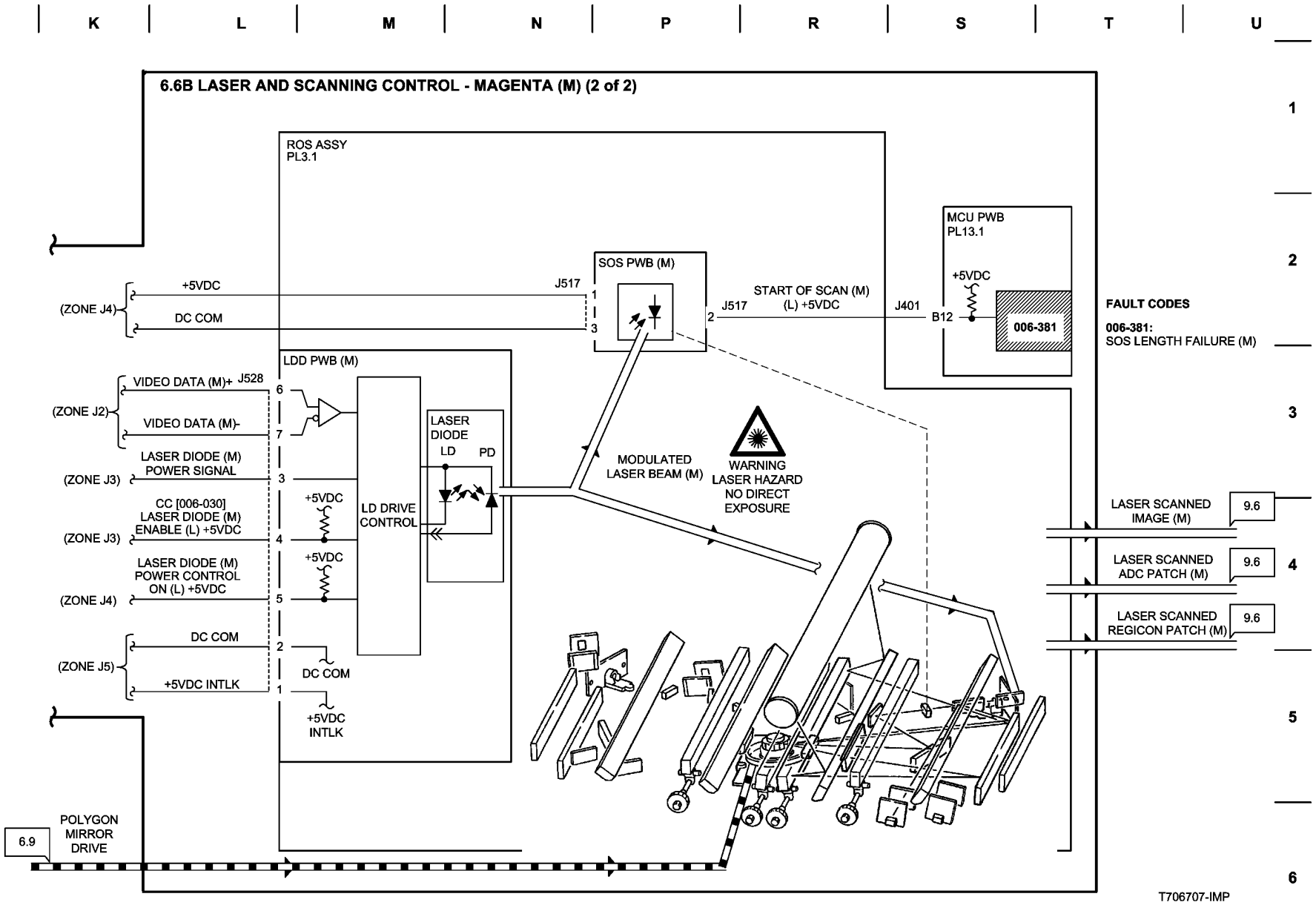


Figure 8 BSD 6.6B Laser and Scanning Magenta (2 of 2)

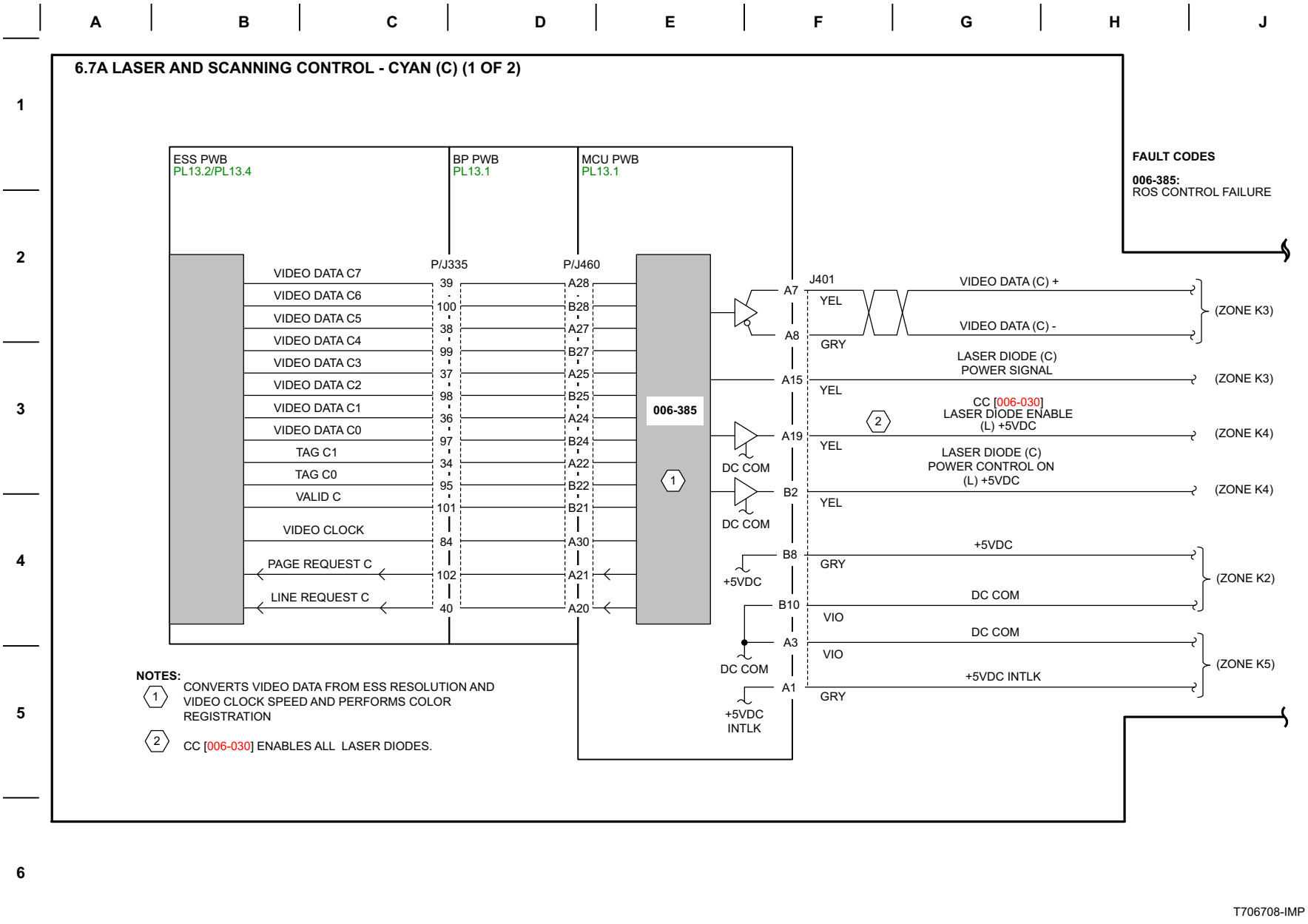


Figure 9 BSD 6.7A Laser and Scanning Cyan (1 of 2)

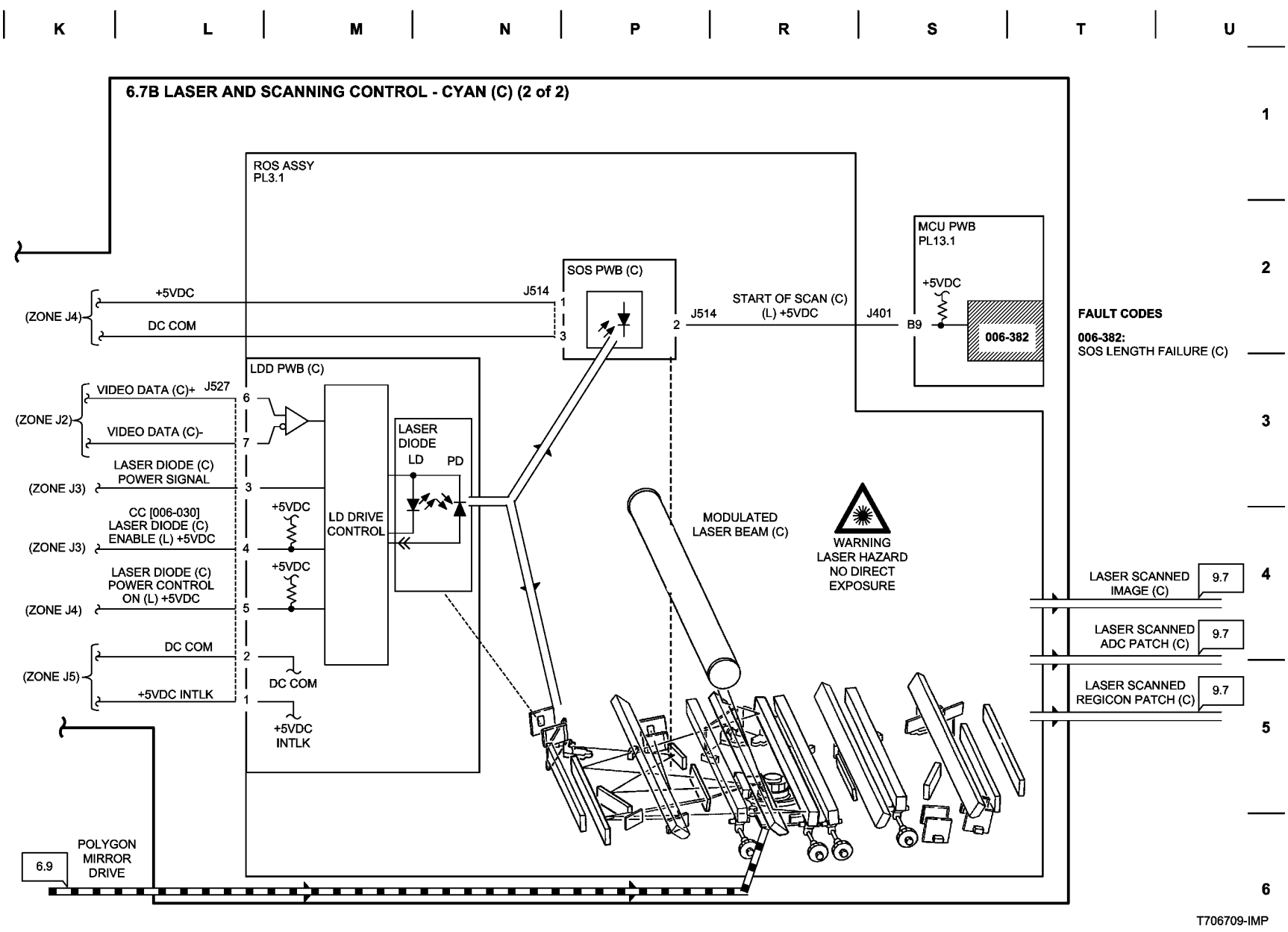


Figure 10 BSD 6.7B Laser and Scanning Cyan (2 of 2)

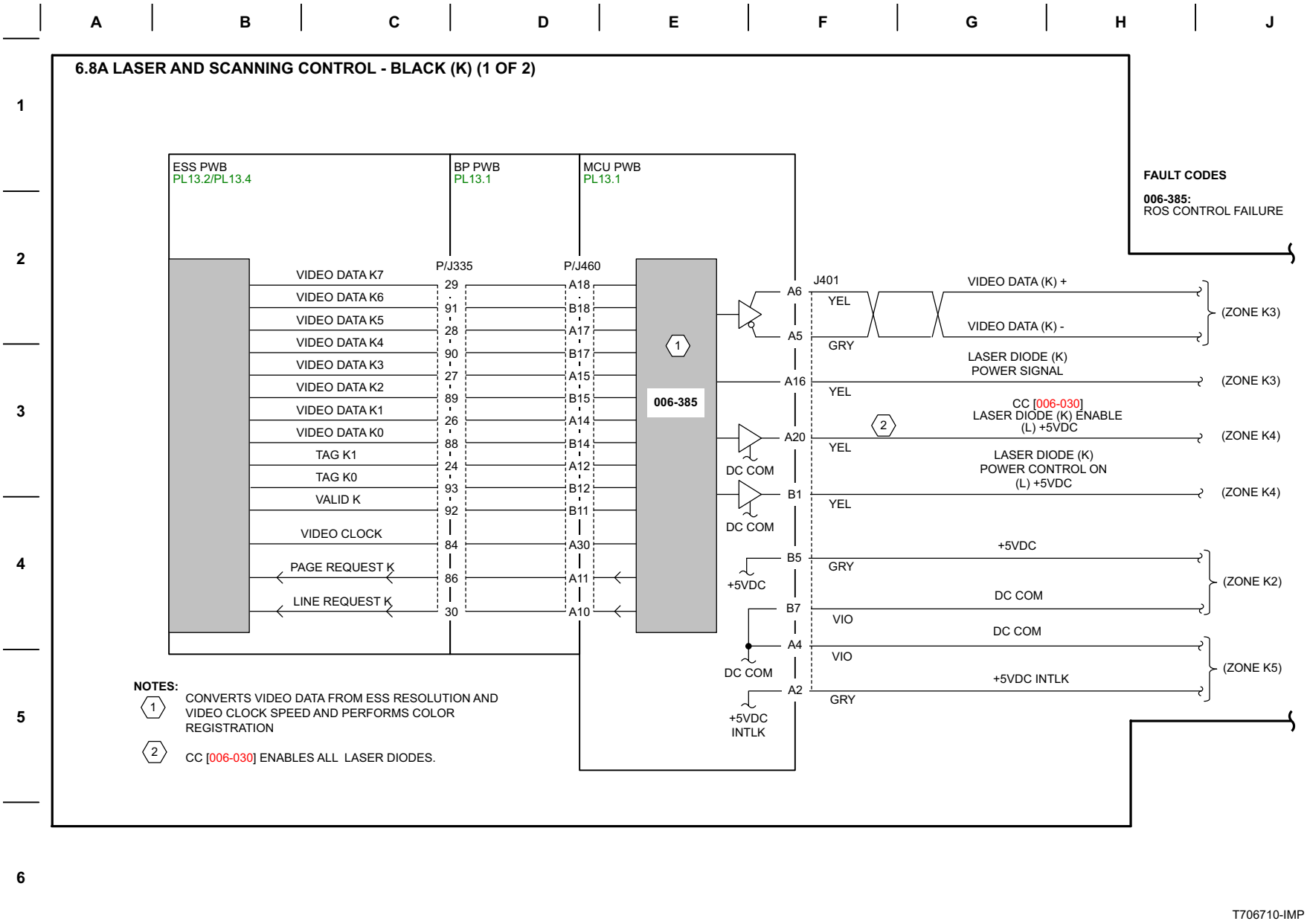


Figure 11 BSD 6.8A Laser and Scanning Black (1 of 2)

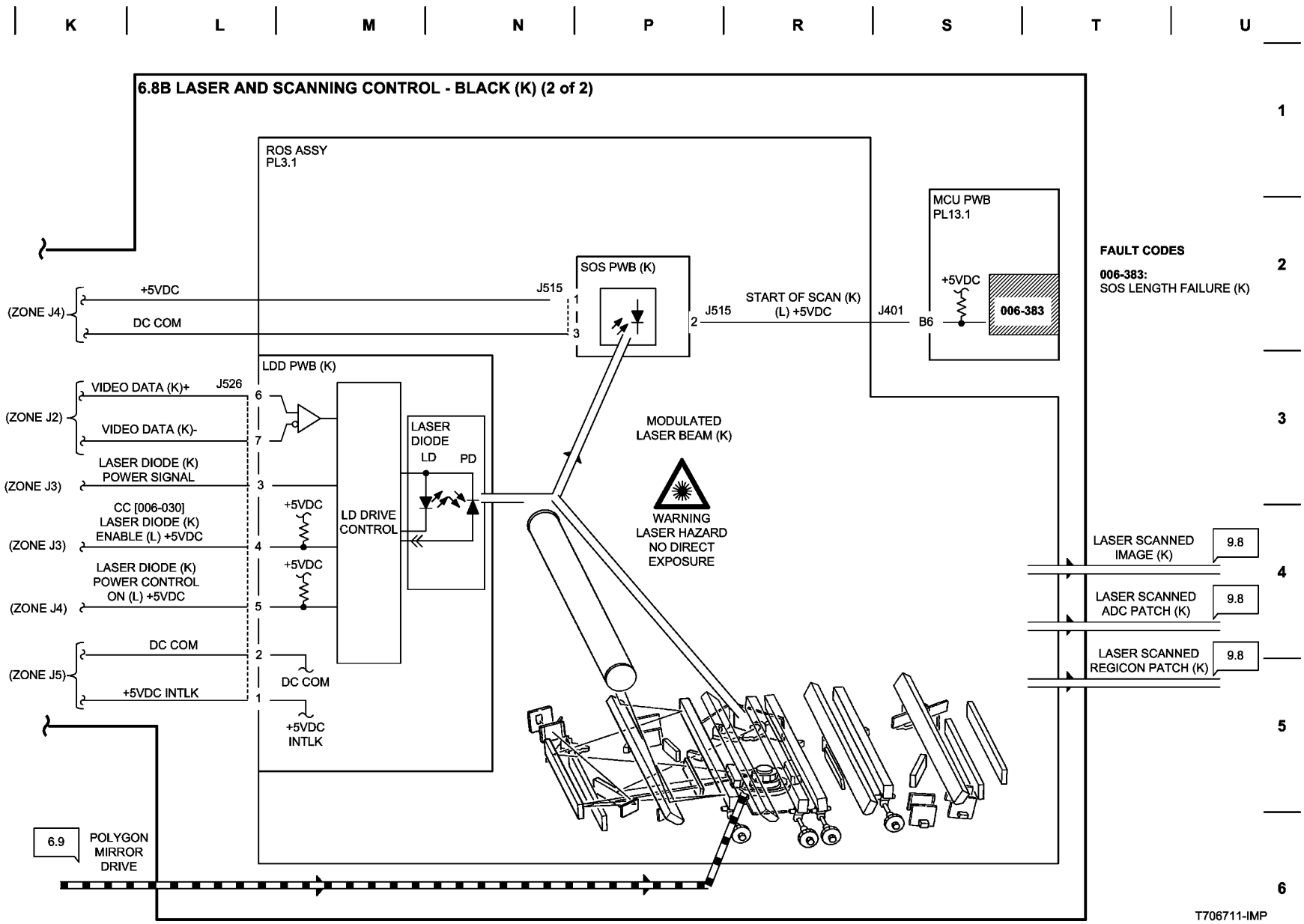


Figure 12 BSD 6.8B Laser and Scanning Black (2 of 2)

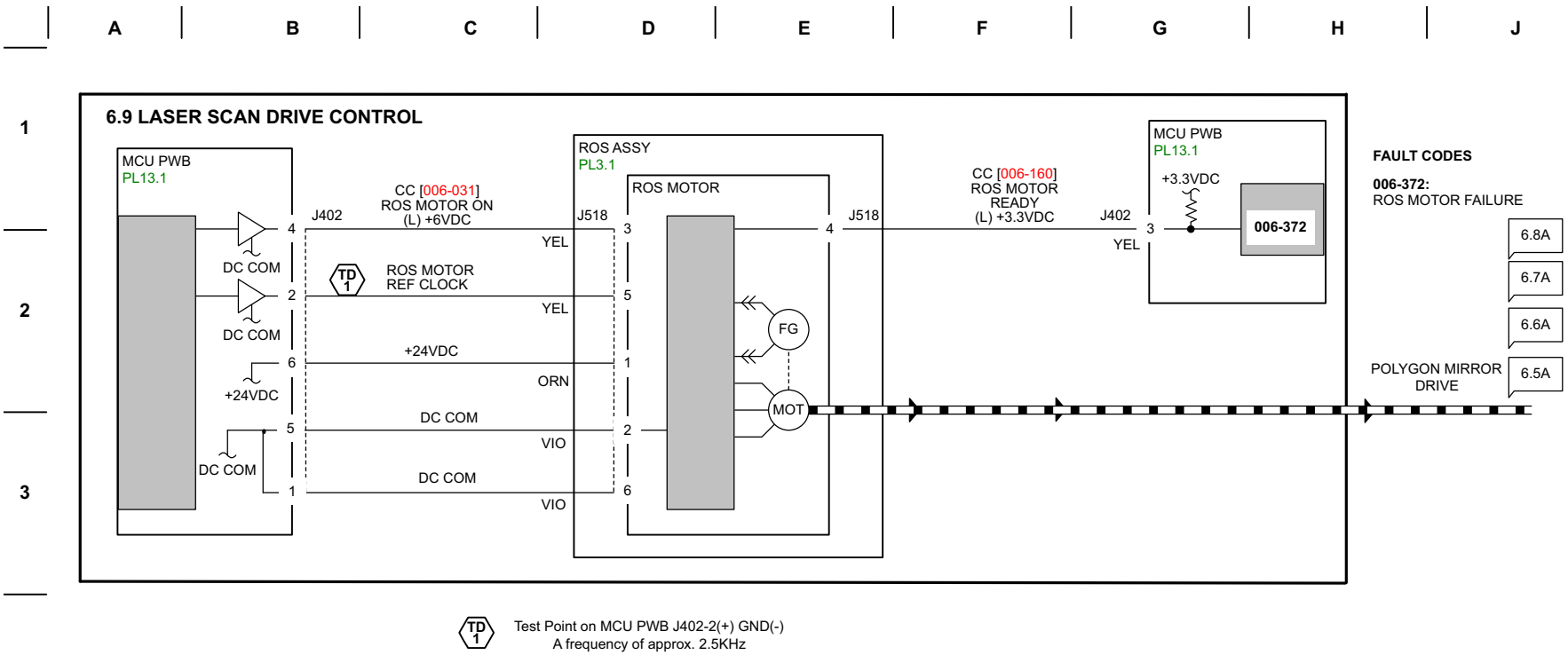


Figure 13 BSD 6.9 Laser Scan Drive

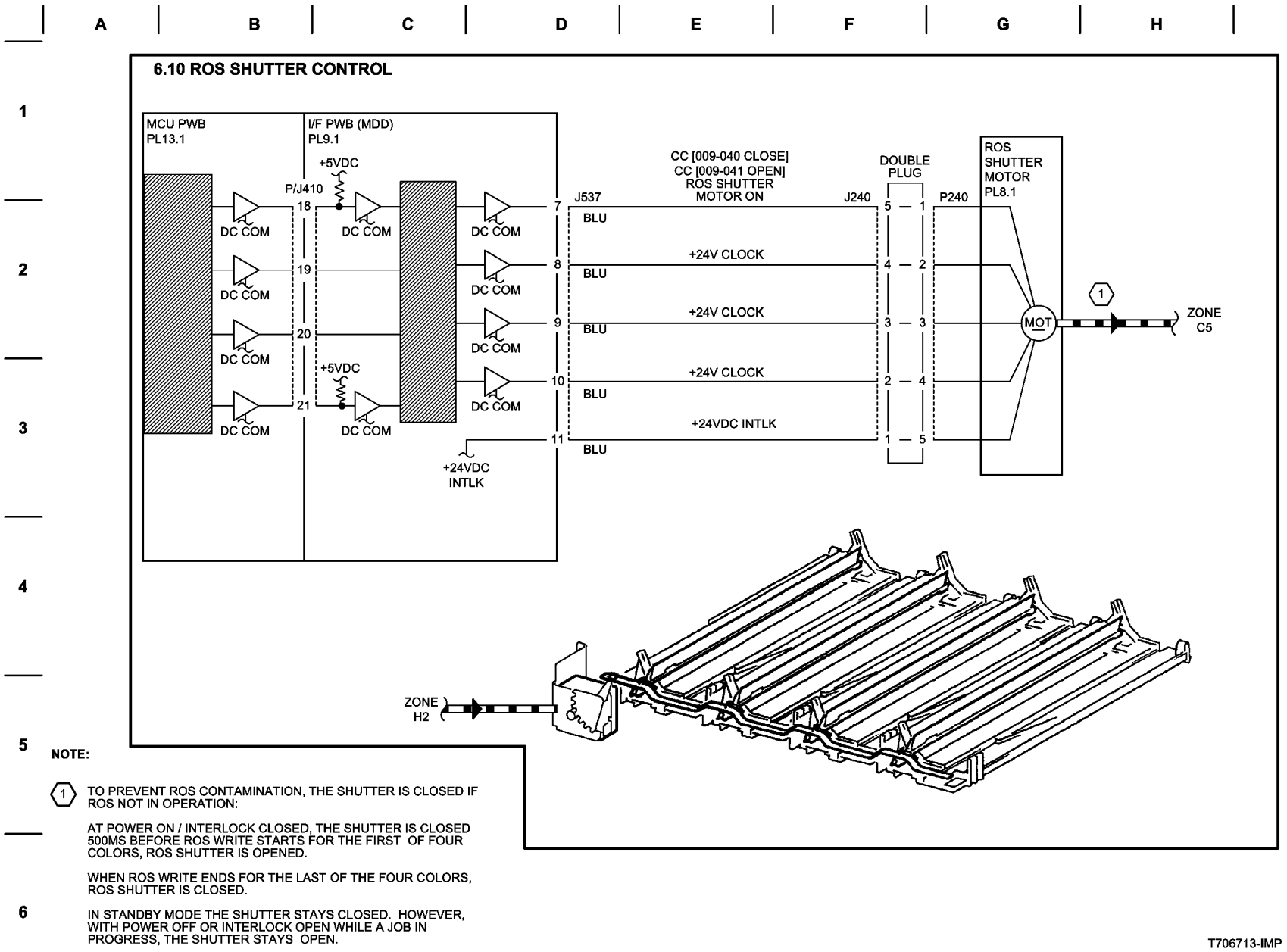


Figure 14 BSD 6.10 ROS Shutter

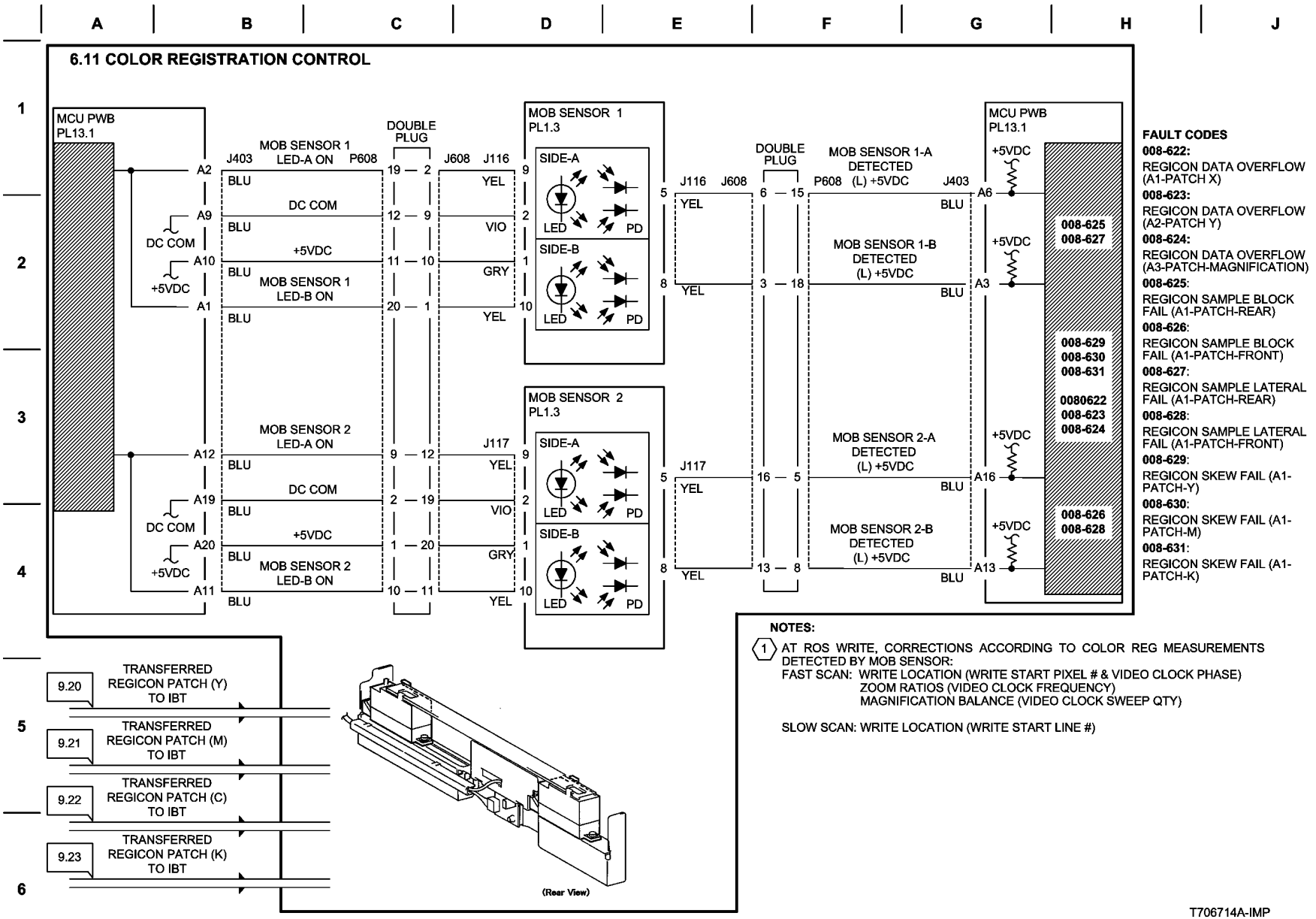
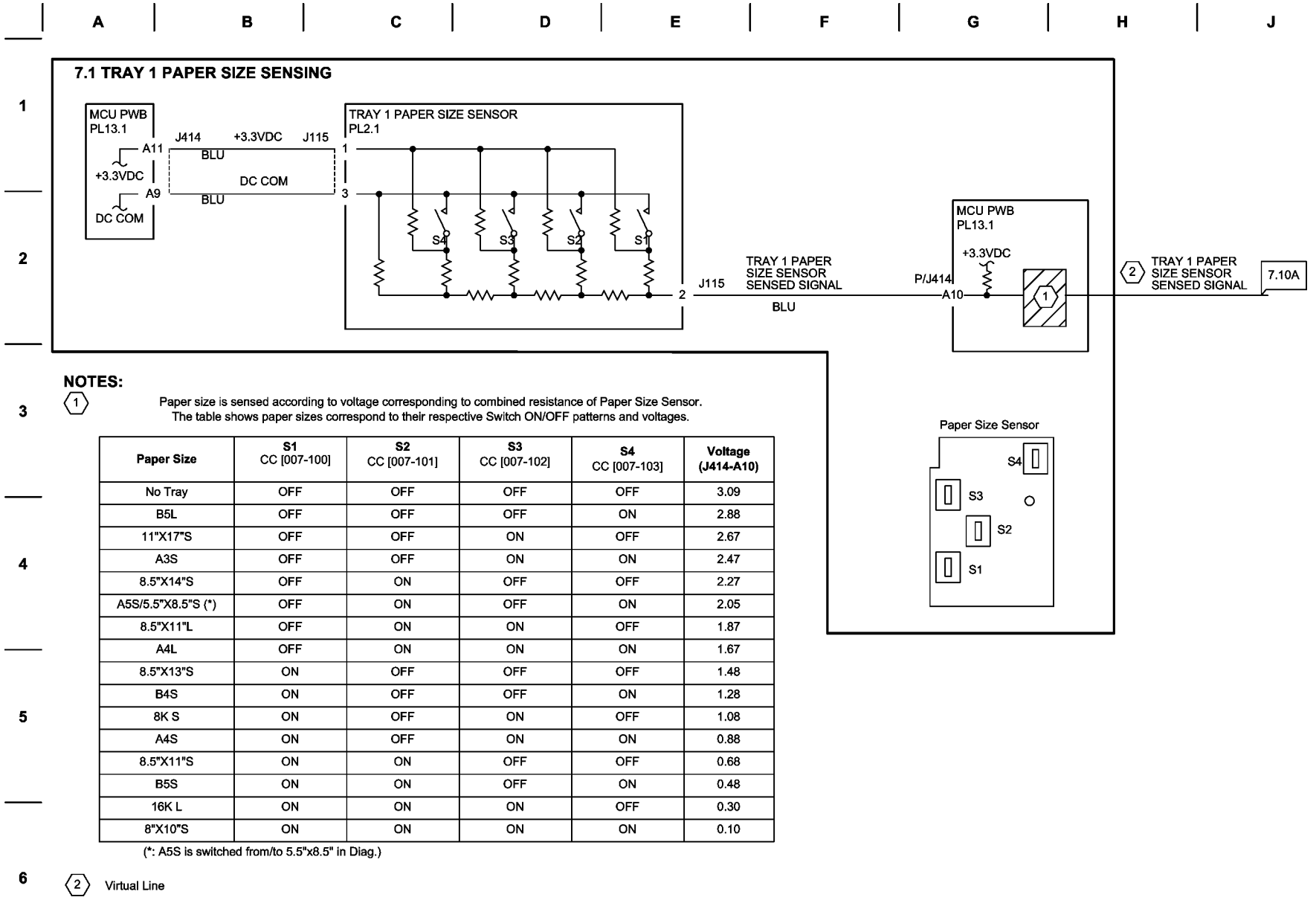


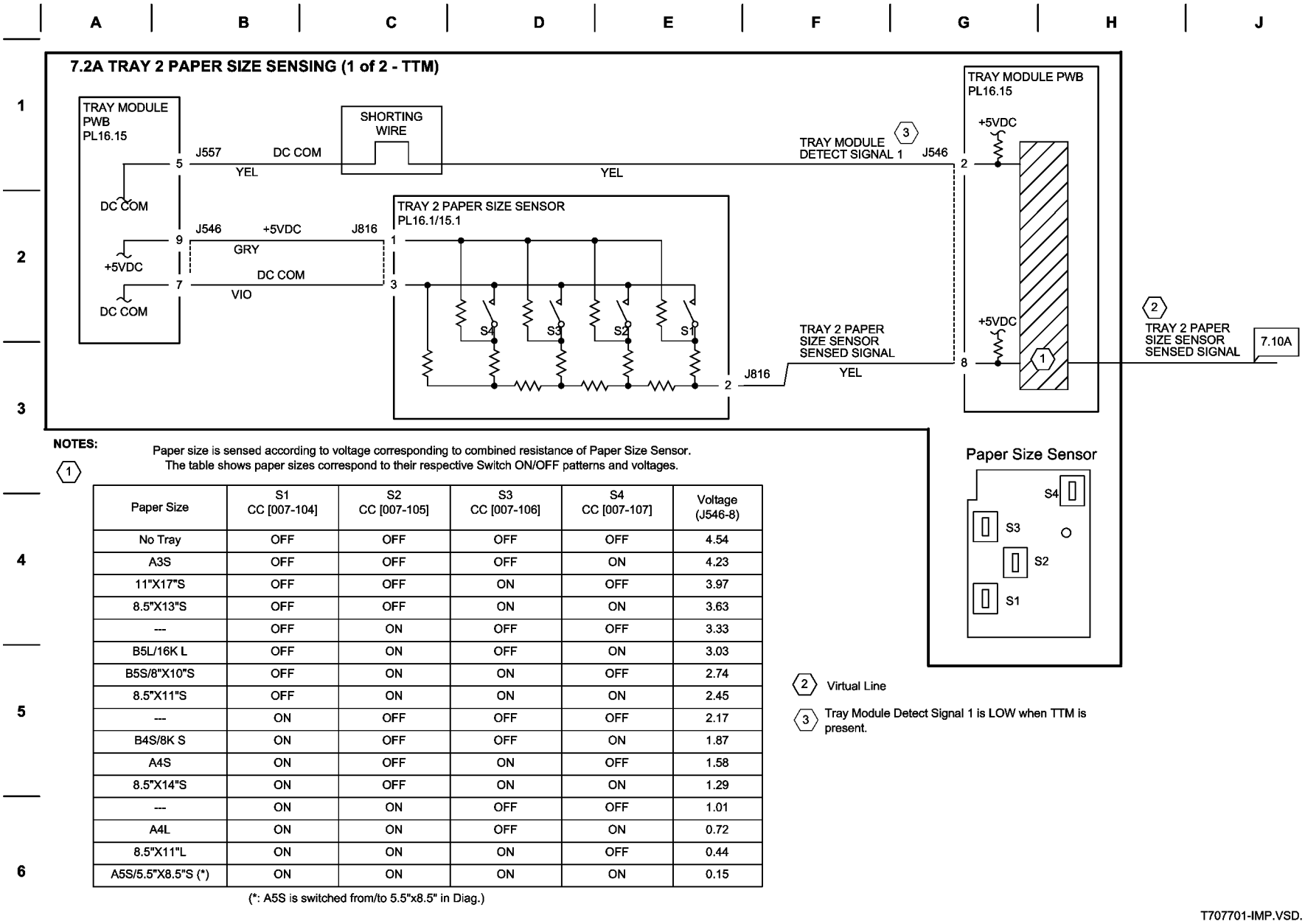
Figure 15 BSD 6.11 Color Registration



Paper Size	S1 CC [007-100]	S2 CC [007-101]	S3 CC [007-102]	S4 CC [007-103]	Voltage (J414-A10)
No Tray	OFF	OFF	OFF	OFF	3.09
B5L	OFF	OFF	OFF	ON	2.88
11"X17"S	OFF	OFF	ON	OFF	2.67
A3S	OFF	OFF	ON	ON	2.47
8.5"X14"S	OFF	ON	OFF	OFF	2.27
A5S/5.5"X8.5"S (*)	OFF	ON	OFF	ON	2.05
8.5"X11"L	OFF	ON	ON	OFF	1.87
A4L	OFF	ON	ON	ON	1.67
8.5"X13"S	ON	OFF	OFF	OFF	1.48
B4S	ON	OFF	OFF	ON	1.28
8K S	ON	OFF	ON	OFF	1.08
A4S	ON	OFF	ON	ON	0.88
8.5"X11"S	ON	ON	OFF	OFF	0.68
B5S	ON	ON	OFF	ON	0.48
16K L	ON	ON	ON	OFF	0.30
8"X10"S	ON	ON	ON	ON	0.10

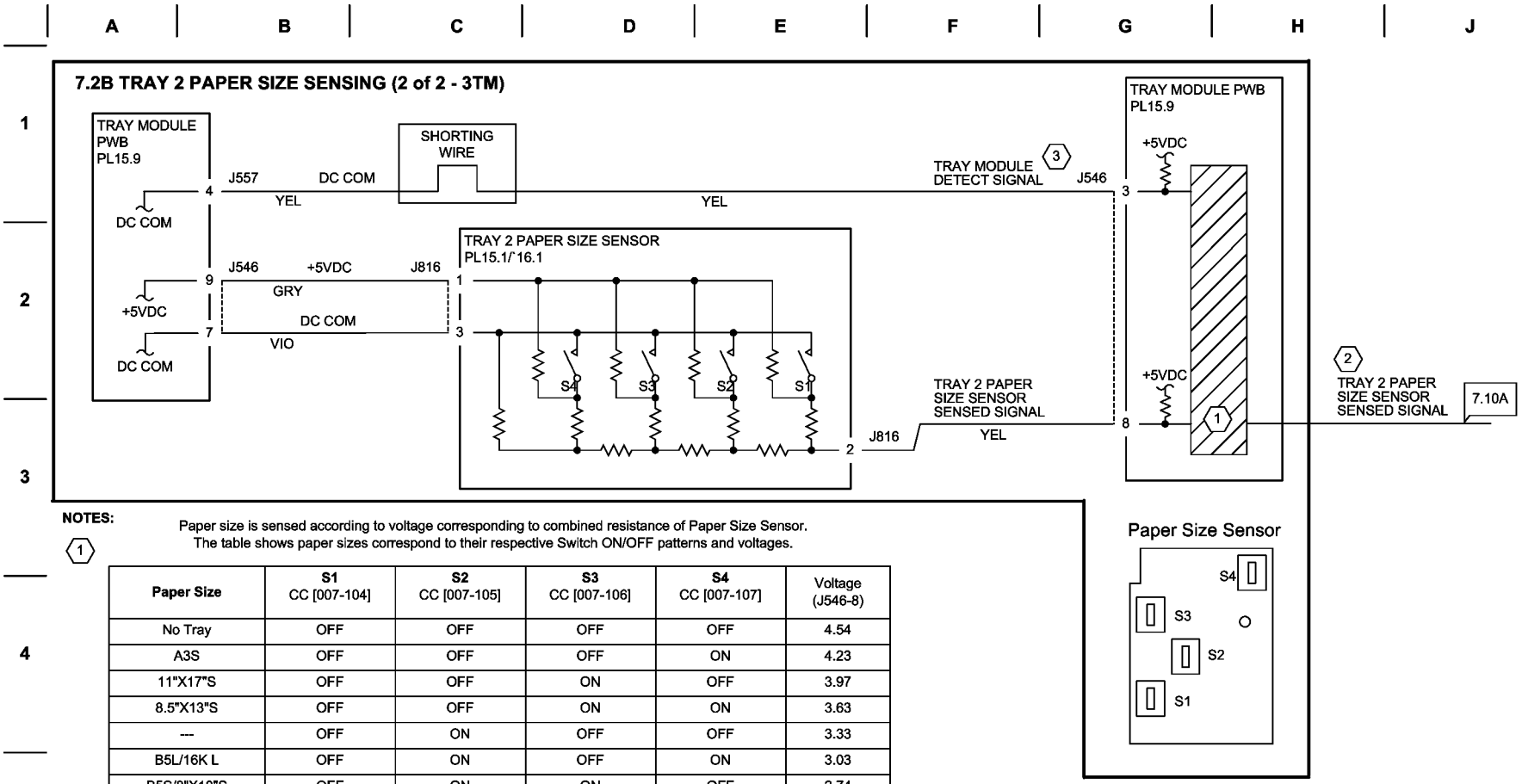
(*: A5S is switched from/to 5.5"x8.5" in Diag.)

Figure 1 BSD 7.1 Tray 1 Size Sensing



Paper Size	S1 CC [007-104]	S2 CC [007-105]	S3 CC [007-106]	S4 CC [007-107]	Voltage (J546-8)
No Tray	OFF	OFF	OFF	OFF	4.54
A3S	OFF	OFF	OFF	ON	4.23
11"X17"S	OFF	OFF	ON	OFF	3.97
8.5"X13"S	OFF	OFF	ON	ON	3.63
---	OFF	ON	OFF	OFF	3.33
B5L/16K L	OFF	ON	OFF	ON	3.03
B5S/8"X10"S	OFF	ON	ON	OFF	2.74
8.5"X11"S	OFF	ON	ON	ON	2.45
---	ON	OFF	OFF	OFF	2.17
B4S/8K S	ON	OFF	OFF	ON	1.87
A4S	ON	OFF	ON	OFF	1.58
8.5"X14"S	ON	OFF	ON	ON	1.29
---	ON	ON	OFF	OFF	1.01
A4L	ON	ON	OFF	ON	0.72
8.5"X11"L	ON	ON	ON	OFF	0.44
A5S/5.5"X8.5"S (*)	ON	ON	ON	ON	0.15

Figure 2 BSD 7.2A Tray 2 Size Sensing TTM



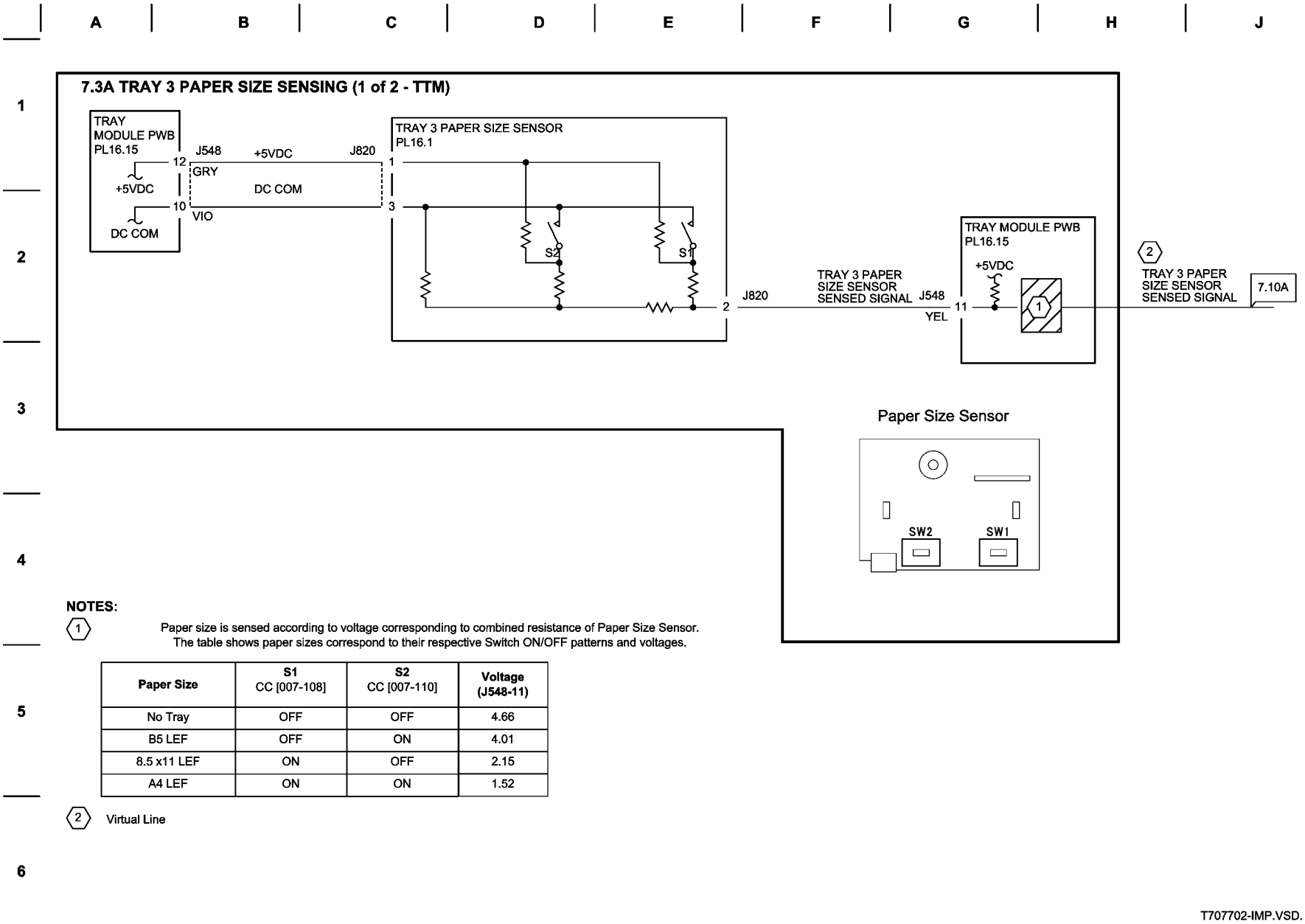
NOTES:

(1) Paper size is sensed according to voltage corresponding to combined resistance of Paper Size Sensor. The table shows paper sizes correspond to their respective Switch ON/OFF patterns and voltages.

Paper Size	S1 CC [007-104]	S2 CC [007-105]	S3 CC [007-106]	S4 CC [007-107]	Voltage (J546-8)
No Tray	OFF	OFF	OFF	OFF	4.54
A3S	OFF	OFF	OFF	ON	4.23
11"X17"S	OFF	OFF	ON	OFF	3.97
8.5"X13"S	OFF	OFF	ON	ON	3.63
---	OFF	ON	OFF	OFF	3.33
B5L/16K L	OFF	ON	OFF	ON	3.03
B5S/8"X10"S	OFF	ON	ON	OFF	2.74
8.5"X11"S	OFF	ON	ON	ON	2.45
---	ON	OFF	OFF	OFF	2.17
B4S/8K S	ON	OFF	OFF	ON	1.87
A4S	ON	OFF	ON	OFF	1.58
8.5"X14"S	ON	OFF	ON	ON	1.29
---	ON	ON	OFF	OFF	1.01
A4L	ON	ON	OFF	ON	0.72
8.5"X11"L	ON	ON	ON	OFF	0.44
A5S/5.5"X8.5"S (*)	ON	ON	ON	ON	0.15

(*: A5S is switched from/to 5.5"x8.5" in Diag.)

Figure 3 BSD 7.2B Tray 2 Size Sensing 3TM



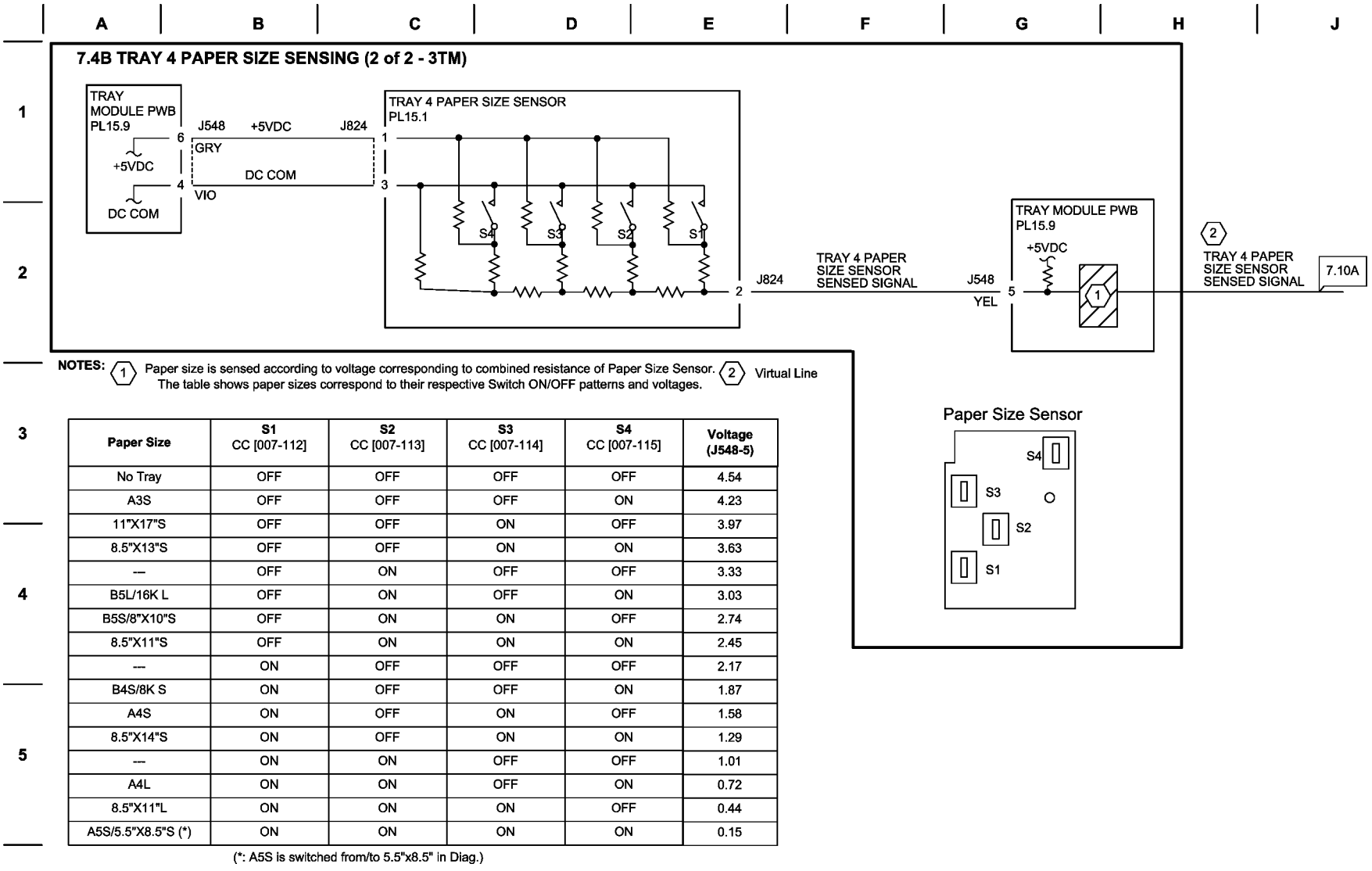
NOTES:

1. Paper size is sensed according to voltage corresponding to combined resistance of Paper Size Sensor. The table shows paper sizes correspond to their respective Switch ON/OFF patterns and voltages.

Paper Size	S1 CC [007-108]	S2 CC [007-110]	Voltage (J548-11)
No Tray	OFF	OFF	4.66
B5 LEF	OFF	ON	4.01
8.5 x11 LEF	ON	OFF	2.15
A4 LEF	ON	ON	1.52

2. Virtual Line

Figure 4 BSD 7.3A Tray 3 Size Sensing TTM



Paper Size	S1 CC [007-112]	S2 CC [007-113]	S3 CC [007-114]	S4 CC [007-115]	Voltage (J548-5)
No Tray	OFF	OFF	OFF	OFF	4.54
A3S	OFF	OFF	OFF	ON	4.23
11"X17"S	OFF	OFF	ON	OFF	3.97
8.5"X13"S	OFF	OFF	ON	ON	3.63
---	OFF	ON	OFF	OFF	3.33
B5L/16K L	OFF	ON	OFF	ON	3.03
B5S/8"X10"S	OFF	ON	ON	OFF	2.74
8.5"X11"S	OFF	ON	ON	ON	2.45
---	ON	OFF	OFF	OFF	2.17
B4S/8K S	ON	OFF	OFF	ON	1.87
A4S	ON	OFF	ON	OFF	1.58
8.5"X14"S	ON	OFF	ON	ON	1.29
---	ON	ON	OFF	OFF	1.01
A4L	ON	ON	OFF	ON	0.72
8.5"X11"L	ON	ON	ON	OFF	0.44
A5S/5.5"X8.5"S (*)	ON	ON	ON	ON	0.15

(*: A5S is switched from/to 5.5"x8.5" in Diag.)

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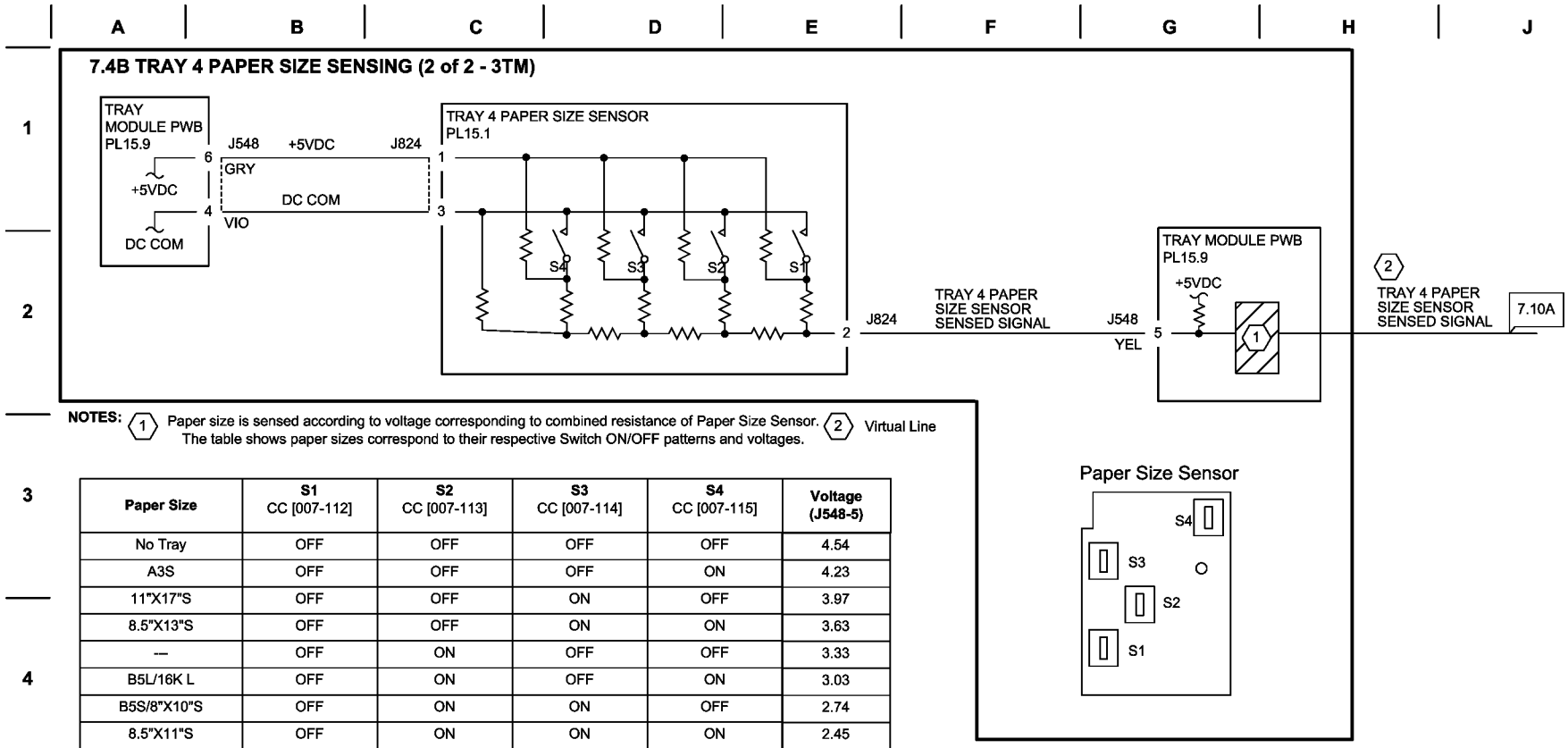
Figure 5 BSD 7.4A Tray 4 Size Sensing TTM



NOTES: (1) Paper size is sensed according to voltage corresponding to combined resistance of Paper Size Sensor. The table shows paper sizes correspond to their respective Switch ON/OFF patterns and voltages. (2) Virtual Line

Paper Size	S1 CC [007-112]	S2 CC [007-113]	S3 CC [007-114]	S4 CC [007-115]	Voltage (J548-5)
No Tray	OFF	OFF	OFF	OFF	4.54
A3S	OFF	OFF	OFF	ON	4.23
11"X17"S	OFF	OFF	ON	OFF	3.97
8.5"X13"S	OFF	OFF	ON	ON	3.63
---	OFF	ON	OFF	OFF	3.33
B5L/16K L	OFF	ON	OFF	ON	3.03
B5S/8"X10"S	OFF	ON	ON	OFF	2.74
8.5"X11"S	OFF	ON	ON	ON	2.45
---	ON	OFF	OFF	OFF	2.17
B4S/8K S	ON	OFF	OFF	ON	1.87
A4S	ON	OFF	ON	OFF	1.58
8.5"X14"S	ON	OFF	ON	ON	1.29
---	ON	ON	OFF	OFF	1.01
A4L	ON	ON	OFF	ON	0.72
8.5"X11"L	ON	ON	ON	OFF	0.44
A5S/5.5"X8.5"S (*)	ON	ON	ON	ON	0.15

(*: A5S is switched from/to 5.5"x8.5" in Diag.)

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Figure 6 BSD 7.4B Tray 4 Size Sensing 3TM

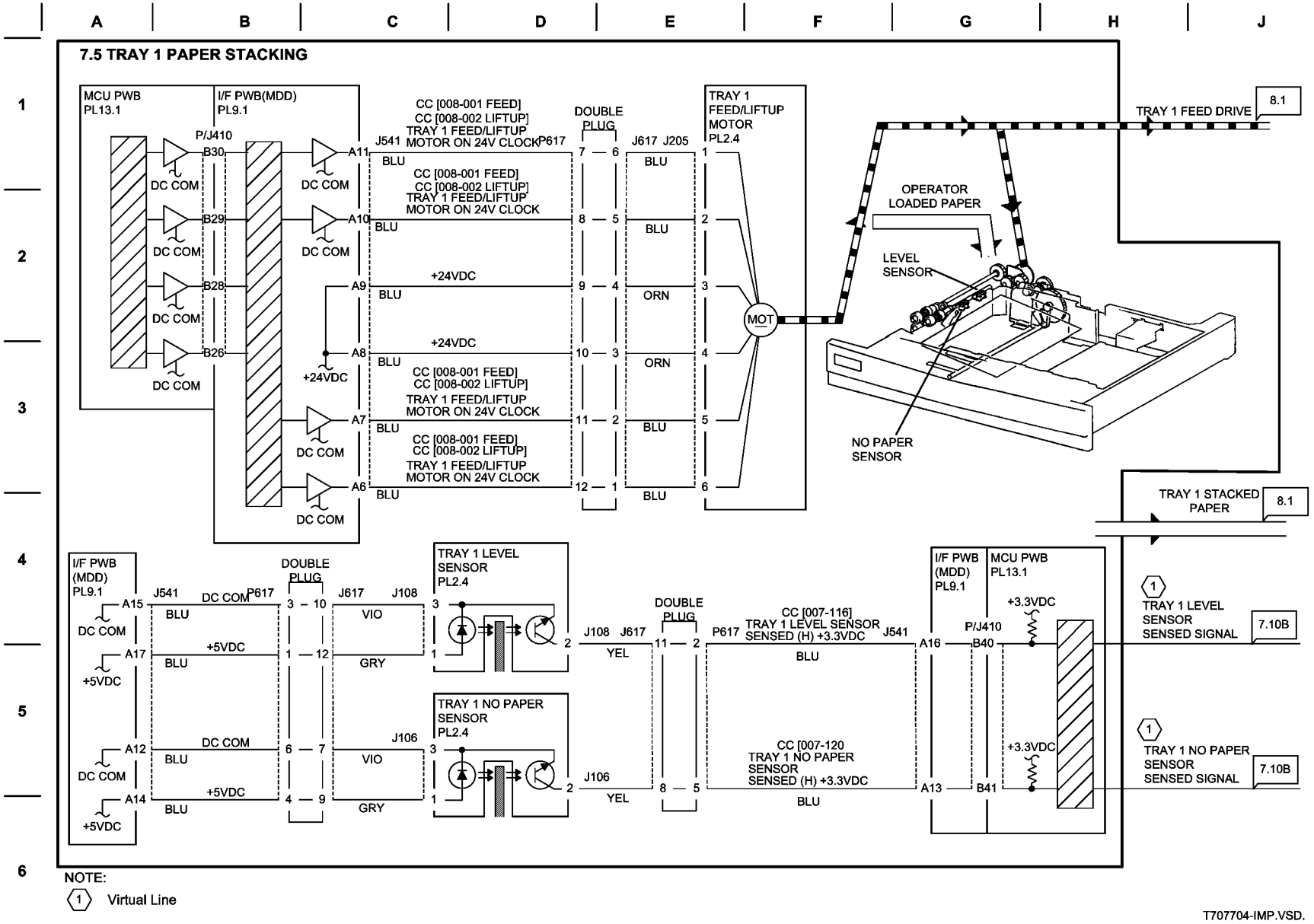


Figure 7 BSD 7.5 Tray 1 Paper Stacking

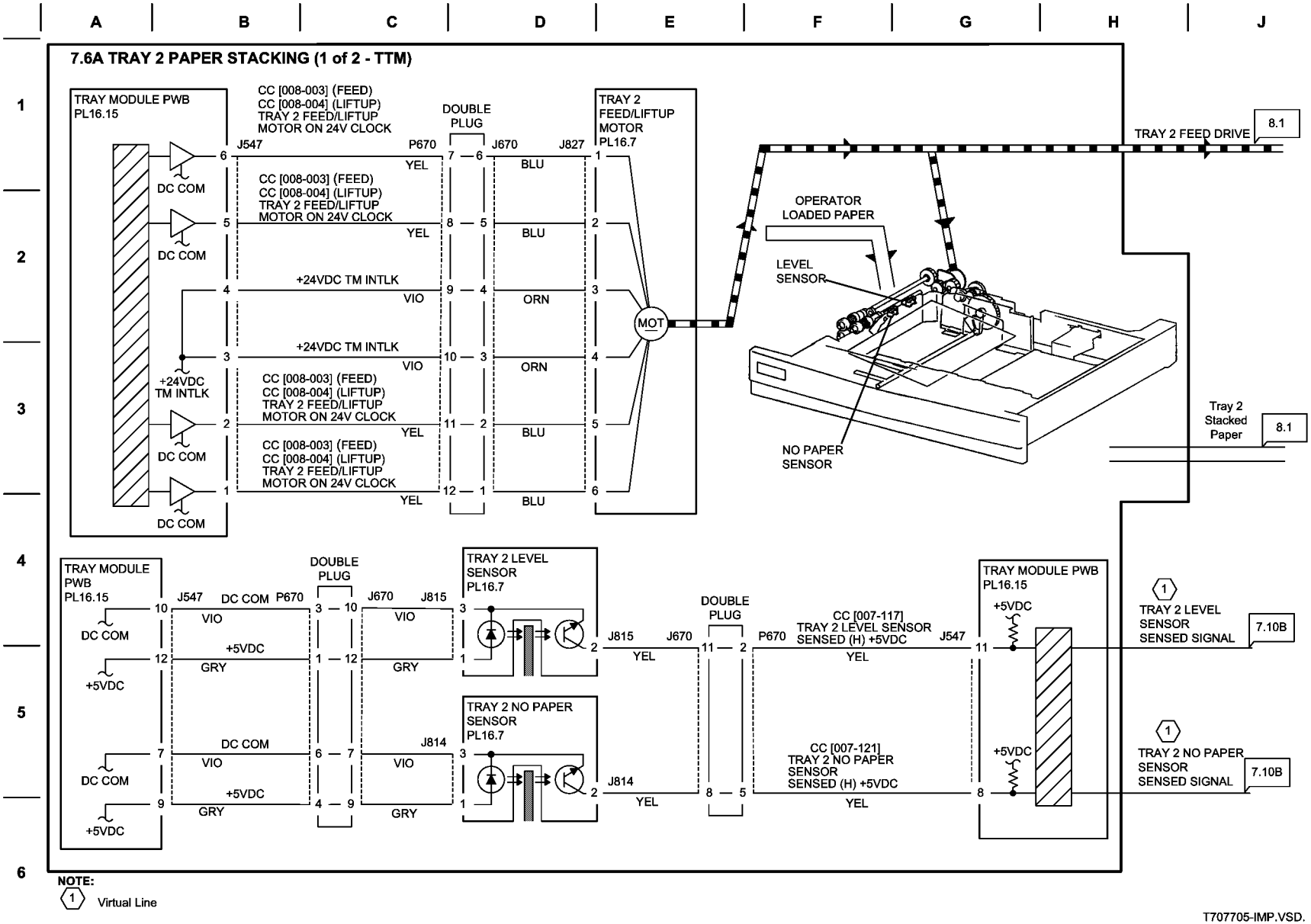


Figure 8 BSD 7.6A Tray 2 Paper Stacking TTM

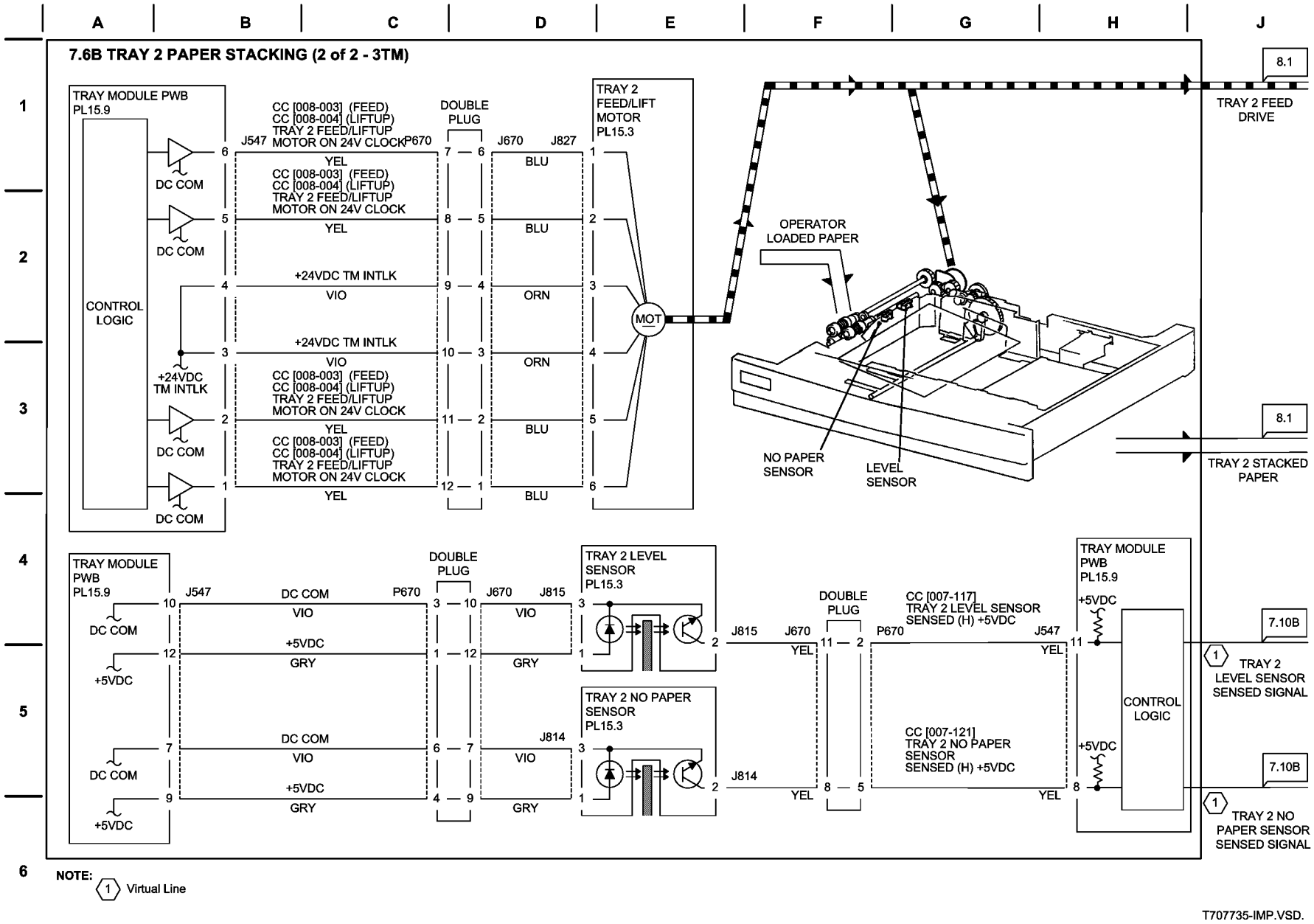


Figure 9 BSD 7.6B Tray 2 Paper Stacking 3TM

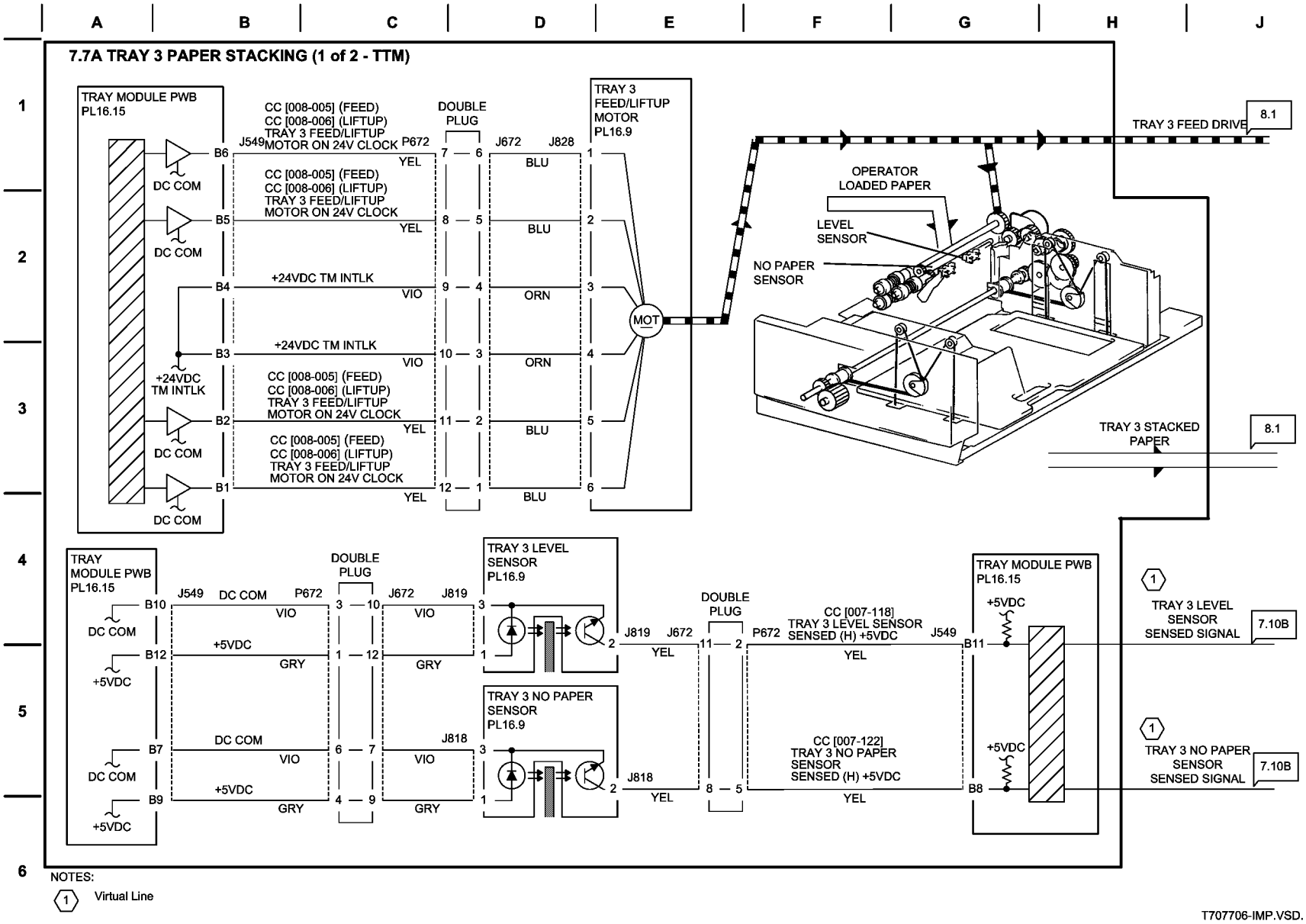


Figure 10 BSD 7.7A Tray 3 Paper Stacking TTM

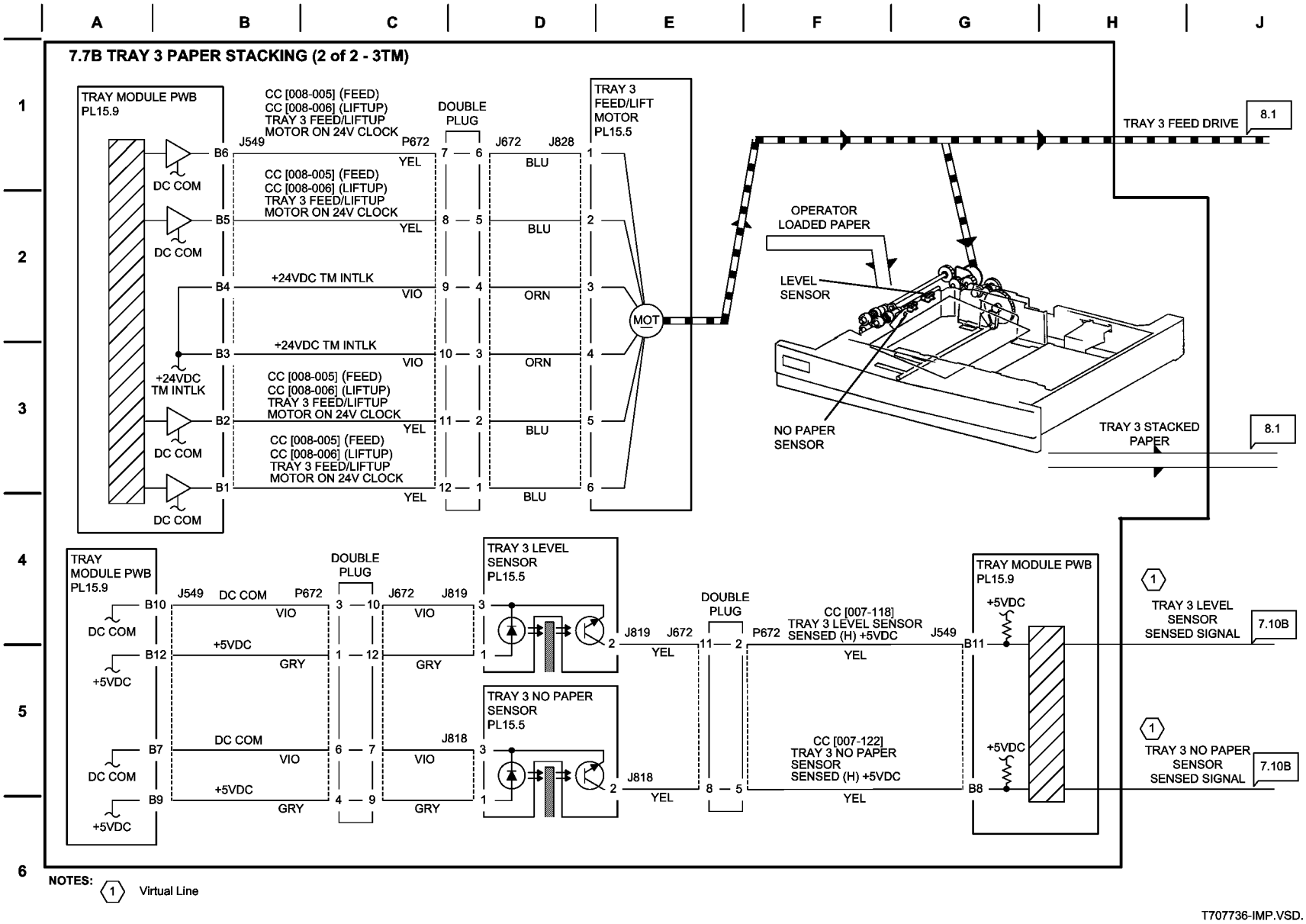


Figure 11 BSD 7.7B Tray 3 Paper Stacking 3TM

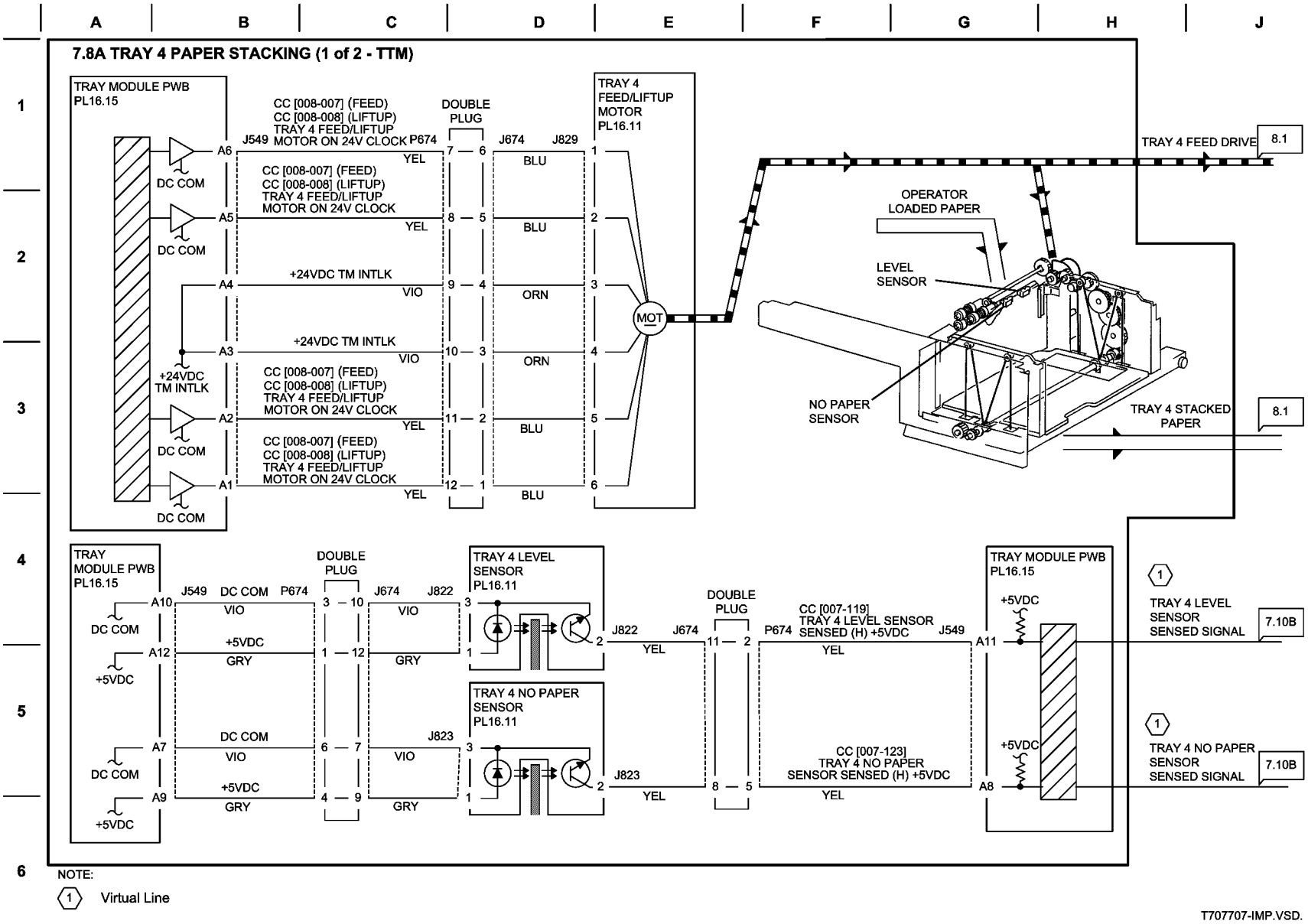


Figure 12 BSD 7.8A Tray 4 Paper Stacking TTM

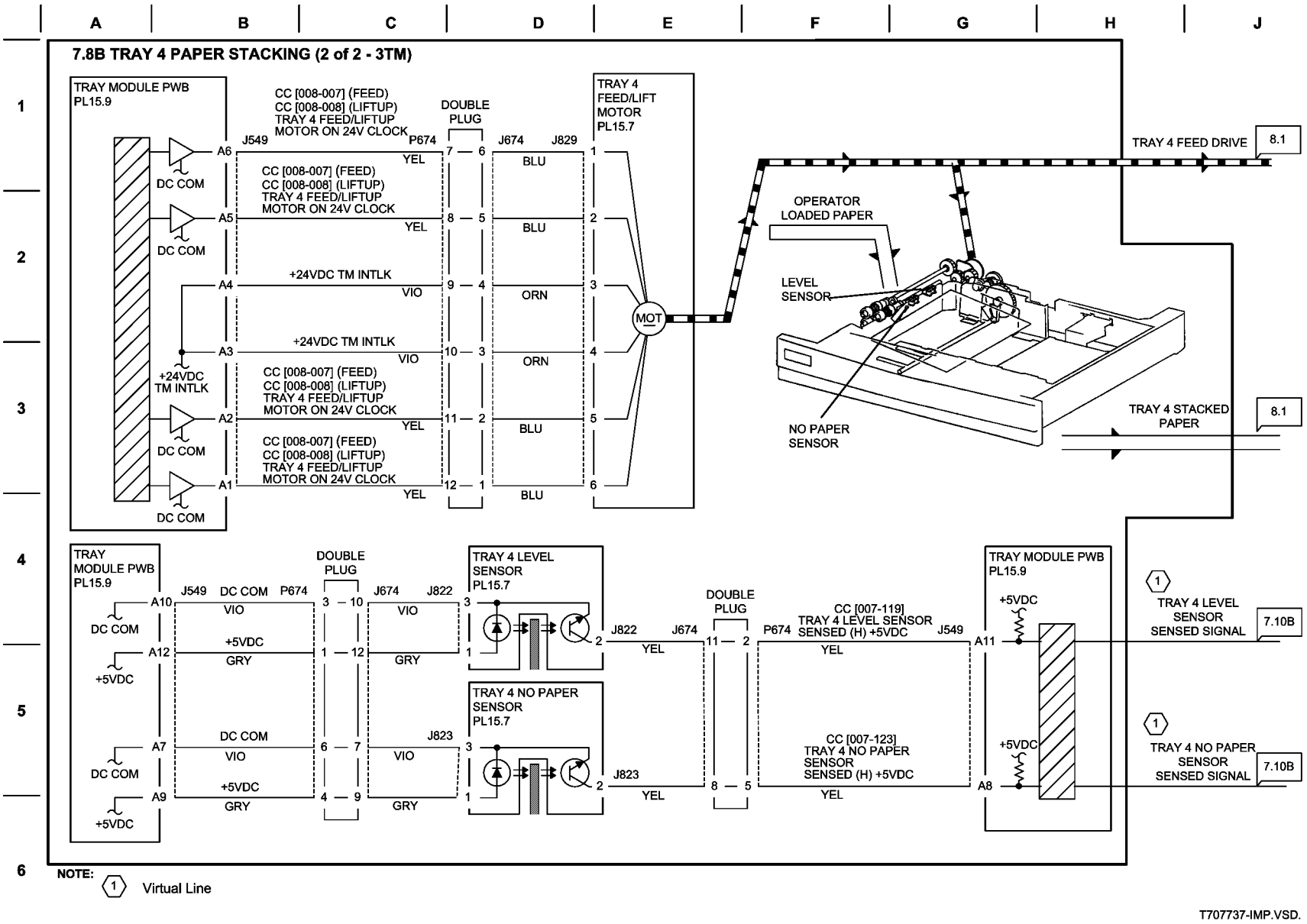
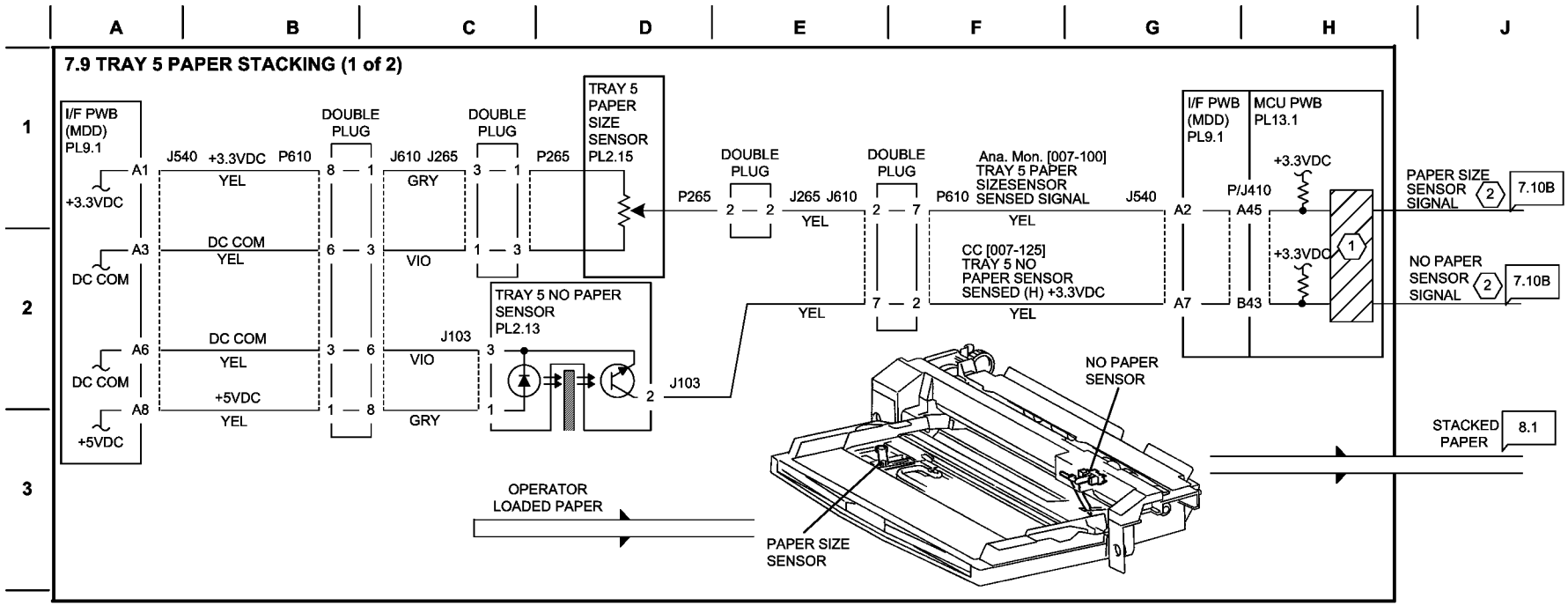


Figure 13 BSD 7.8B Tray 4 Paper Stacking 3TM



NOTE:

(1) Paper width (size in Fast Scan direction) is sensed according to voltage corresponding to resistance of MSI Paper Size Sensor. The table shows paper sizes (widths) correspond to their respective voltages.

Paper Size	Voltage (J610-2)	A/D Value Ana. Mon. [007-100]
Post Card S	3.136	971
A6S	3.064	949
B6S	2.736	848
5.5"X8.5"S	2.569	796
A5S	2.451	759
B5S	1.967	609
A5L	1.568	486
A4S		
8.5"X11"S	1.484	460
8.5"X12.4"S		
8.5"X13"S		
8.5"X14"S		

Paper Size	Voltage (J610-2)	A/D Value Ana. Mon. [007-100]
8"X10"L	0.941	291
B5L	0.899	278
B4S		
16K L	0.756	234
8K S		
8.5"X11"L	0.580	189
11"X17"S		
A4L	0.329	101
A3S		
12"X18"S	0.273	84
12.6"X18"S	0.165	51

Ref

Paper length (size in Slow Scan direction) is sensed according to time from Regi Clutch ON to the time paper passes Regi Sensor. The table shows paper sizes (lengths) correspond to their respective times at the specified speeds.

(2) Virtual Line

Paper Size	Duration (ms) per Spec. Speeds (mm/s) 208	165	104	52
Post Card S	634.0	803.2	1283.1	2581.2
A6S				
B6S	797.5	1009.2	1610.0	3235.0
5.5"X8.5"S	960.5	1214.7	1936.0	3886.9
A5S	932.1	1178.9	1879.2	3773.5
B5S	1158.1	1463.8	2331.2	4677.3
A5L	634.0	803.2	1283.1	2581.2
A4S	1350.4	1706.2	2715.8	5446.5
8.5"X11"S	1265.8	1599.5	2546.5	5108.1
8.5"X12.4"S	1436.9	1815.3	2888.8	5792.7
8.5"X13"S	1510.0	1907.4	3035.0	6085.0

Paper Size	Duratiom (ms) per Spec. Speeds (mm/s) 208	165	104	52
8.5"X14"S	1632.1	2061.4	3279.2	6573.5
8"X10"L	899.4	1137.7	1813.8	3642.7
B5L	797.5	1009.2	1610.0	3235.0
B4S	1672.5	2112.3	3360.0	6735.0
□\˜ZŠJL	855.2	1082.0	1725.4	3465.8
™ŠJS	1792.7	2263.8	3600.4	7215.8
8.5"X11"L	960.5	1214.7	1936.0	3886.9
11"X17"S	1998.5	2523.2	4011.9	8038.8
A4L	932.1	1178.9	1879.2	3773.5
A3S	1941.7	2451.7	3898.5	7811.9
12"X18"S	2120.6	2677.1	4256.2	8527.3
12.6"X18"S				

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Figure 14 BSD 7.9 Tray 5 Paper Stacking

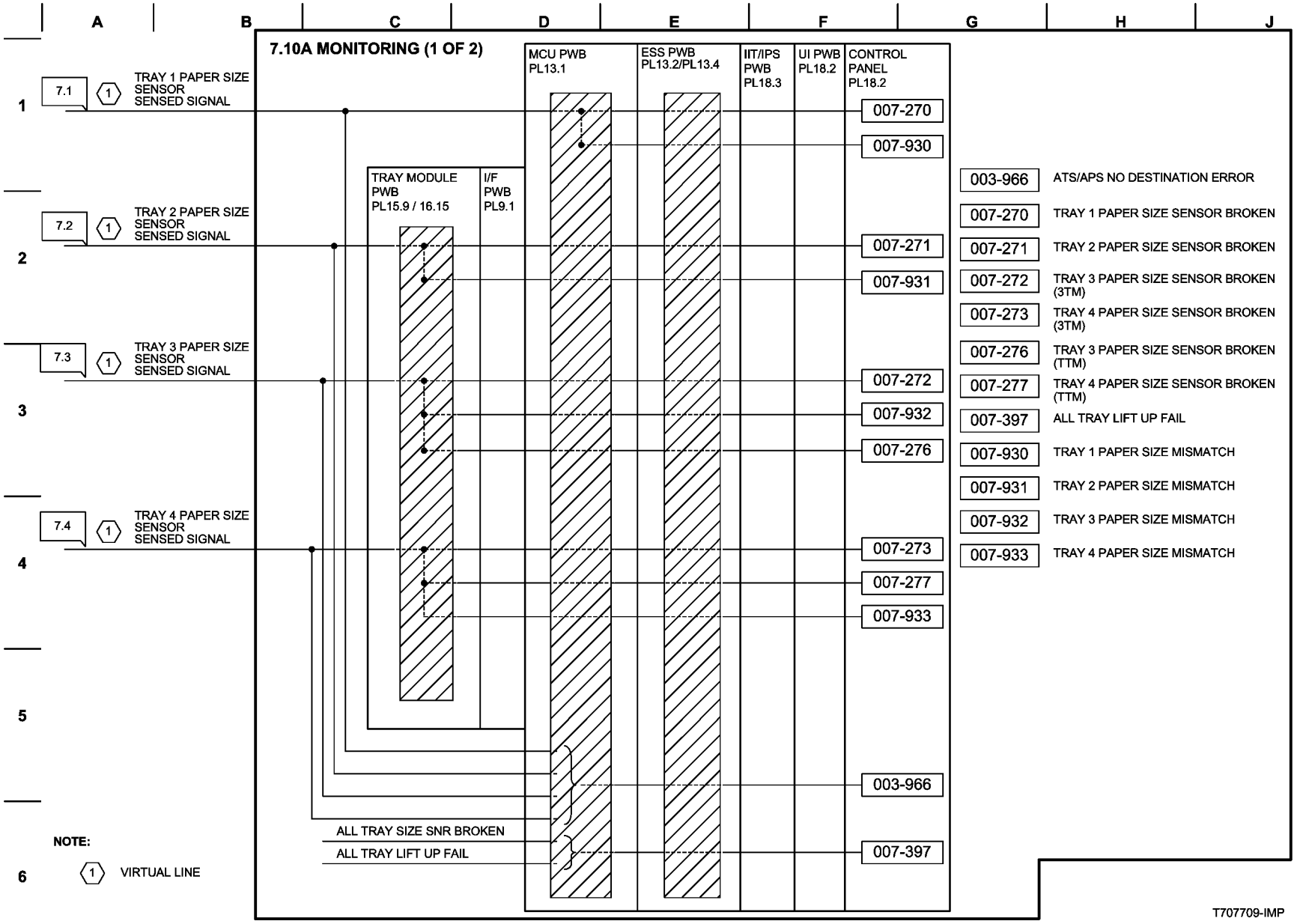


Figure 15 BSD 7.10A Monitor (1 of 2)

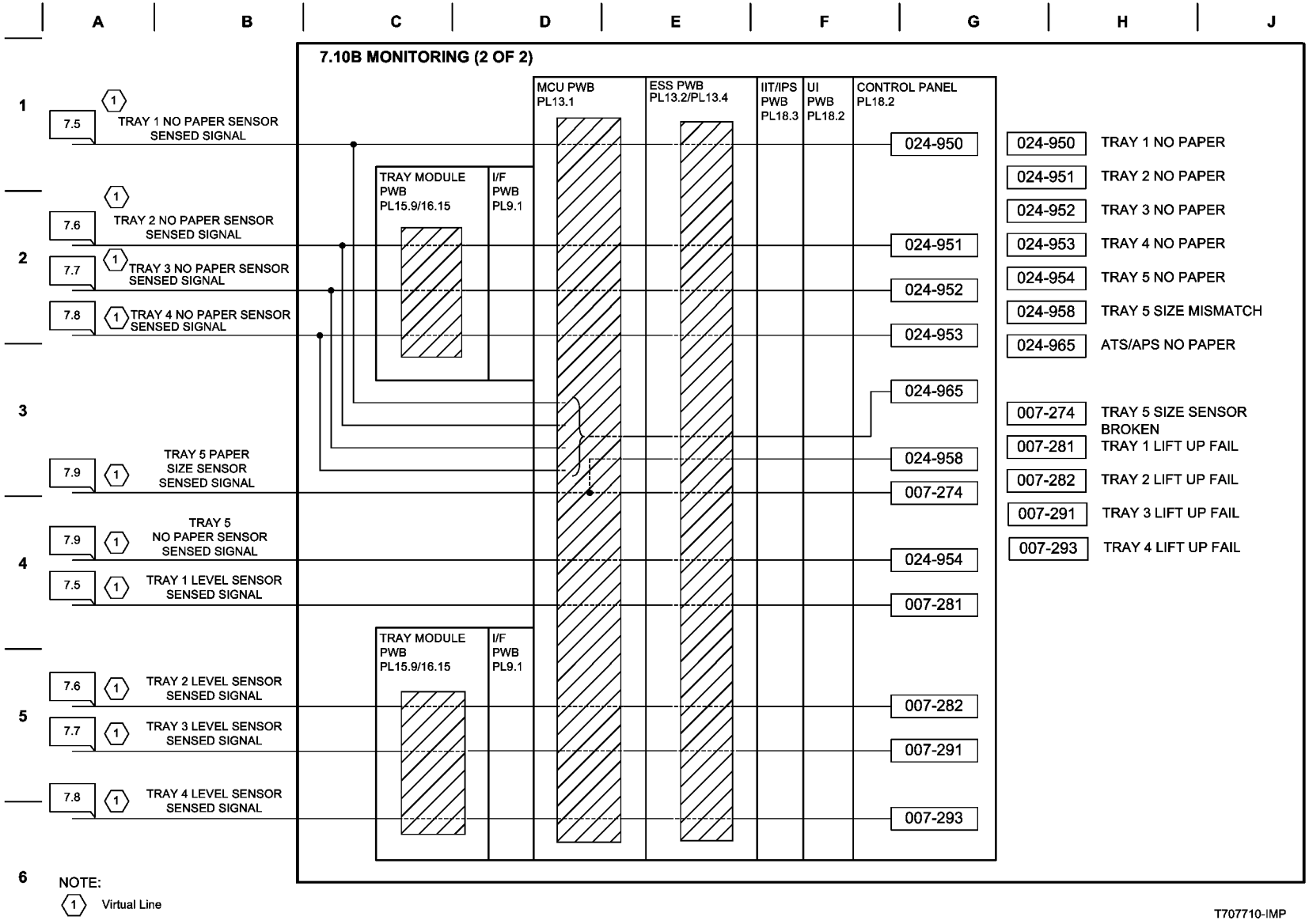


Figure 16 BSD 7.10B Monitor (2 of 2)

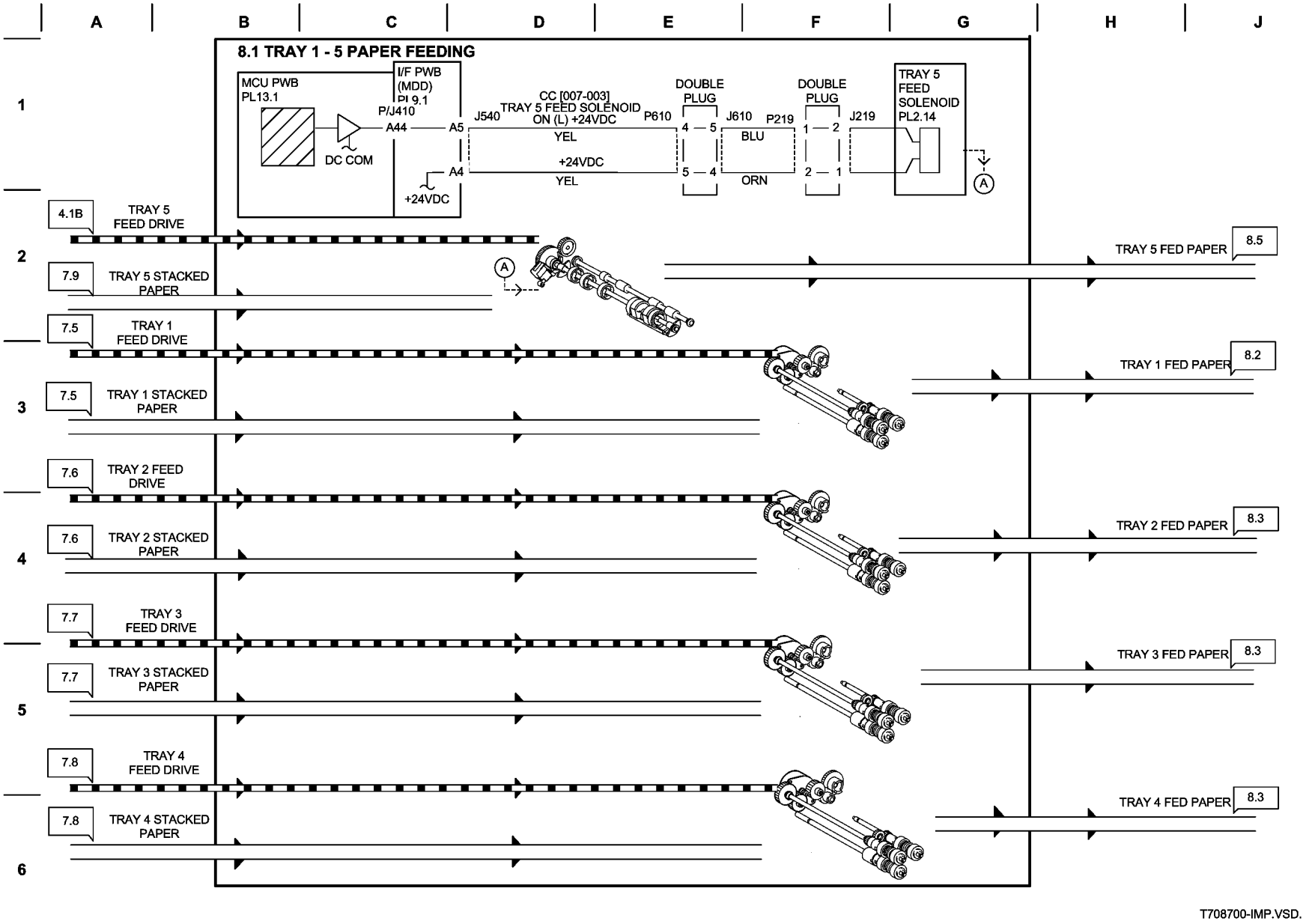
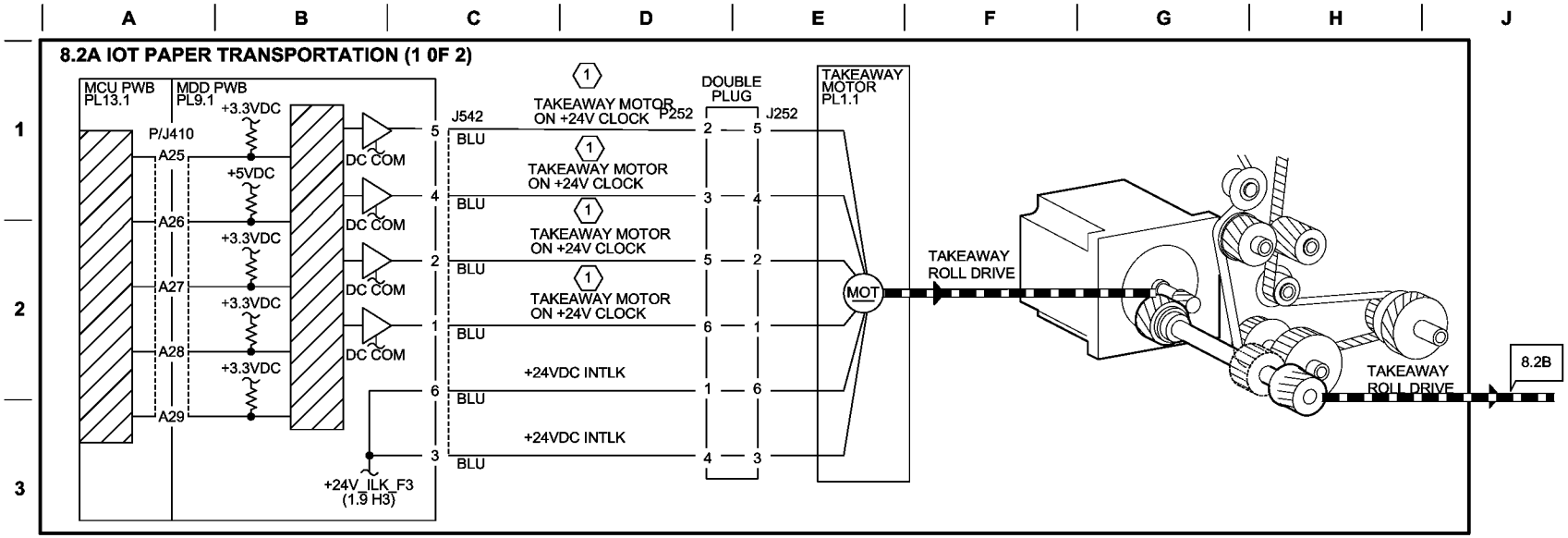


Figure 1 BSD 8.1 Tray 1 - 5 Paper Feeding



NOTE 1 : SPEED OF OPERATION AND DURATION VARY ACCORDING TO DIAGNOSTIC CODE.

Takeaway Motor	Speed	Duration
CC [008-093]	52mm/sec	1000ms
CC [008-091]	104mm/sec	1000ms
CC [008-089]	165mm/sec	1000ms
CC [008-087]	208mm/sec	1000ms
CC [008-077]	400mm/sec	1000ms
CC [008-085]	227mm/sec	1000ms
CC [008-083]	250mm/sec	1000ms
CC [008-081]	279mm/sec	1000ms
CC [008-079]	315mm/sec	1000ms
CC [008-094]	52mm/sec	Long
CC [008-092]	104mm/sec	Long
CC [008-090]	165mm/sec	Long
CC [008-088]	208mm/sec	Long
CC [008-078]	400mm/sec	Long
CC [008-086]	227mm/sec	Long
CC [008-084]	250mm/sec	Long
CC [008-082]	279mm/sec	Long
CC [008-080]	315mm/sec	Long

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Figure 2 BSD 8.2A IOT Paper Transportation (1 of 2)

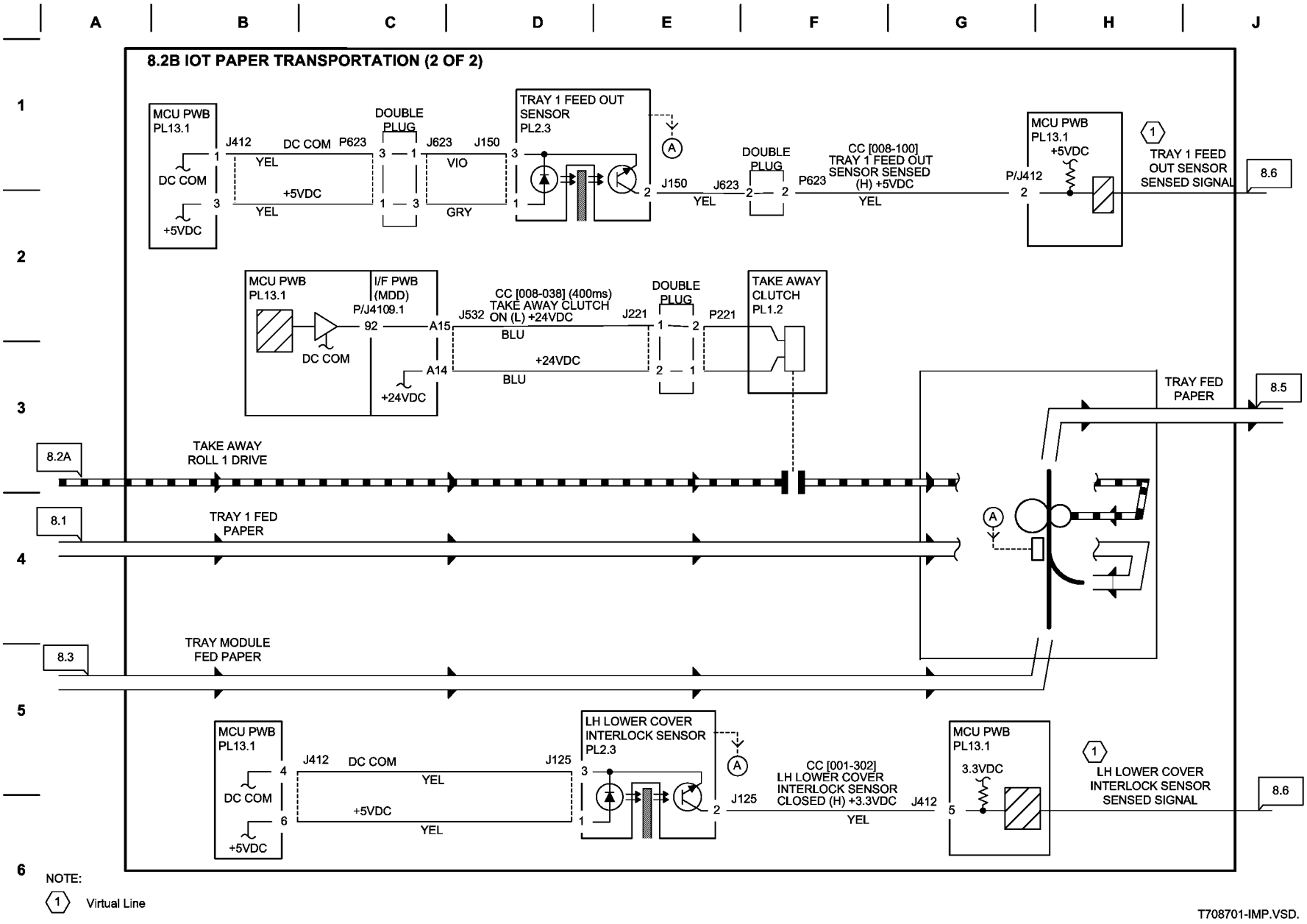


Figure 3 BSD 8.2B IOT Paper Transportation (2 of 2)

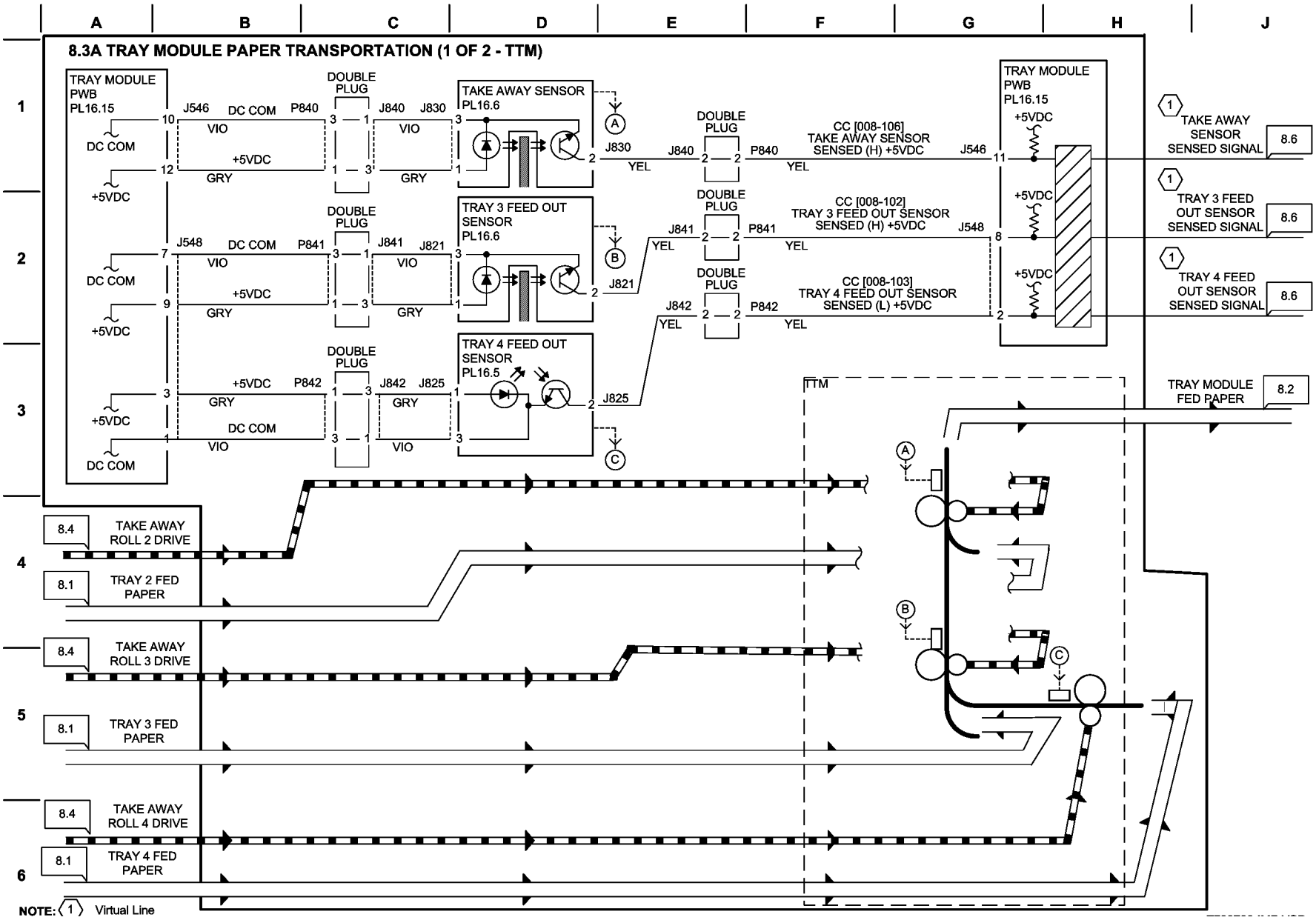


Figure 4 BSD 8.3A TTM Paper Transportation

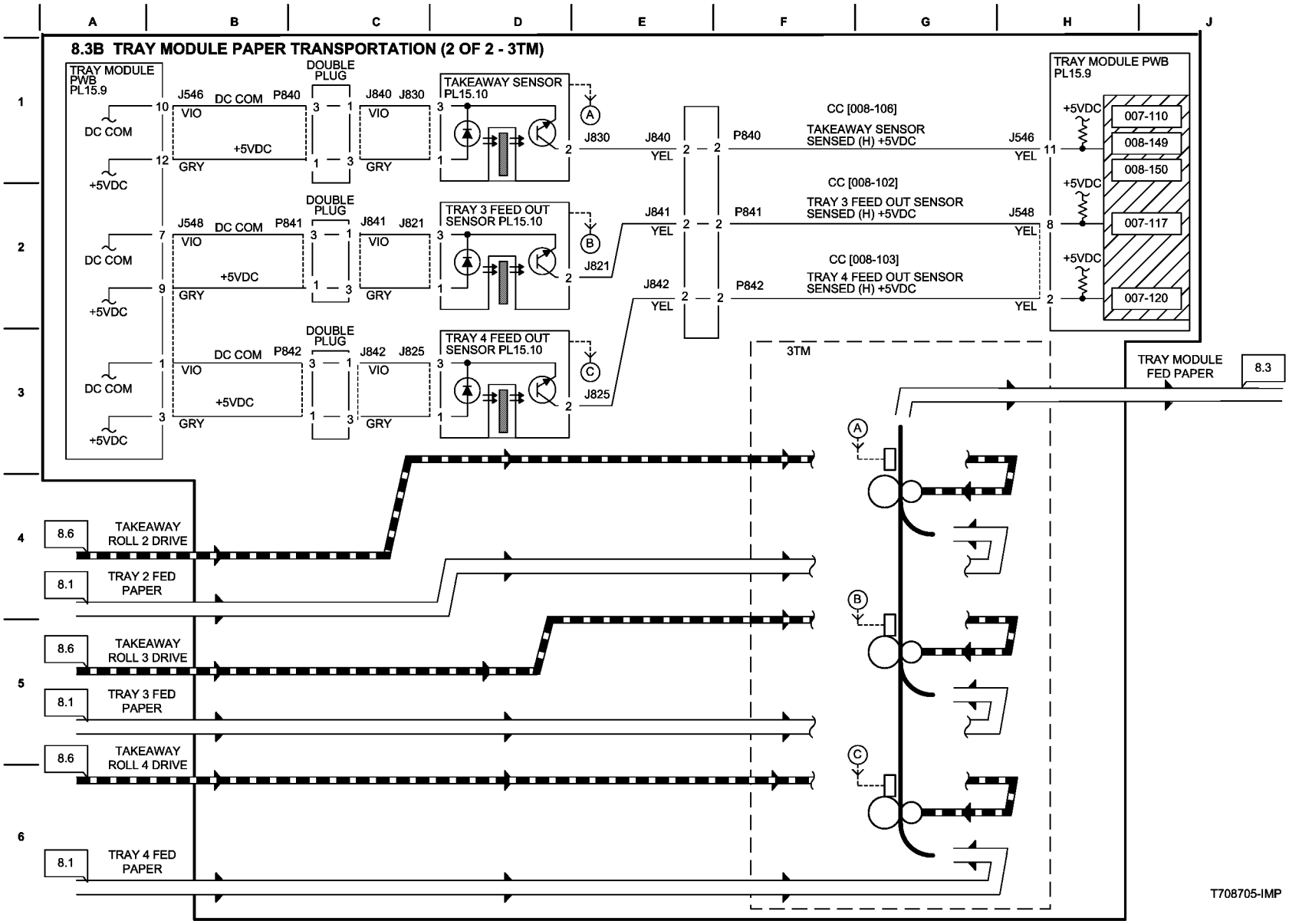
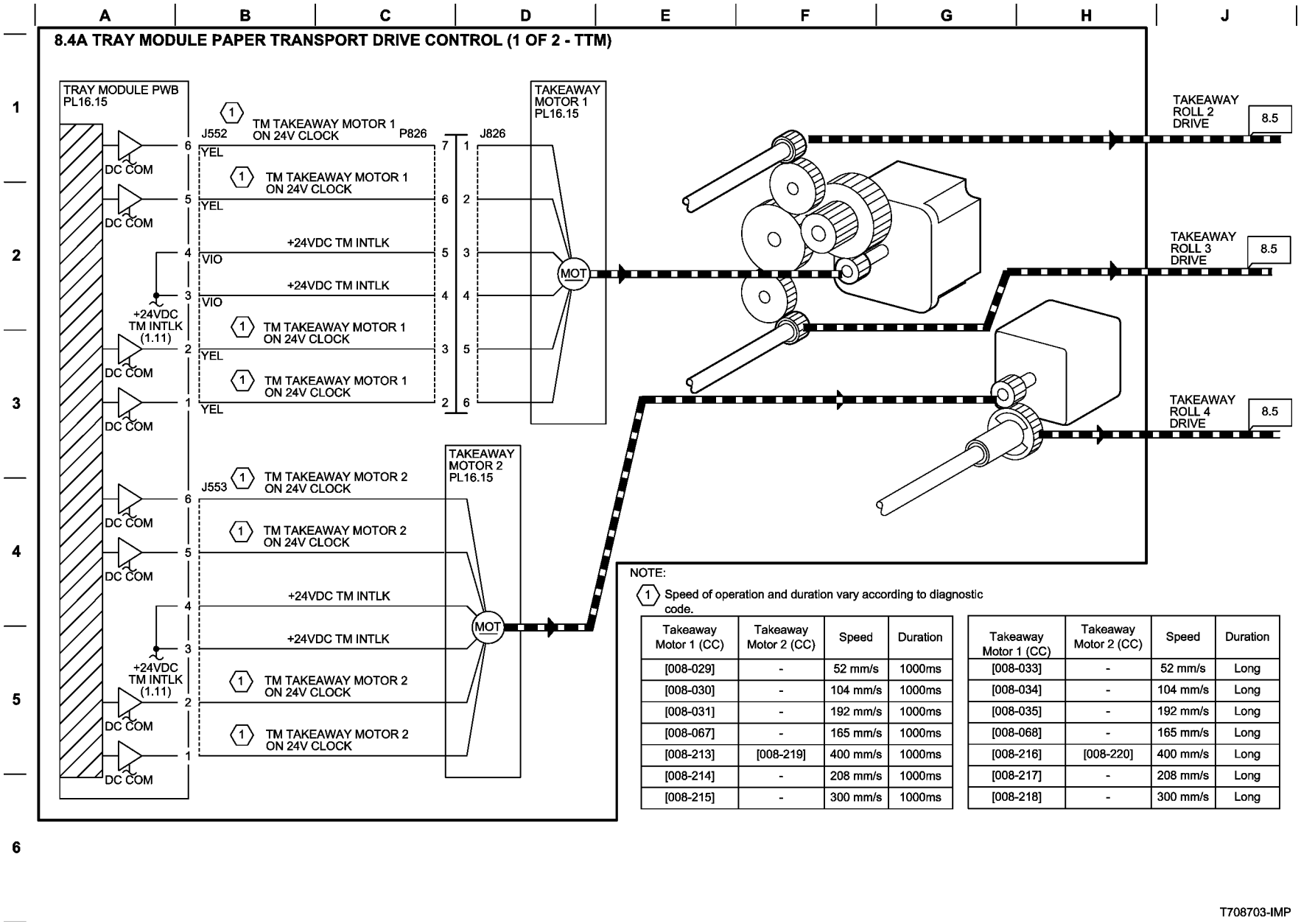


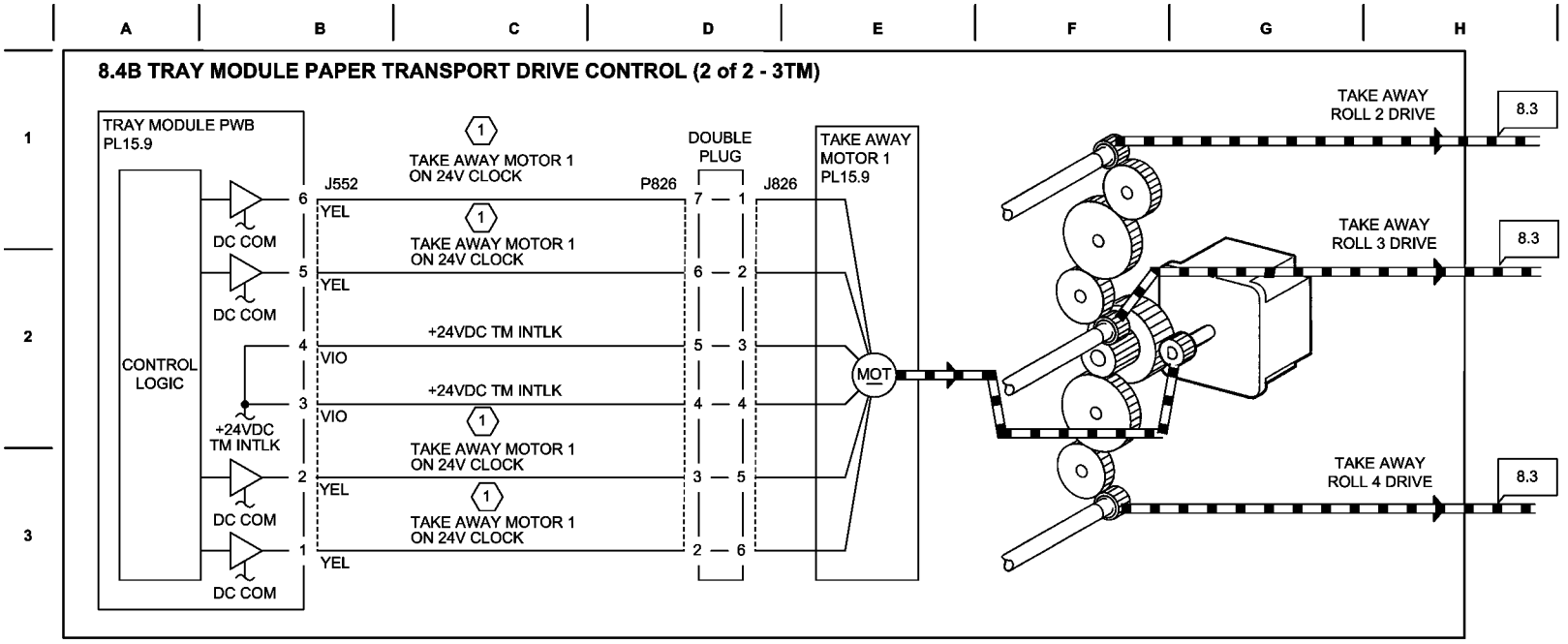
Figure 5 BSD 8.3B 3TM Paper Transportation



Takeaway Motor 1 (CC)	Takeaway Motor 2 (CC)	Speed	Duration
[008-029]	-	52 mm/s	1000ms
[008-030]	-	104 mm/s	1000ms
[008-031]	-	192 mm/s	1000ms
[008-067]	-	165 mm/s	1000ms
[008-213]	[008-219]	400 mm/s	1000ms
[008-214]	-	208 mm/s	1000ms
[008-215]	-	300 mm/s	1000ms

Takeaway Motor 1 (CC)	Takeaway Motor 2 (CC)	Speed	Duration
[008-033]	-	52 mm/s	Long
[008-034]	-	104 mm/s	Long
[008-035]	-	192 mm/s	Long
[008-068]	-	165 mm/s	Long
[008-216]	[008-220]	400 mm/s	Long
[008-217]	-	208 mm/s	Long
[008-218]	-	300 mm/s	Long

Figure 6 BSD 8.4A TTM Paper Transport Drive



NOTE:

(1) Operation speed and duration vary according to Diag. code.

TM Takeaway Motor 1	Speed	Duration
CC [008-021]	52mm/sec	1000ms
CC [008-022]	104mm/sec	1000ms
CC [008-023]	192mm/sec	1000ms
CC [008-065]	165mm/sec	1000ms
CC [008-207]	400mm/sec	1000ms
CC [008-208]	208mm/sec	1000ms
CC [008-209]	300mm/sec	1000ms
CC [008-025	52mm/sec	Long
CC [008-026]	104mm/sec	Long
CC [008-027	192mm/sec	Long
CC [008-066]	165mm/sec	Long
CC [008-210]	400mm/sec	Long
CC [008-211]	208mm/sec	Long
CC [008-212]	300mm/sec	Long

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Figure 7 BSD 8.4B 3TM Paper Transport Drive

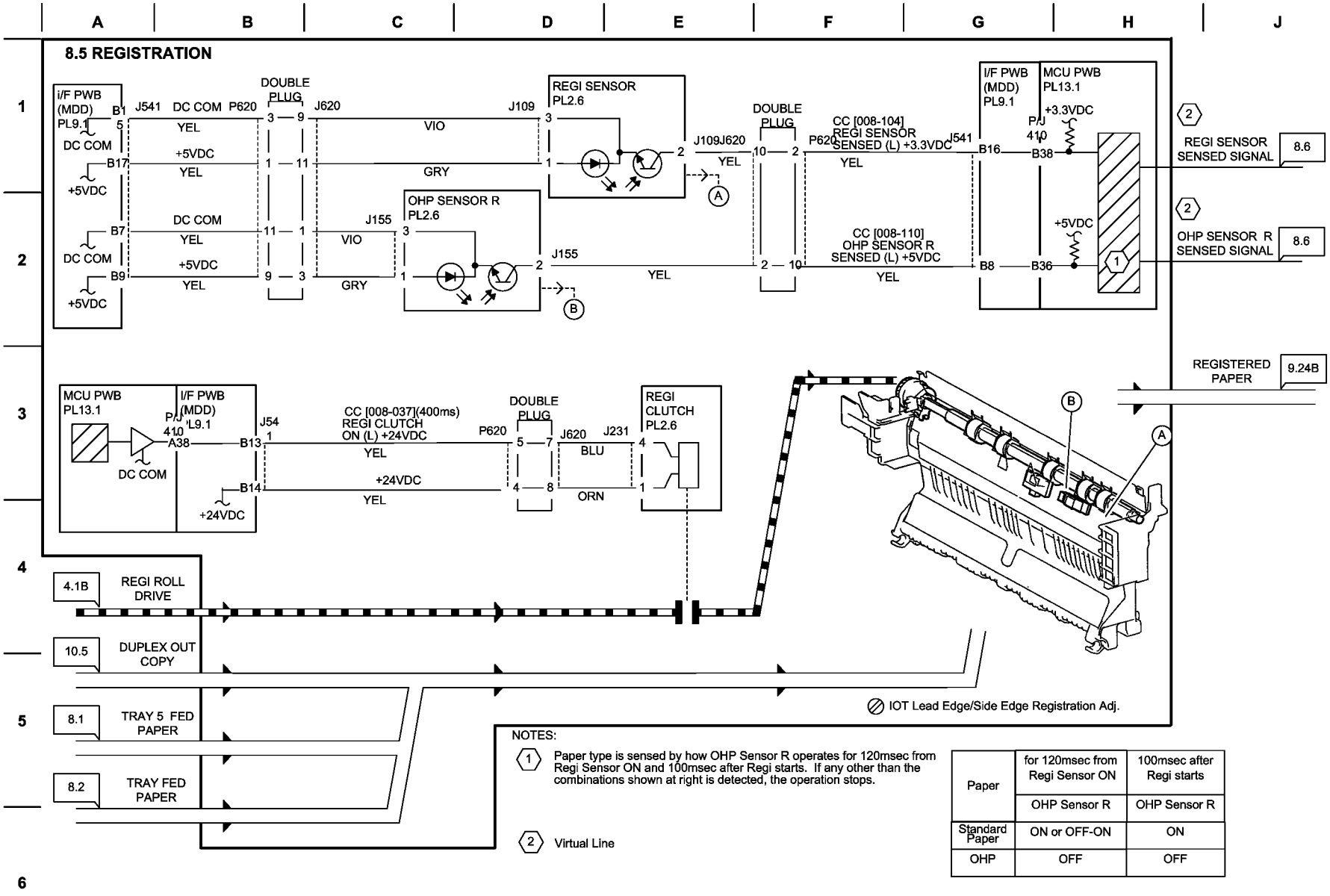


Figure 8 BSD 8.5 Registration

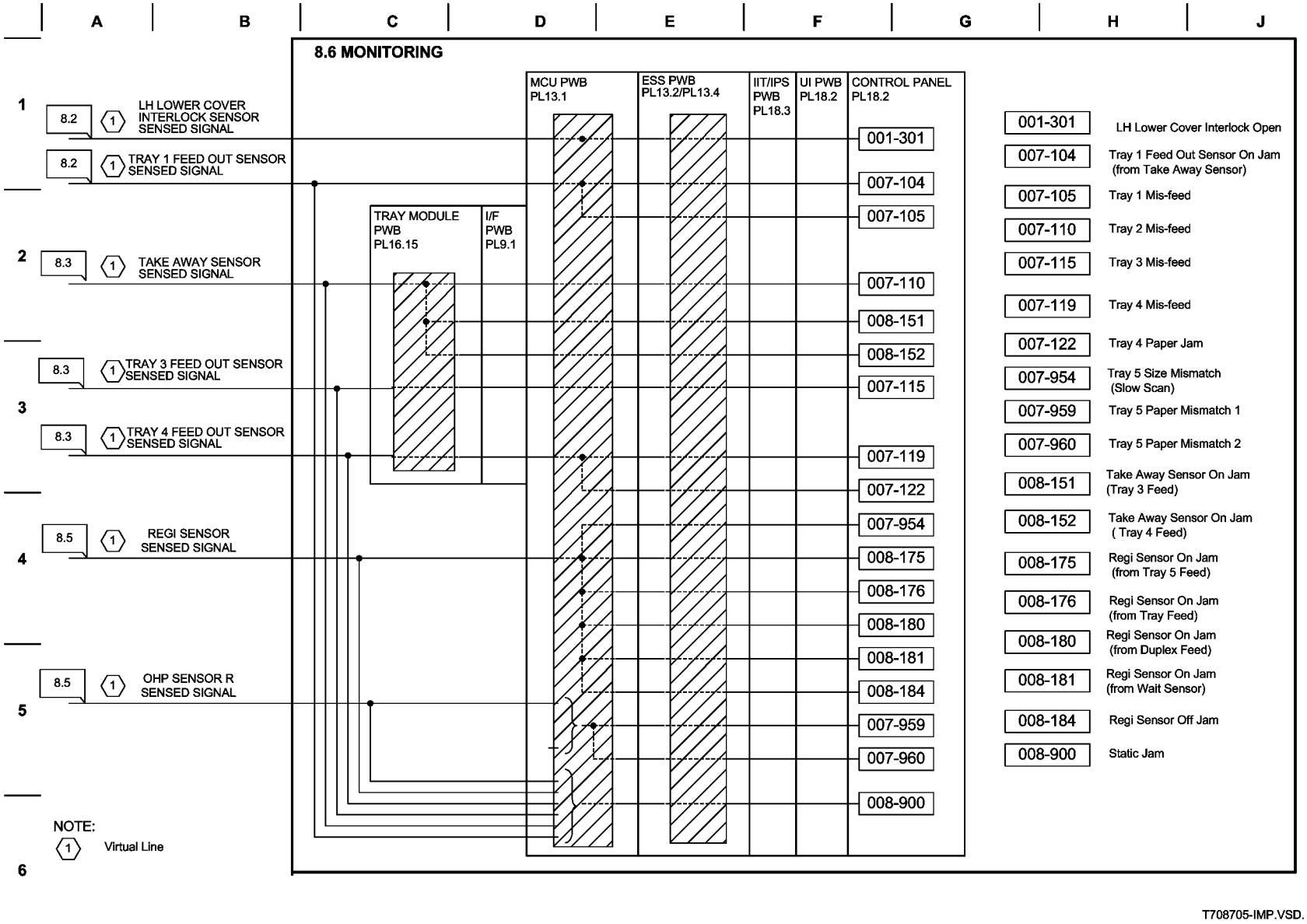


Figure 9 BSD 8.6 Chain 06 Monitoring

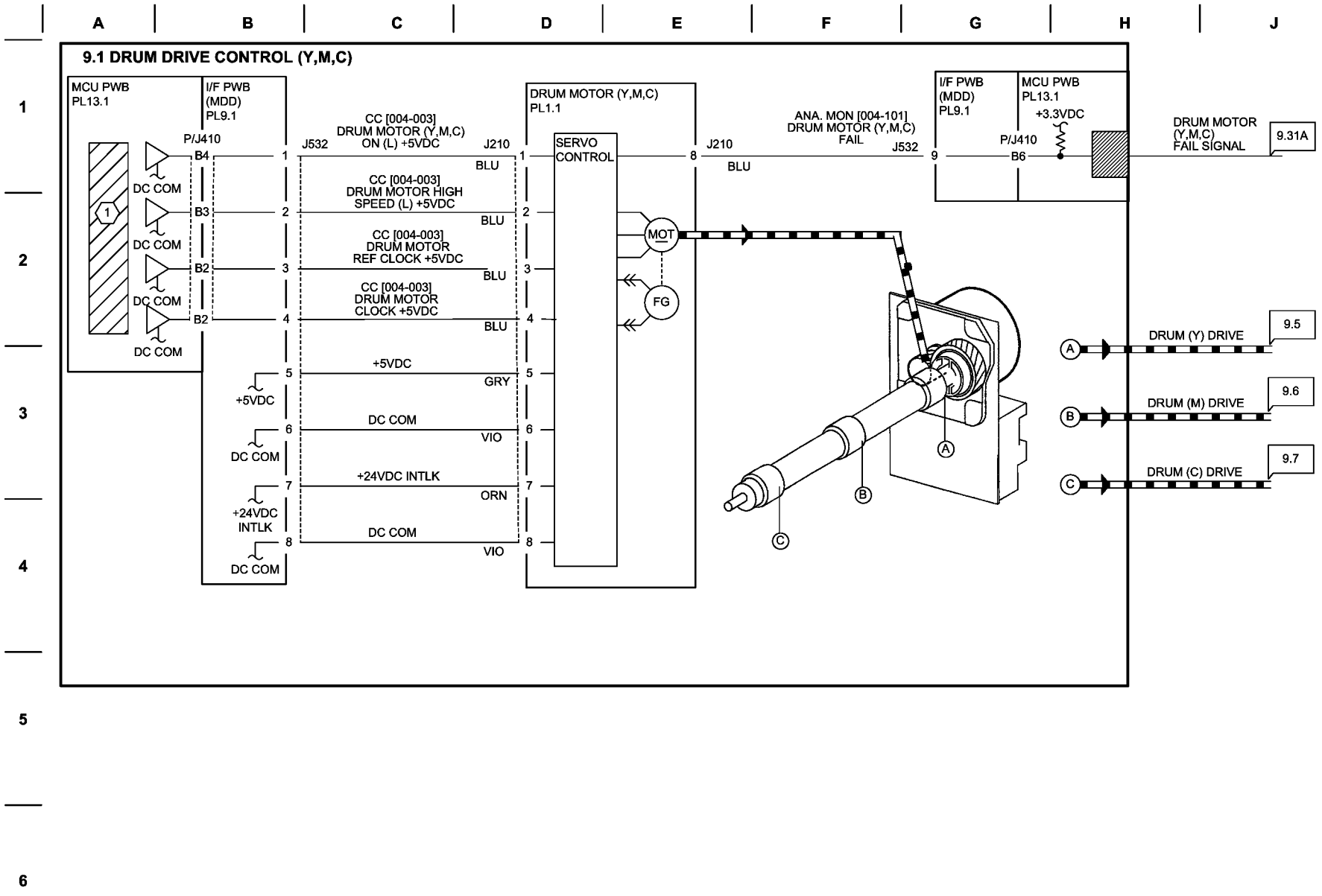
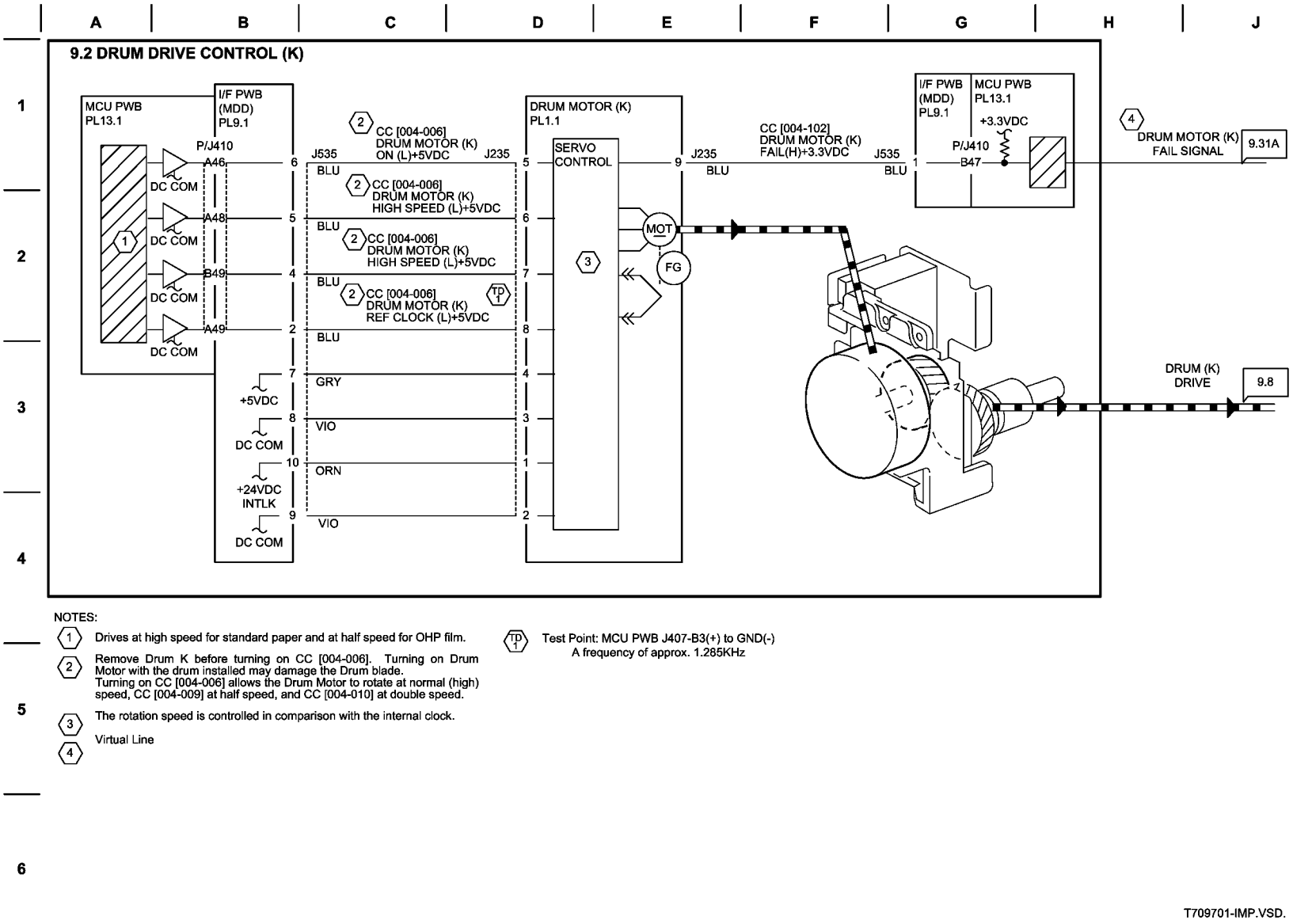


Figure 1 BSD 9.1 Drum Drive (Y, M, C)



NOTES:

1. Drives at high speed for standard paper and at half speed for OHP film.
2. Remove Drum K before turning on CC [004-006]. Turning on Drum Motor with the drum installed may damage the Drum blade. Turning on CC [004-006] allows the Drum Motor to rotate at normal (high) speed, CC [004-009] at half speed, and CC [004-010] at double speed.
3. The rotation speed is controlled in comparison with the internal clock.
4. Virtual Line

TP1 Test Point: MCU PWB J407-B3(+) to GND(-) A frequency of approx. 1.285KHz

Figure 2 BSD 9.1 Drum Drive (K)

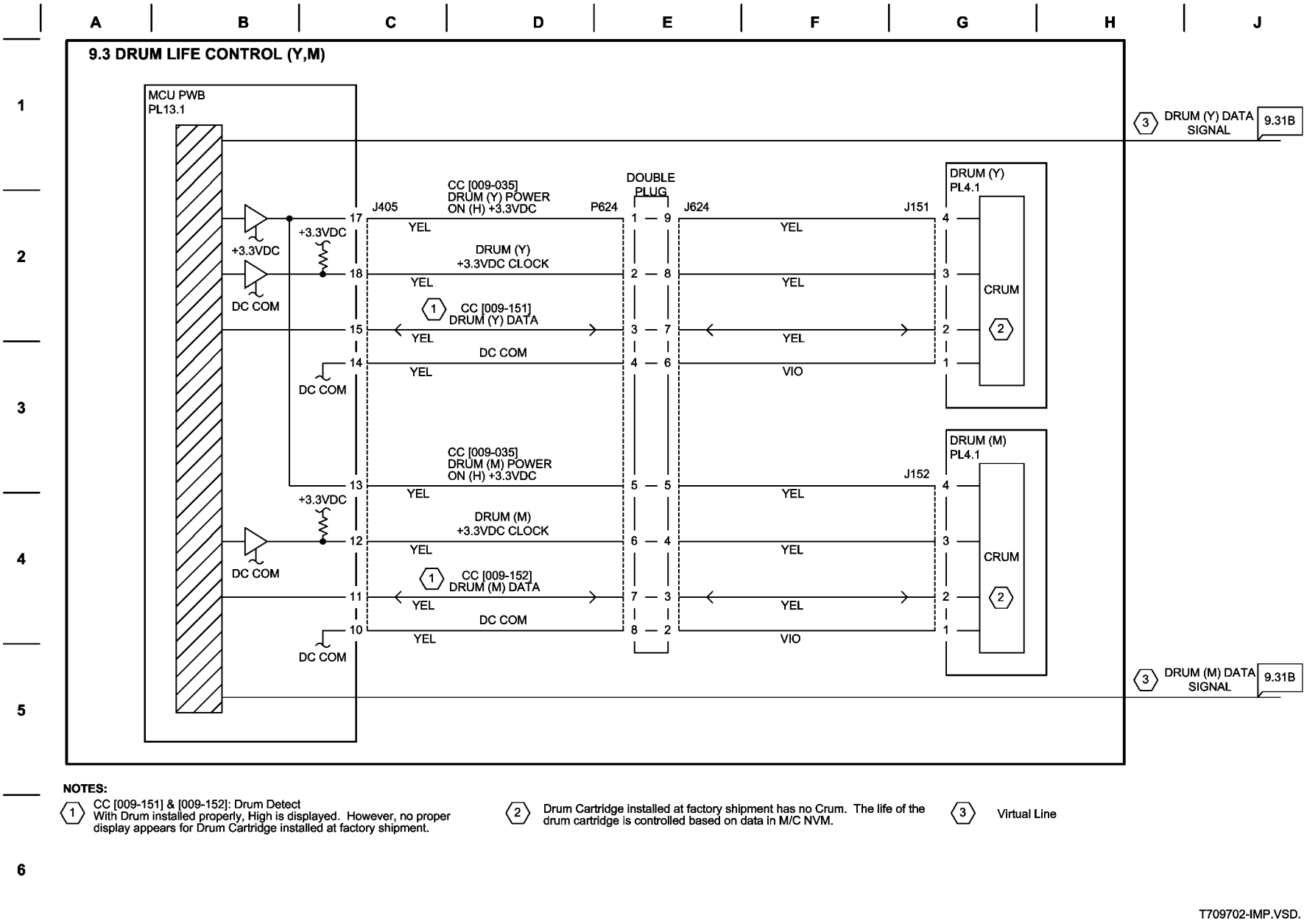


Figure 3 BSD 9.3 Drum Life (Y, M)

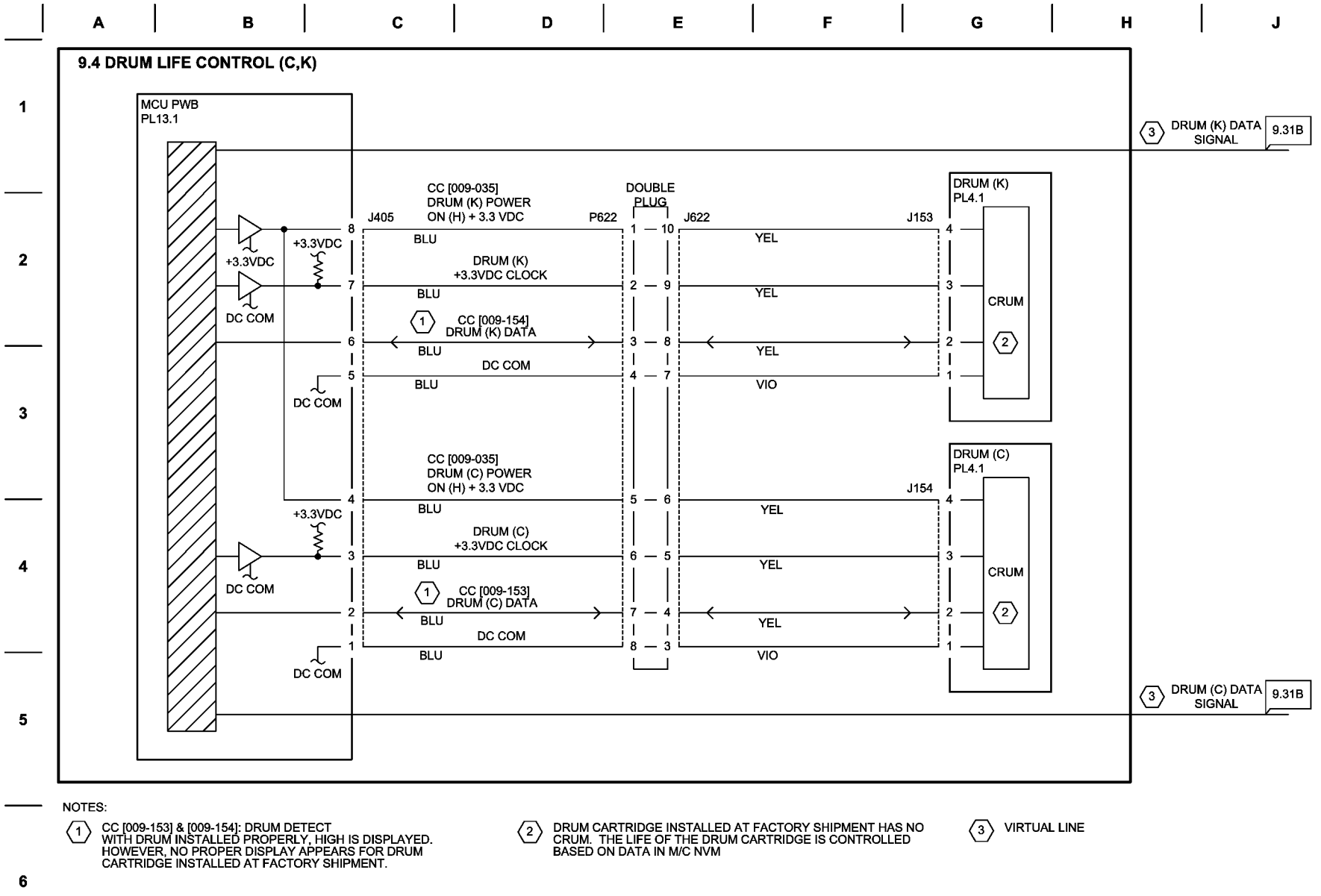


Figure 4 BSD 9.3 Drum Life (C, K)

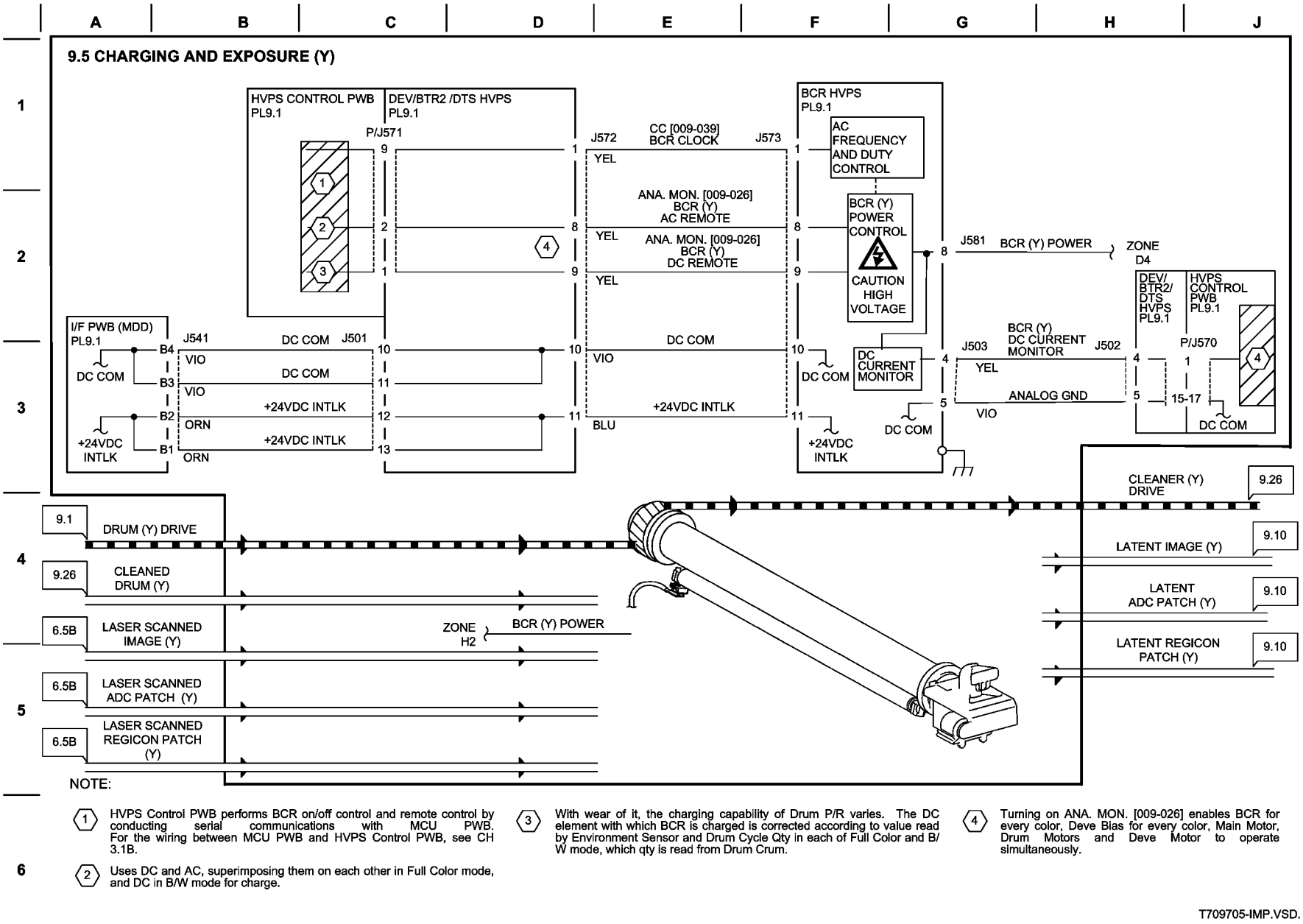
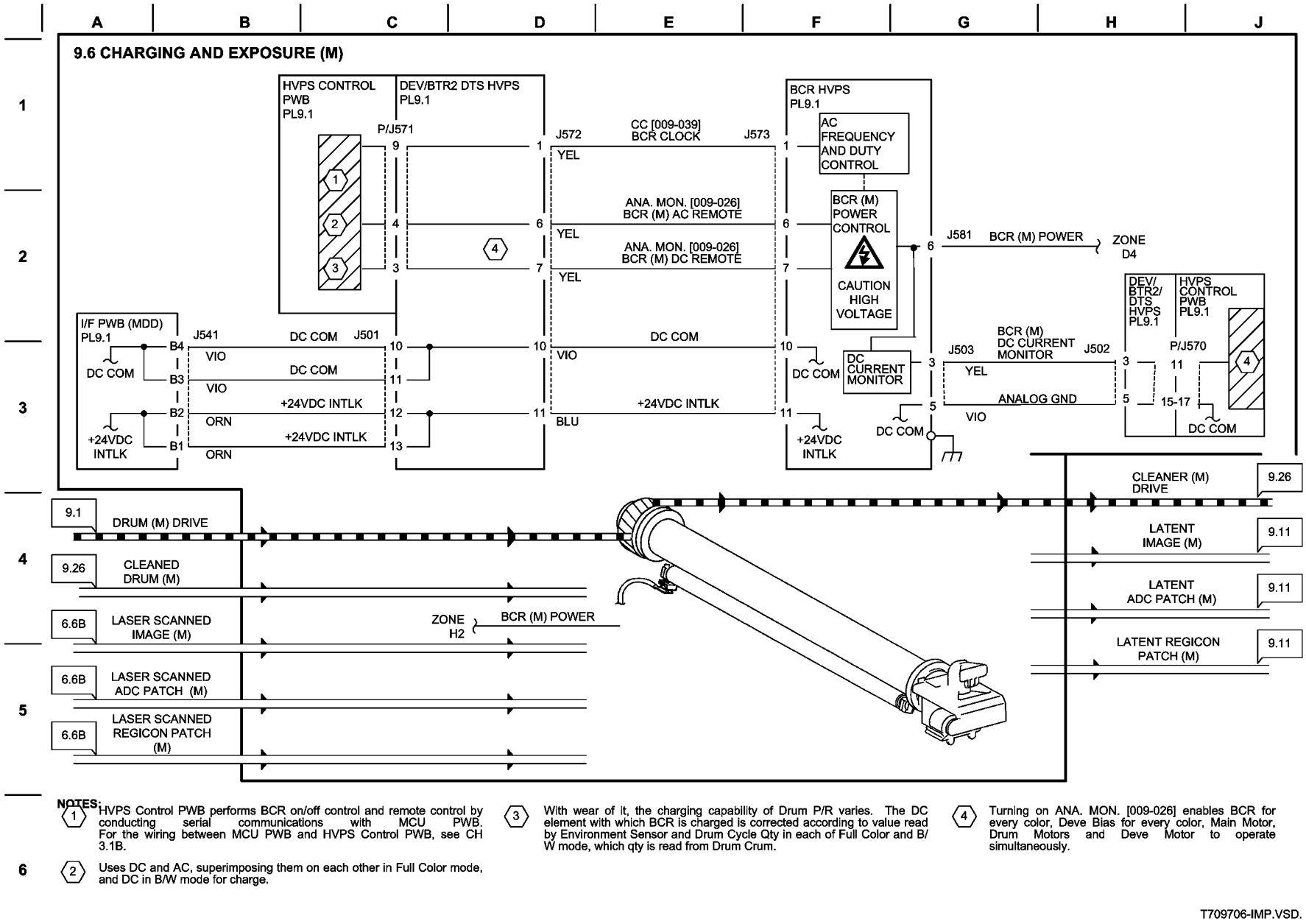


Figure 5 BSD 9.5 Charging and Exposure (Y)



NOTES:

1. HVPS Control PWB performs BCR on/off control and remote control by conducting serial communications with MCU PWB. For the wiring between MCU PWB and HVPS Control PWB, see CH 3.1B.
2. Uses DC and AC, superimposing them on each other in Full Color mode, and DC in B/W mode for charge.
3. With wear of it, the charging capability of Drum P/R varies. The DC element with which BCR is charged is corrected according to value read by Environment Sensor and Drum Cycle Qty in each of Full Color and B/W mode, which qty is read from Drum Crum.
4. Turning on ANA. MON. [009-026] enables BCR for every color, Deve Bias for every color, Main Motor, Drum Motors and Deve Motor to operate simultaneously.

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Figure 6 BSD 9.6 Charging and Exposure (M)

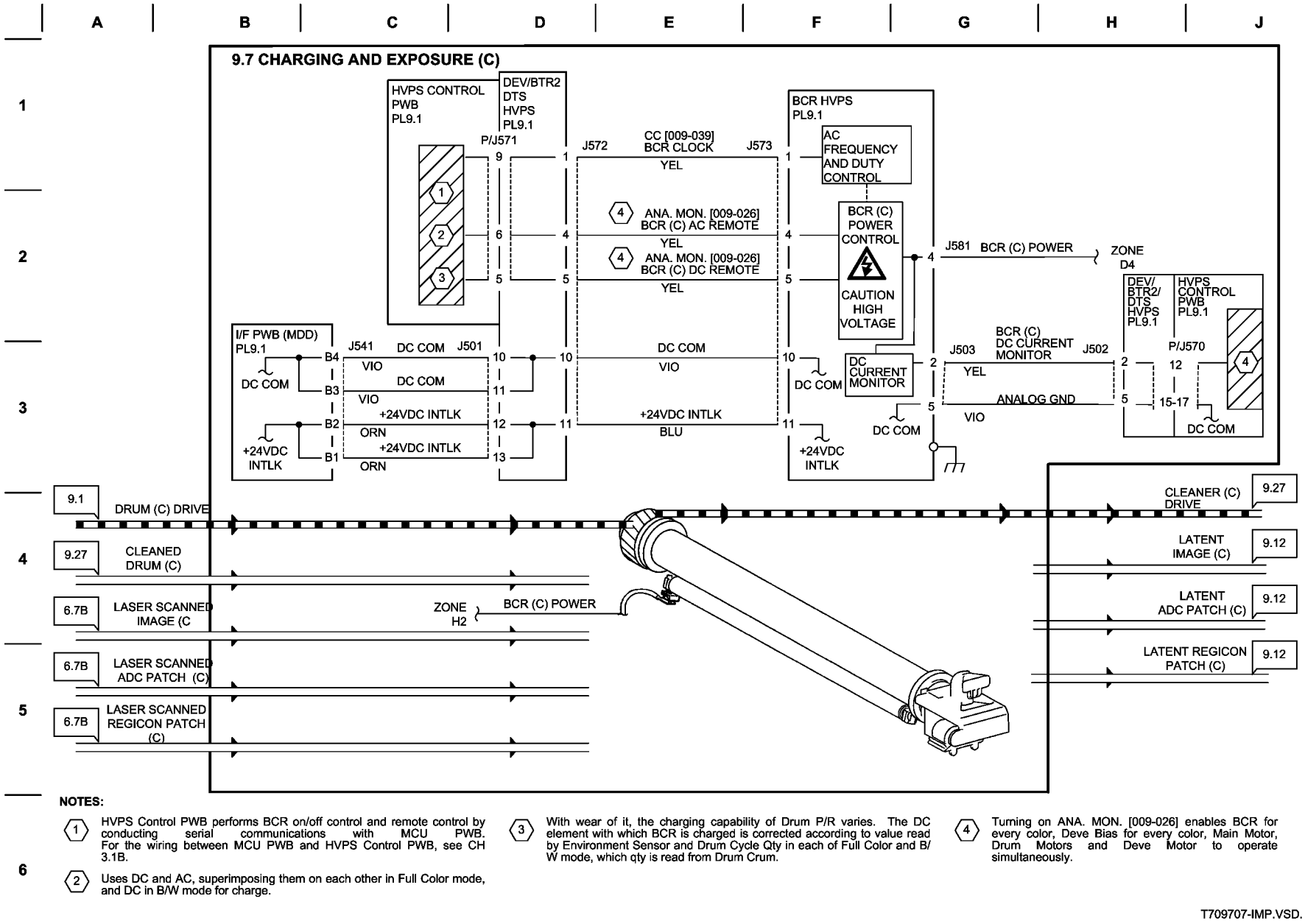


Figure 7 BSD 9.7 Charging and Exposure (C)

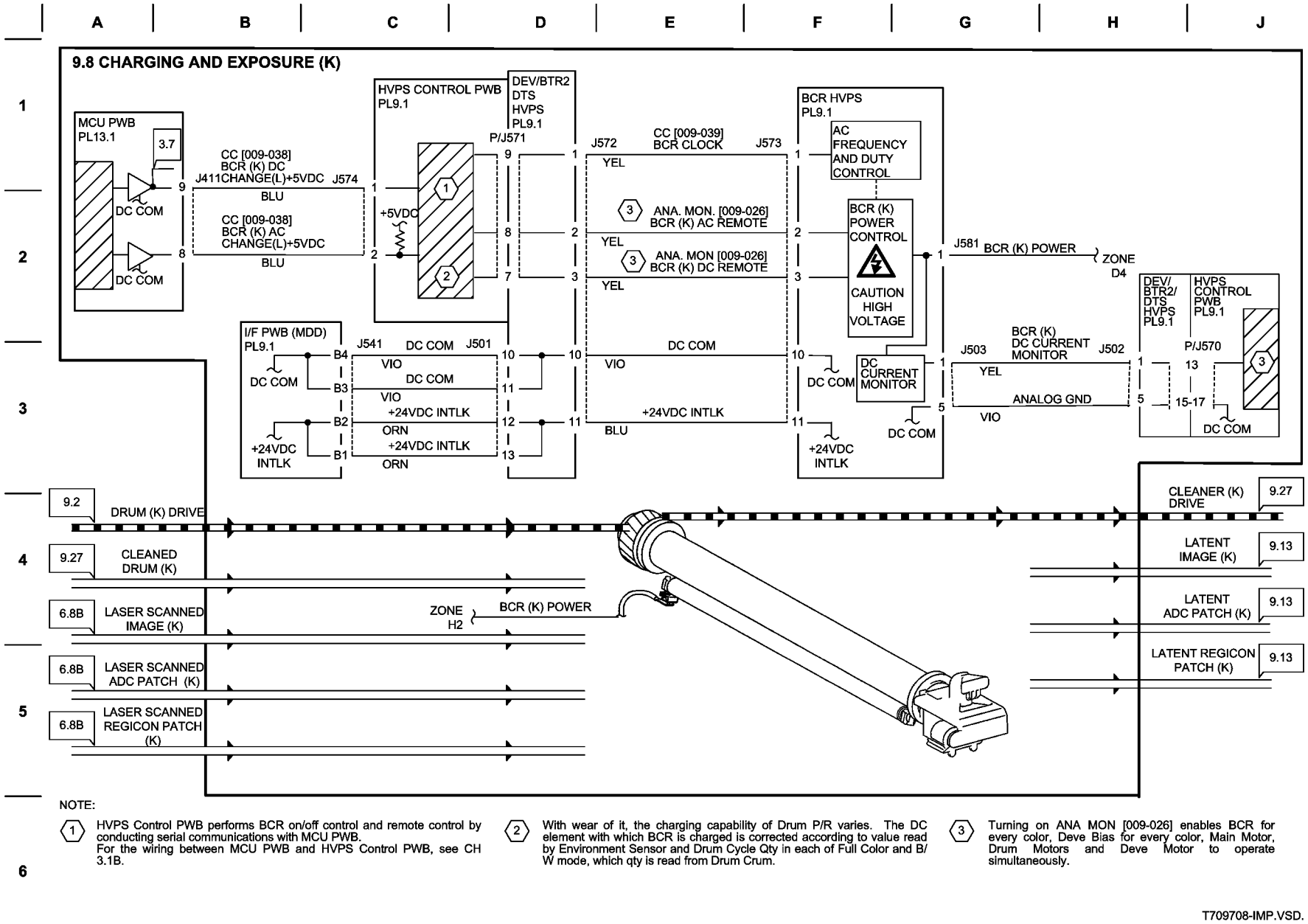
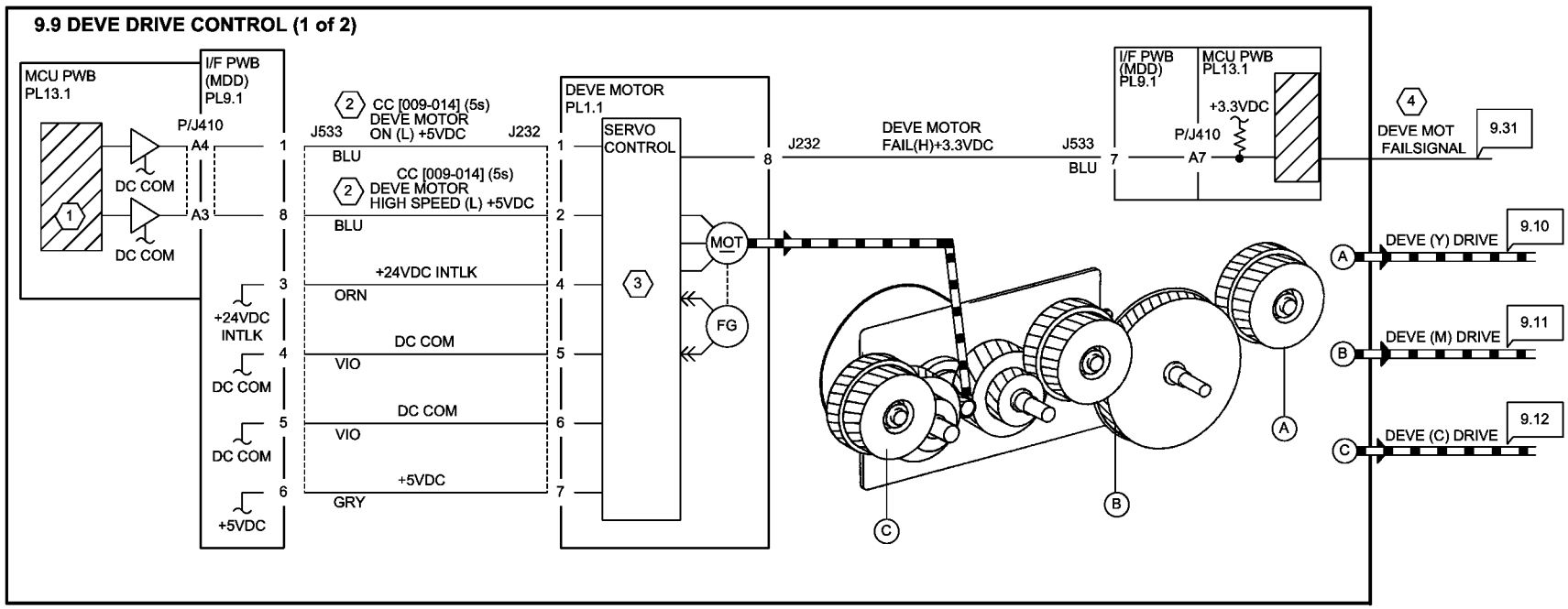


Figure 8 BSD 9.8 Charging and Exposure (K)



NOTES:

1. Drives at high speed for standard paper and at half speed for thick paper and OHP film.
2. Turning on CC [009-014] allows Deve Motor to rotate at normal (high) speed and CC [009-016] at half speed.
3. The rotation speed is controlled compared with the internal clock.
4. Virtual line

T709709-IMP.VSD.

Figure 9 BSD 9.9 Deve Drive

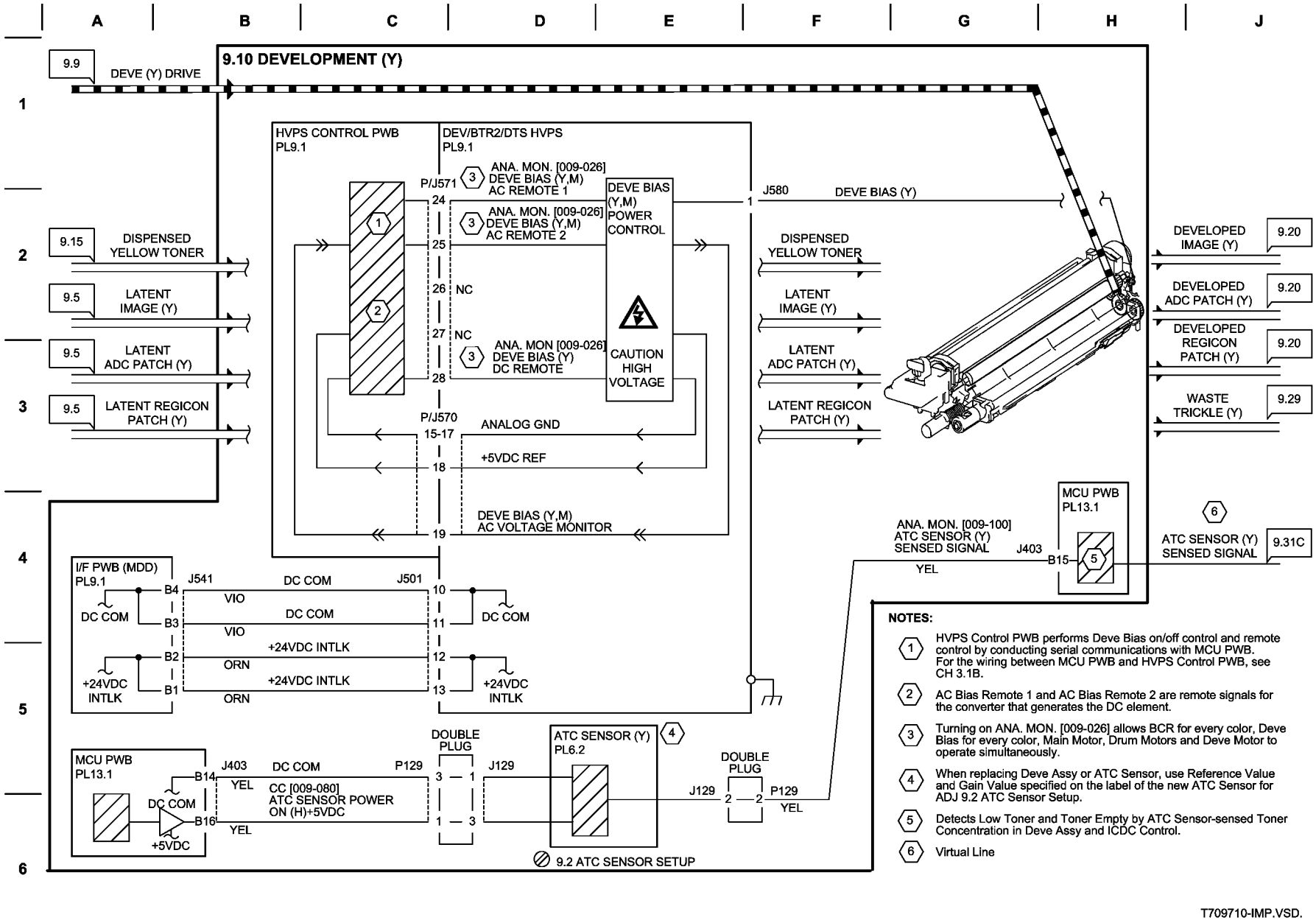


Figure 10 BSD 9.10 Development (Y)

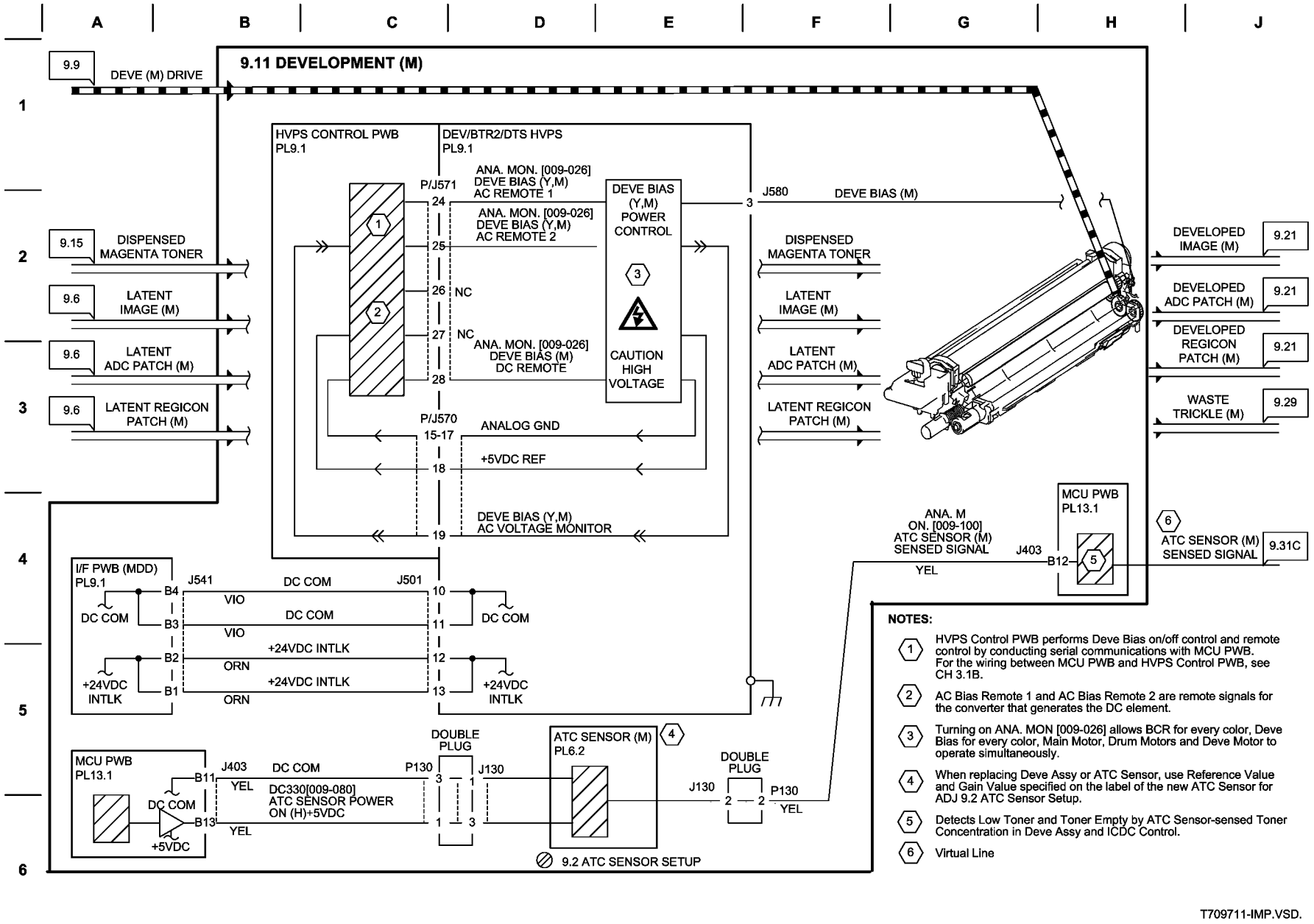


Figure 11 BSD 9.11 Development (M)

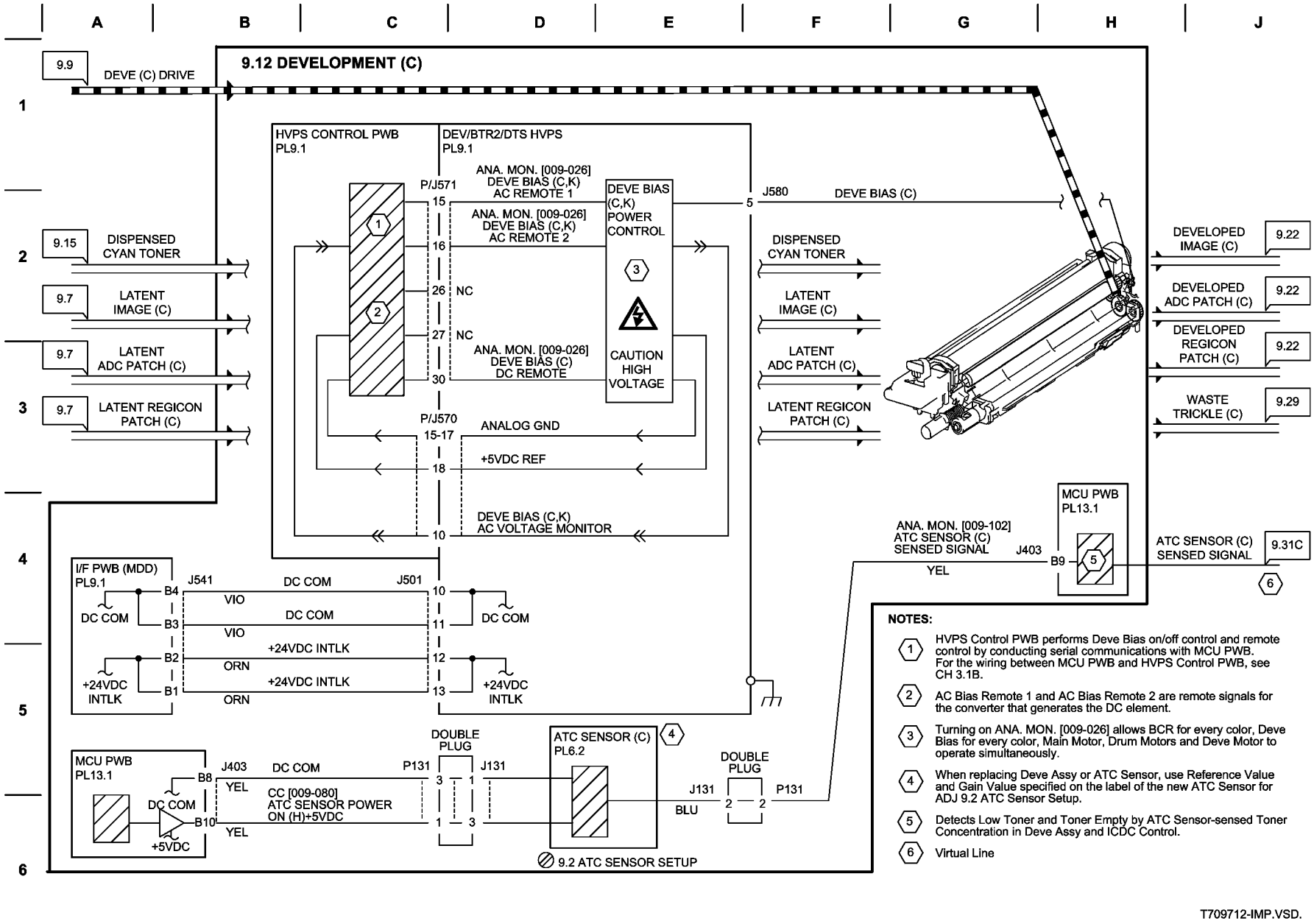


Figure 12 BSD 9.12 Development (C)

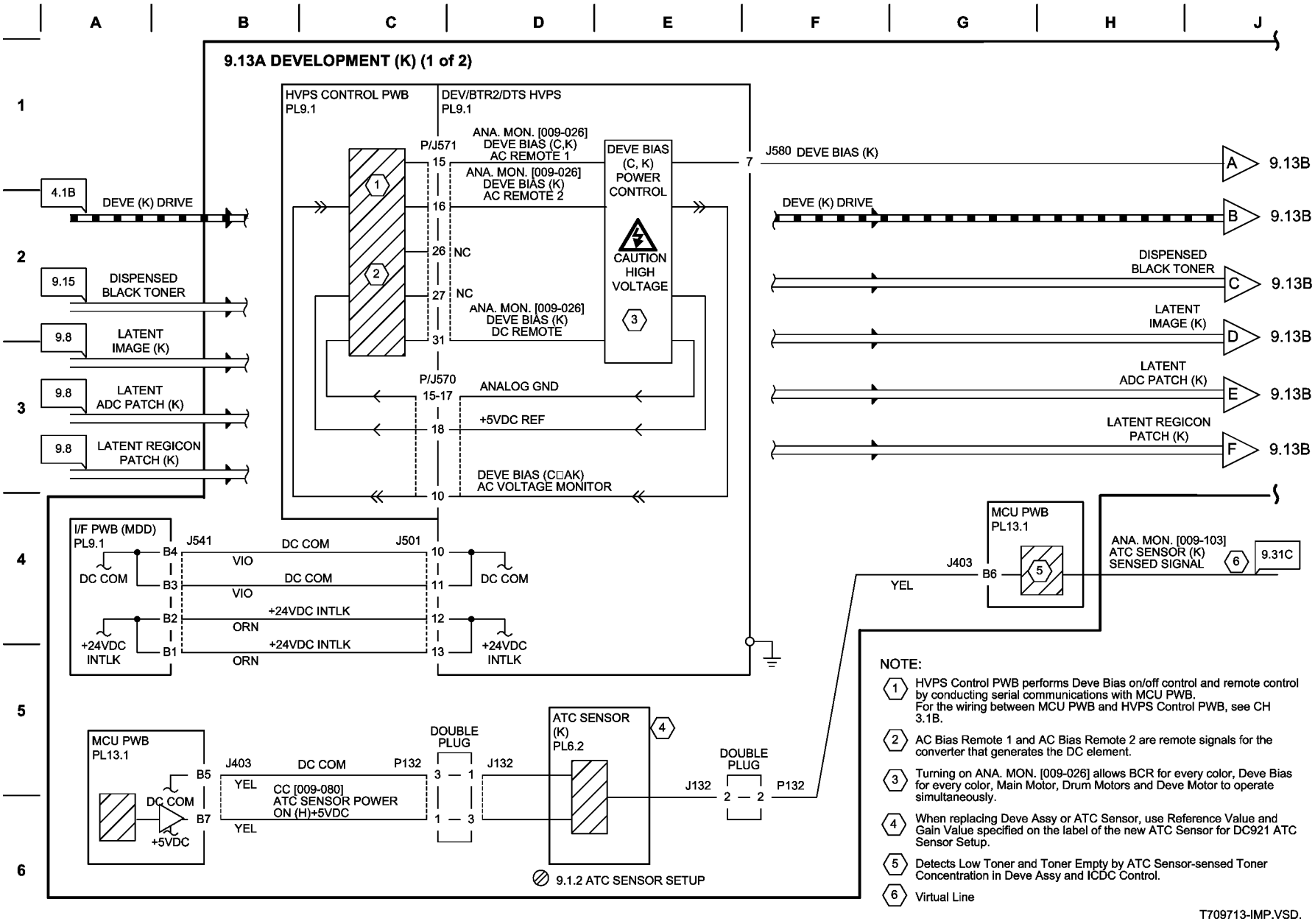


Figure 13 BSD 9.13A Development (K) (1 of 2)

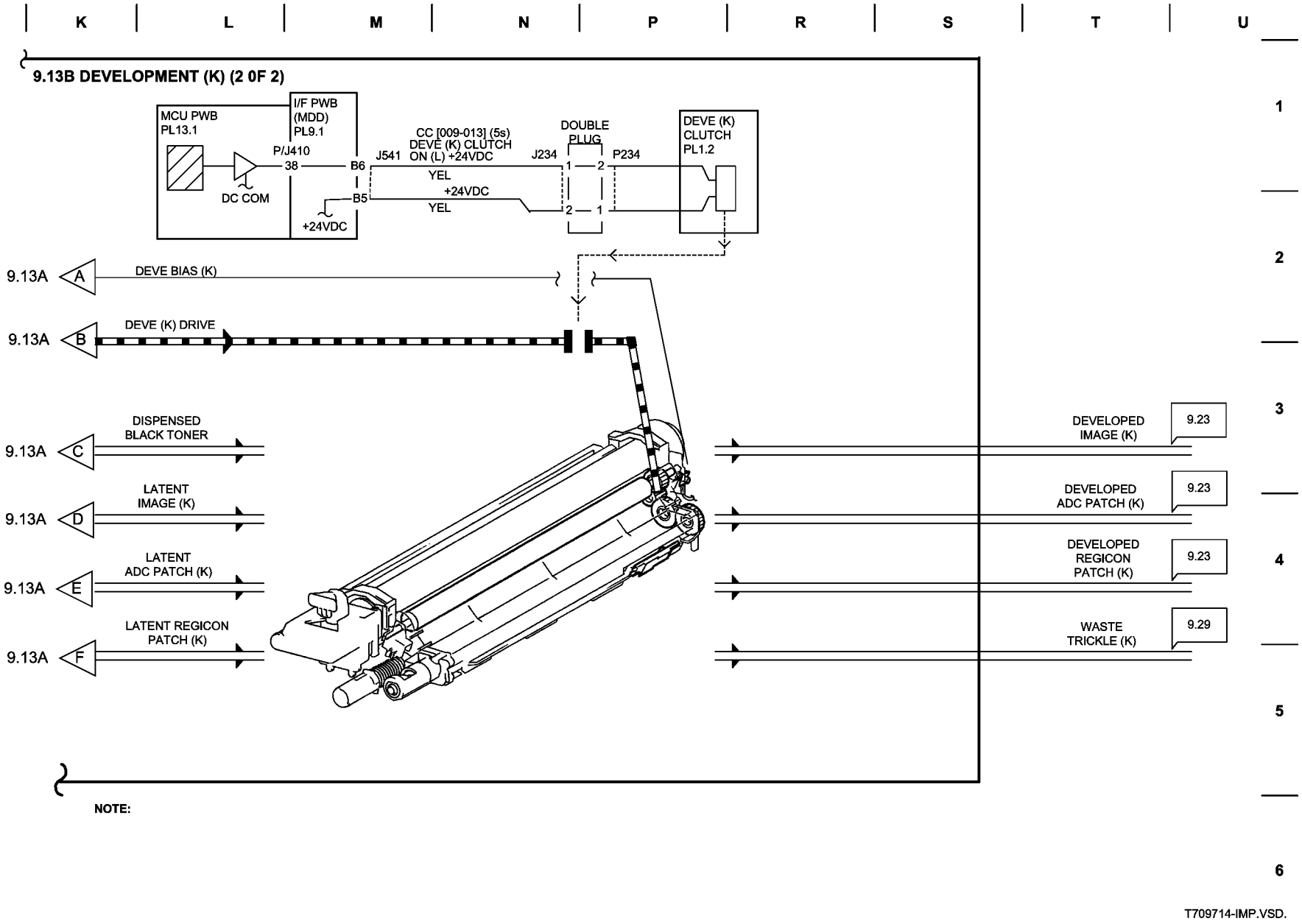


Figure 14 BSD 9.13B Development (K) (2 of 2)

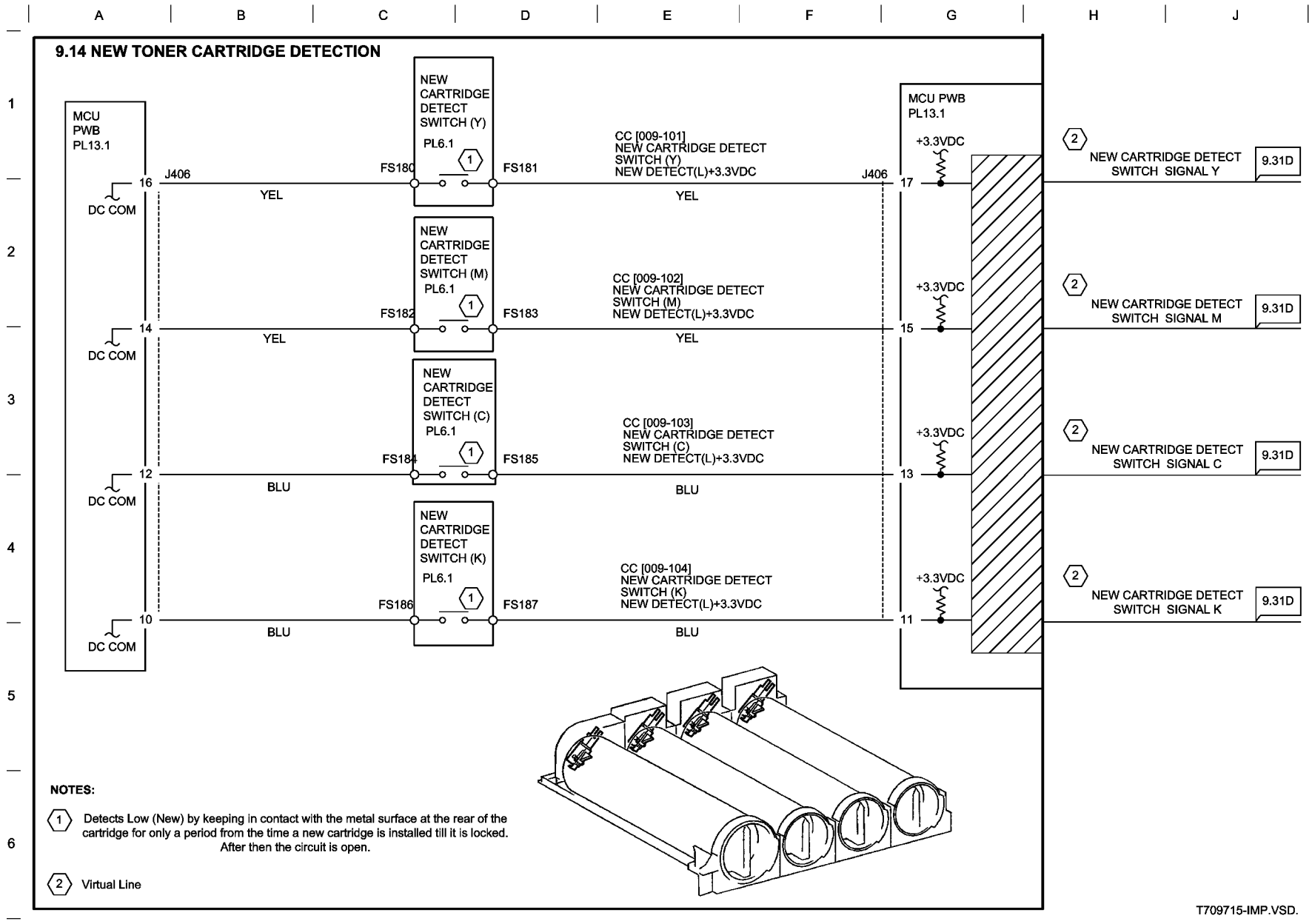


Figure 15 BSD 9.14 New Toner Cartridge Detection

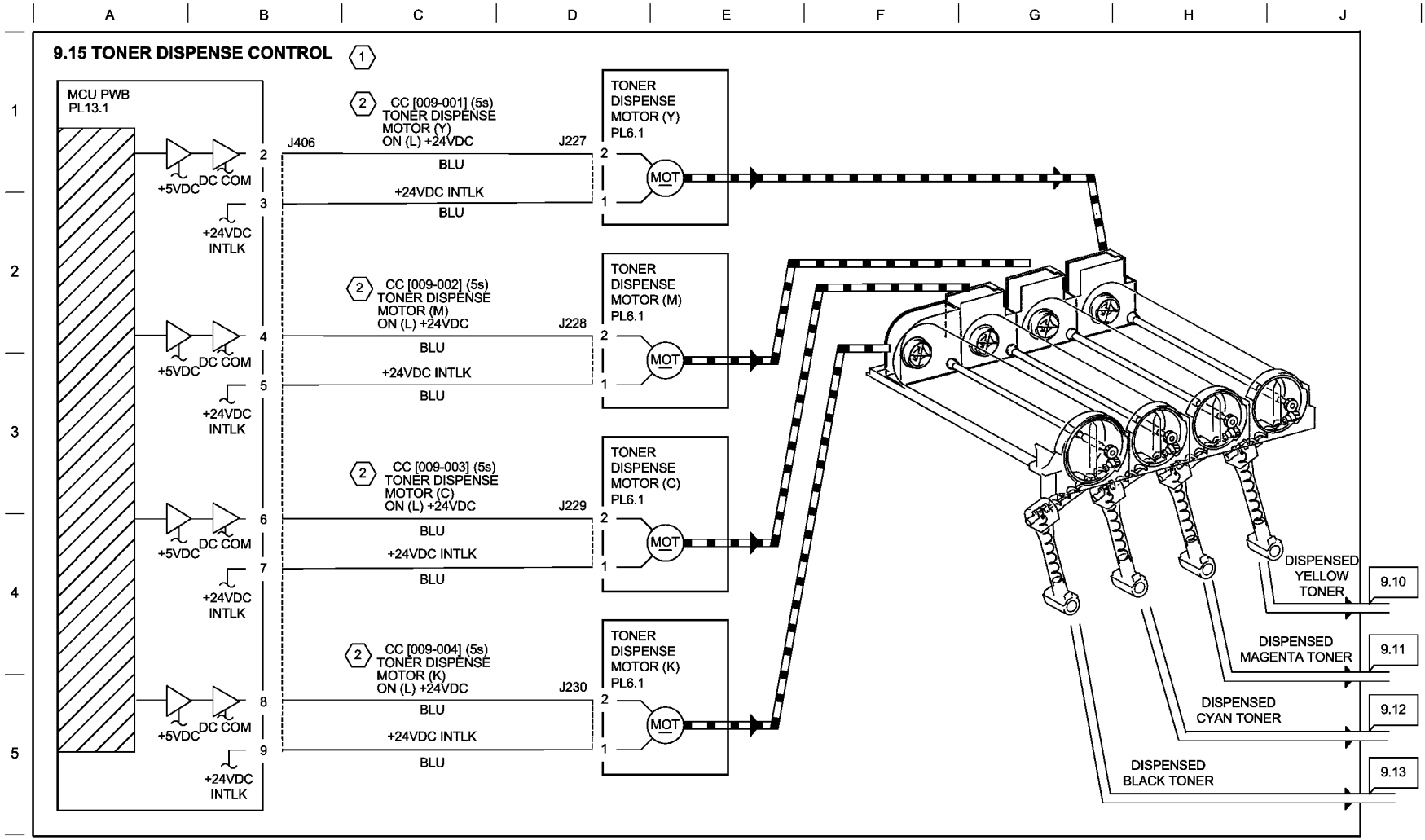


Figure 16 BSD 9.15 Toner Dispense Control

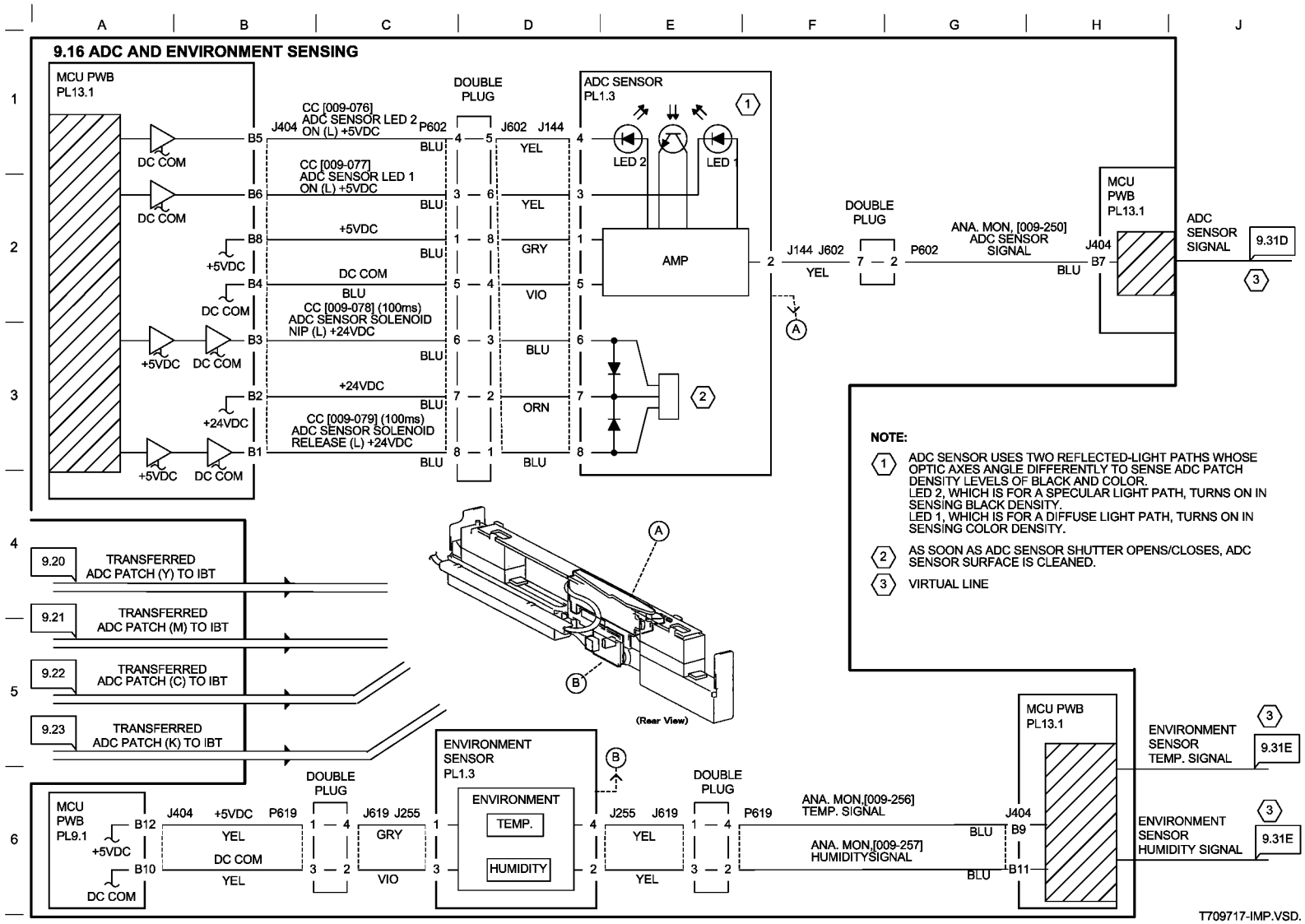
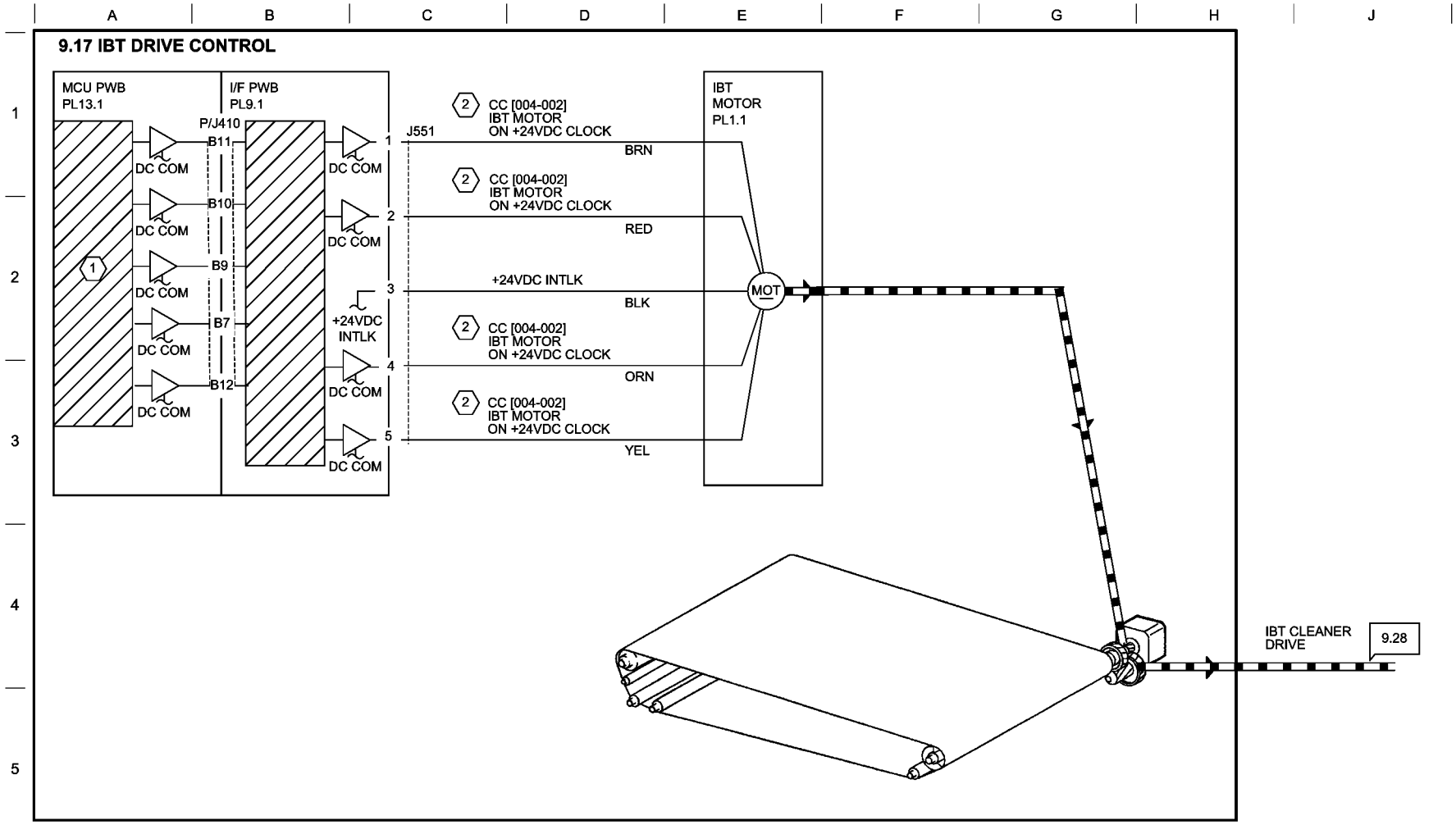


Figure 17 BSD 9.16 ADC and Environment Sensing



NOTE:

(1) DRIVES AT HIGH SPEED FOR STANDARD PAPER AND AT HALF SPEED FOR OHP FILM.

(2) LIFT UP IBT ASSY BEFORE TURNING ON CC [004-002]. TURNING ON IBT MOTOR WITHOUT LIFTING IT UP MAY DAMAGE IBT. TURNING CC [004-002] ALLOWS IBT MOTOR TO ROTATE AT NORMAL SPEED, CC [004-012] AT HALF SPEED AND CC [004-013] AT DOUBLE SPEED.

T709718-IMP.VSD.

Figure 18 BSD 9.17 IBT Drive Control

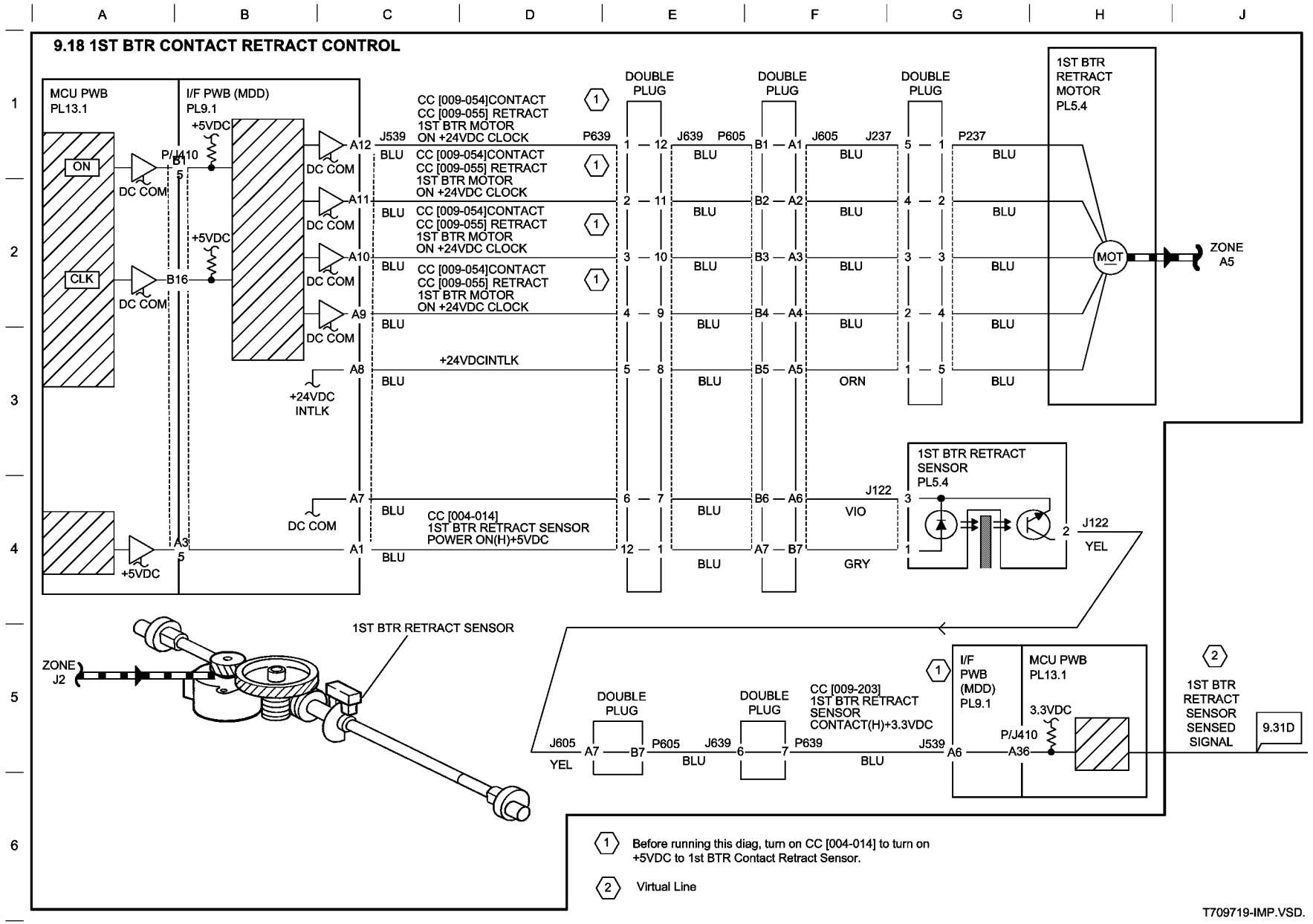


Figure 19 BSD 9.18 1st BTR Contact Retract

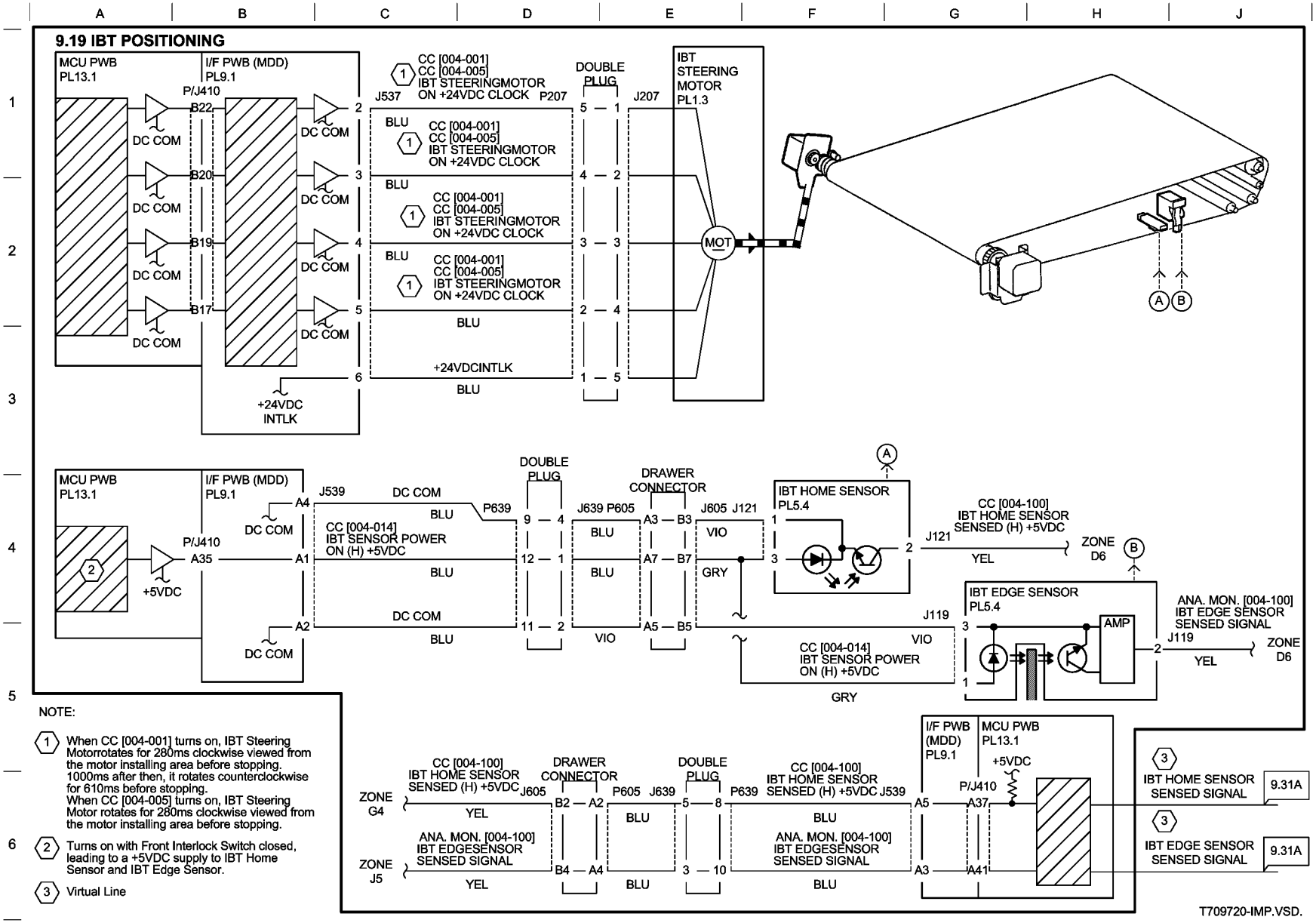


Figure 20 BSD 9.19 IBT Positioning

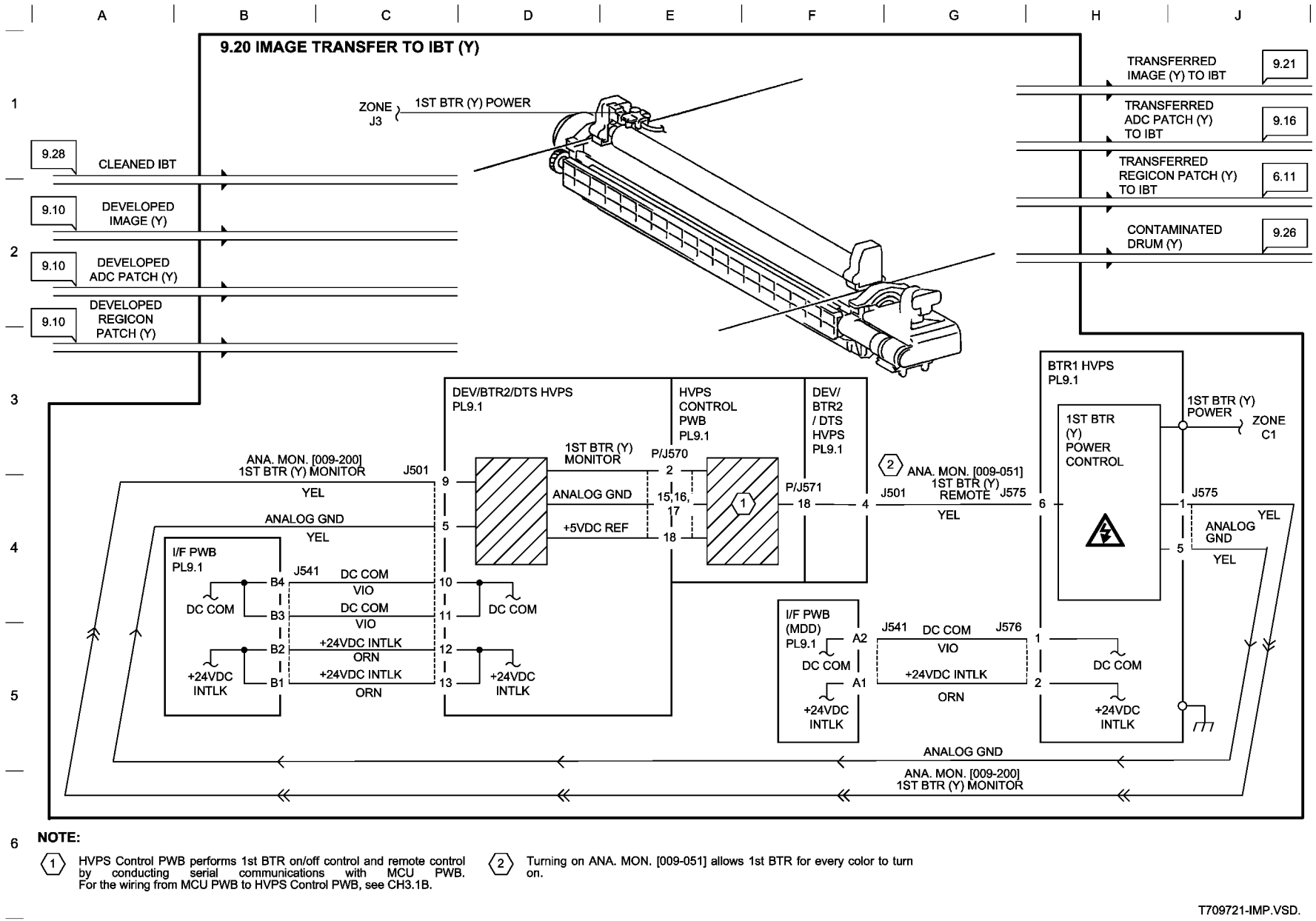
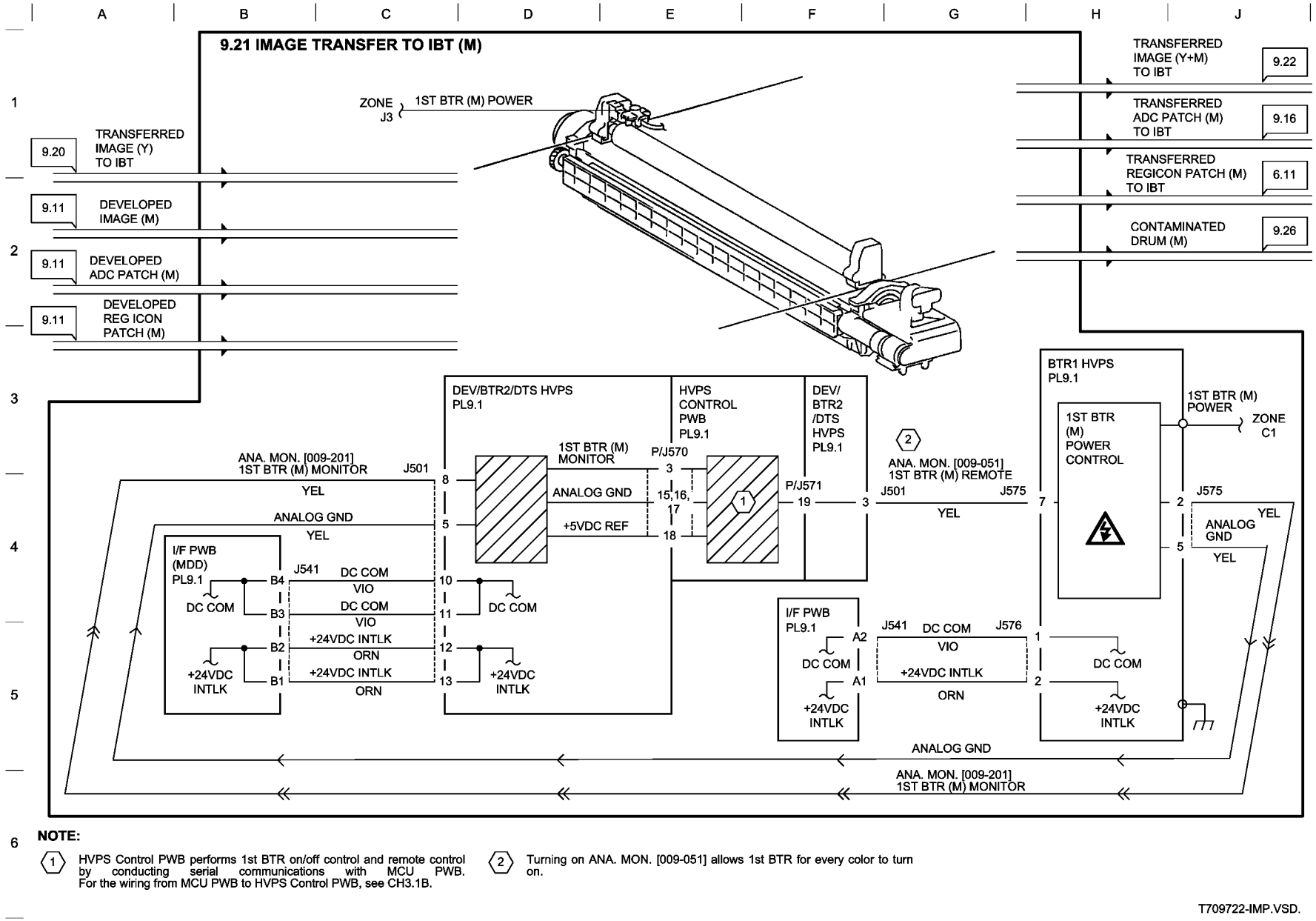


Figure 21 BSD 9.20 IBT Image Transfer (Y)

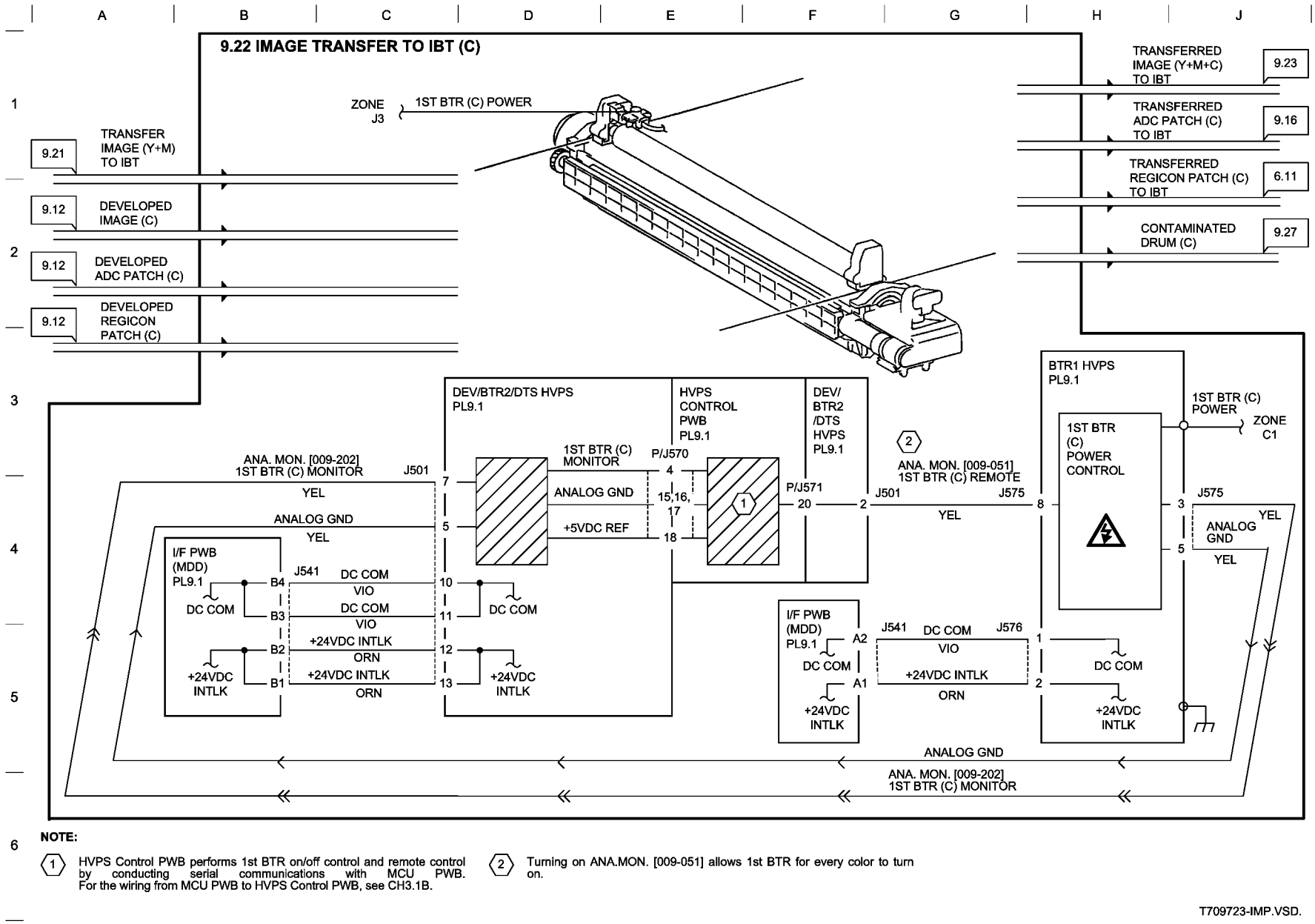


NOTE:

(1) HVPS Control PWB performs 1st BTR on/off control and remote control by conducting serial communications with MCU PWB. For the wiring from MCU PWB to HVPS Control PWB, see CH3.1B.

(2) Turning on ANA. MON. [009-051] allows 1st BTR for every color to turn on.

Figure 22 BSD 9.21 IBT Image Transfer (M)

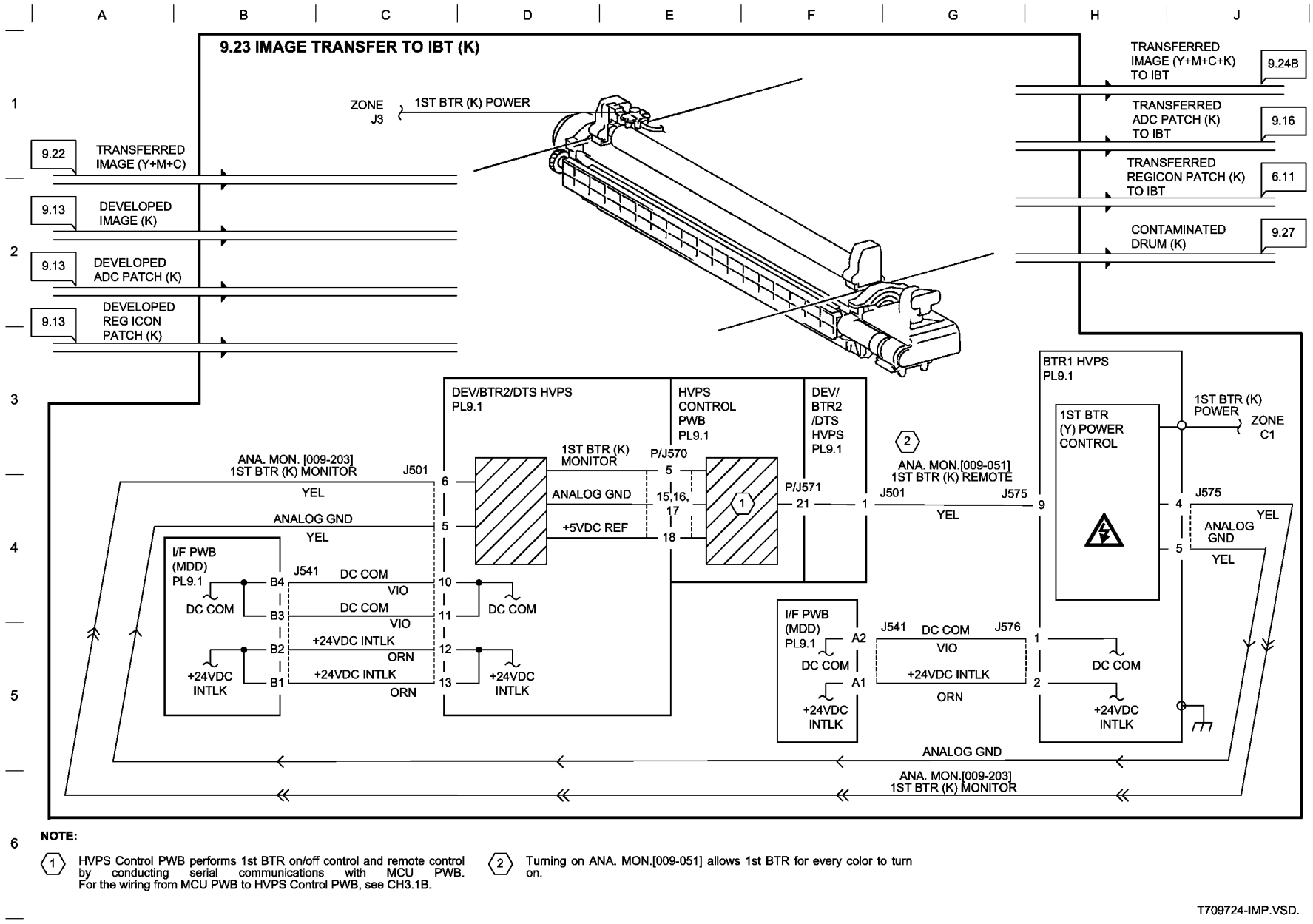


NOTE:

(1) HVPS Control PWB performs 1st BTR on/off control and remote control by conducting serial communications with MCU PWB. For the wiring from MCU PWB to HVPS Control PWB, see CH3.1B.

(2) Turning on ANA.MON. [009-051] allows 1st BTR for every color to turn on.

Figure 23 BSD 9.22 IBT Image Transfer (C)



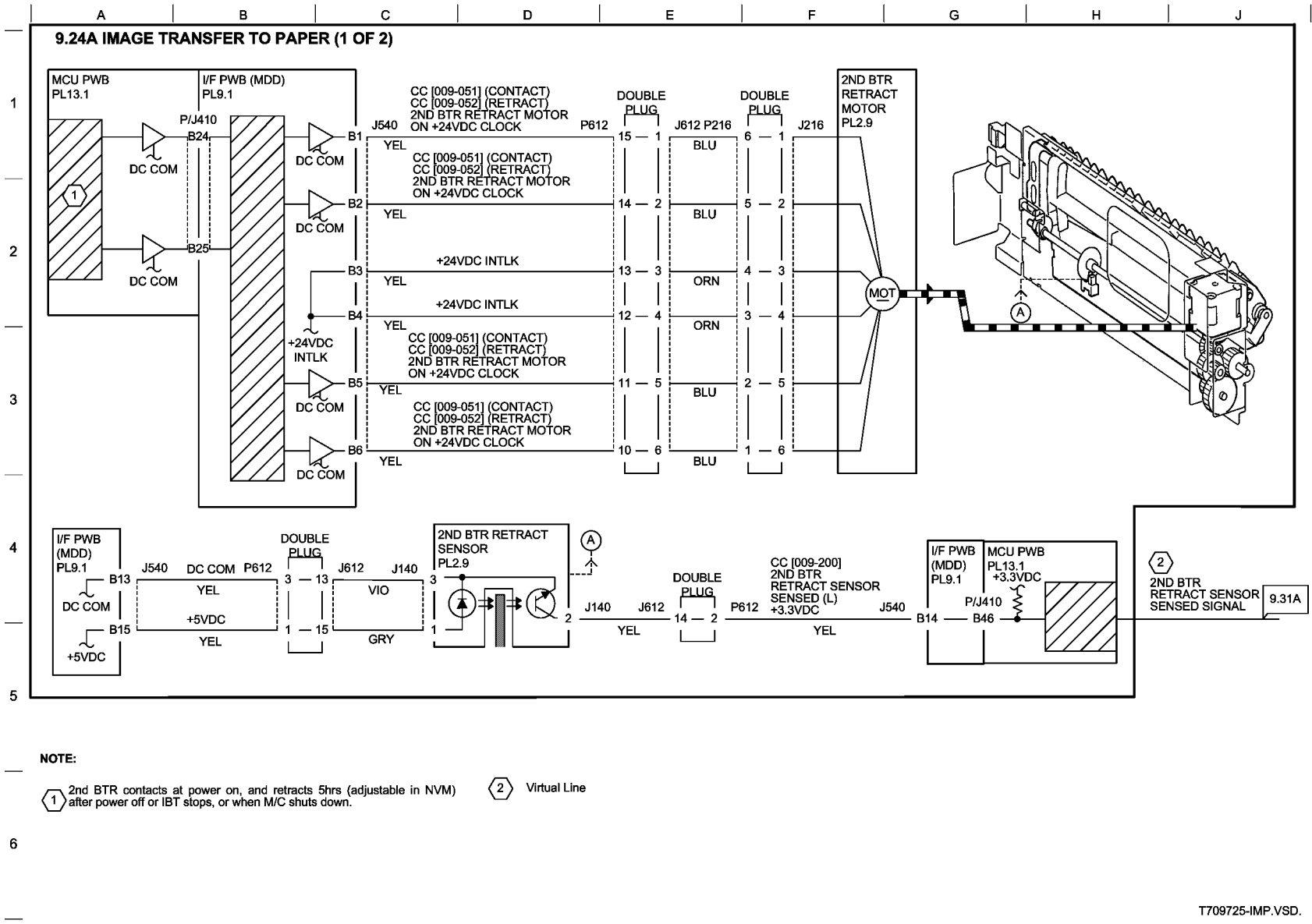
NOTE:

(1) HVPS Control PWB performs 1st BTR on/off control and remote control by conducting serial communications with MCU PWB. For the wiring from MCU PWB to HVPS Control PWB, see CH3.1B.

(2) Turning on ANA. MON.[009-051] allows 1st BTR for every color to turn on.

T709724-IMP.VSD.

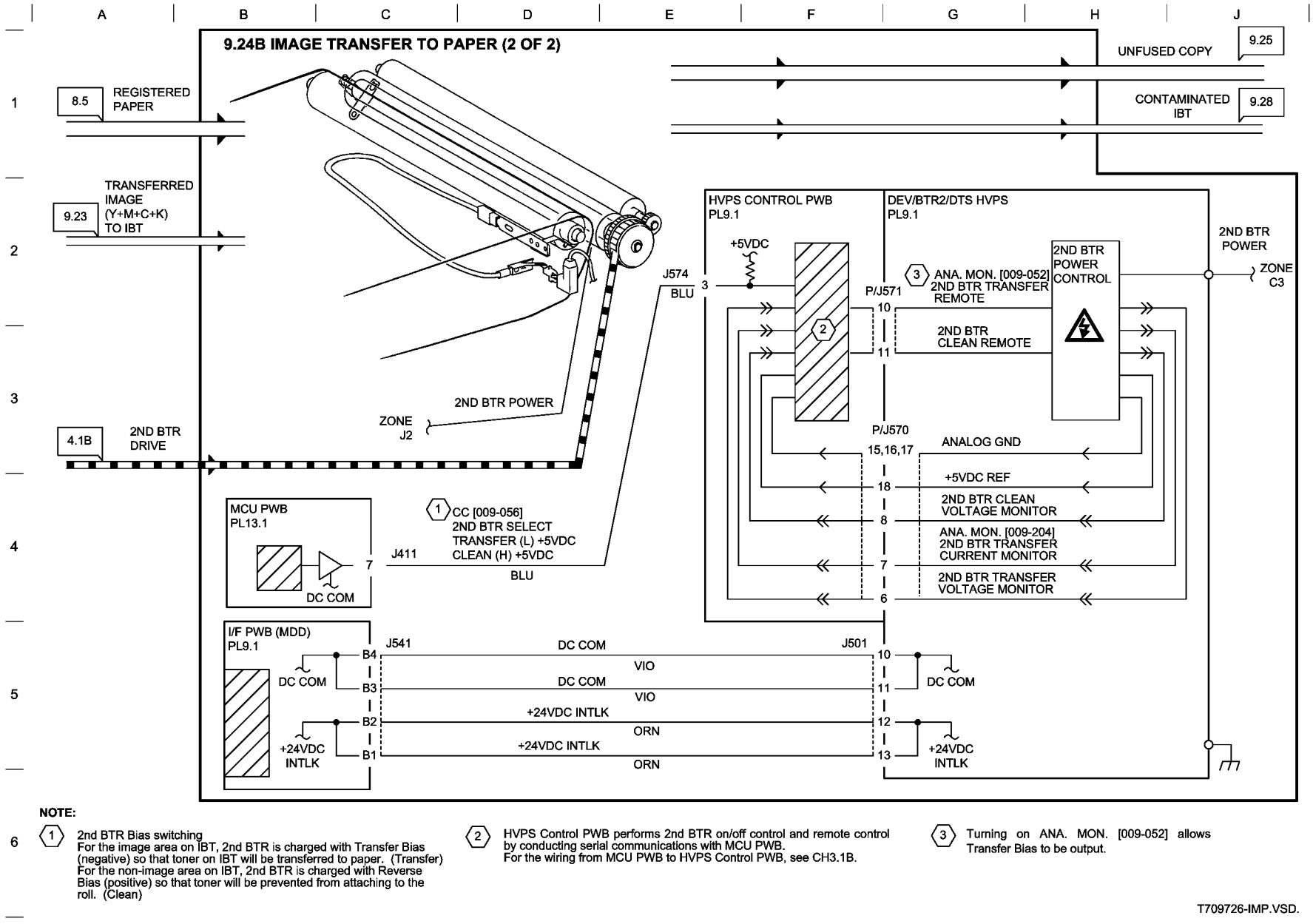
Figure 24 BSD 9.23 IBT Image Transfer (K)



NOTE:

1. 2nd BTR contacts at power on, and retracts 5hrs (adjustable in NVM) after power off or IBT stops, or when M/C shuts down.
2. Virtual Line

Figure 25 BSD 9.24A Image Transfer to Paper (1 of 2)



NOTE:

1. 2nd BTR Bias switching
   For the image area on IBT, 2nd BTR is charged with Transfer Bias (negative) so that toner on IBT will be transferred to paper. (Transfer)
   For the non-image area on IBT, 2nd BTR is charged with Reverse Bias (positive) so that toner will be prevented from attaching to the roll. (Clean)
2. HVPS Control PWB performs 2nd BTR on/off control and remote control by conducting serial communications with MCU PWB.
   For the wiring from MCU PWB to HVPS Control PWB, see CH3.1B.
3. Turning on ANA. MON. [009-052] allows Transfer Bias to be output.

T709726-IMP.VSD.

Figure 26 BSD 9.24B Image Transfer to Paper (2 of 2)

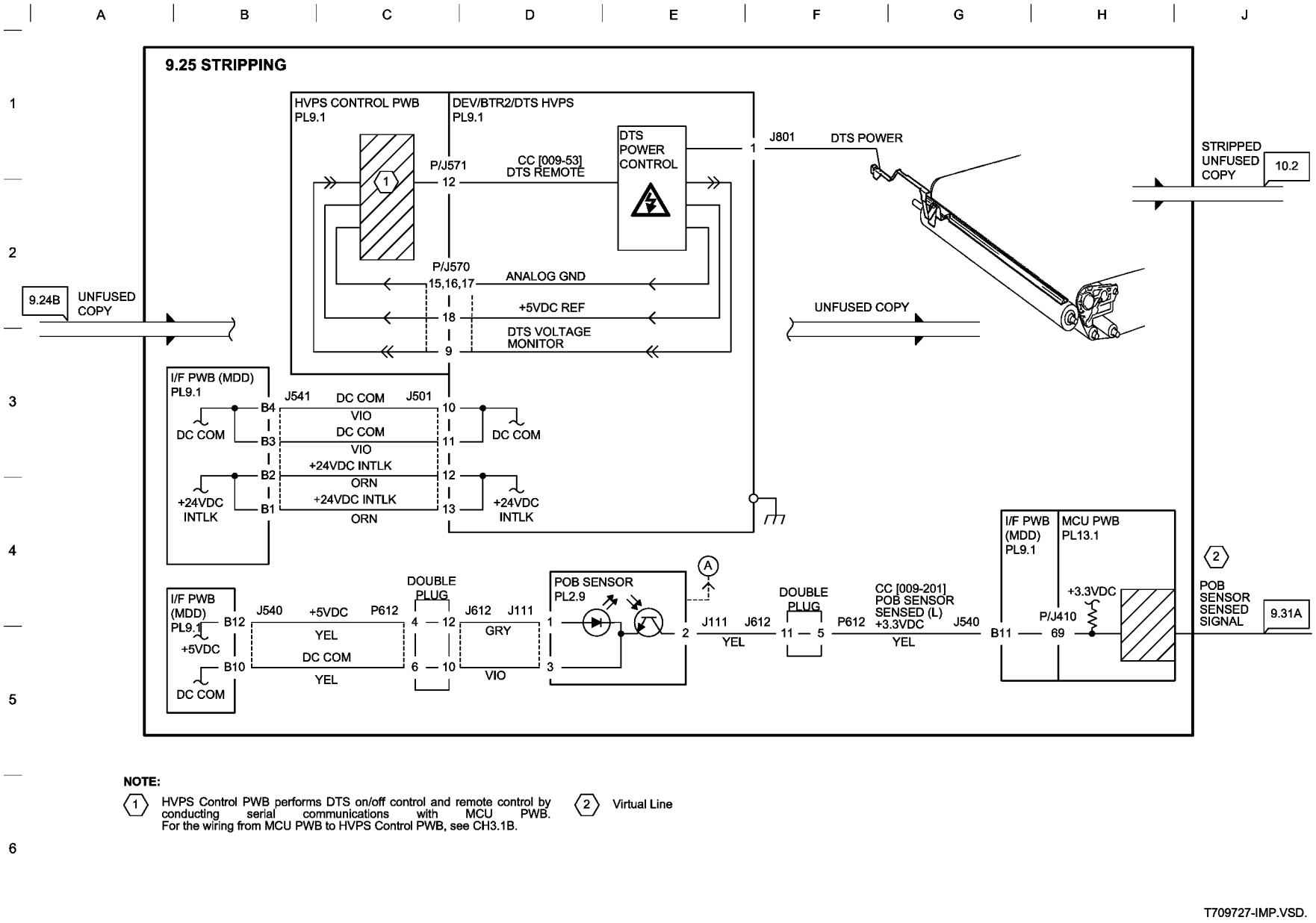


Figure 27 BSD 9.25 Stripping

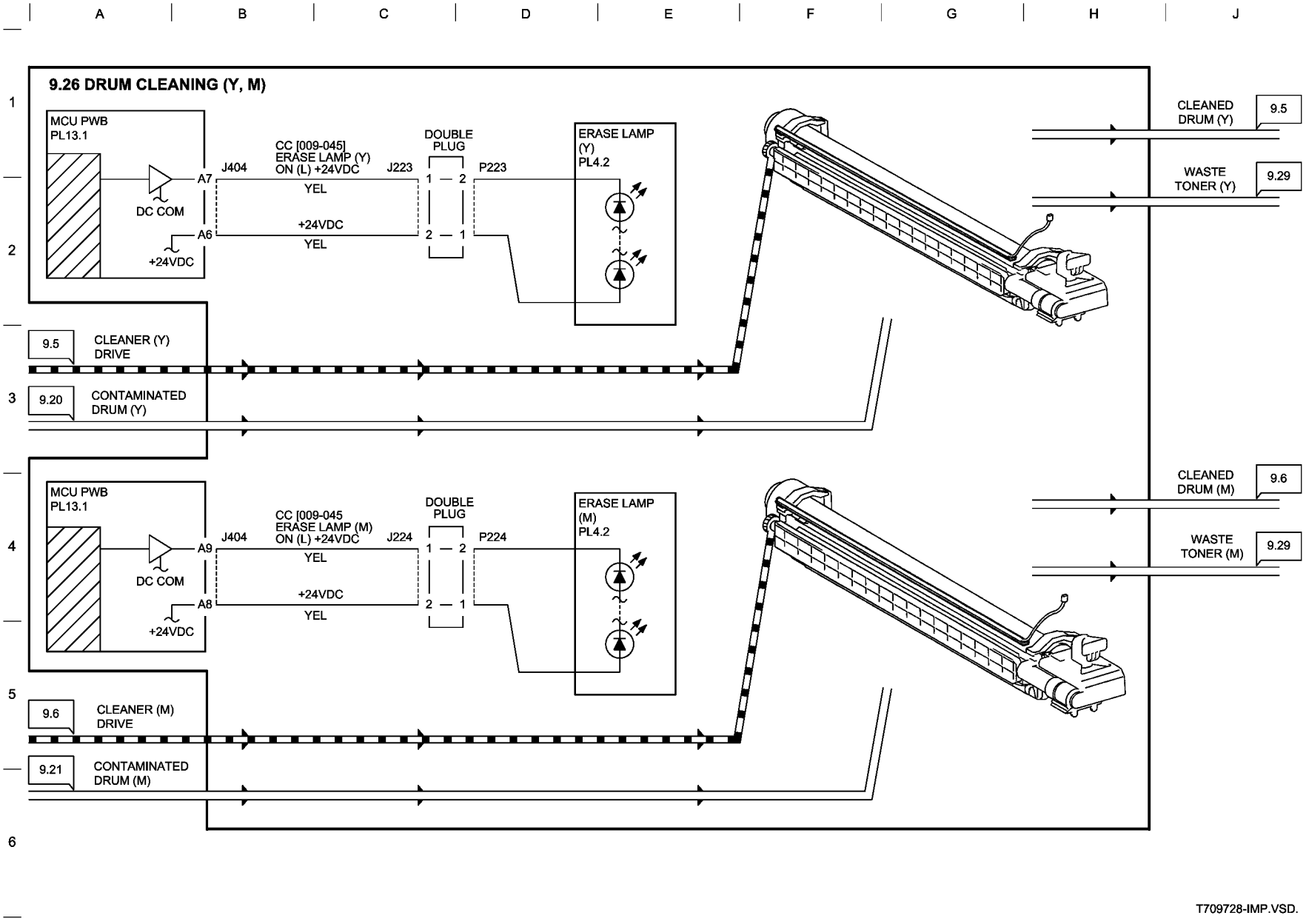


Figure 28 BSD 9.26 Drum Cleaning (Y, M)

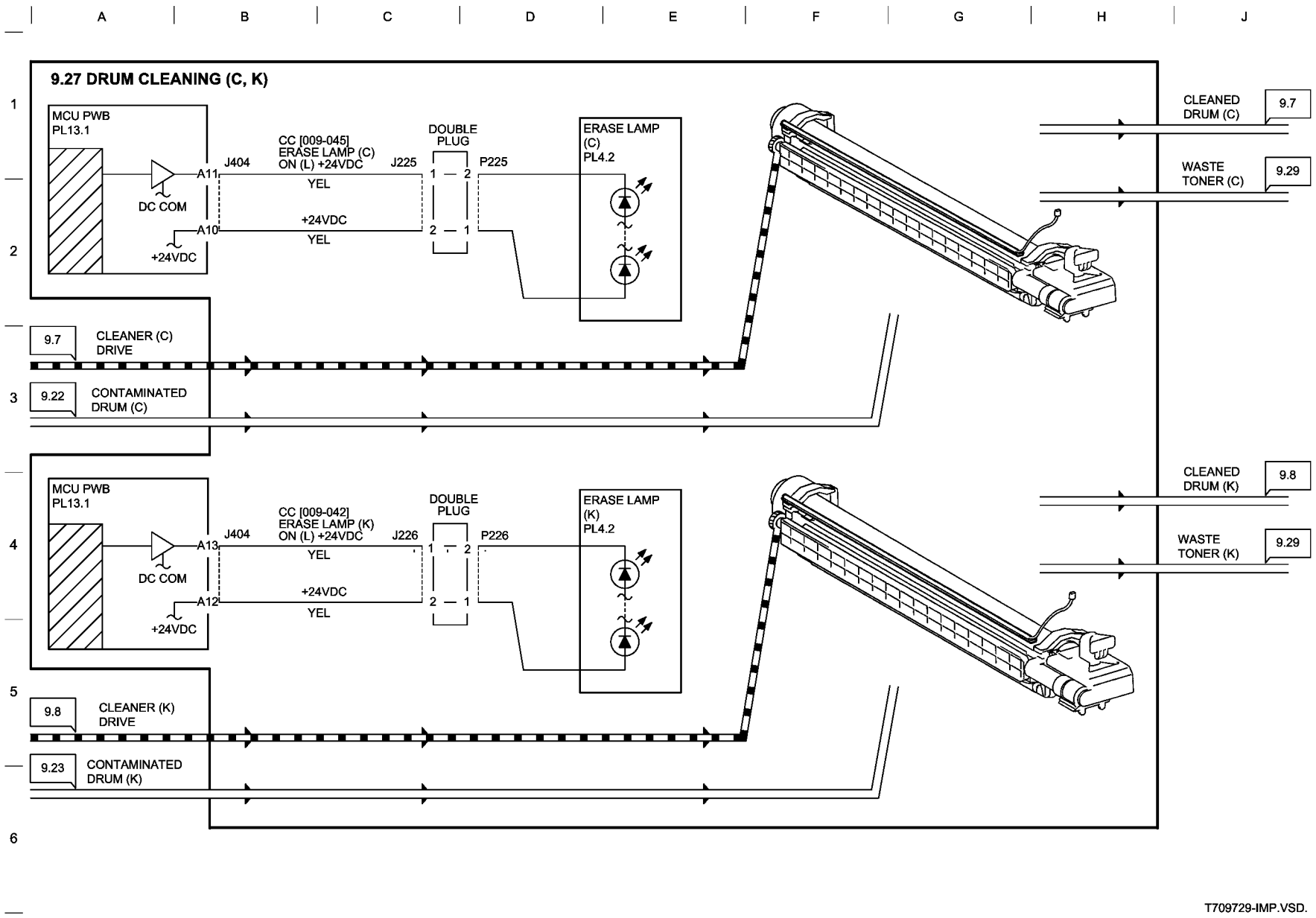


Figure 29 BSD 9.27 Drum Cleaning (C, K)

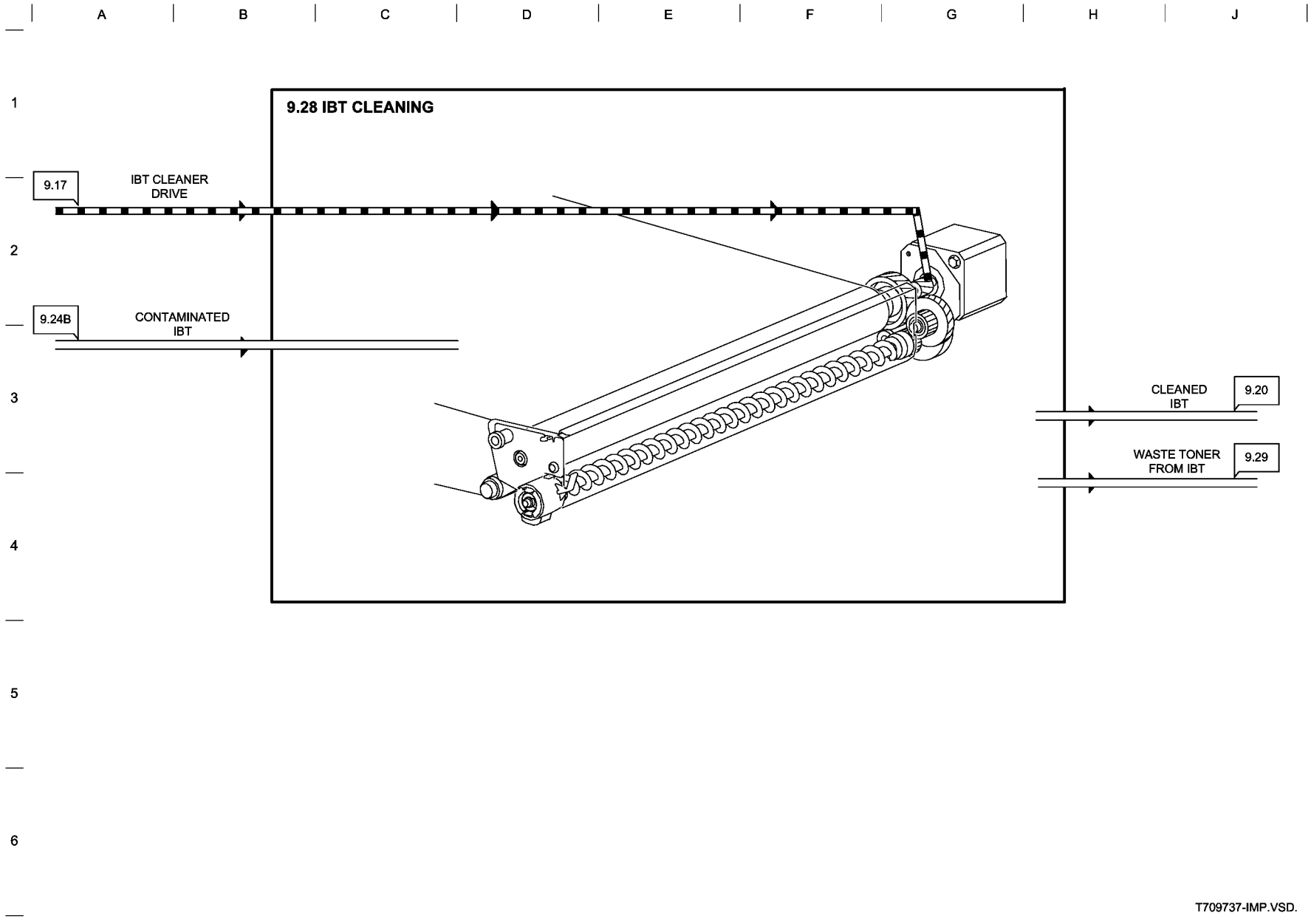


Figure 30 BSD 9.28 IBT Cleaning

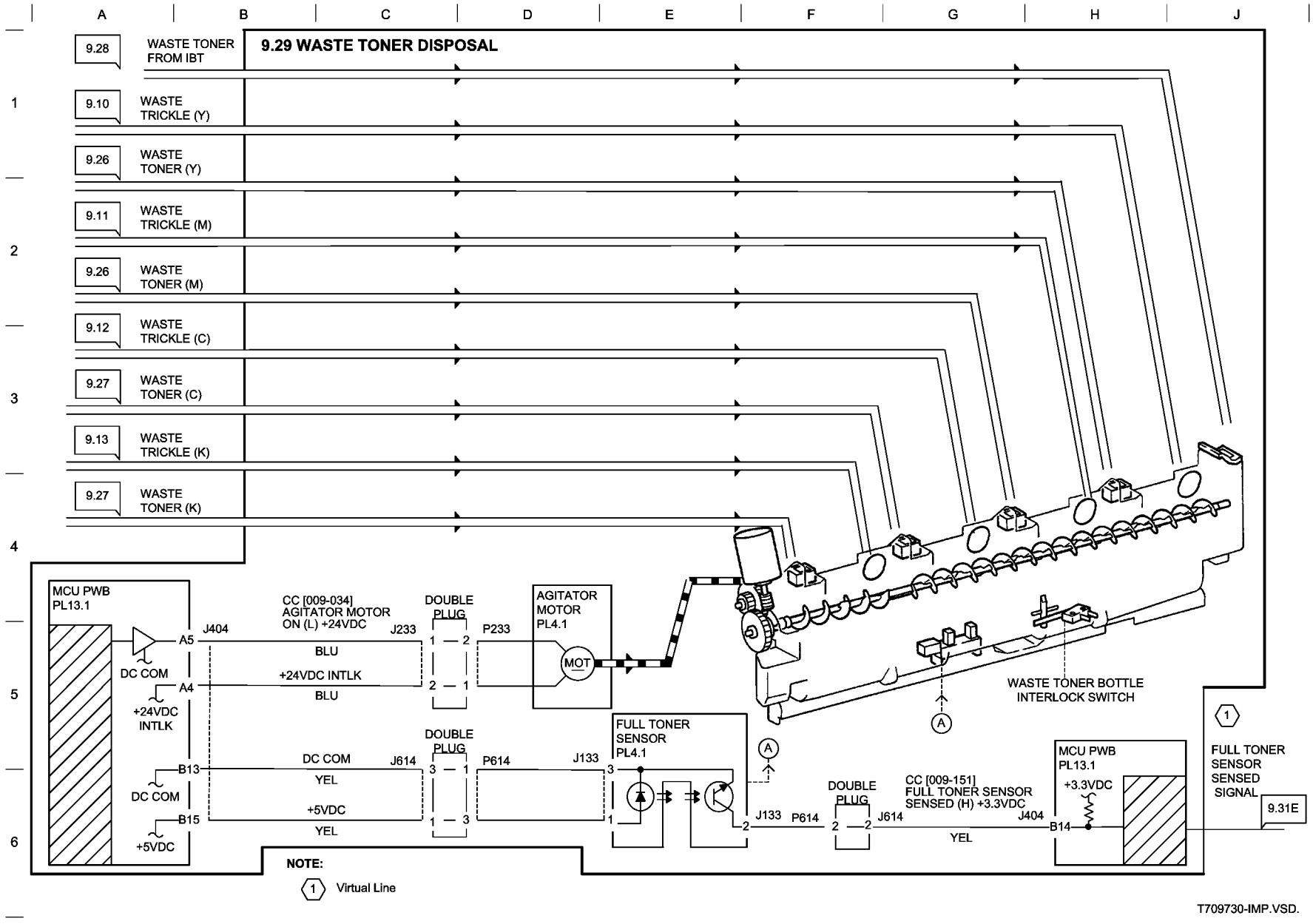


Figure 31 BSD 9.29 Waste Toner Disposal

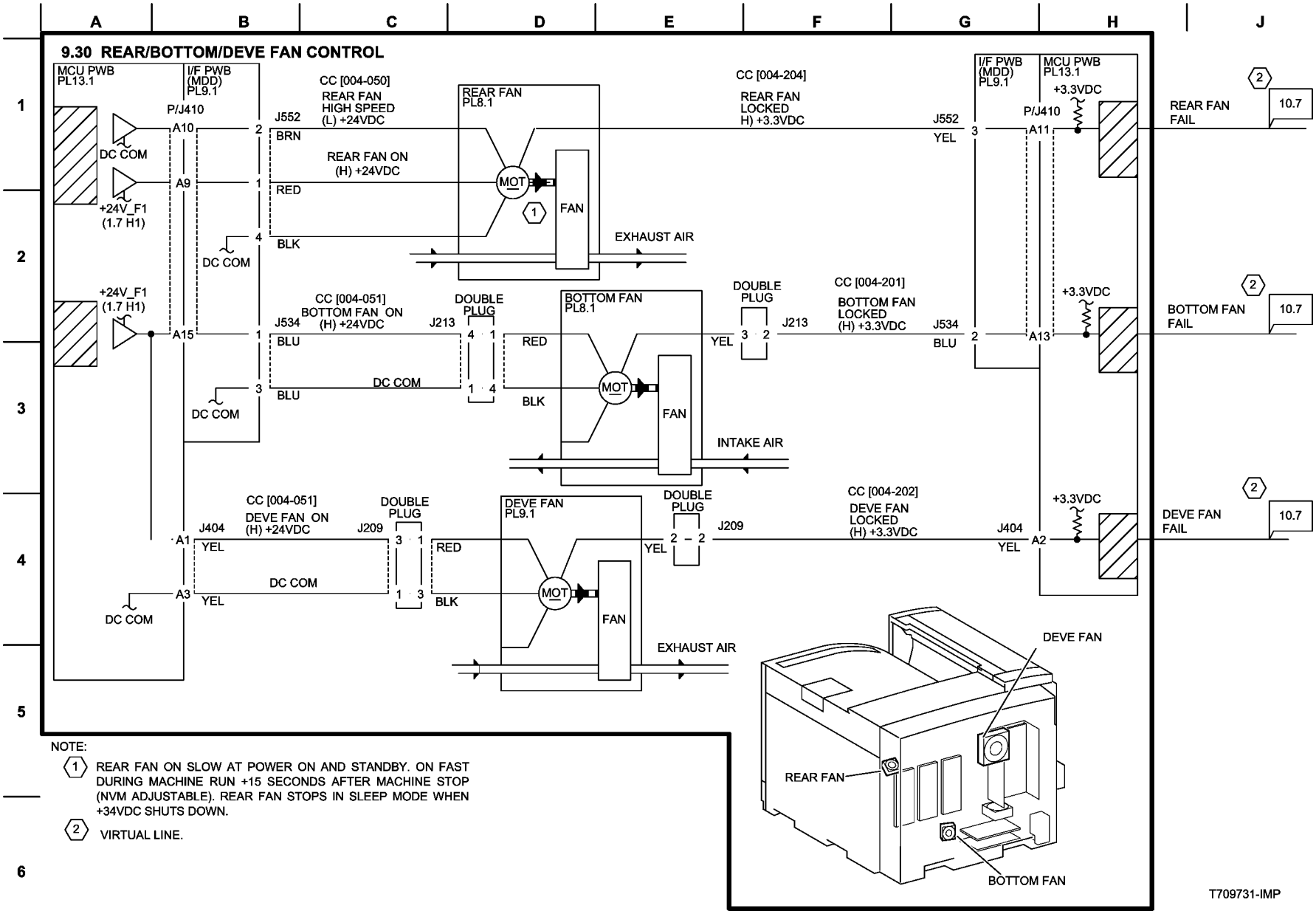


Figure 32 BSD 9.30 Fans

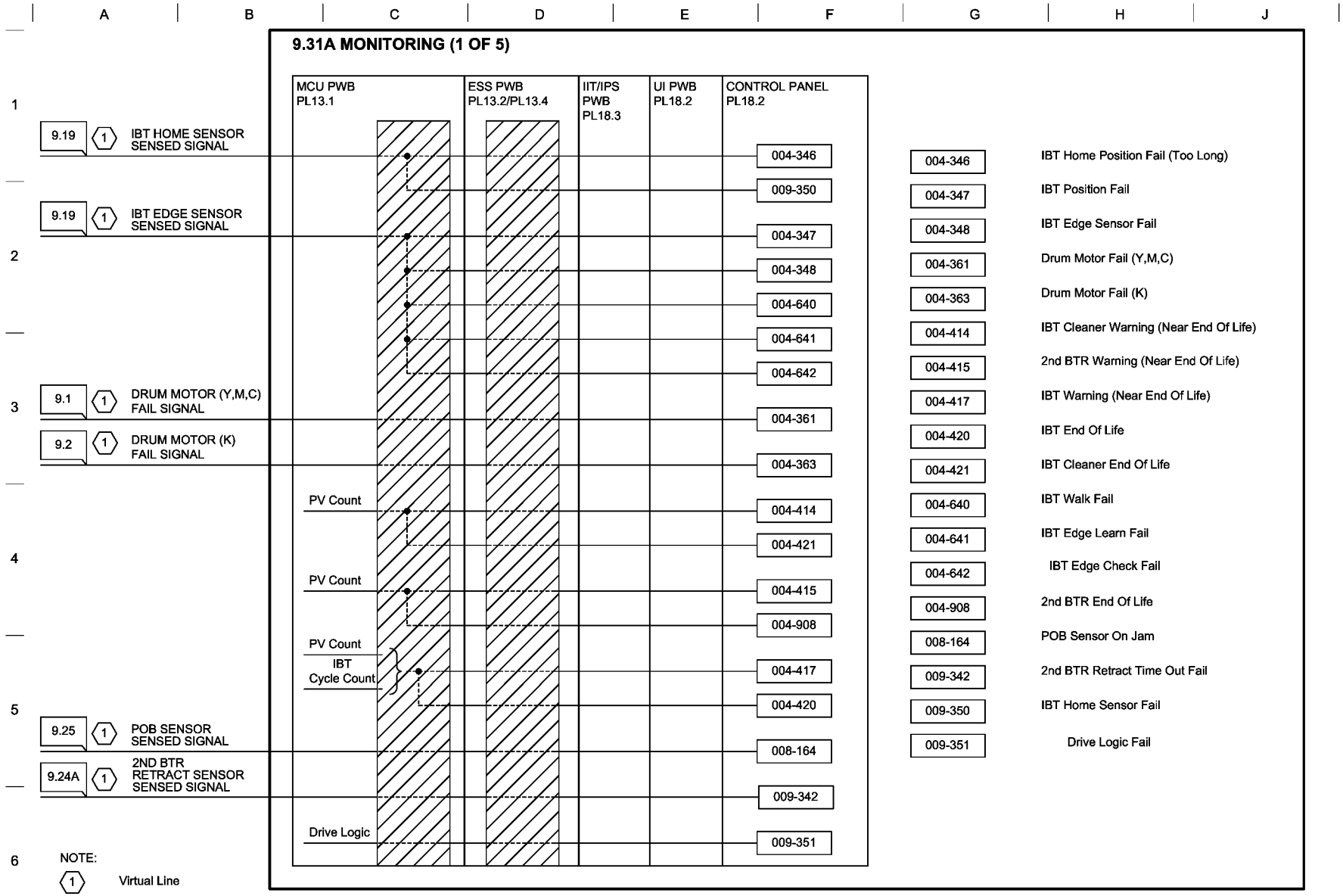


Figure 33 BSD 9.31A Chain 09 Monitoring (1 of 5)

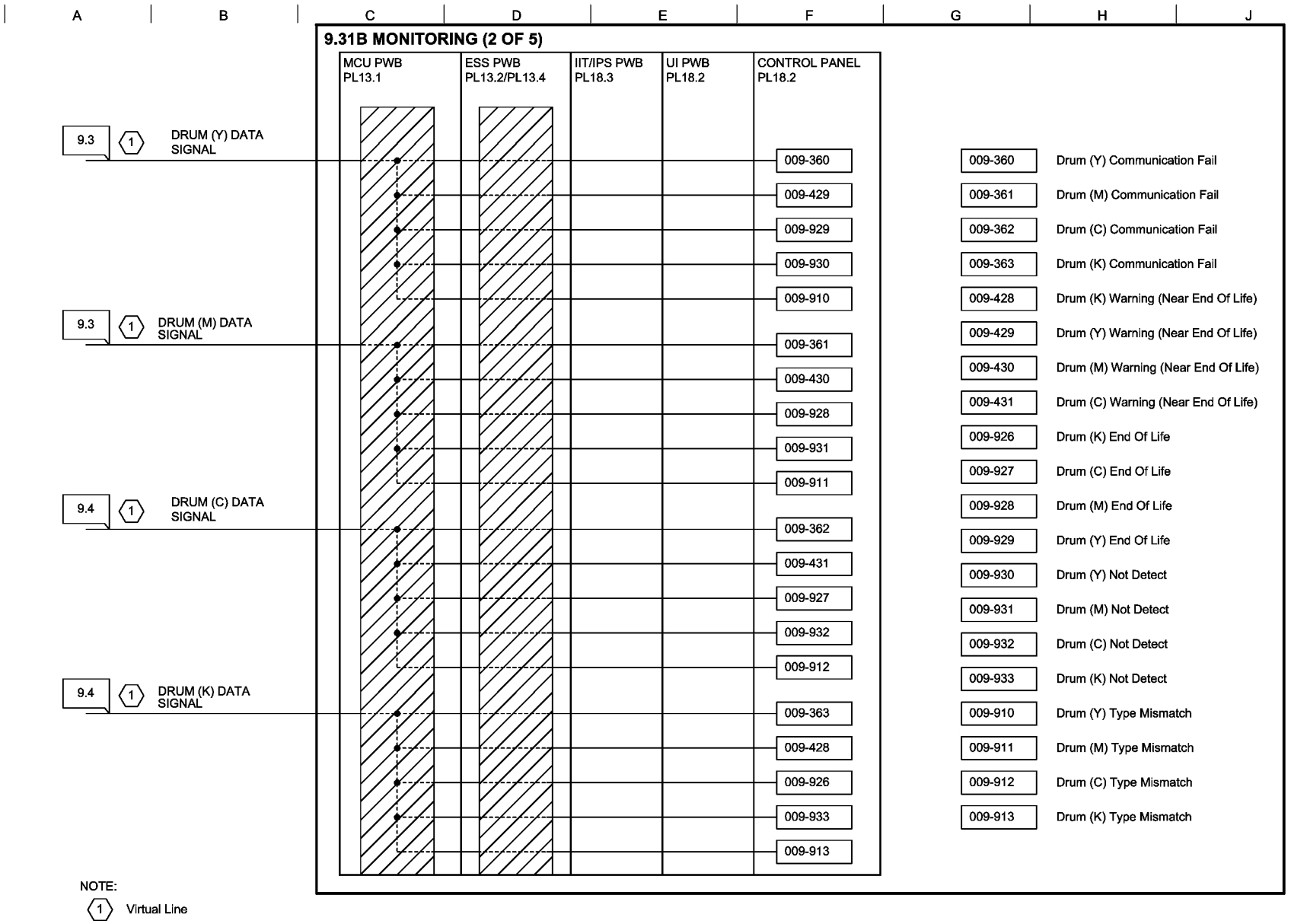


Figure 34 BSD 9.31B Chain 09 Monitoring (2 of 5)

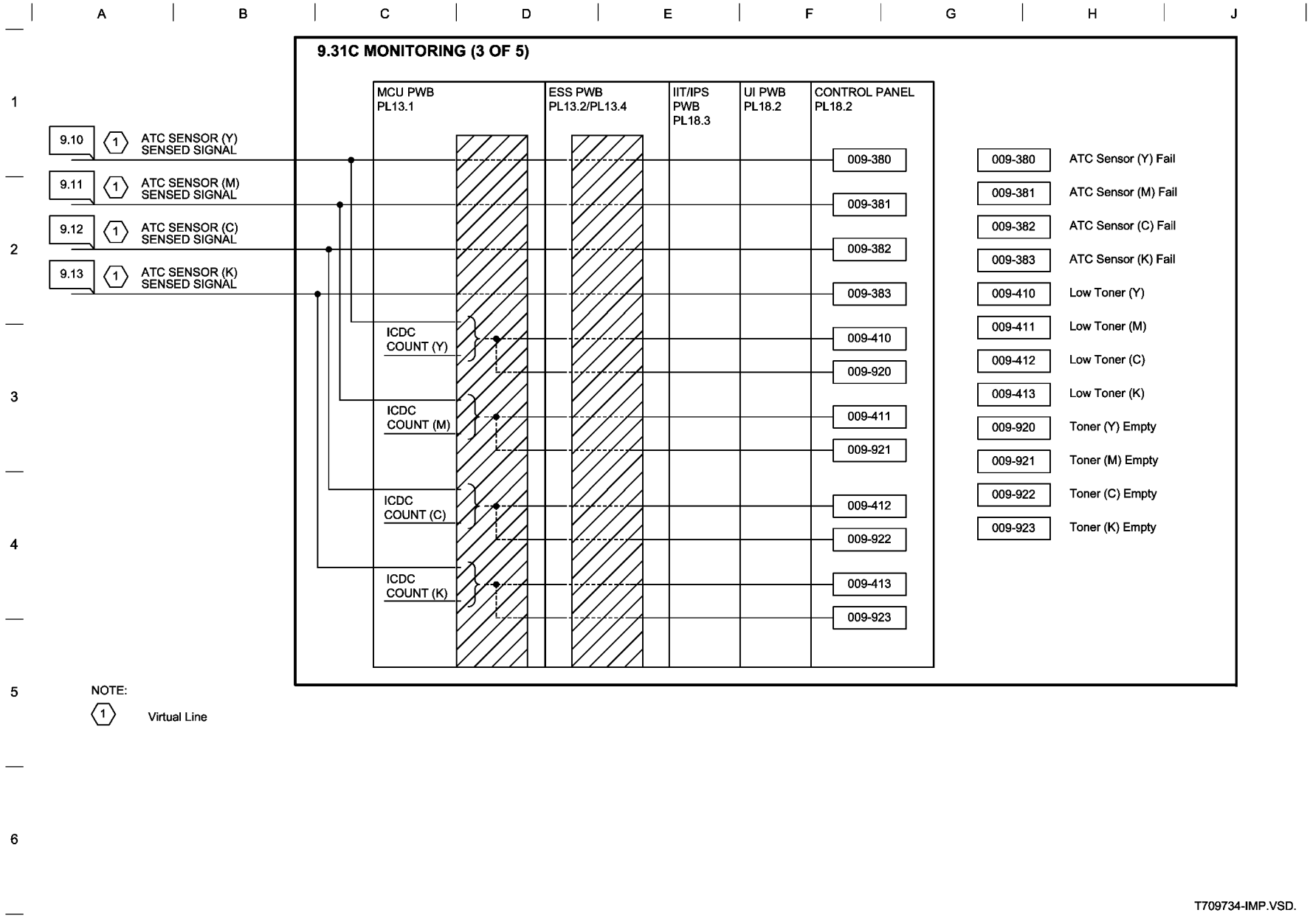


Figure 35 BSD 9.31C Chain 09 Monitoring (3 of 5)

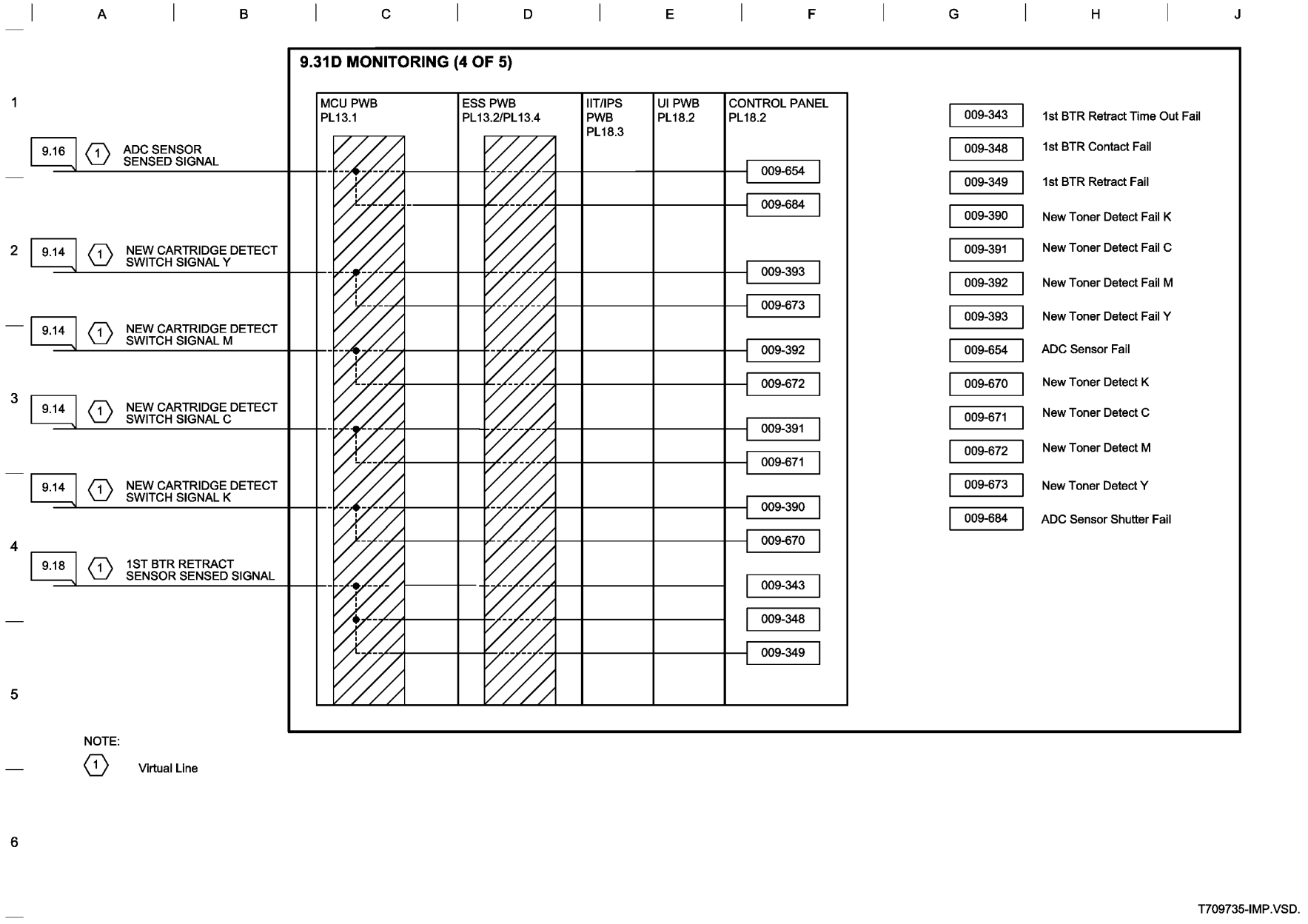


Figure 36 BSD 9.31D

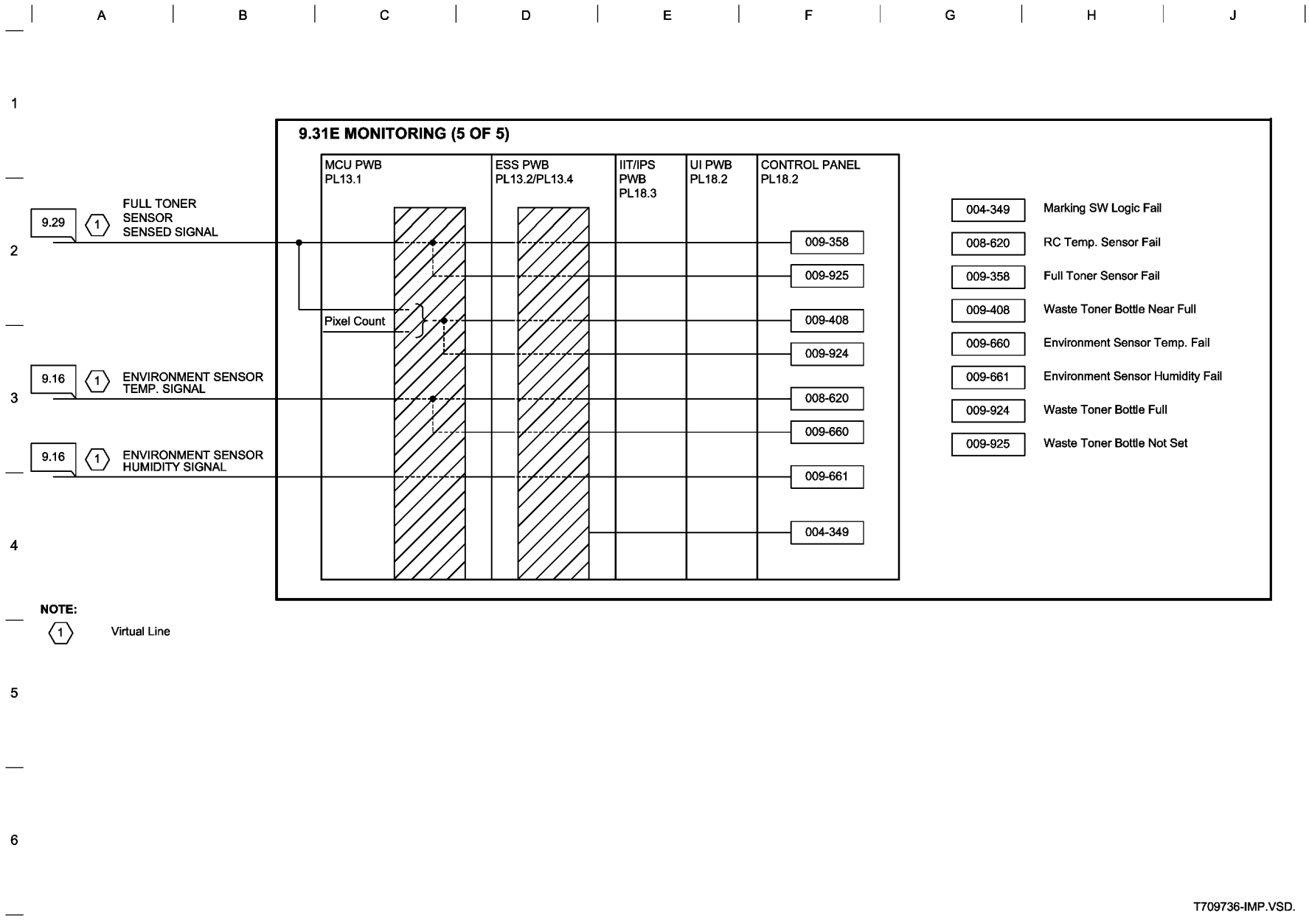


Figure 37 BSD 9.31E Chain 09 Monitoring (5 of 5)

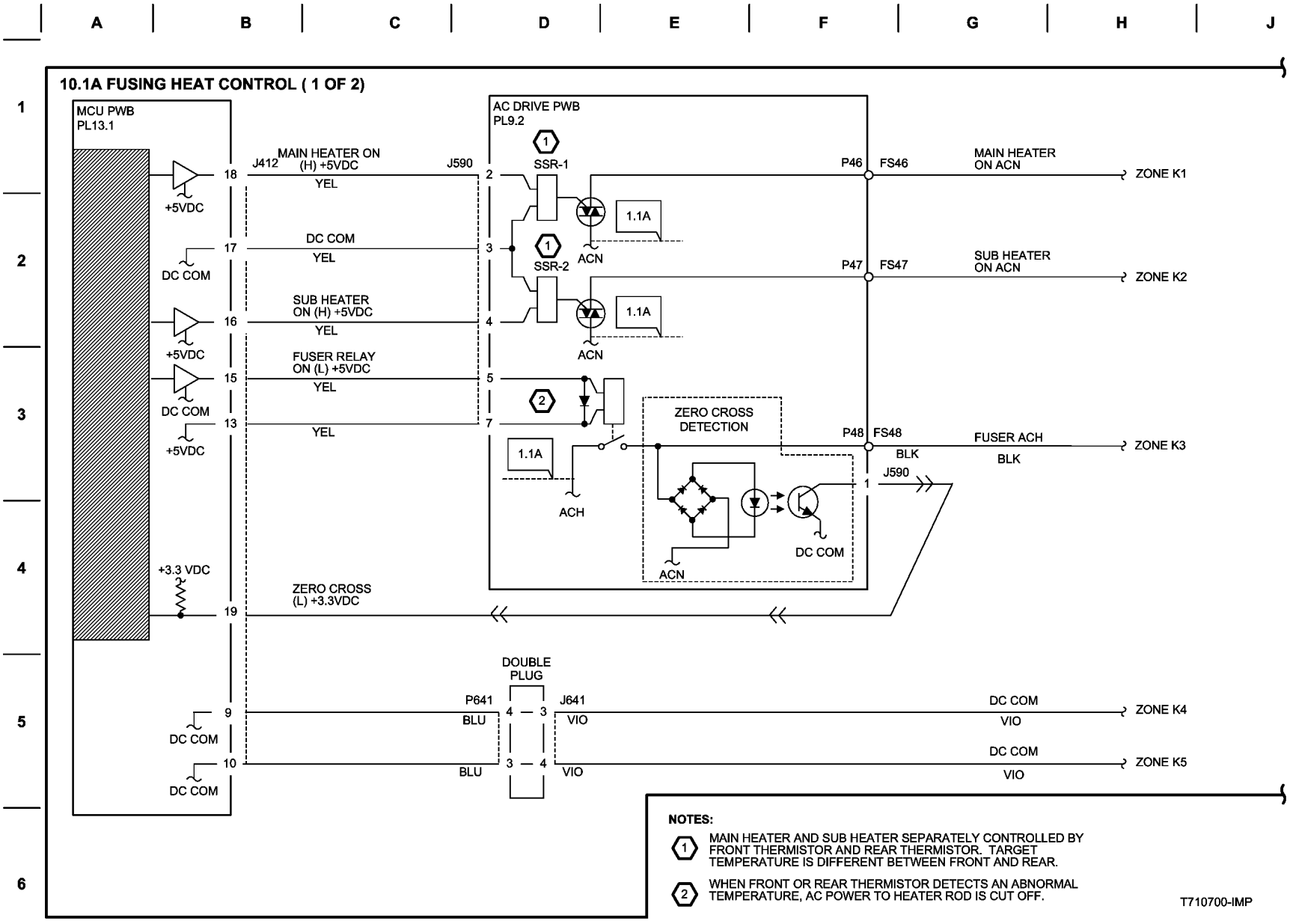


Figure 1 BSD 10.1A Fusing Heat Control (1 of 2)

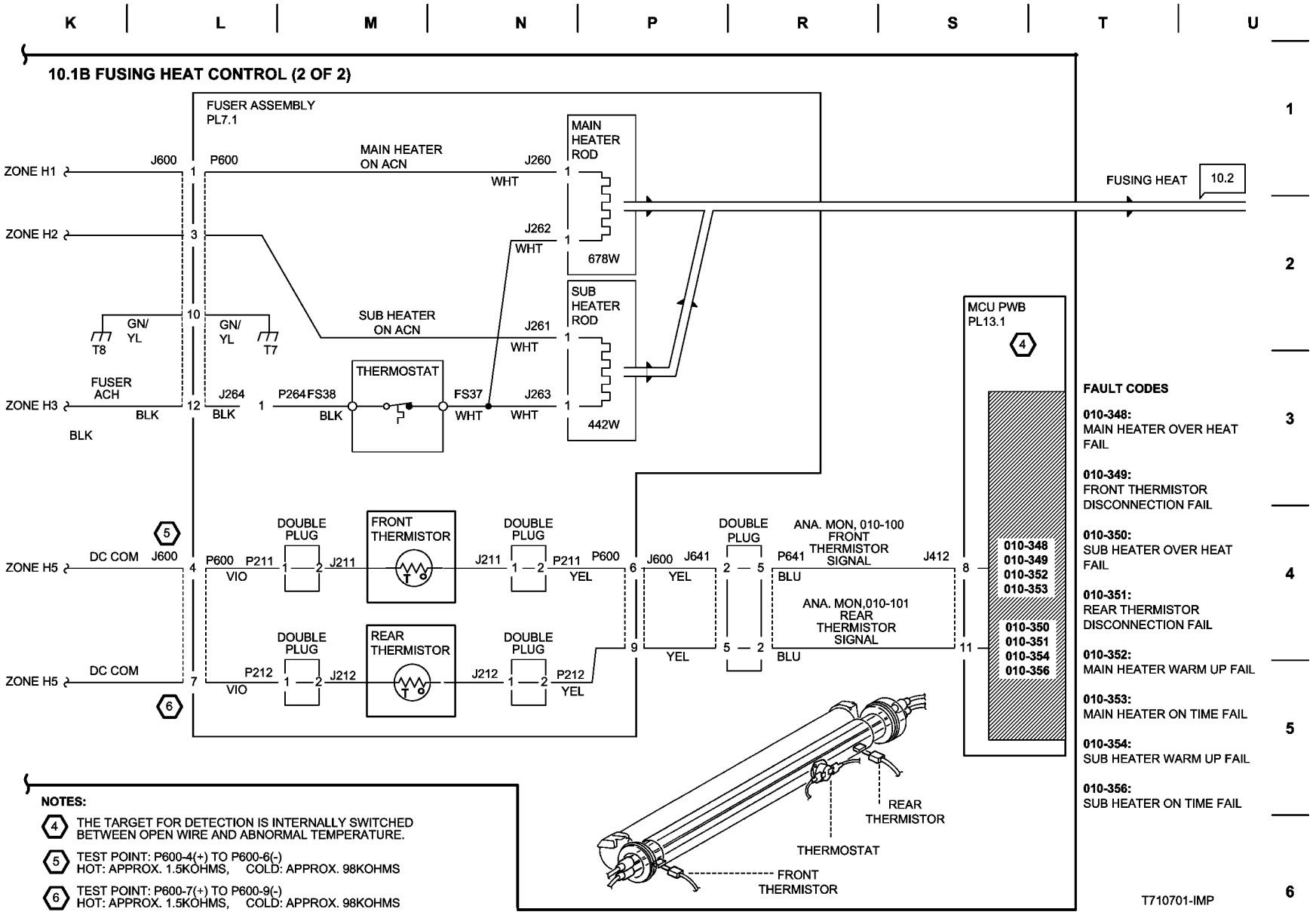


Figure 2 BSD 10.1B Fusing Heat Control (2 of 2)

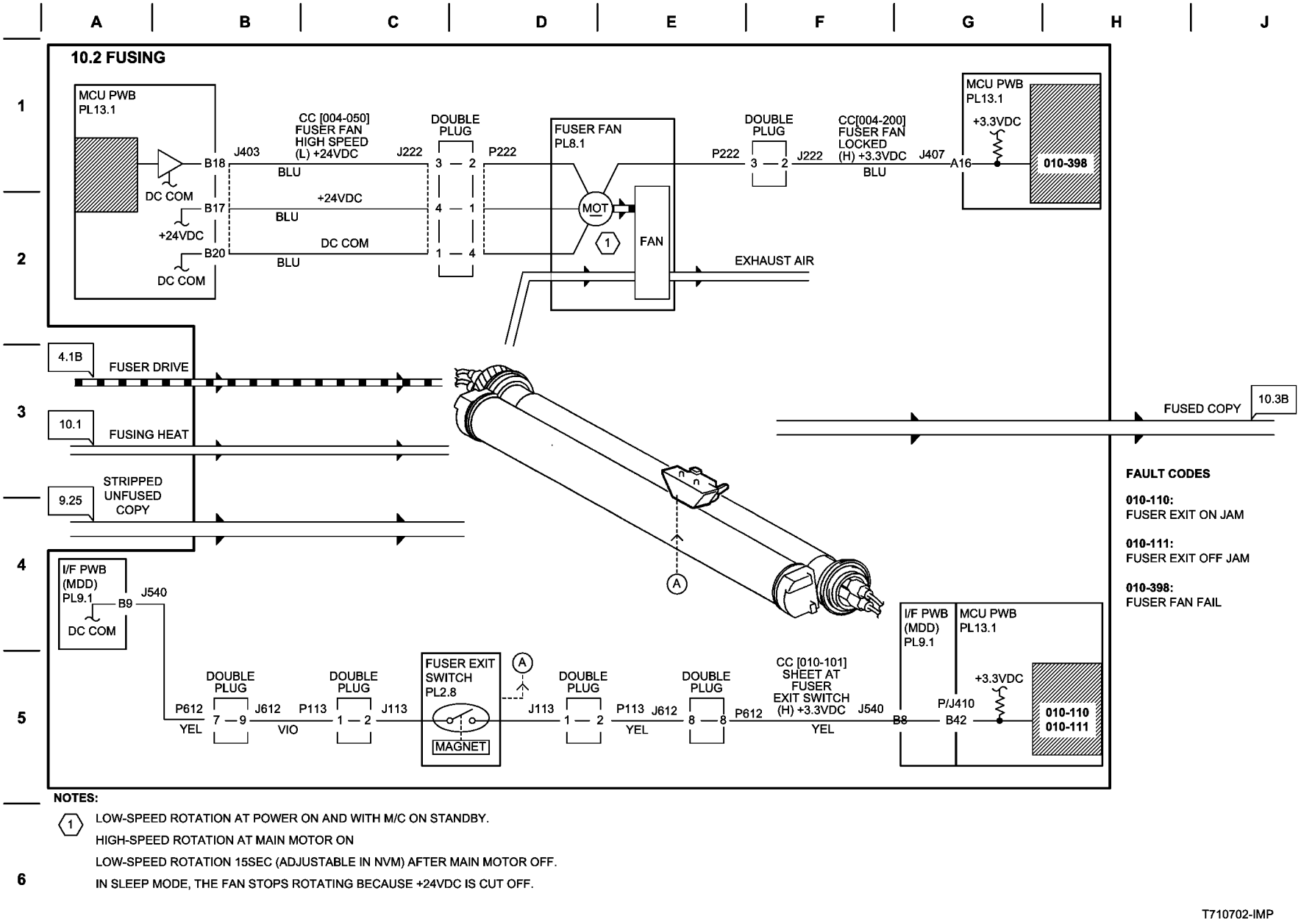


Figure 3 BSD 10.2 Fusing

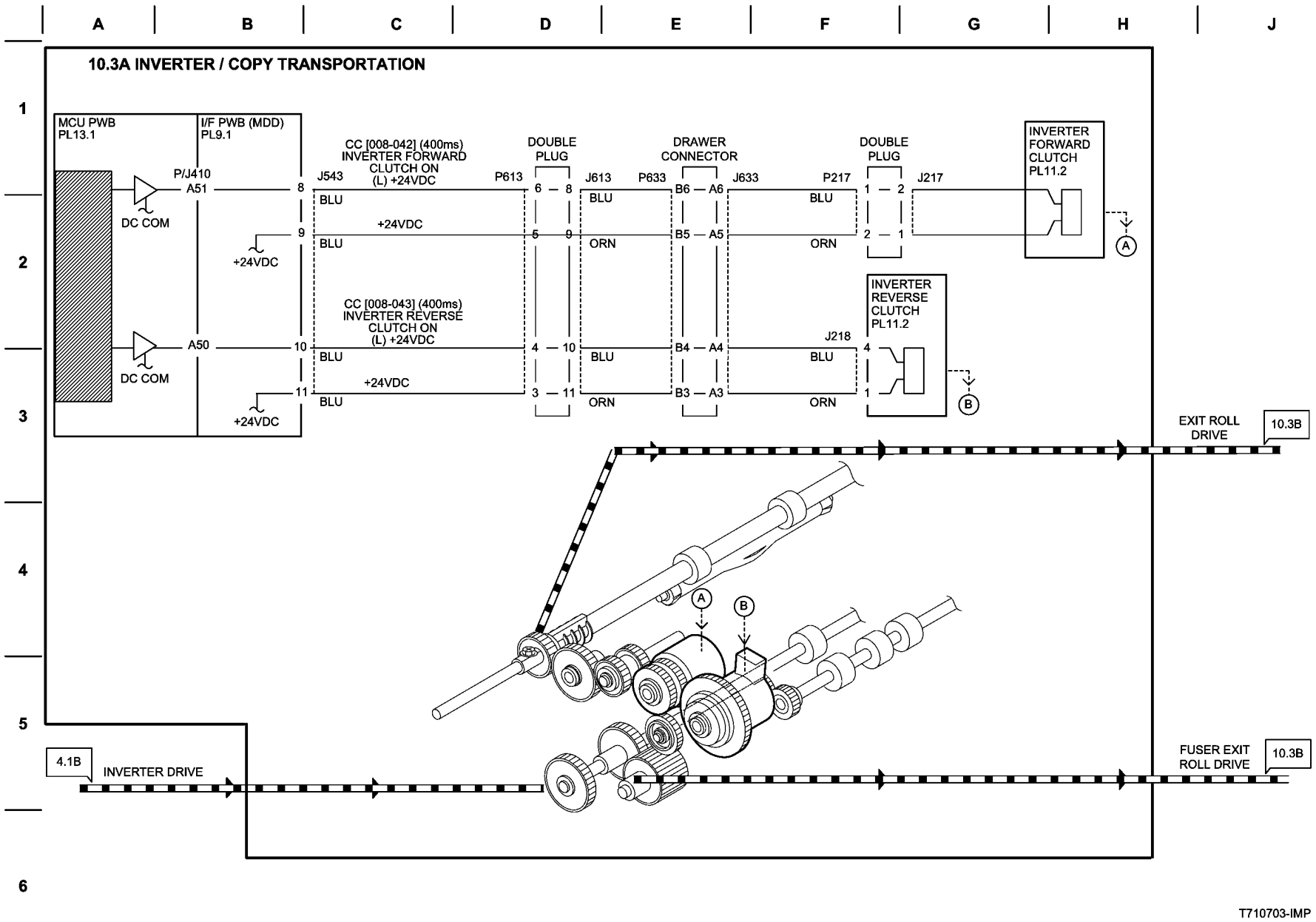


Figure 4 BSD 10.3A Inverter/Copy Transport

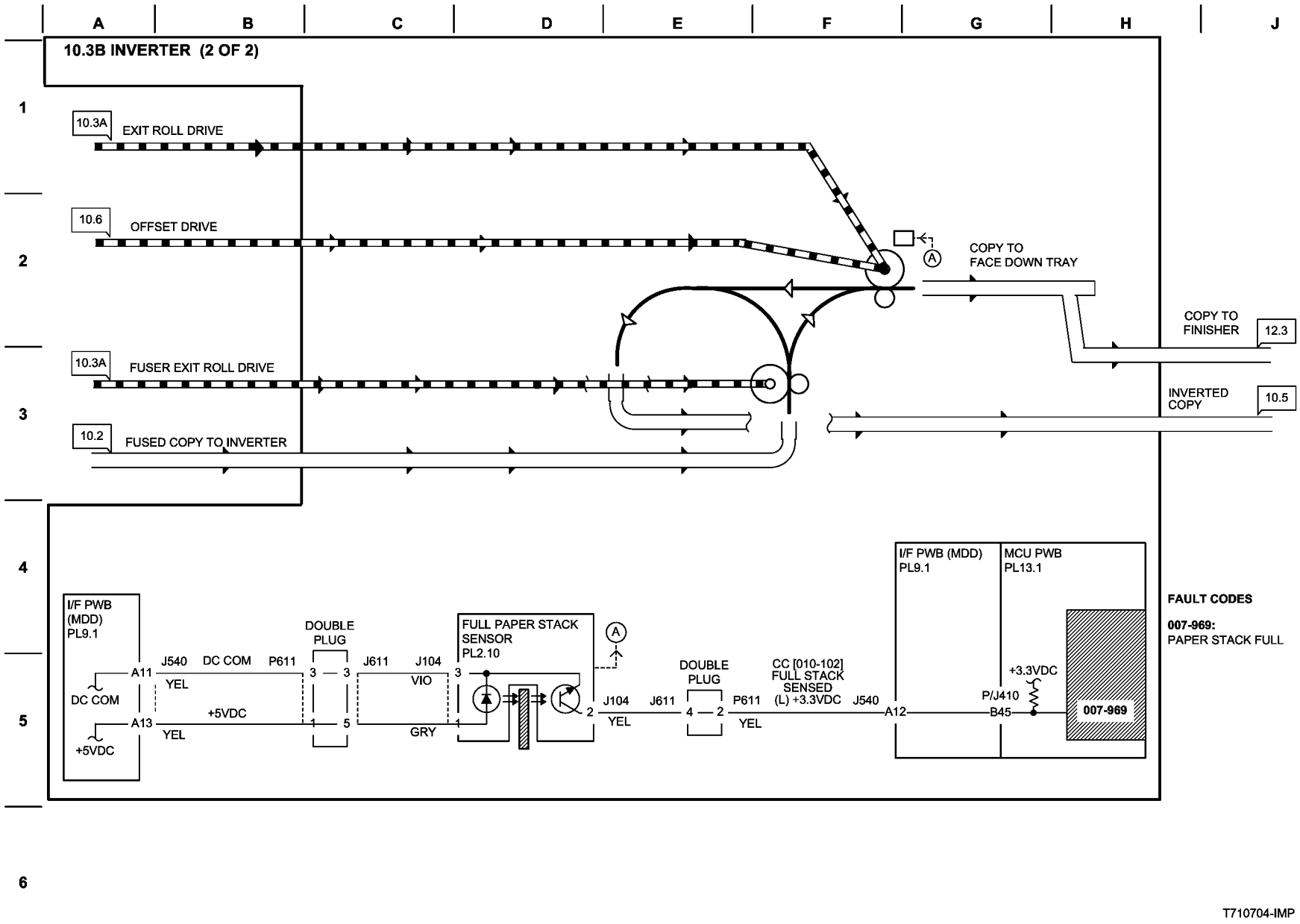
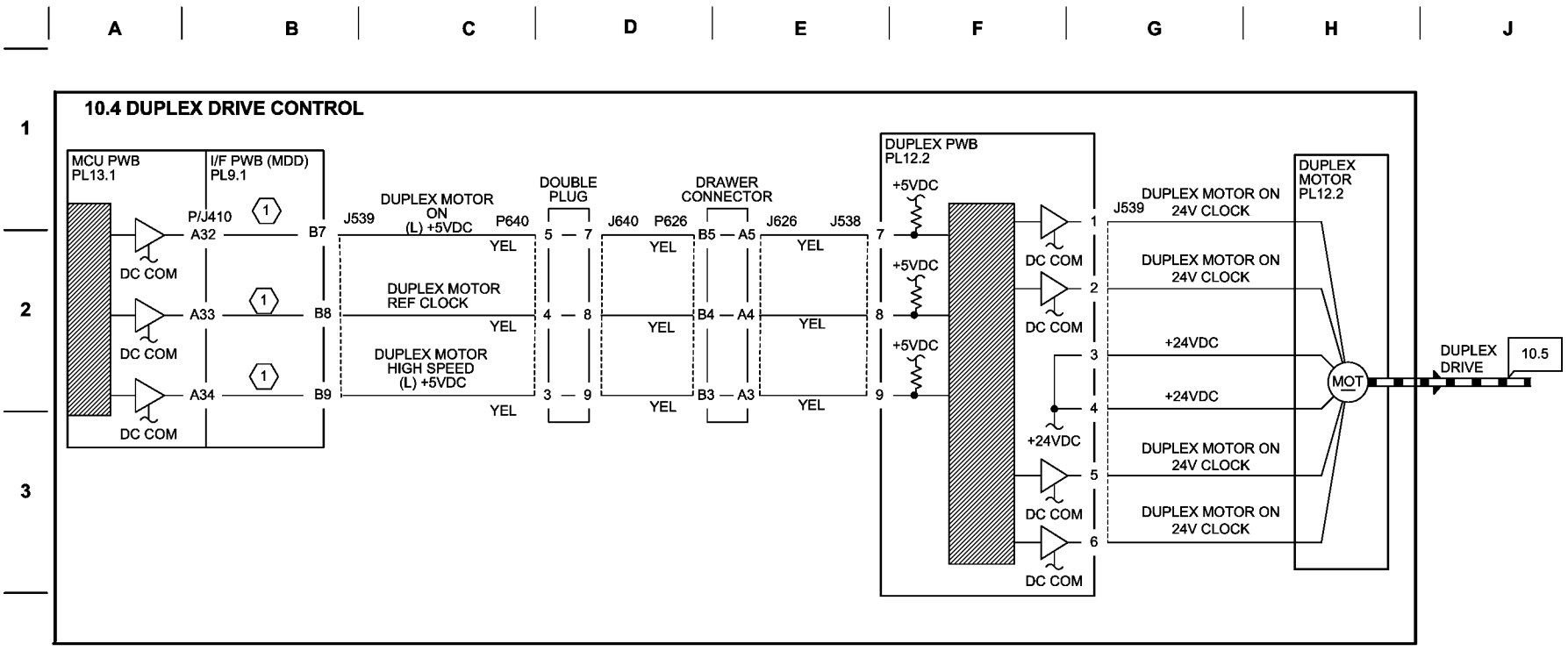


Figure 5 BSD 10.3B Inverter/Copy Transport



NOTE:
(1) SPEED AND DURATION VARY ACCORDING TO DIAG CODE.

Duplex Motor	Speed	Duration
CC[008-009]	200mm/sec	1000ms
CC[008-010]	104mm/sec	1000ms
CC[008-070]	165mm/sec	1000ms
CC[008-069]	317mm/sec	1000ms
CC[008-053]	302mm/sec	1000ms
CC[008-073]	400mm/sec	1000ms
CC[008-074]	208mm/sec	1000ms
CC[008-011]	200mm/sec	Long
CC[008-012]	104mm/sec	Long
CC[008-072]	165mm/sec	Long
CC[008-071]	317mm/sec	Long
CC[008-054]	302mm/sec	Long
CC[008-075]	400mm/sec	Long
CC[008-076]	208mm/sec	Long

Figure 6 BSD 10.4 Duplex Drive Control

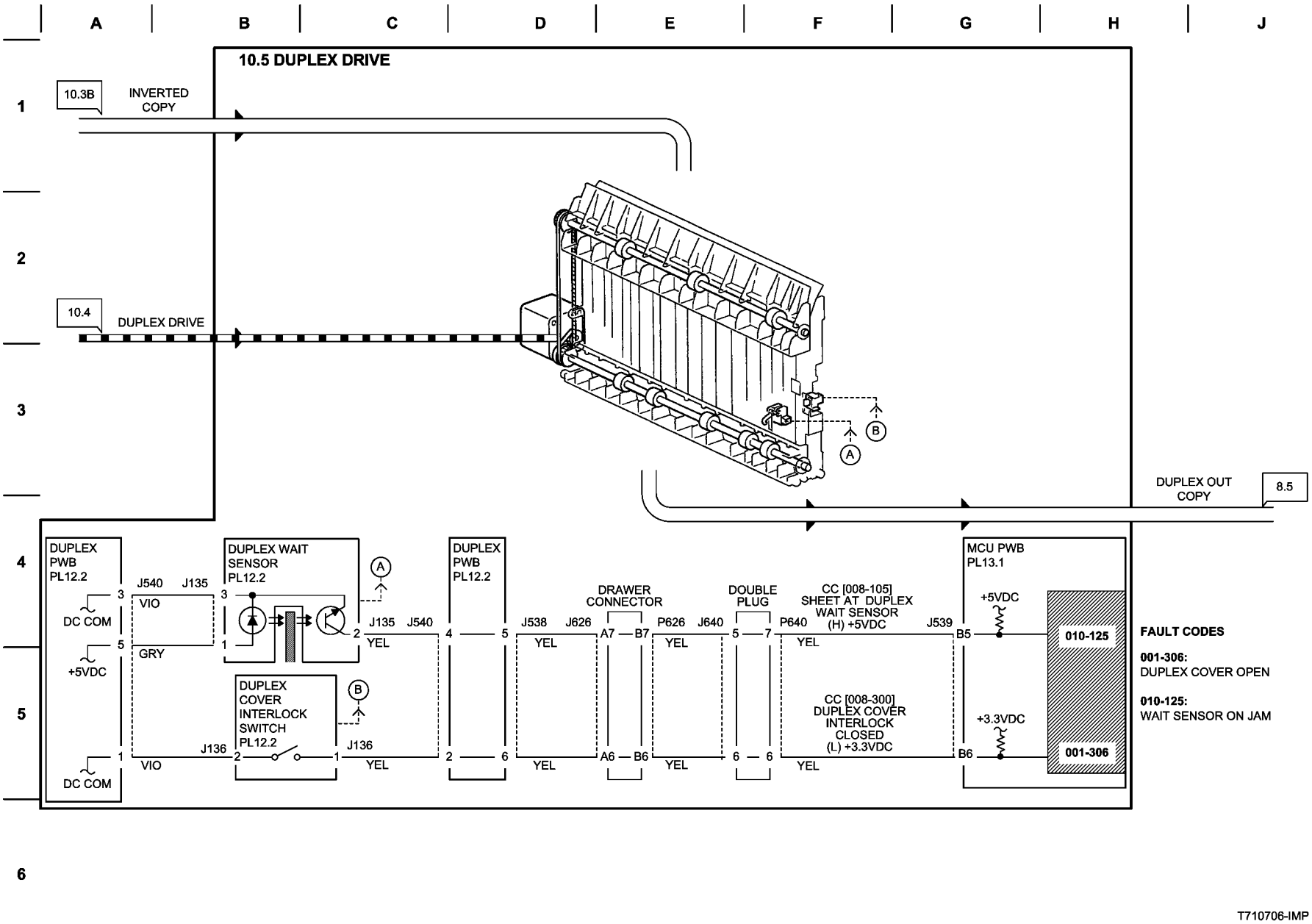


Figure 7 BSD 10.5 Duplex Drive

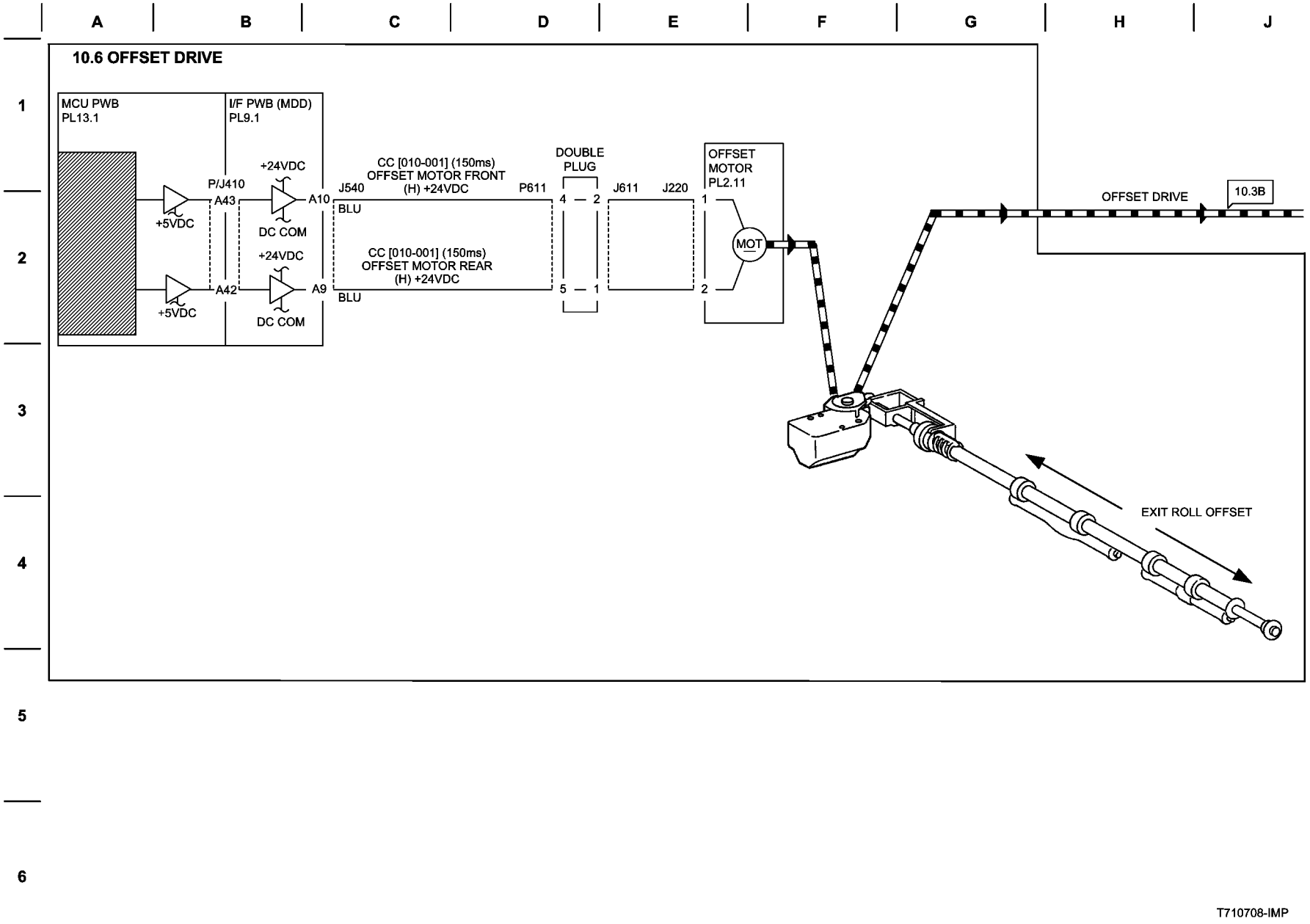


Figure 8 BSD 10.6 Offset Drive

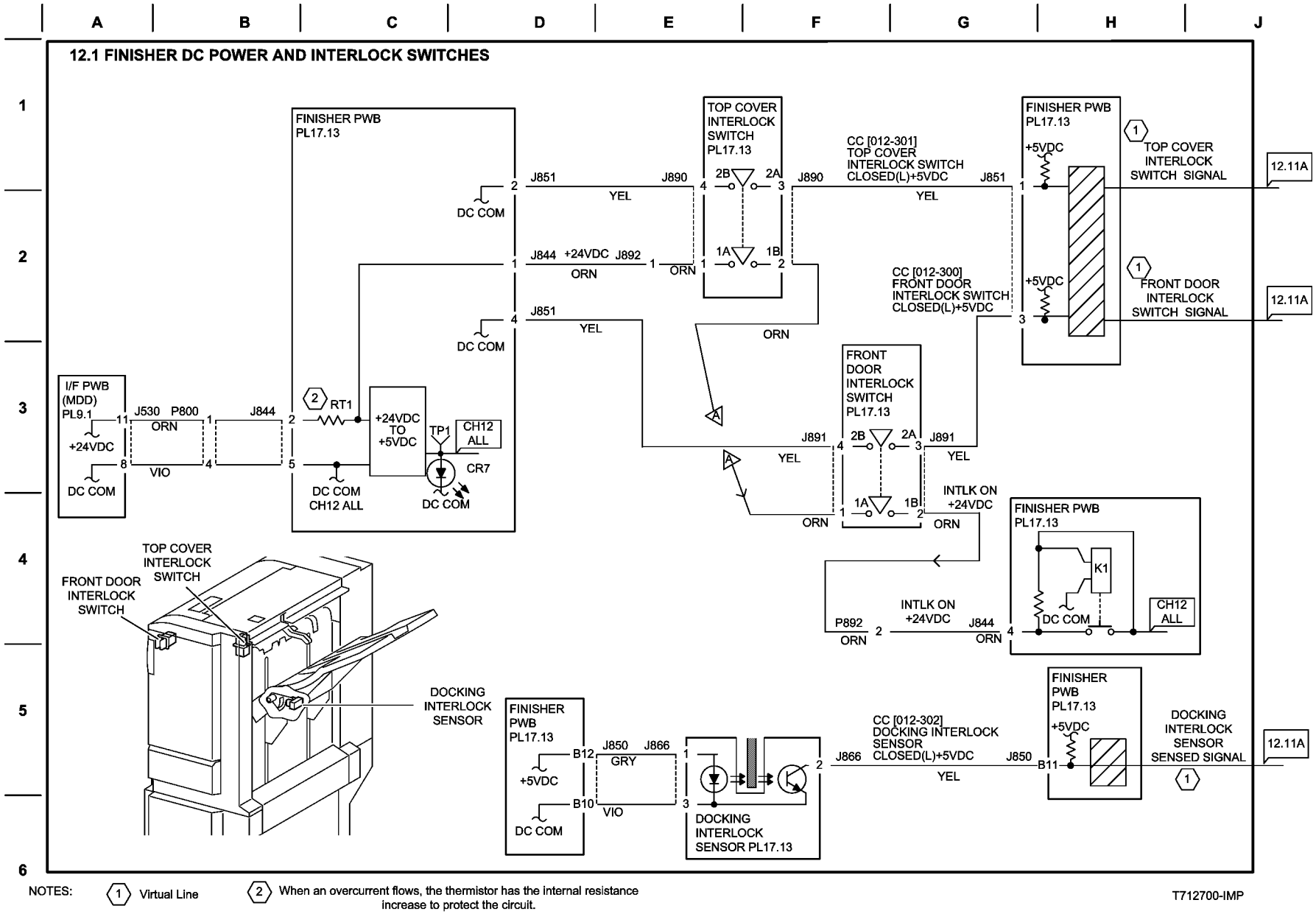


Figure 1 BSD 12.1 Office Finisher DC Power and Interlocks

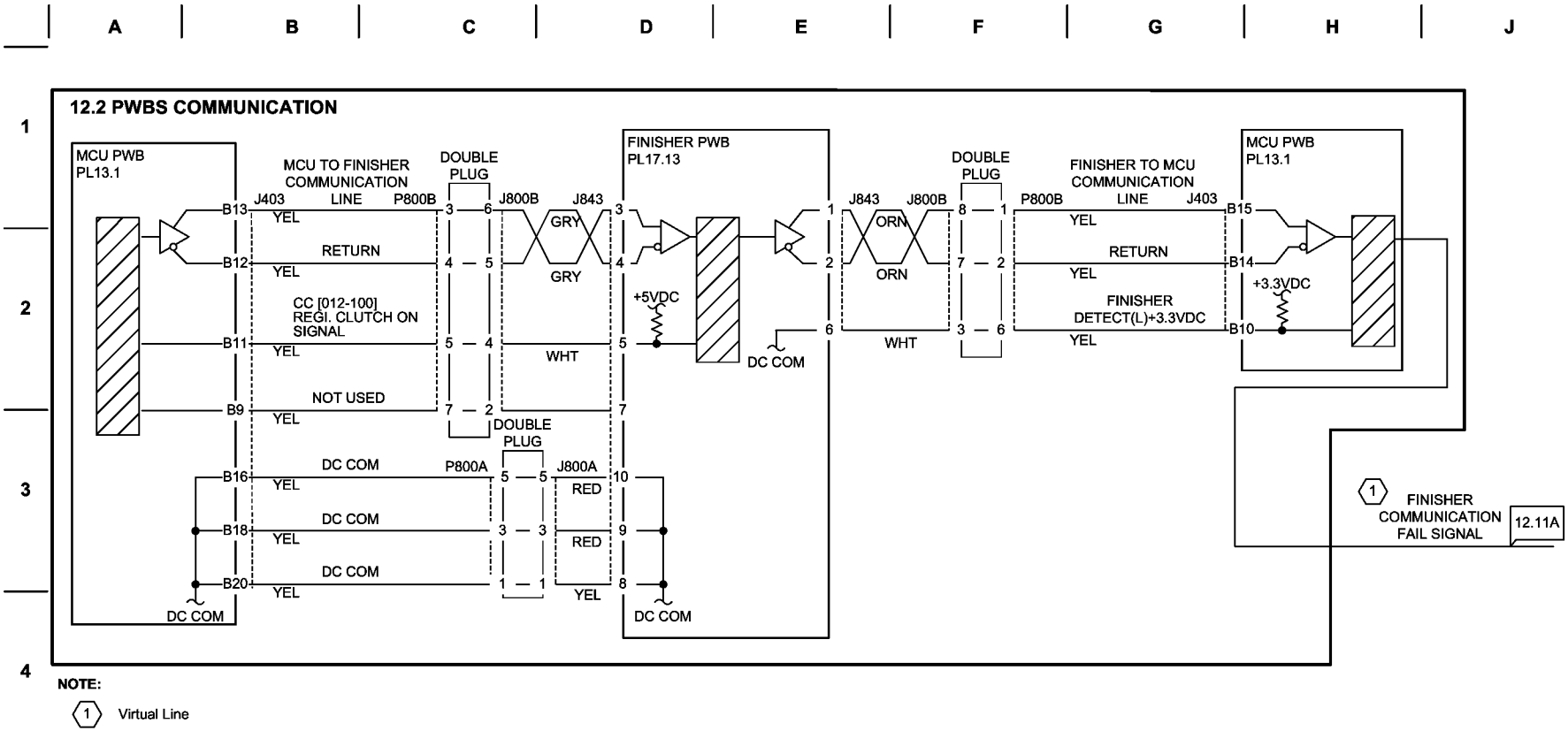


Figure 2 BSD 12.2 Office Finisher PWBS Communications

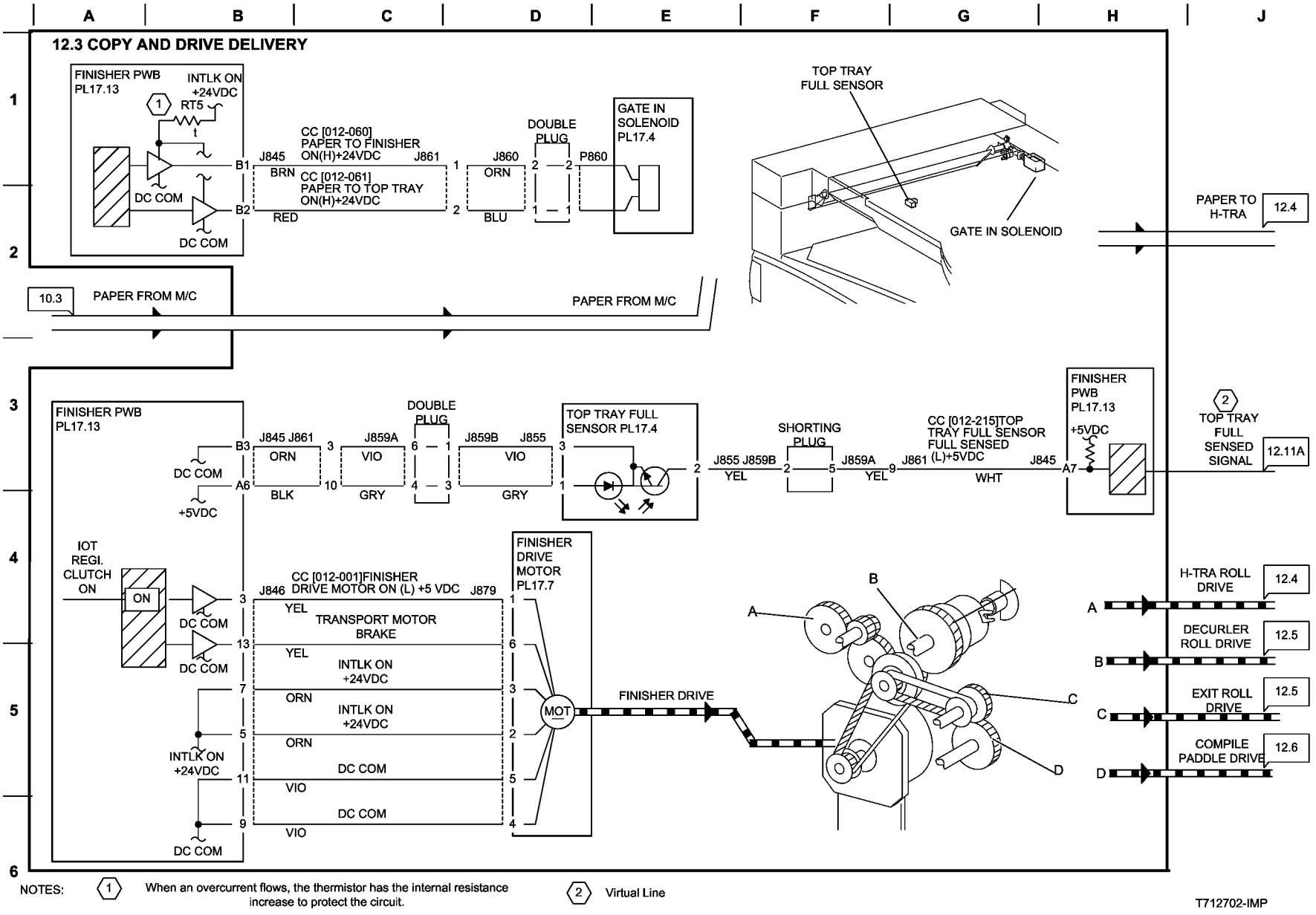


Figure 3 BSD 12.3 Office Finisher Copy and Drive Delivery

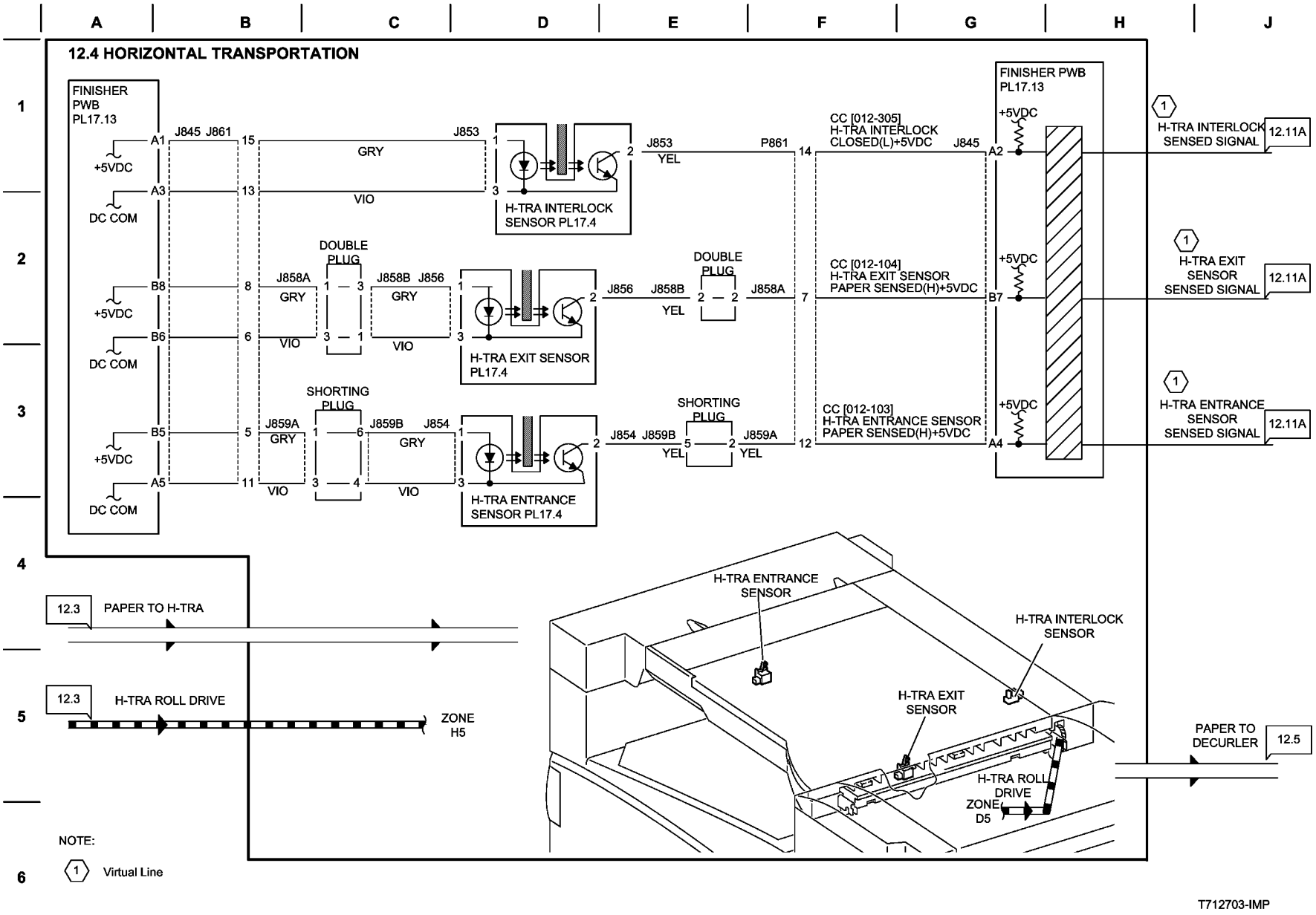


Figure 4 BSD 12.4 Office Finisher Horizontal Transportation

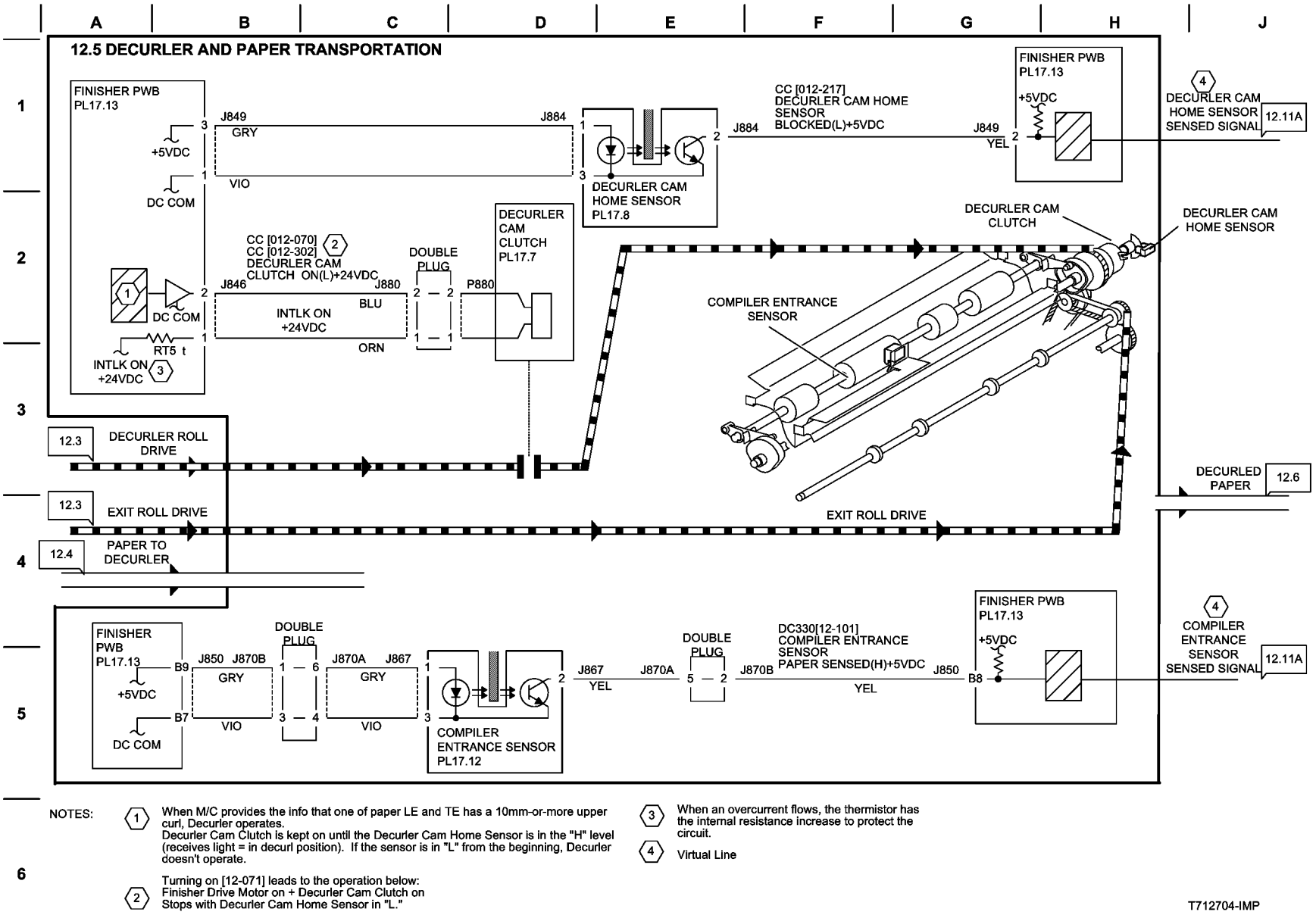


Figure 5 BSD 12.5 Office Finisher Decurler and Paper Transportation

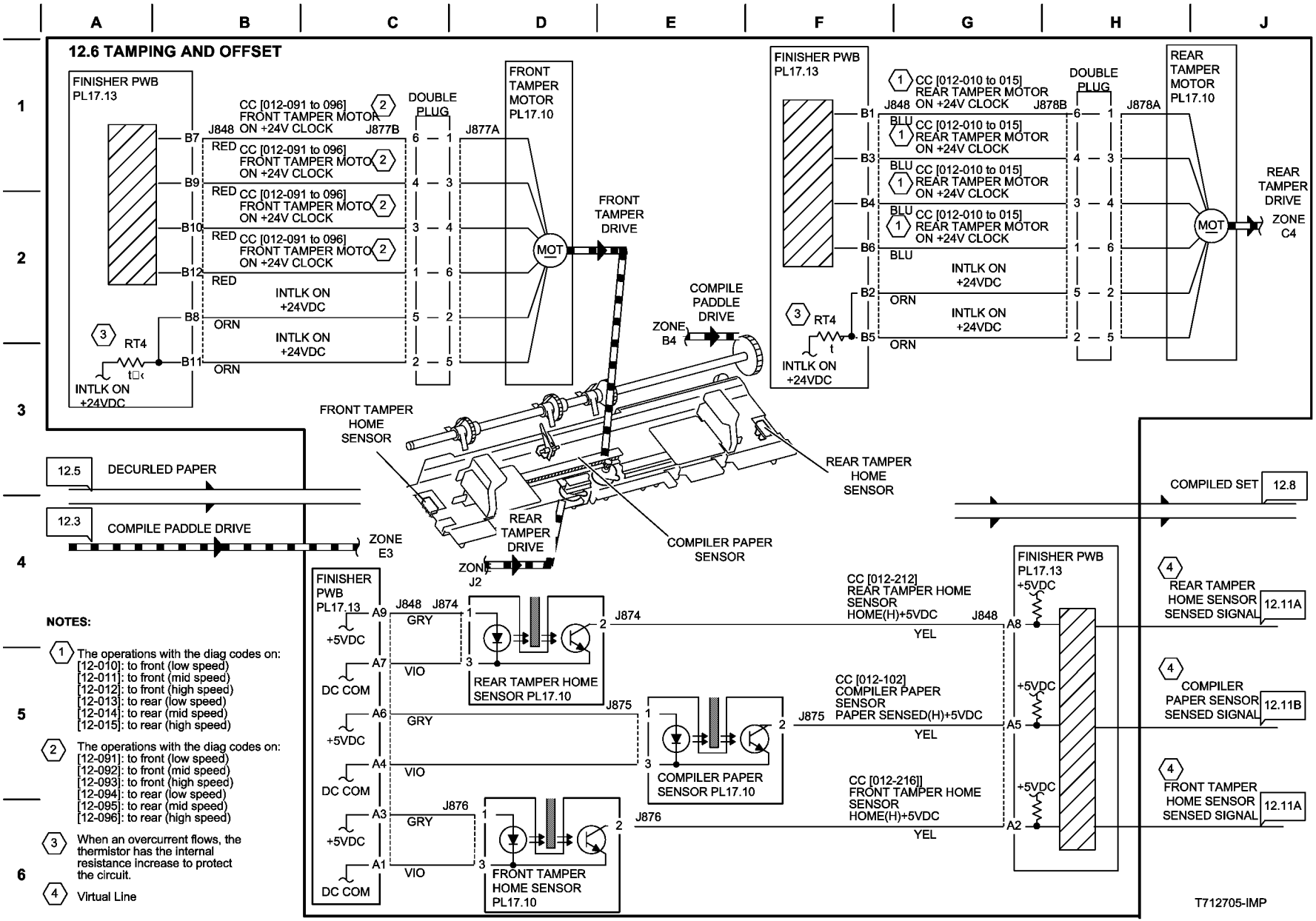
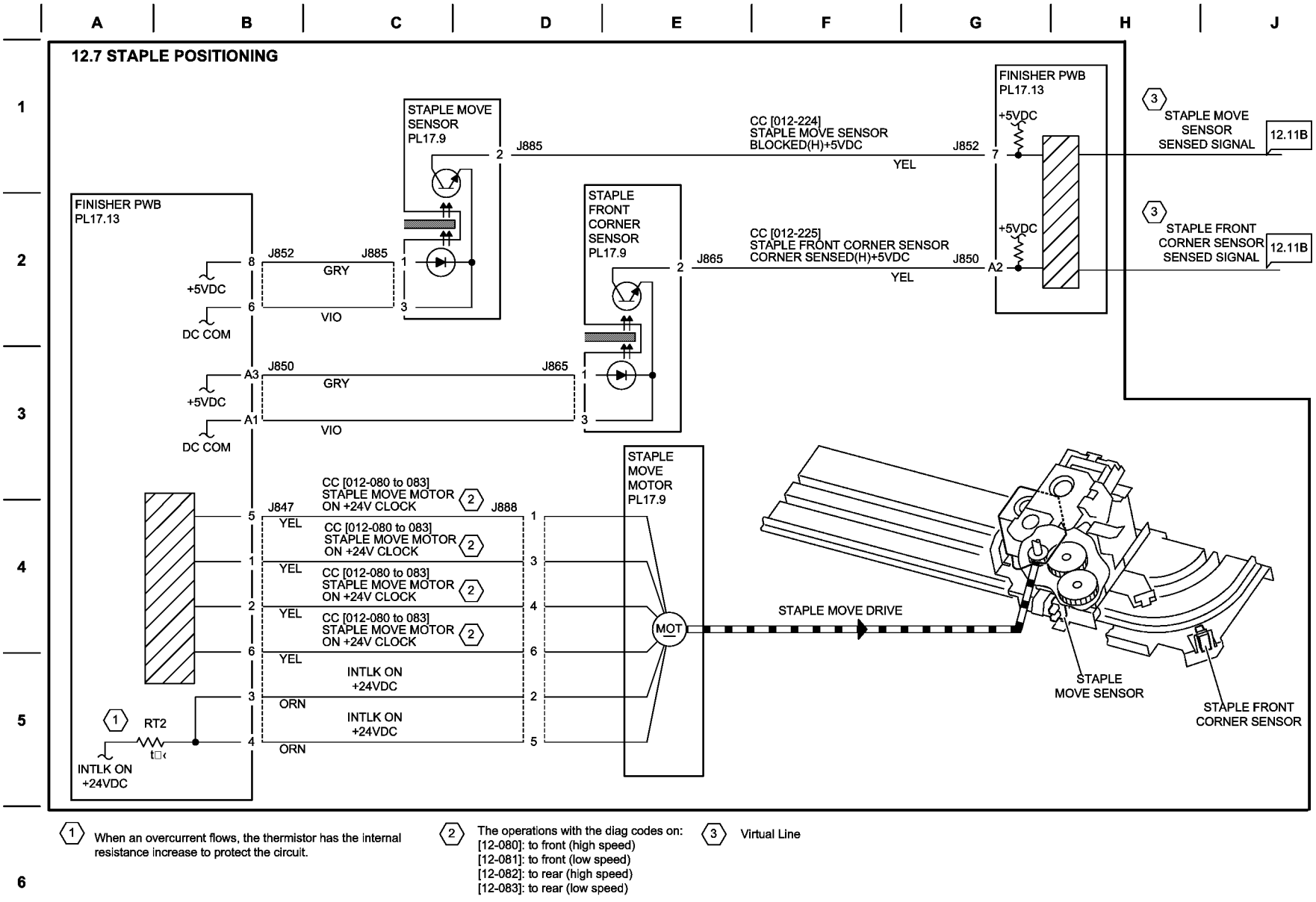


Figure 6 BSD 12.6 Office Finisher Tamping and Offset



1 When an overcurrent flows, the thermistor has the internal resistance increase to protect the circuit.

2 The operations with the diag codes on:
[12-080]: to front (high speed)
[12-081]: to front (low speed)
[12-082]: to rear (high speed)
[12-083]: to rear (low speed)

3 Virtual Line

Figure 7 BSD 12.7 Office Finisher Staple Positioning

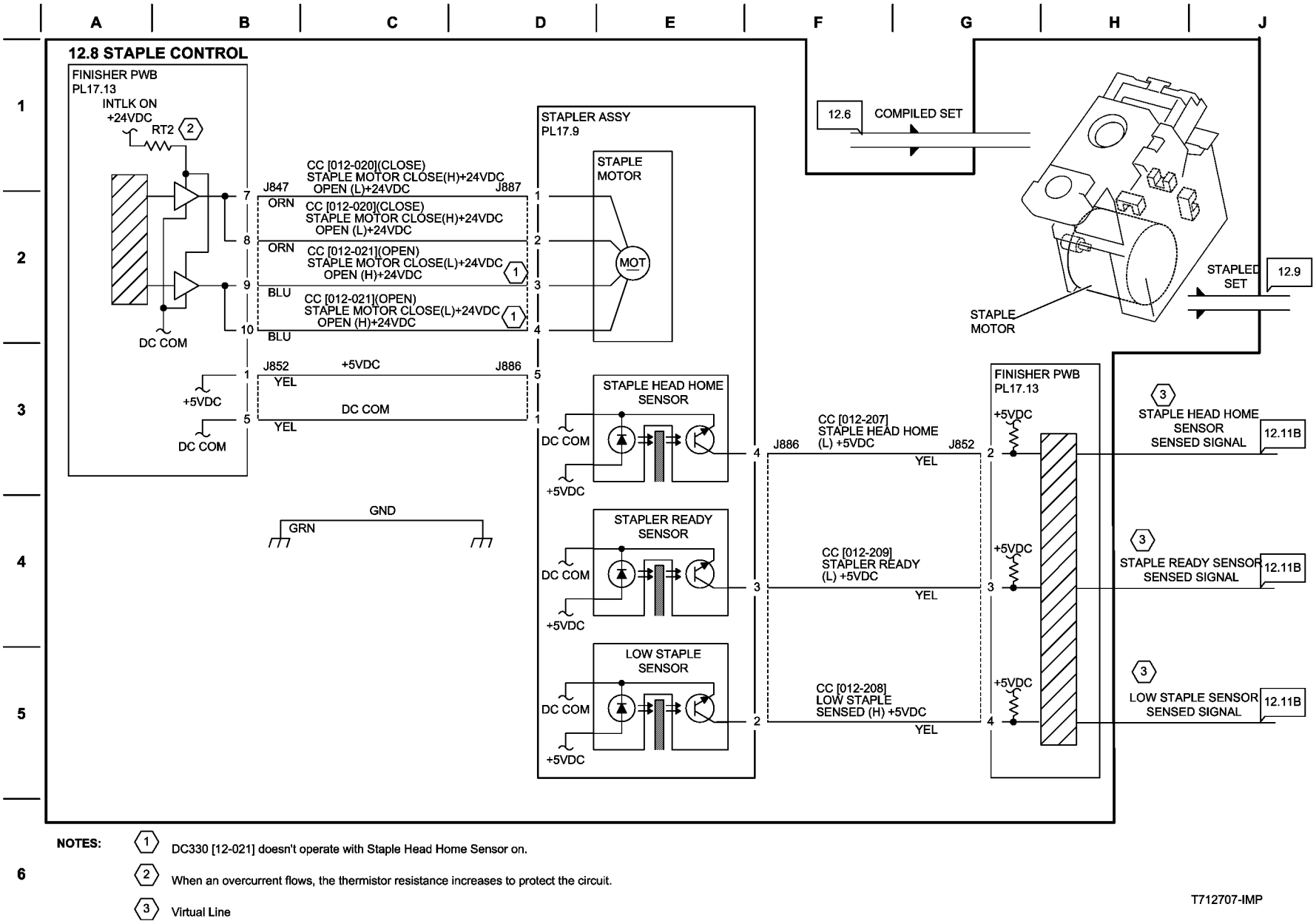


Figure 8 BSD 12.8 Office Finisher Staple Control

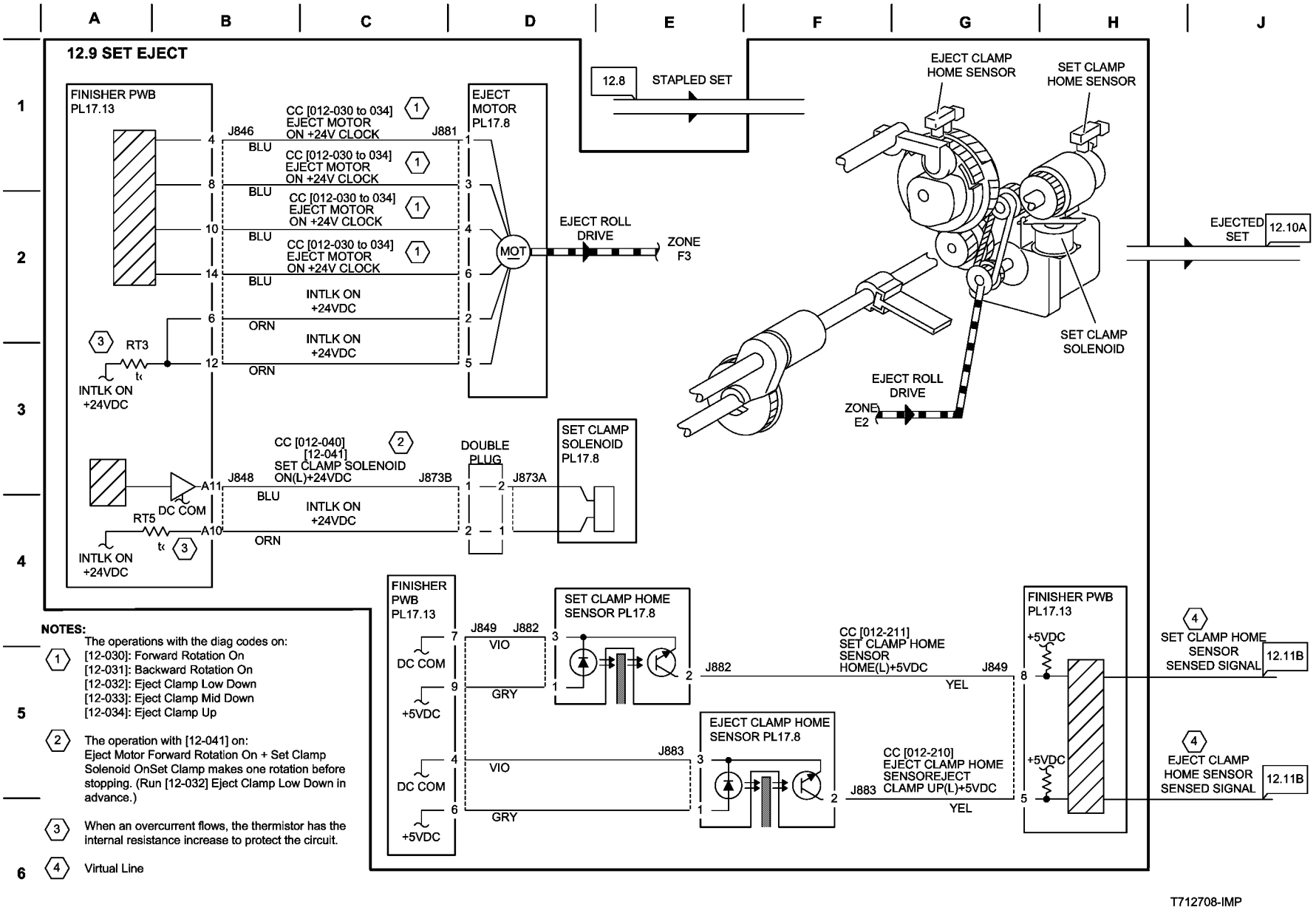


Figure 9 BSD 12.9 Office Finisher Set Eject

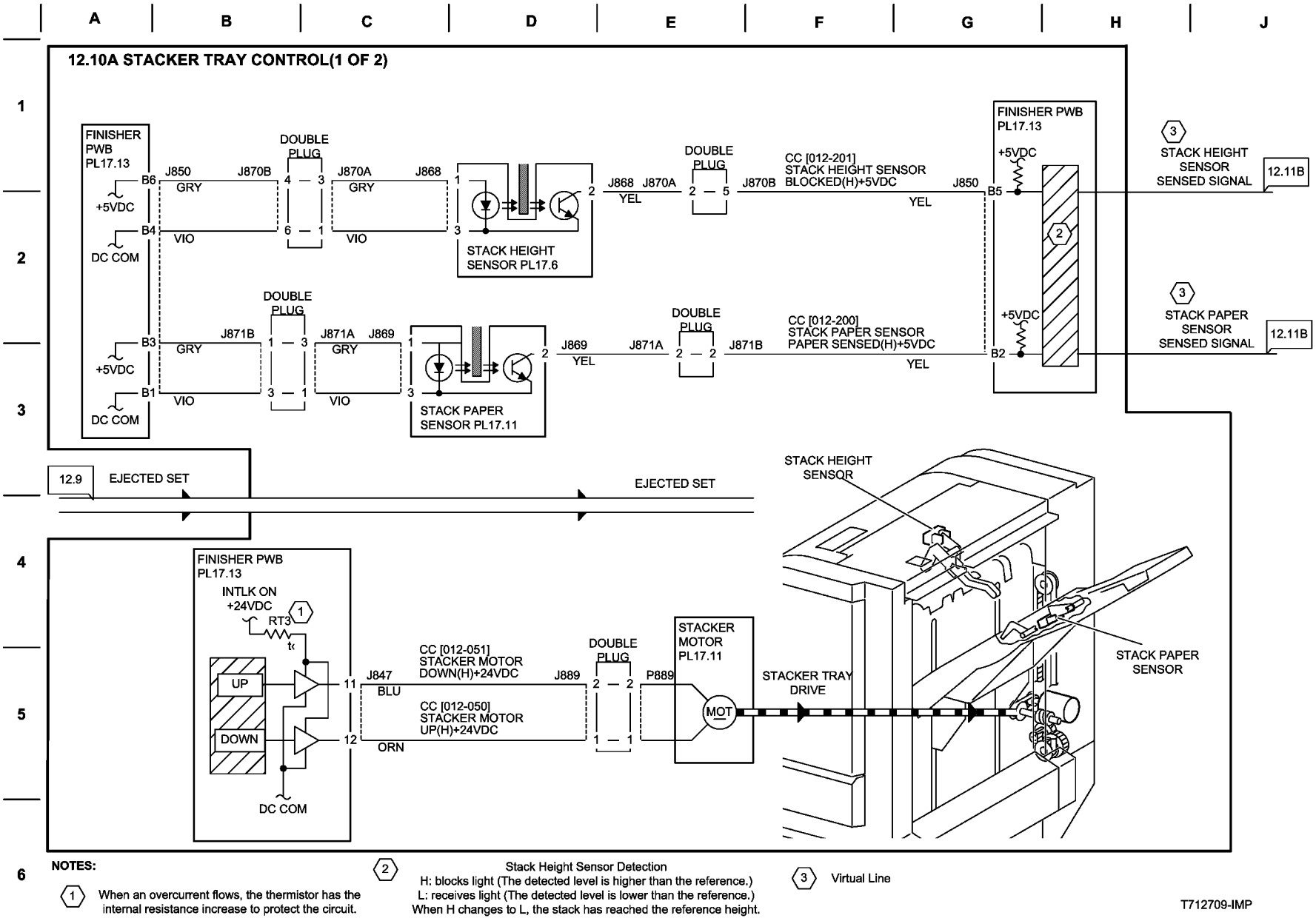


Figure 10 BSD 12.10A Office Finisher Stacker Tray Control (1 of 2)

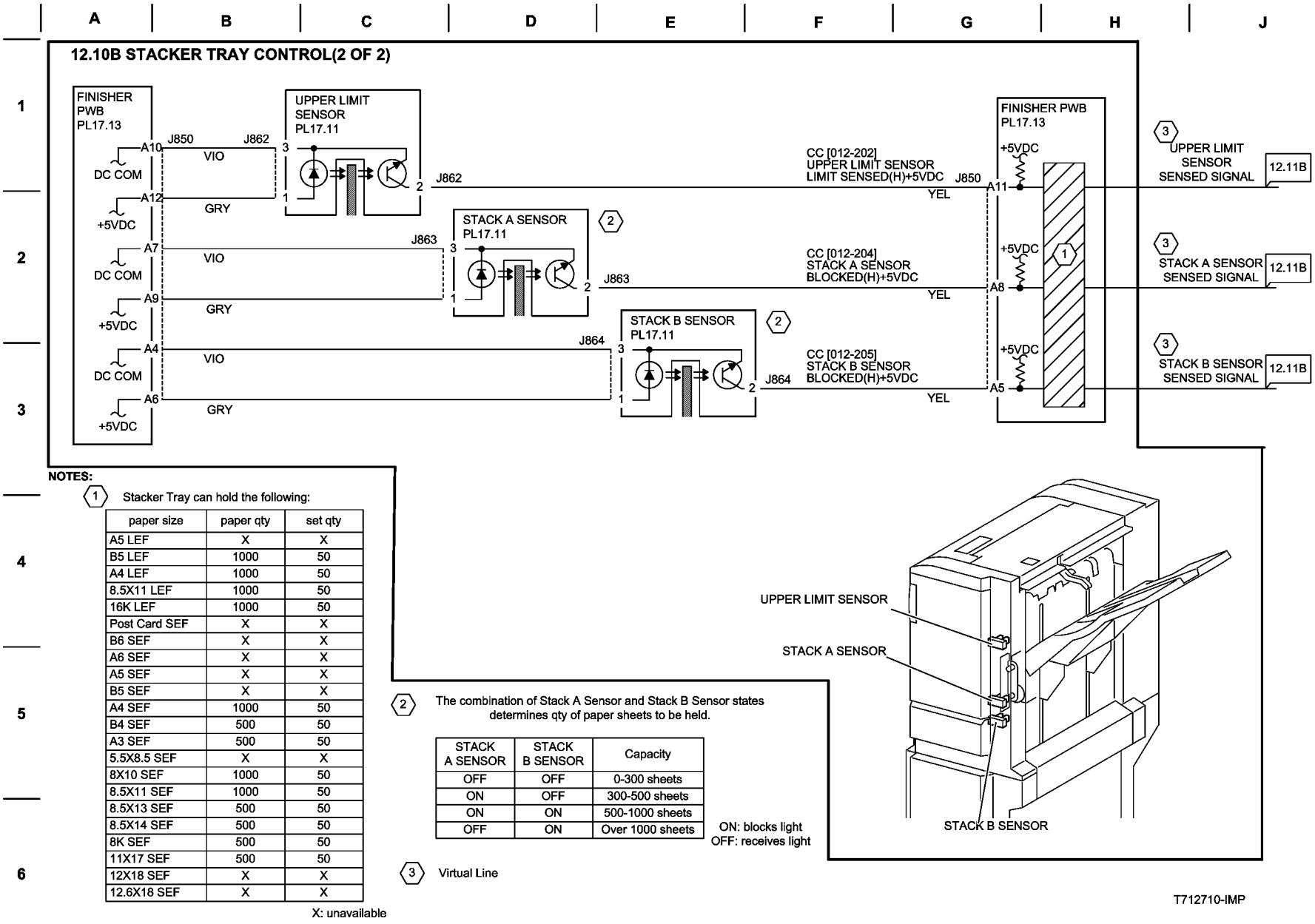


Figure 11 BSD 12.10B Office Finisher Stacker Tray Control (2 of 2)

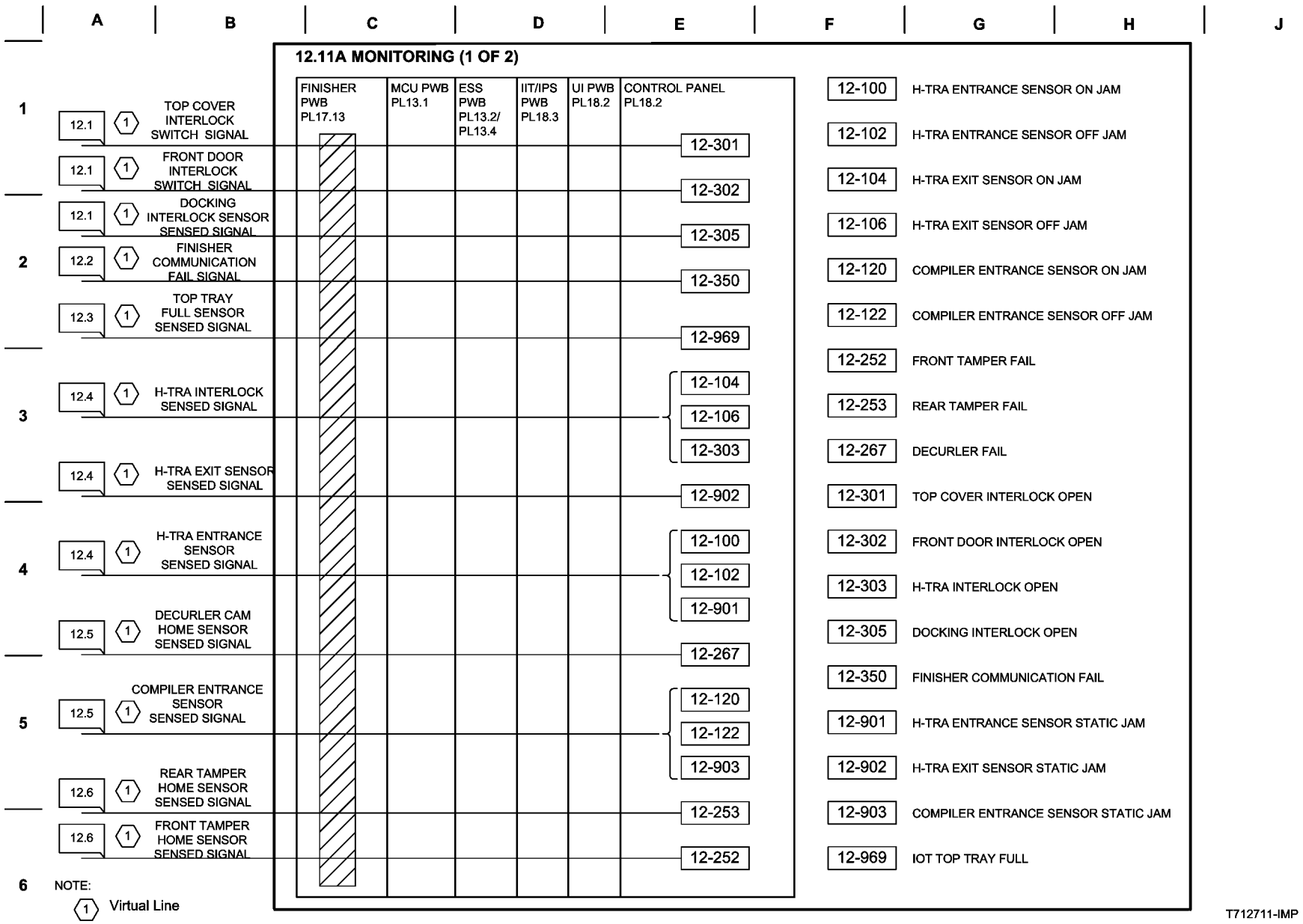


Figure 12 BSD 12.11A Office Finisher Monitoring (1 of 2)

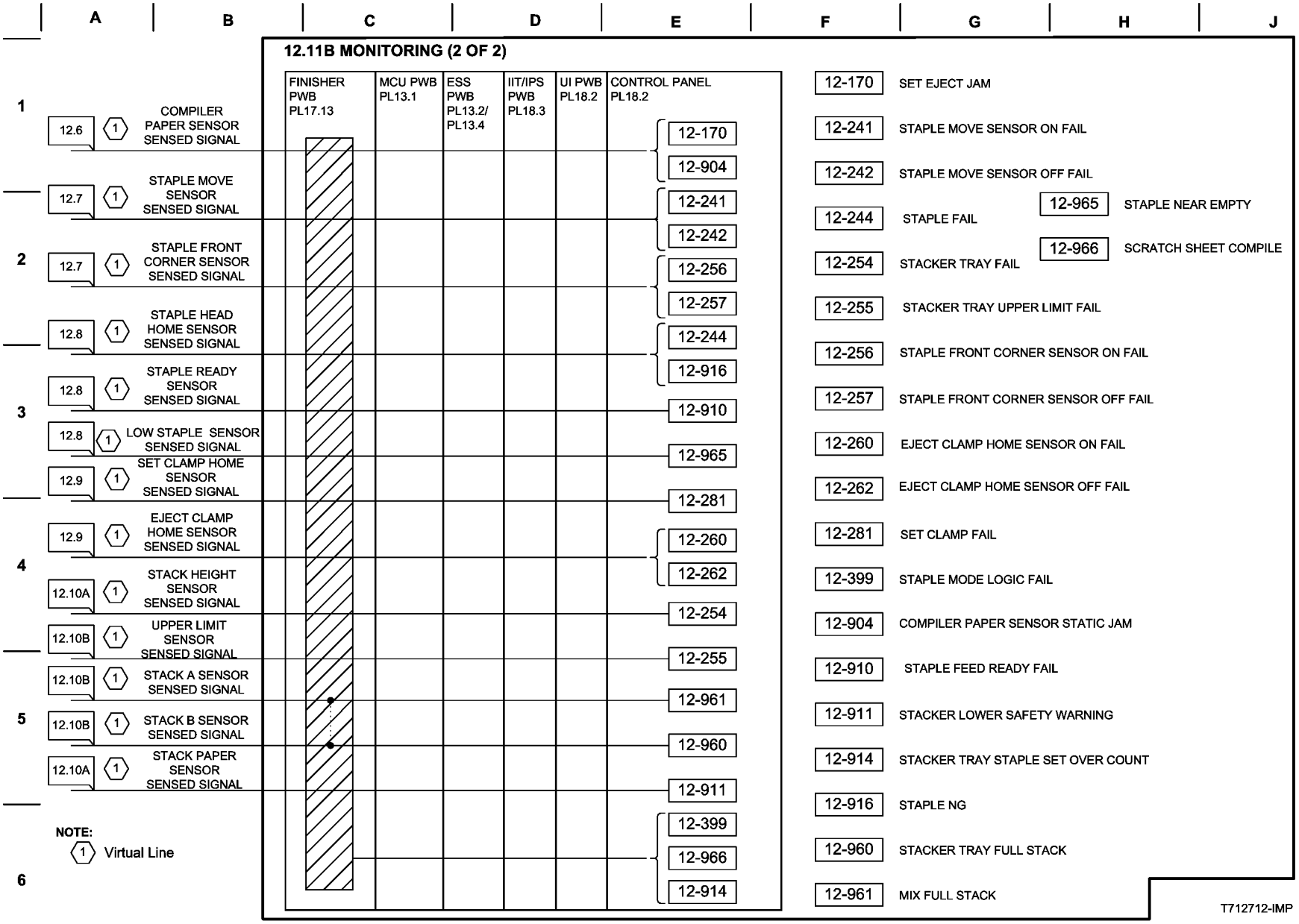


Figure 13 BSD 12.11B Office Finisher Monitoring (2 of 2)

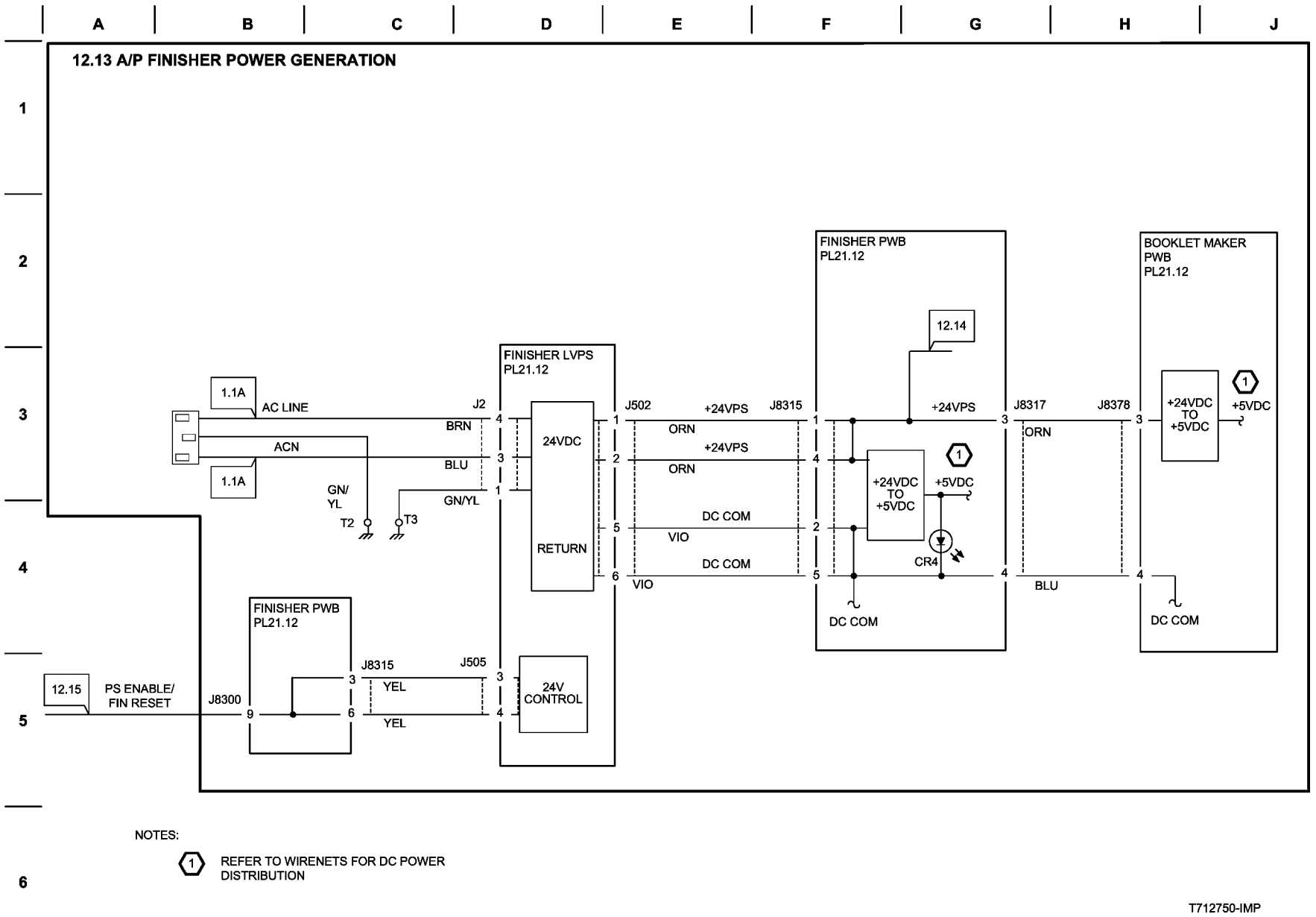


Figure 1 BSD 12.13 A/P Finisher Power Generation

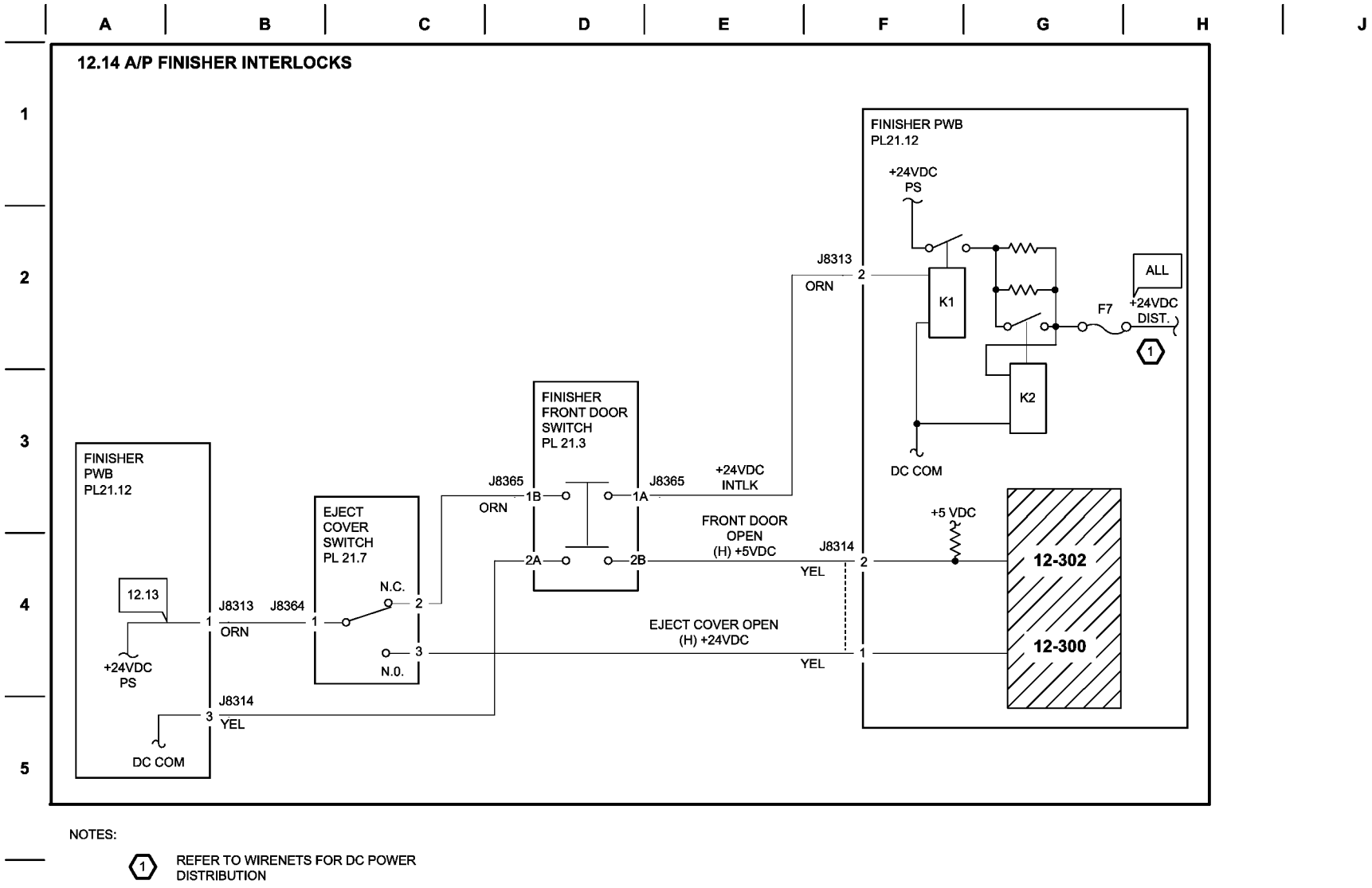


Figure 2 BSD 12.14 A/P Finisher Interlocks

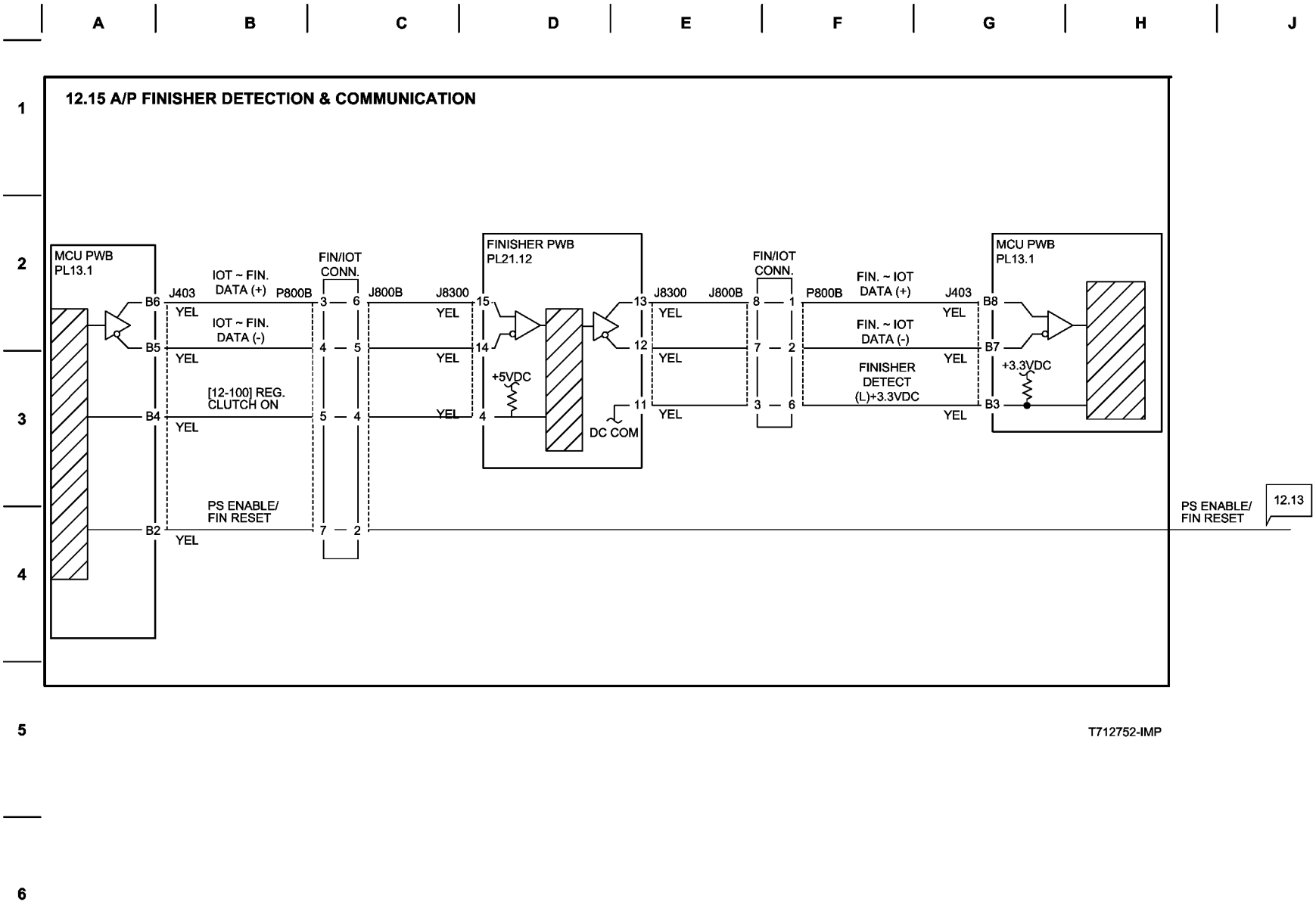


Figure 3 BSD 12.15 A/P Finisher Detection & Communication

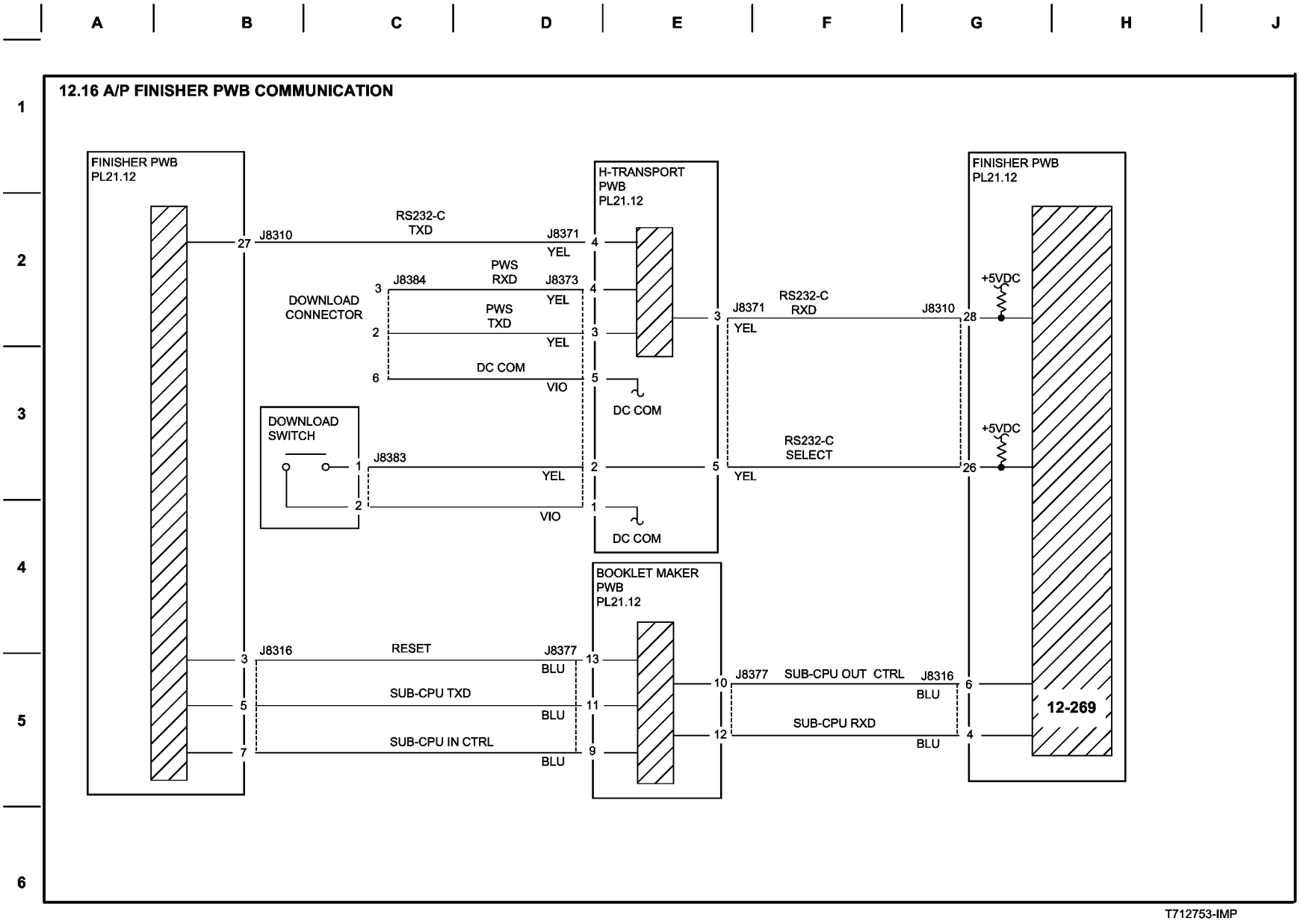


Figure 4 BSD 12.16 A/P Finisher PWB Communication

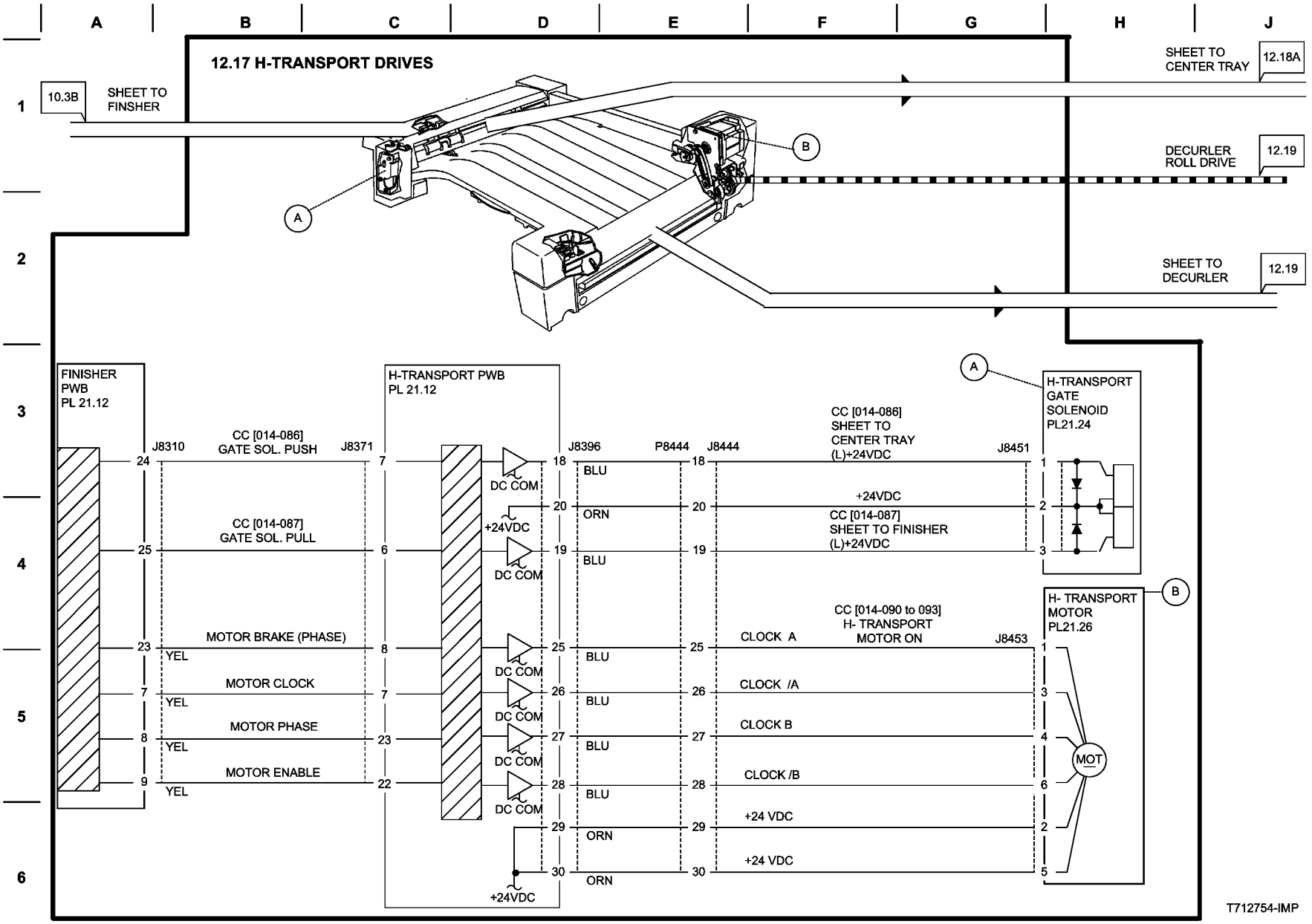


Figure 5 BSD 12.17 A/P Finisher H-Transport Drives

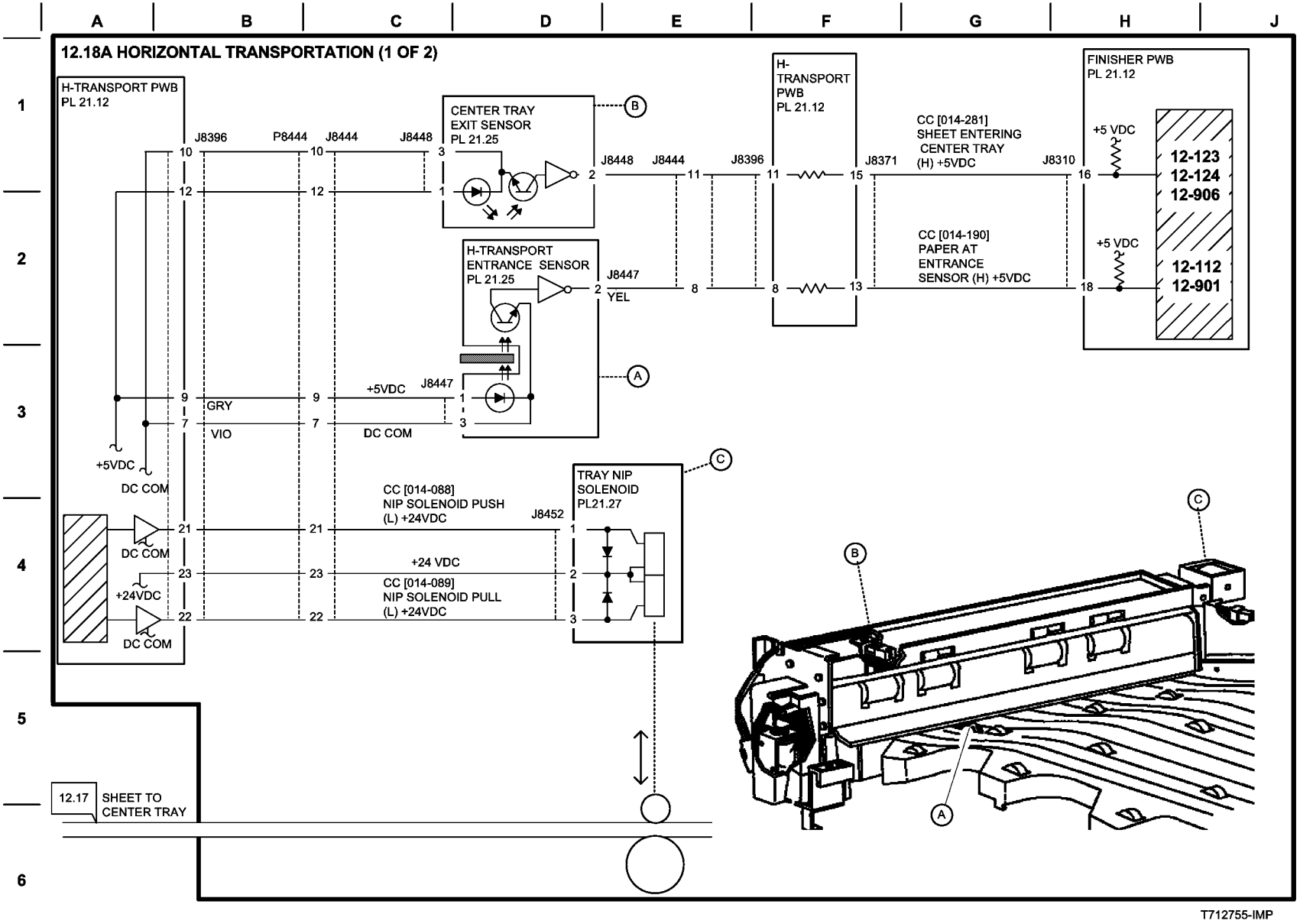


Figure 6 BSD 12.18A A/P Finisher Horizontal Transportation (1 of 2)

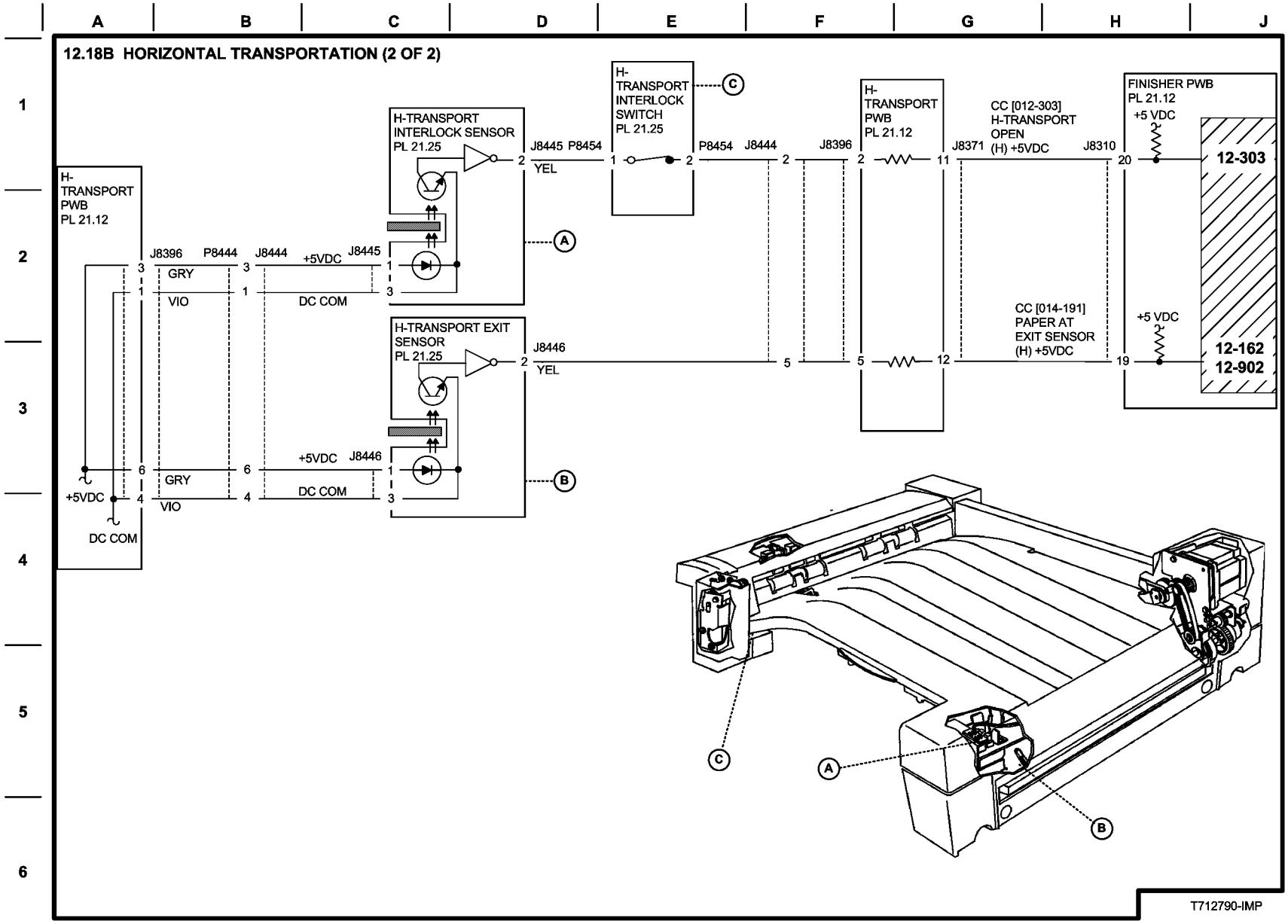


Figure 7 BSD 12.18B A/P Finisher Horizontal Transportation (2 of 2)

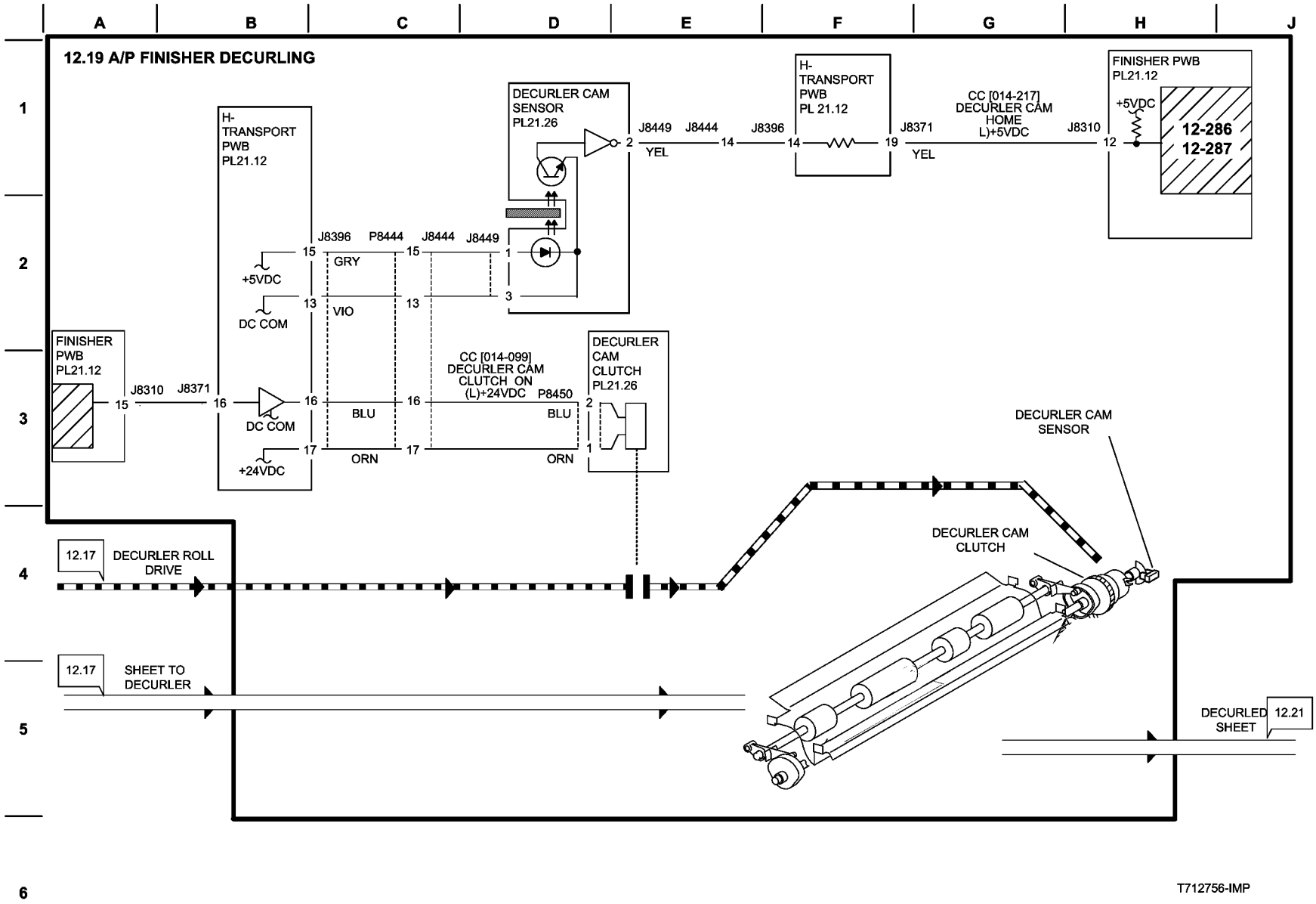


Figure 8 BSD 12.19 A/P Finisher Decurling

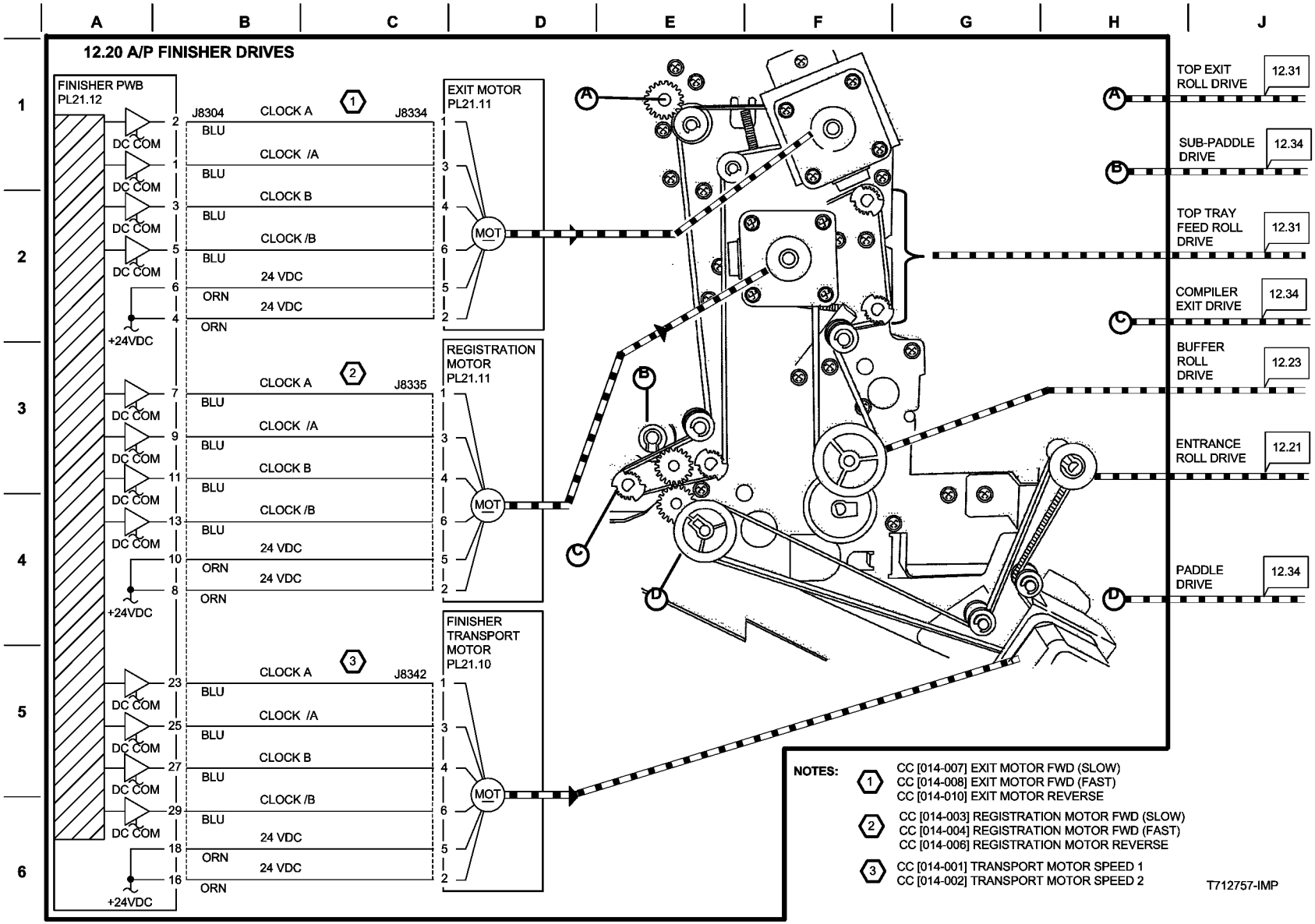


Figure 9 BSD 12.20 A/P Finisher Drives

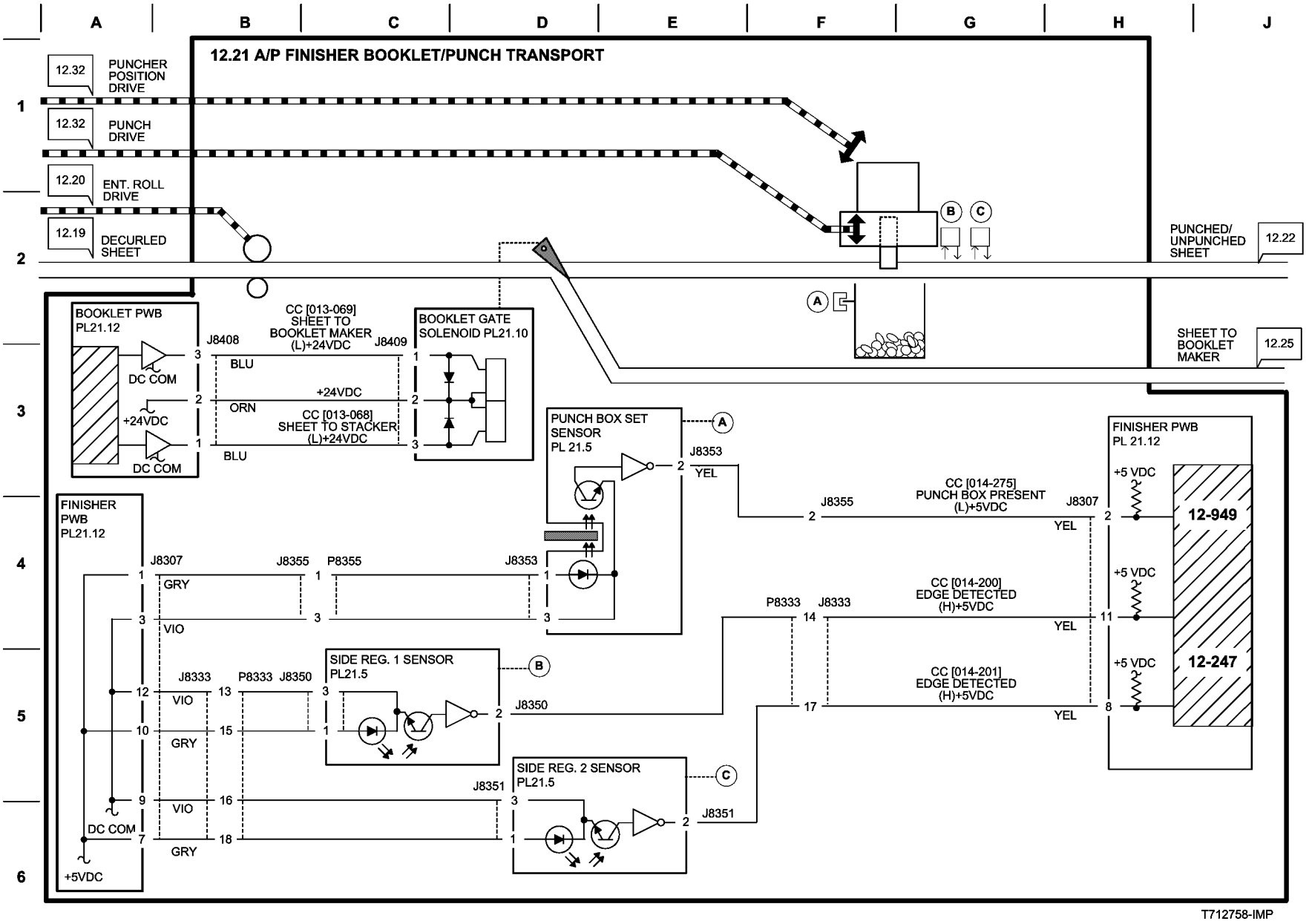


Figure 10 BSD 12.21 A/P Finisher Booklet/Punch Transport

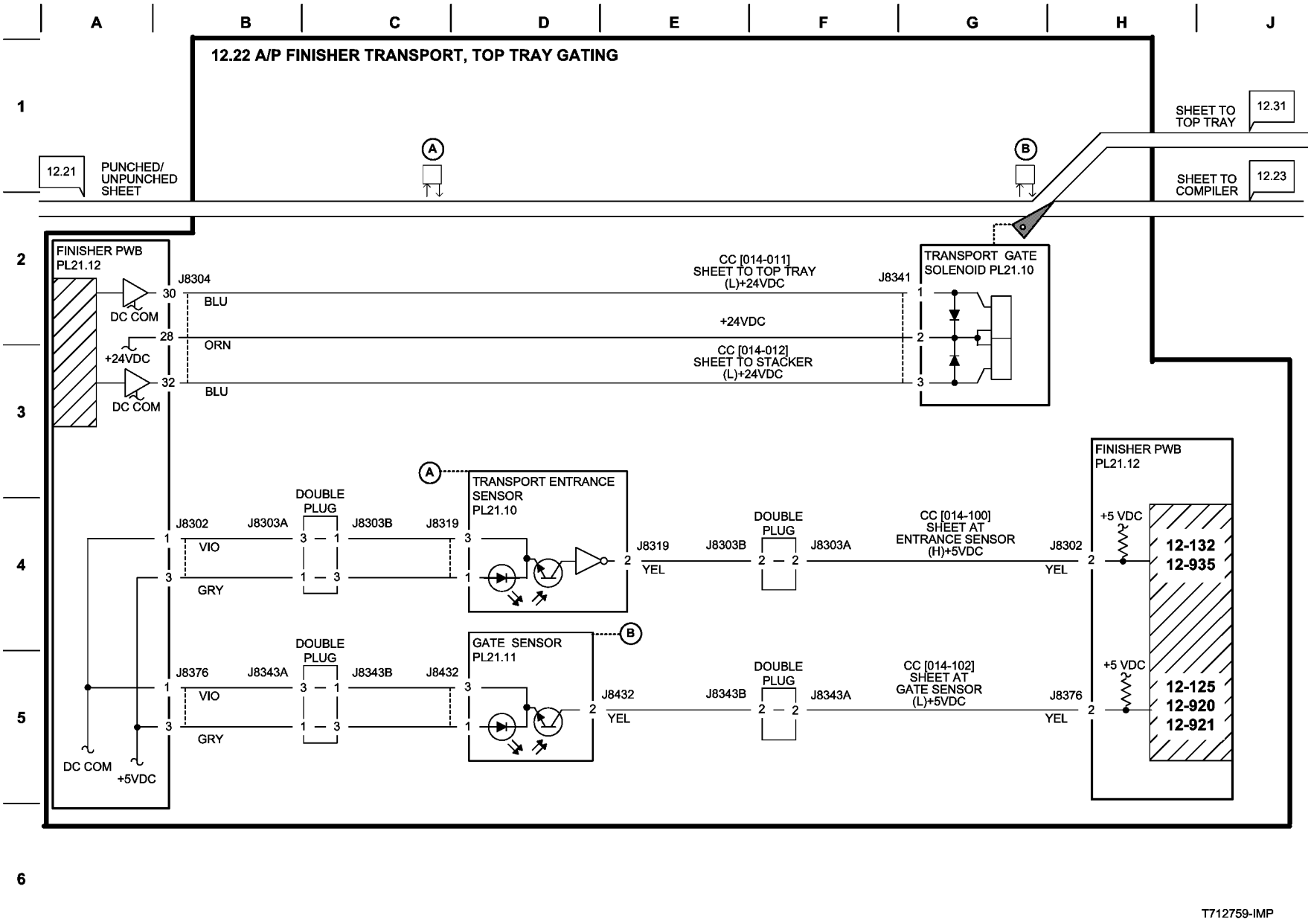


Figure 11 BSD 12.22 A/P Finisher Transport/Top Tray Gating

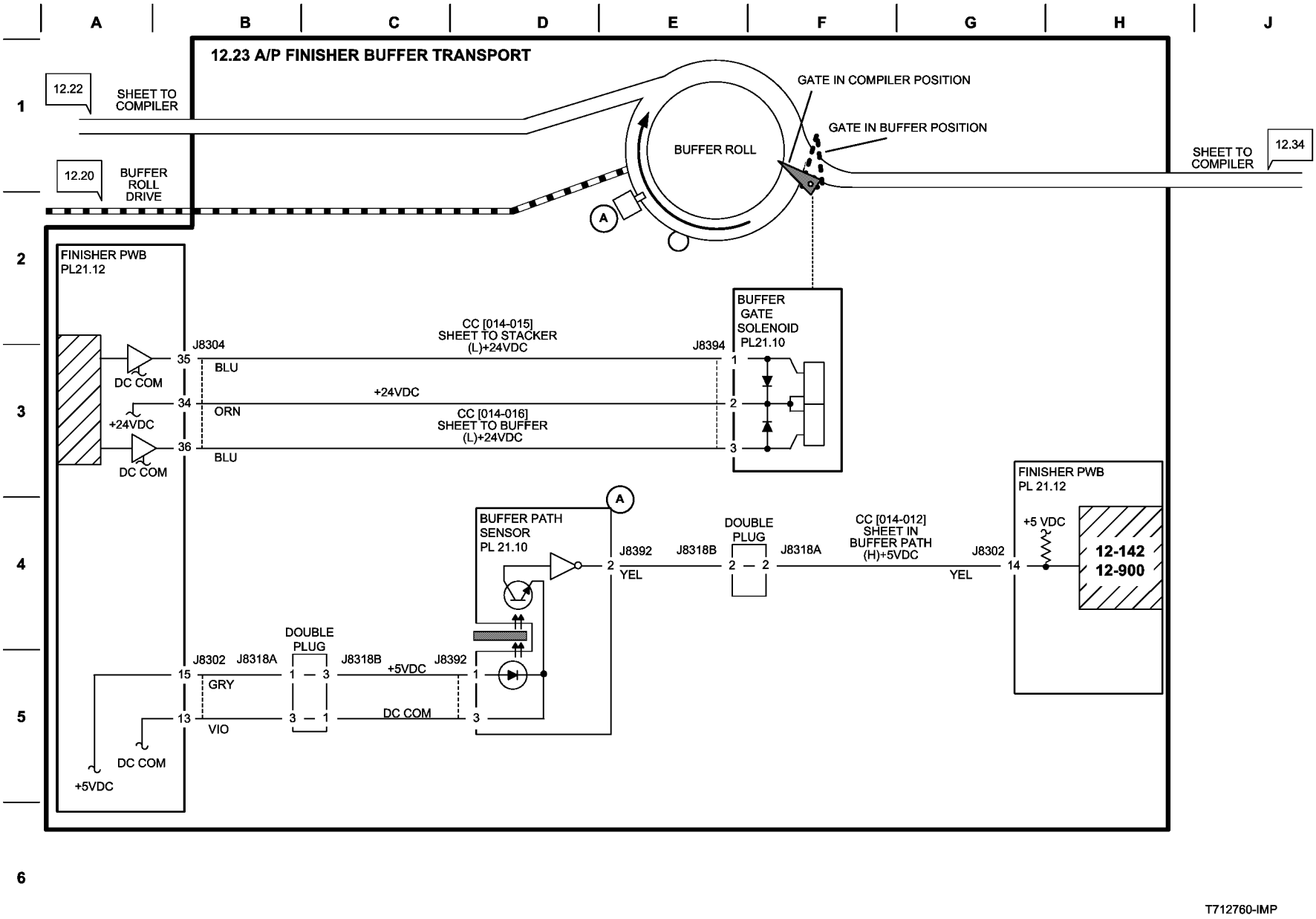


Figure 12 BSD 12.23 A/P Finisher Buffer Transport

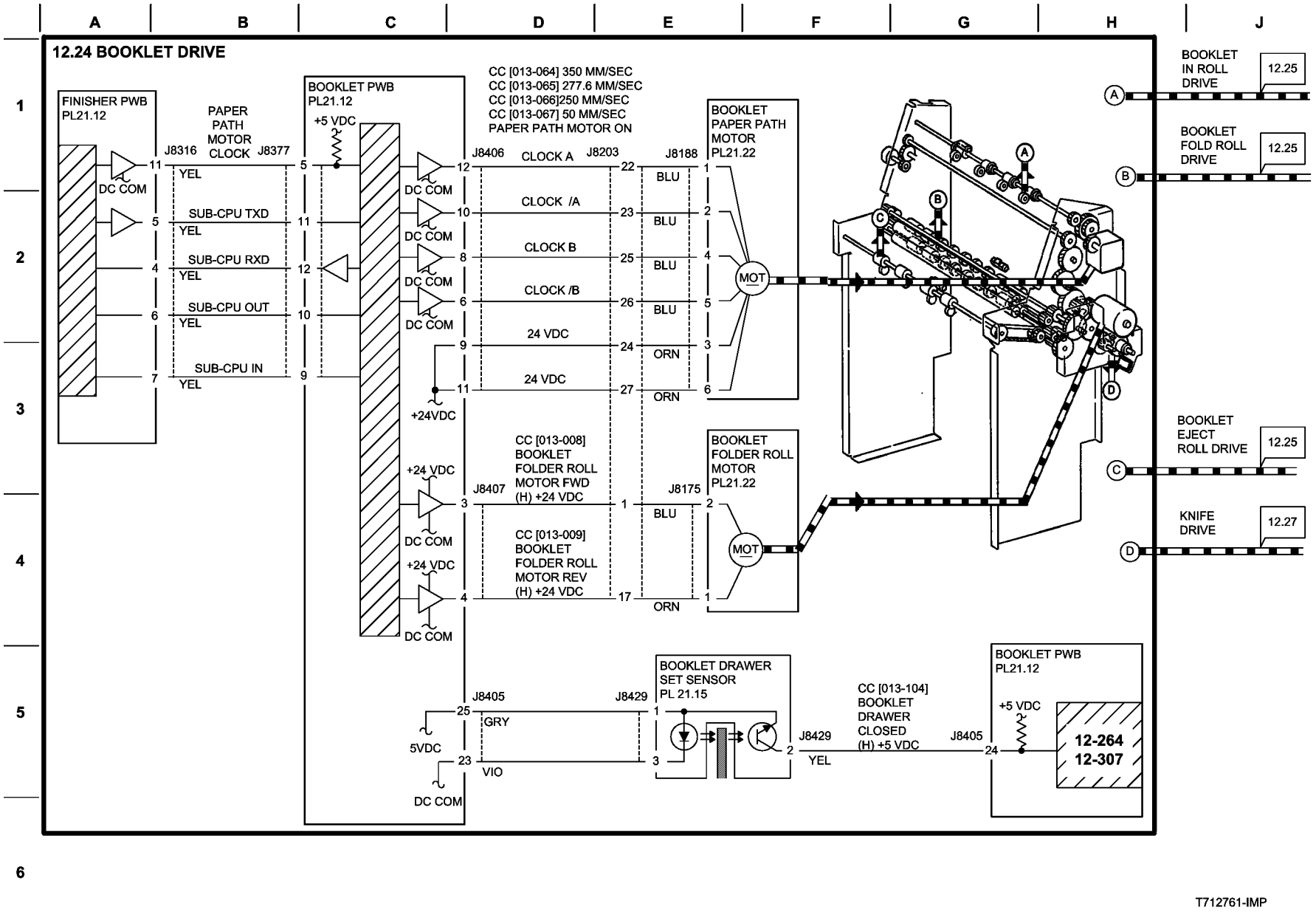


Figure 13 BSD 12.24 A/P Finisher Booklet Drive

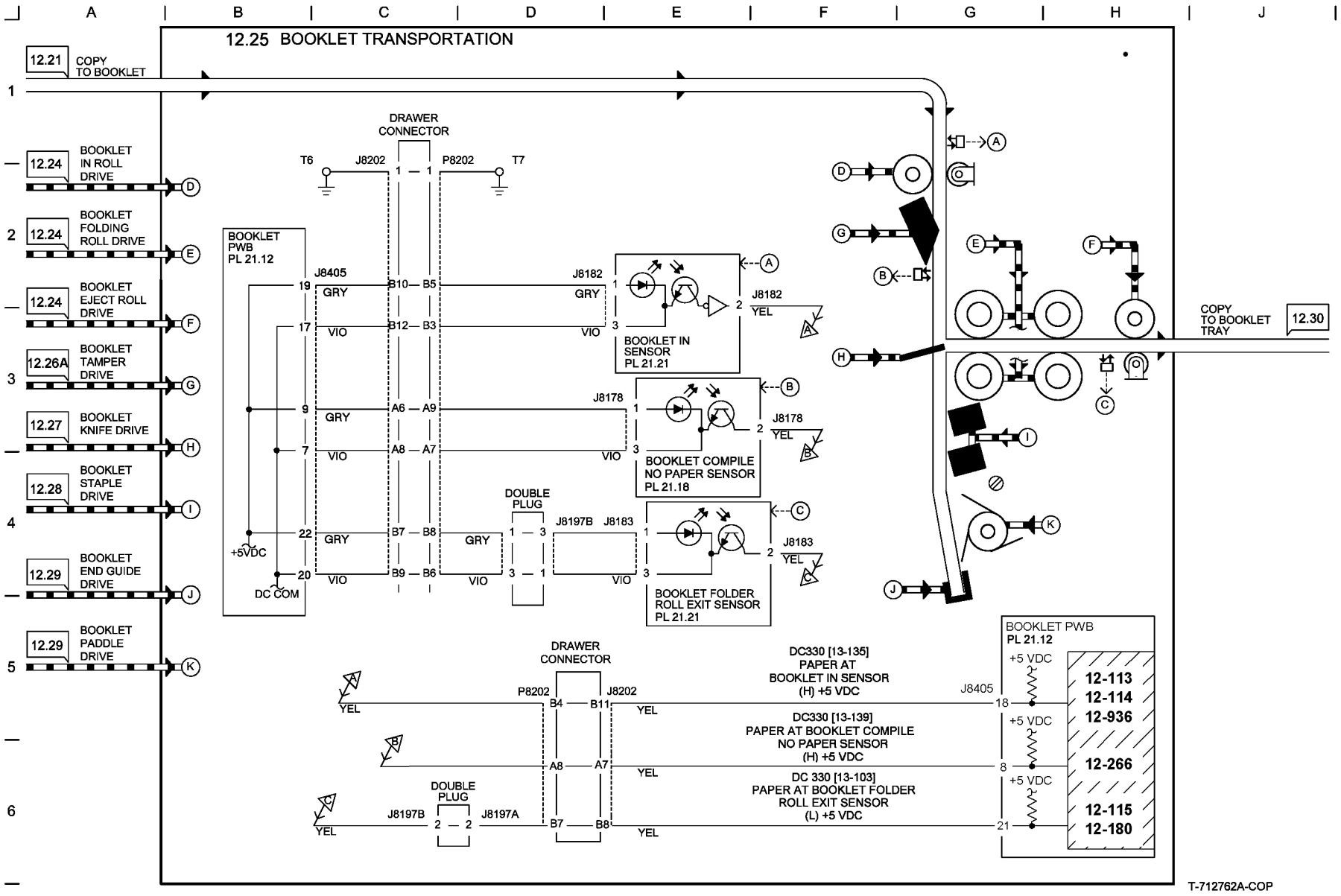


Figure 14 BSD 12.25 A/P Finisher Booklet Transportation

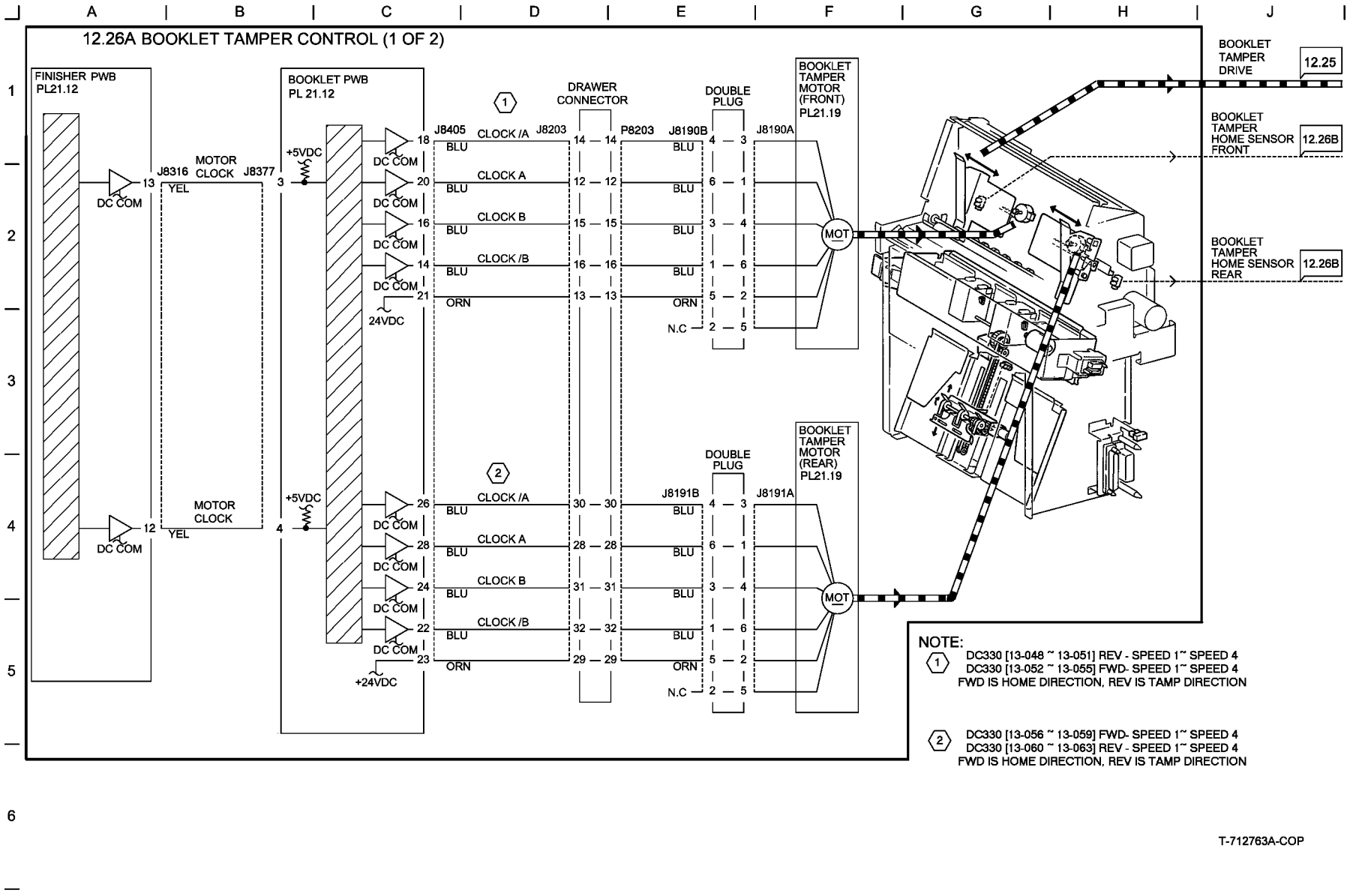


Figure 15 BSD 12.26A A/P Finisher Booklet Tamper Control (1 of 2)

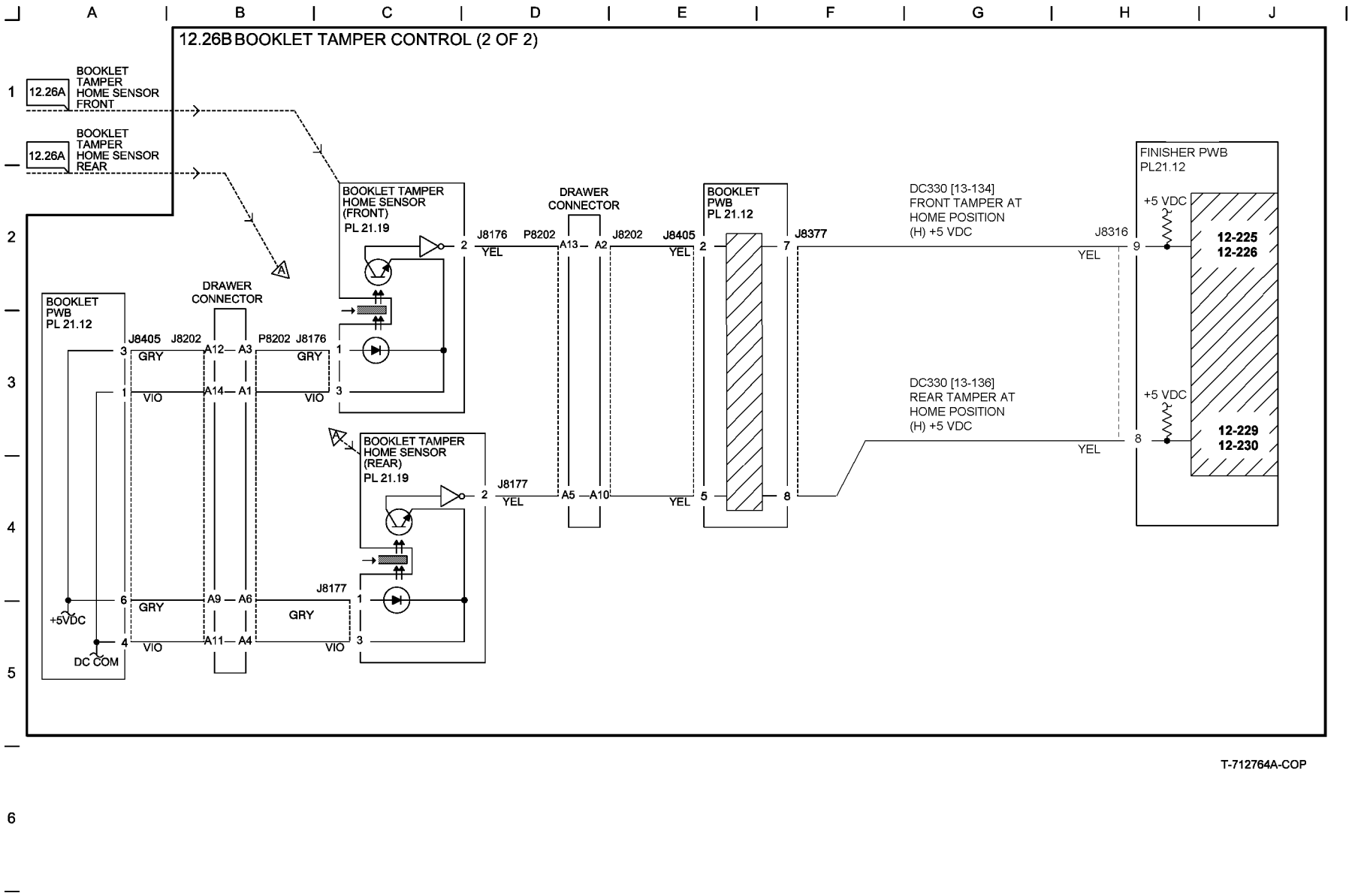


Figure 16 BSD 12.26B A/P Finisher Booklet Tamper Control (2 of 2)

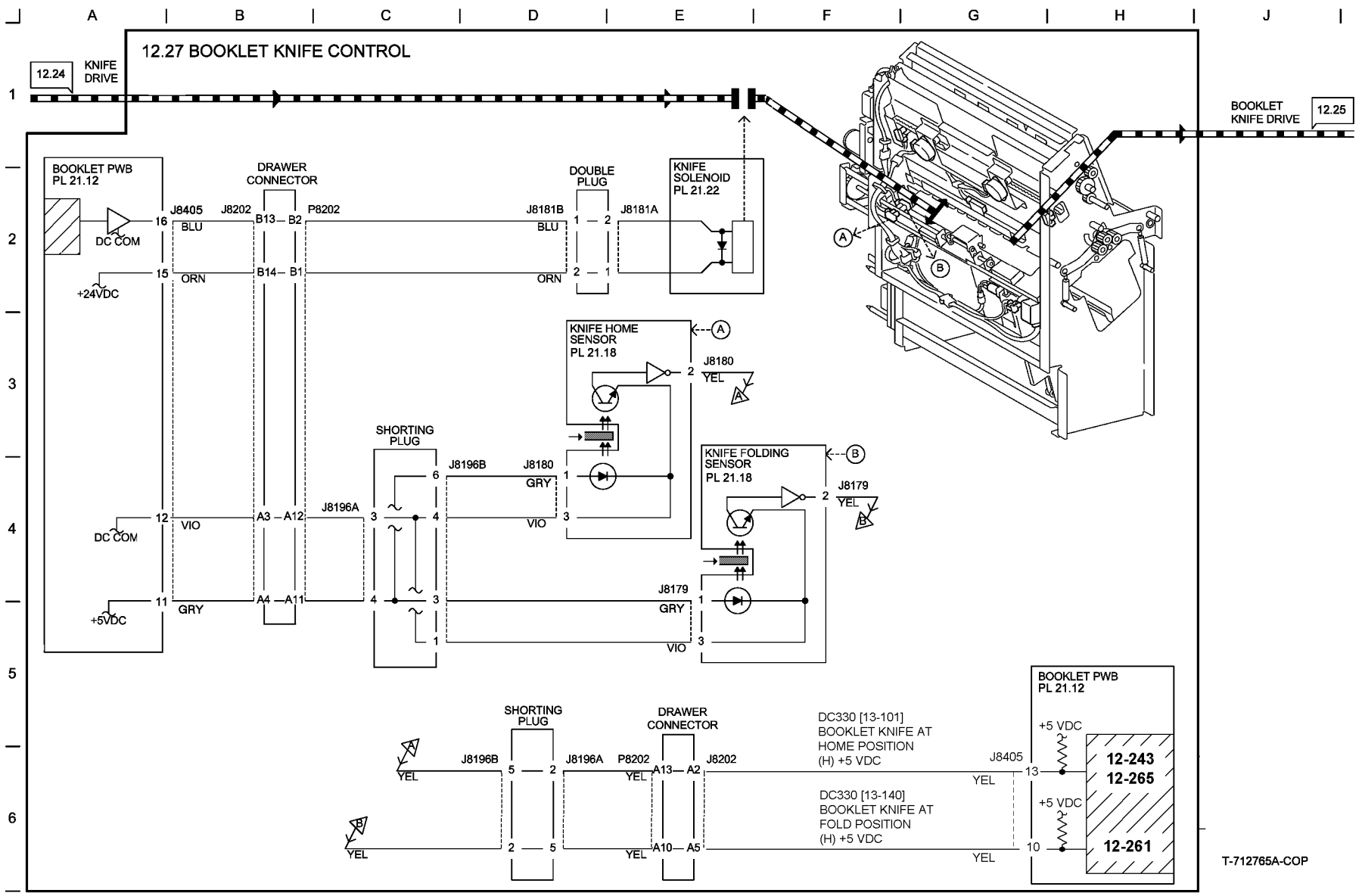


Figure 17 BSD 12.27 A/P Finisher Booklet Knife Control

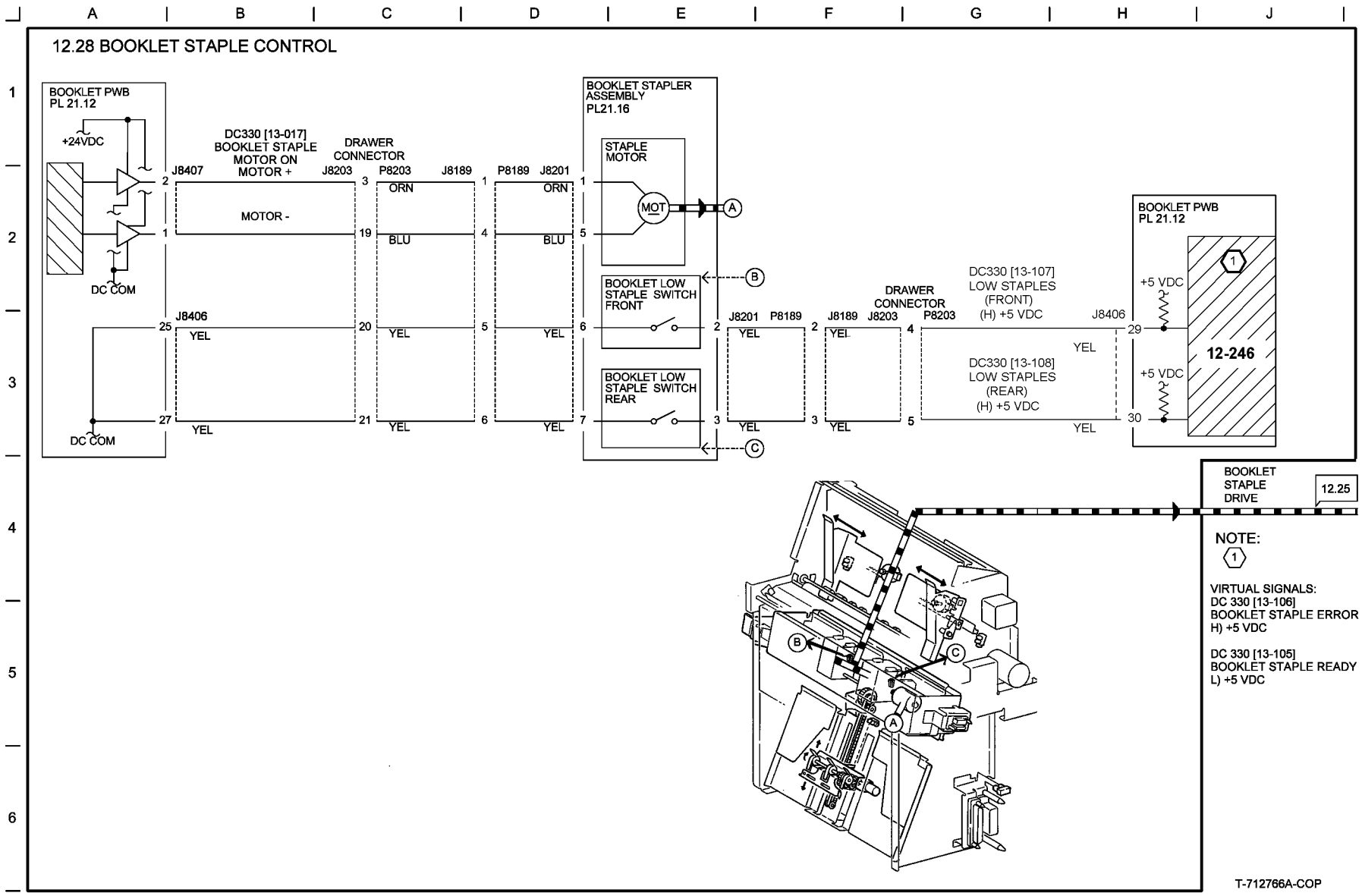


Figure 18 BSD 12.28 A/P Finisher Booklet Staple Control

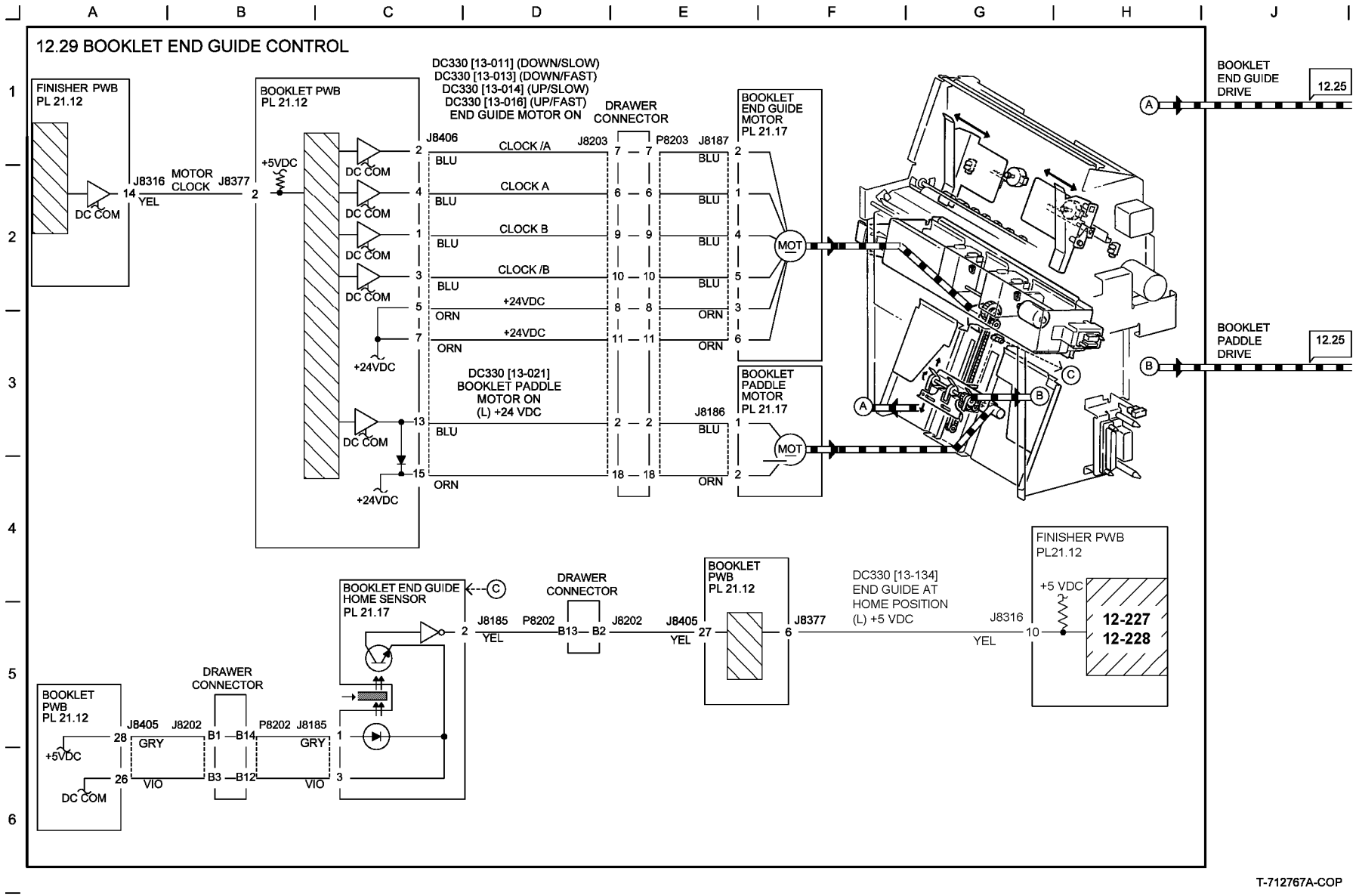


Figure 19 BSD 12.29 A/P Finisher Booklet End Guide Control

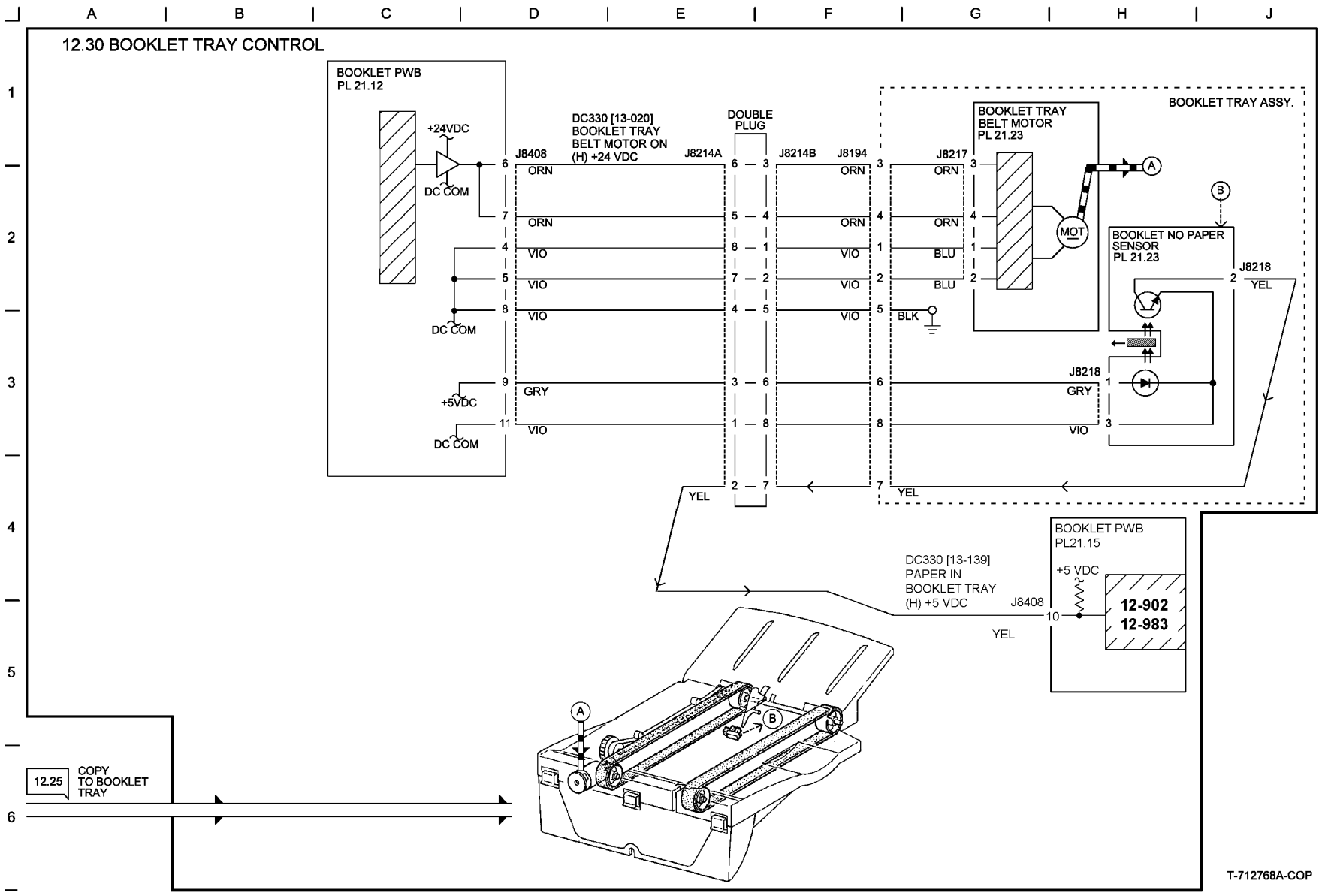


Figure 20 BSD 12.30 A/P Finisher Booklet Tray Control

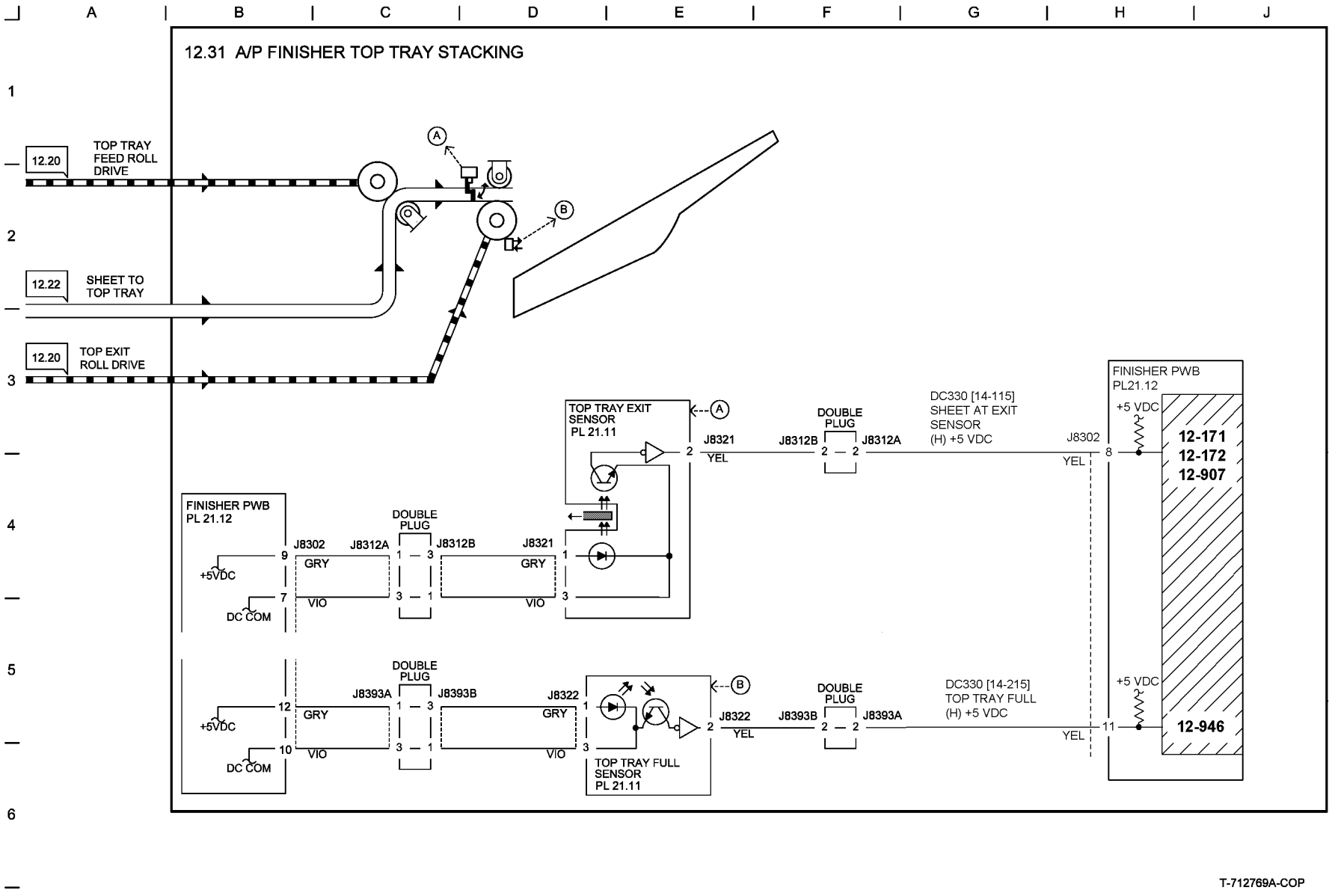
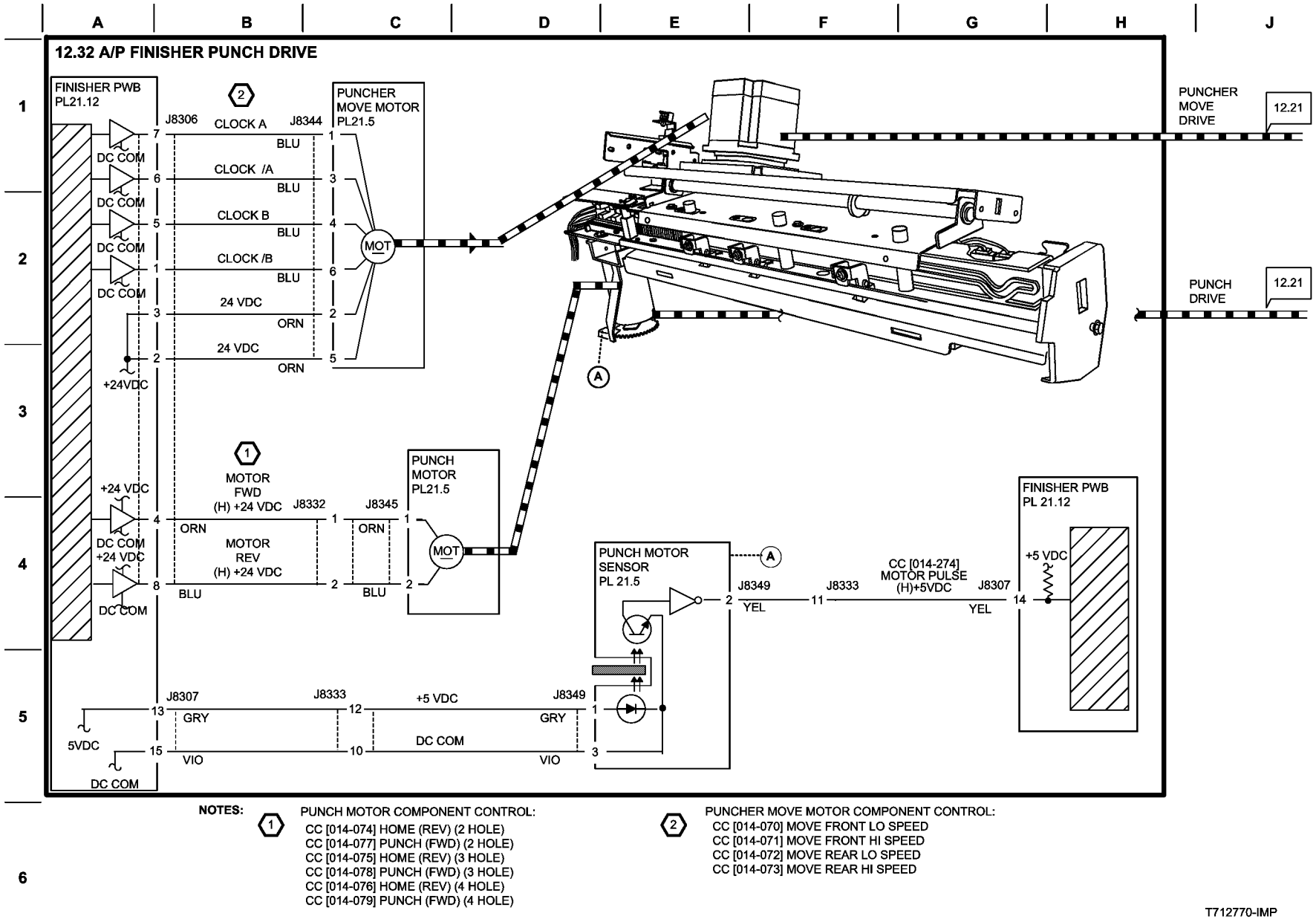


Figure 21 BSD 12.31 A/P Finisher Top Tray Stacking



NOTES:

1. PUNCH MOTOR COMPONENT CONTROL:
   - CC [014-074] HOME (REV) (2 HOLE)
   - CC [014-077] PUNCH (FWD) (2 HOLE)
   - CC [014-075] HOME (REV) (3 HOLE)
   - CC [014-078] PUNCH (FWD) (3 HOLE)
   - CC [014-076] HOME (REV) (4 HOLE)
   - CC [014-079] PUNCH (FWD) (4 HOLE)

2. PUNCHER MOVE MOTOR COMPONENT CONTROL:
   - CC [014-070] MOVE FRONT LO SPEED
   - CC [014-071] MOVE FRONT HI SPEED
   - CC [014-072] MOVE REAR LO SPEED
   - CC [014-073] MOVE REAR HI SPEED

Figure 22 BSD 12.32 A/P Finisher Punch Drive

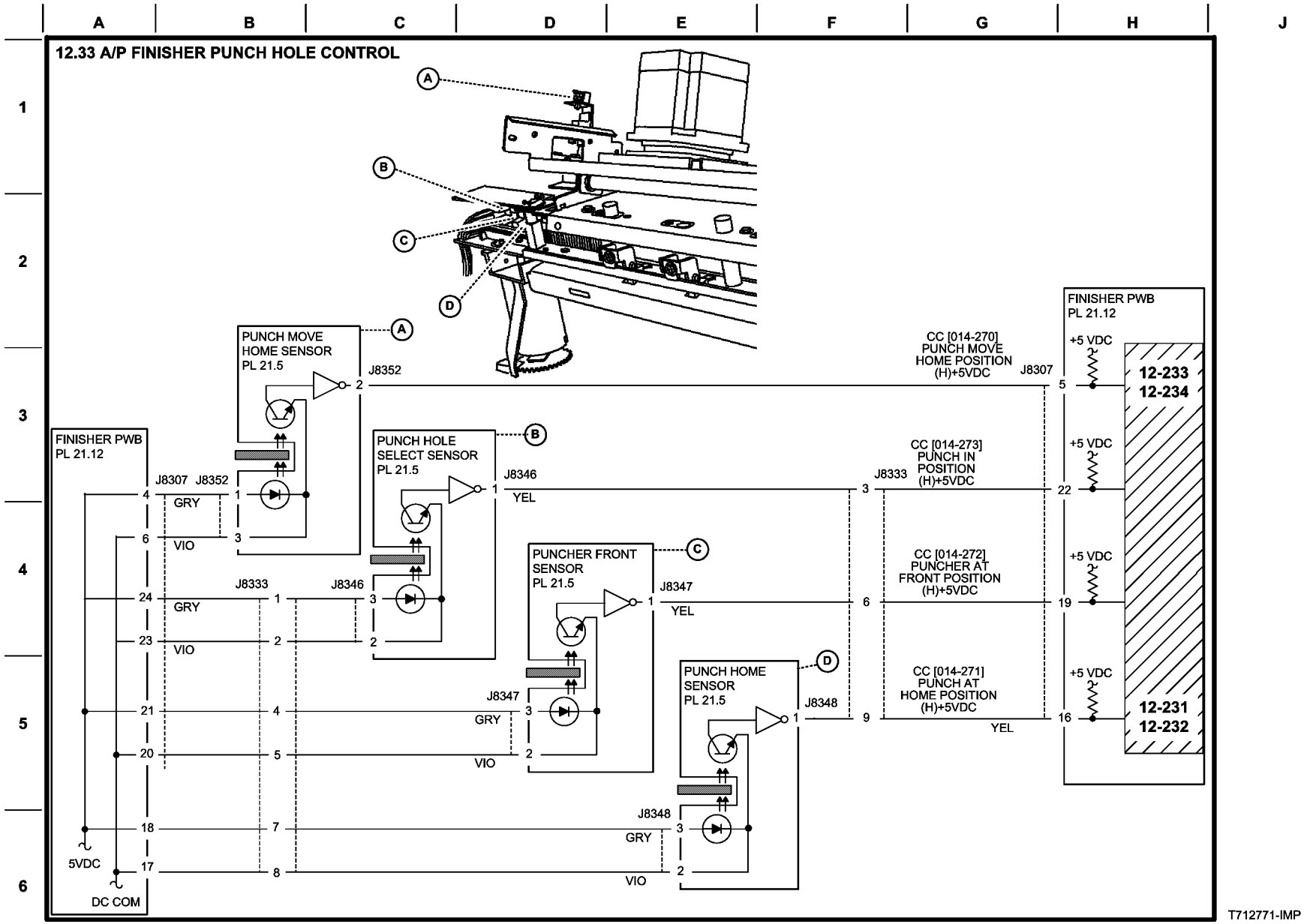


Figure 23 BSD 12.33 A/P Finisher Punch Hole Control

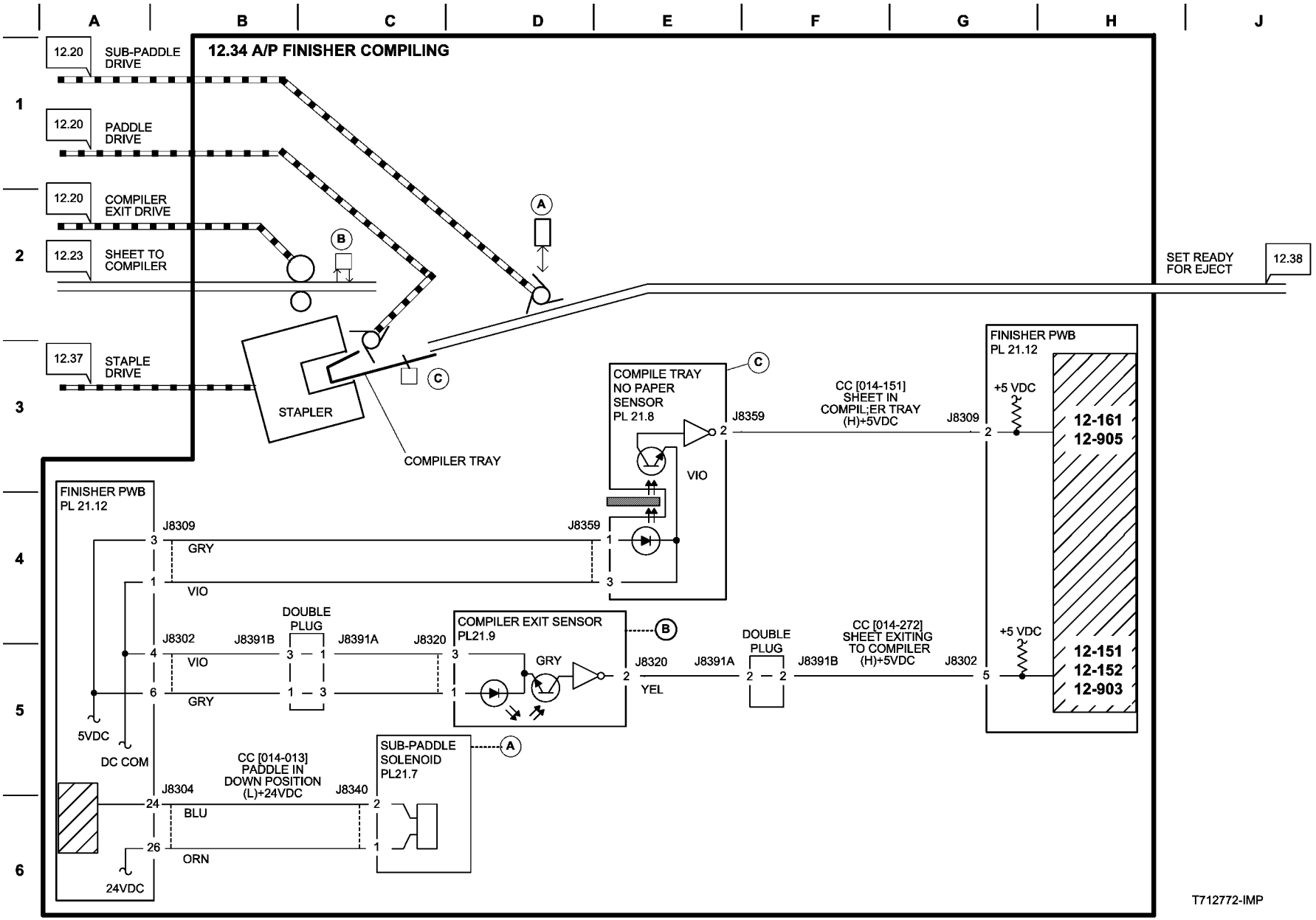


Figure 24 BSD 12.34 A/P Finisher Compiling

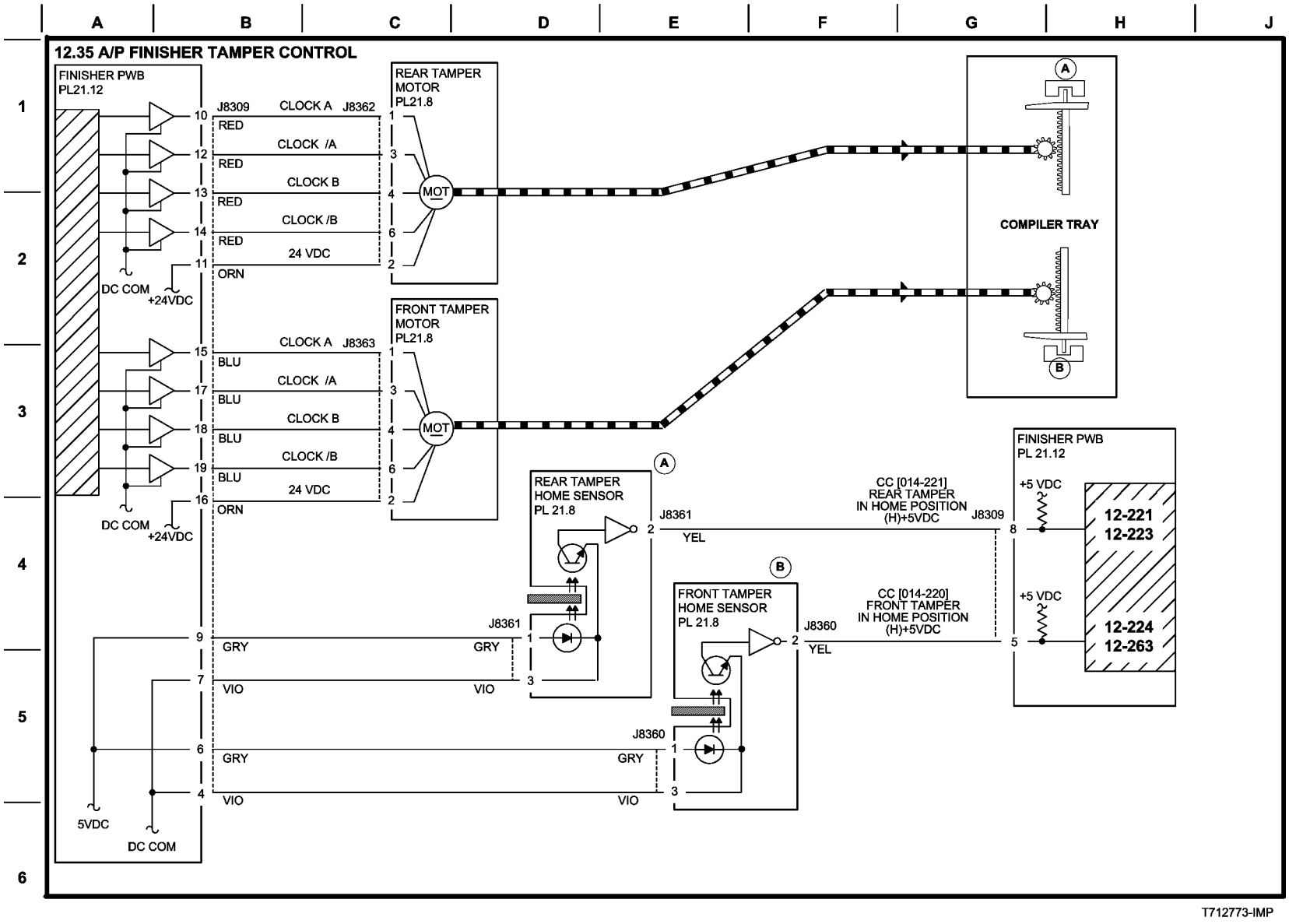


Figure 25 BSD 12.35 A/P Finisher Tamper Control

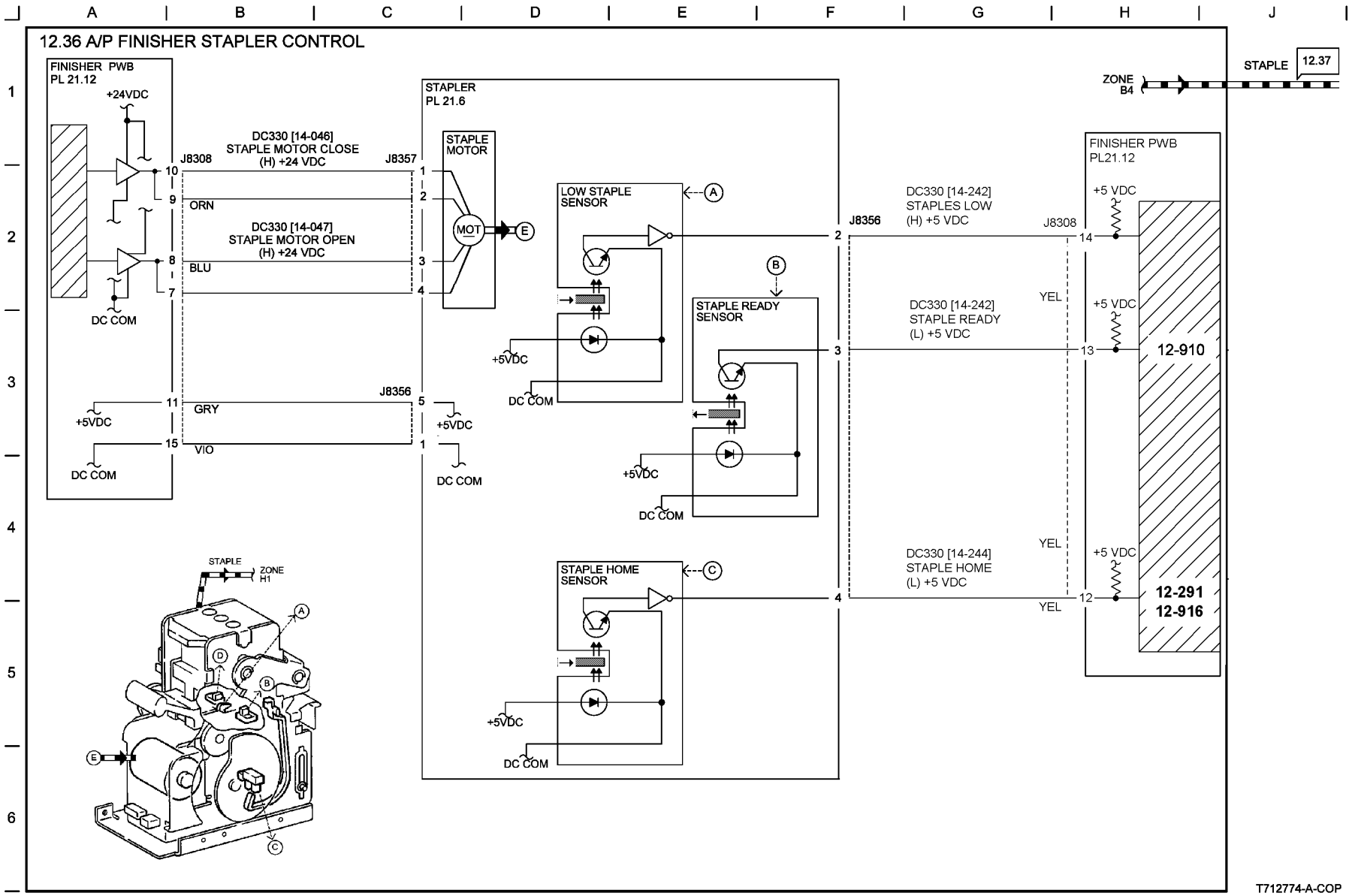


Figure 26 BSD 12.36 A/P Finisher Stapler Control

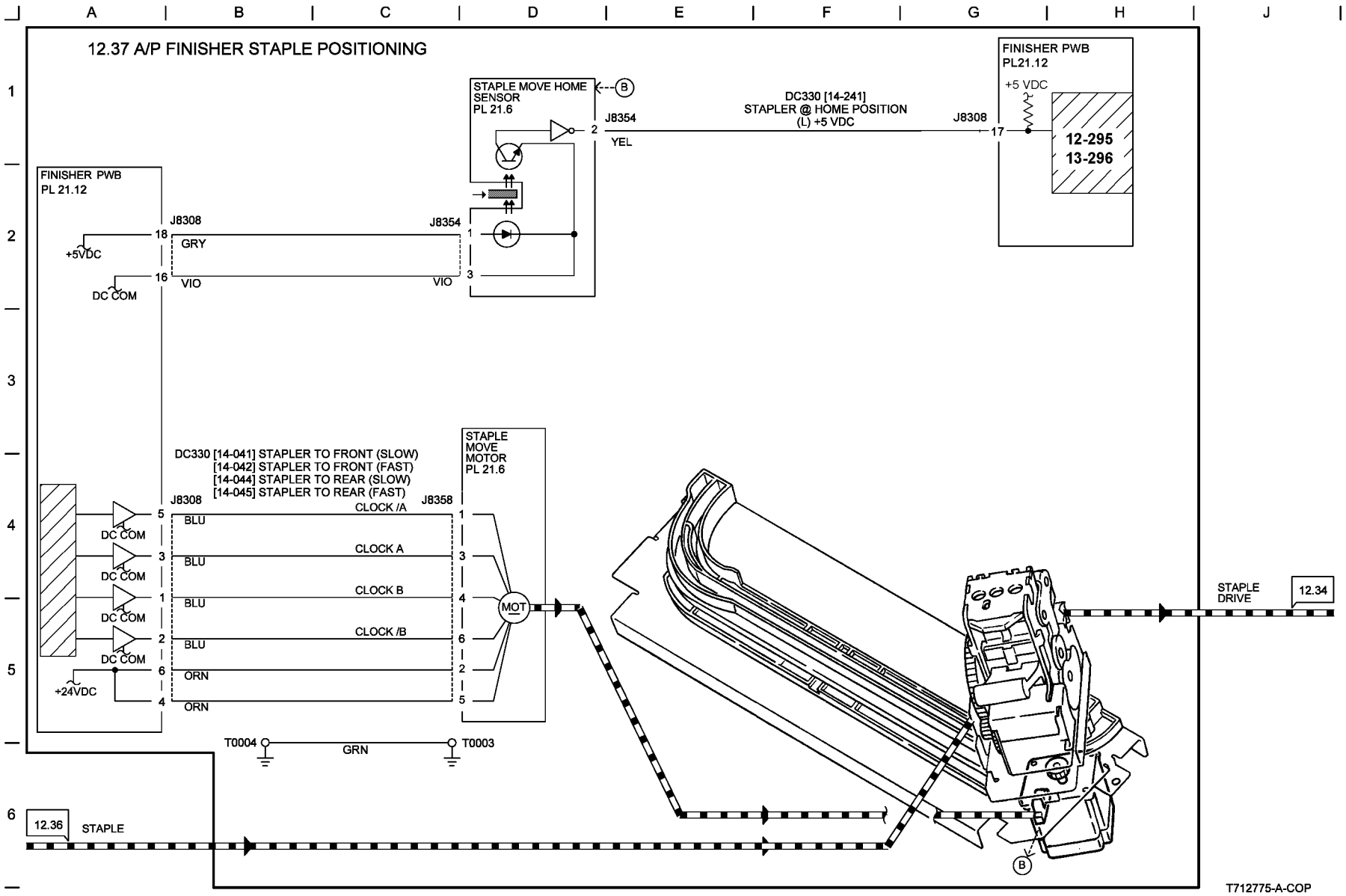


Figure 27 BSD 12.37 A/P Finisher Staple Positioning

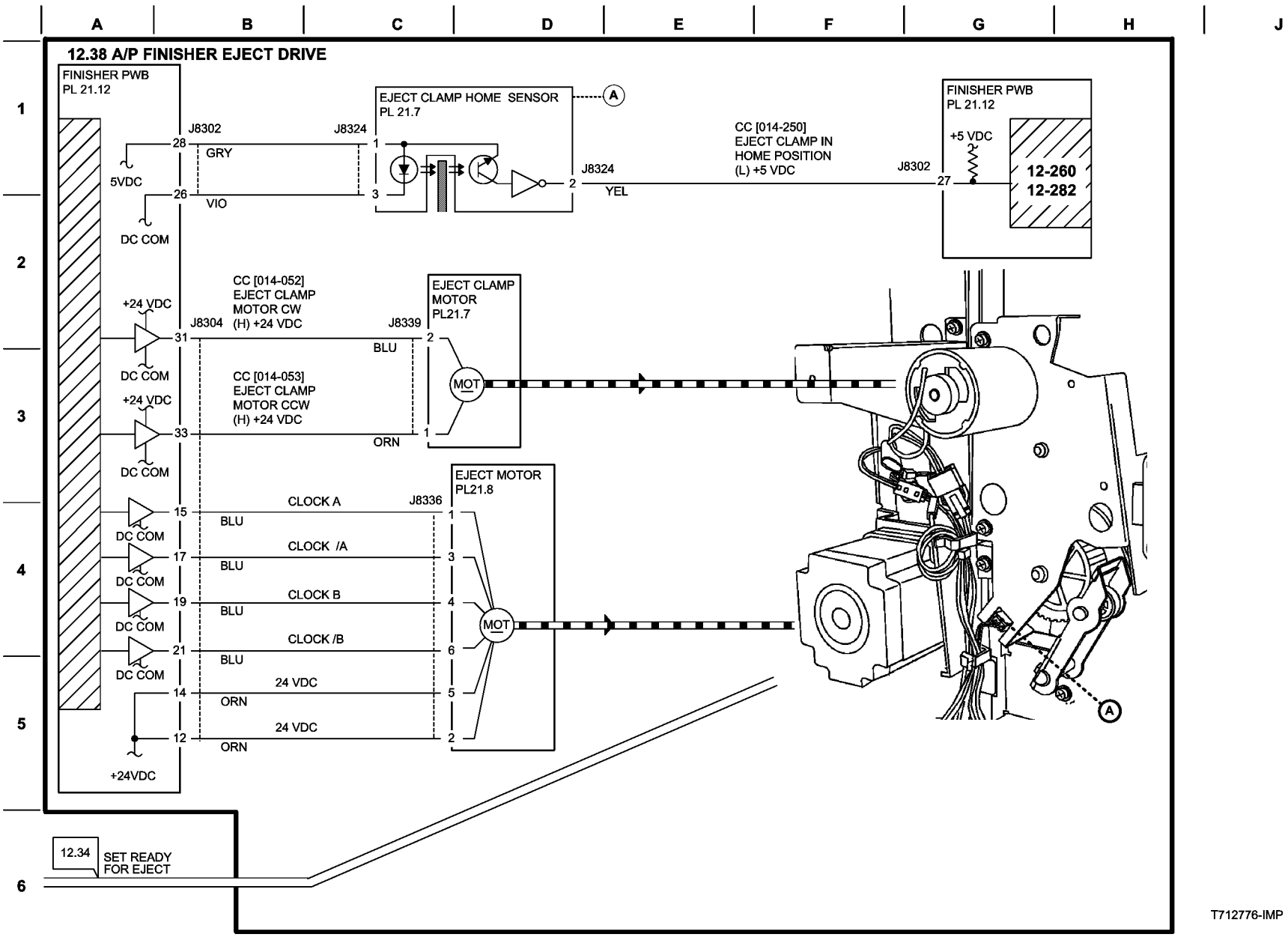


Figure 28 BSD 12.38 A/P Finisher Eject Drive

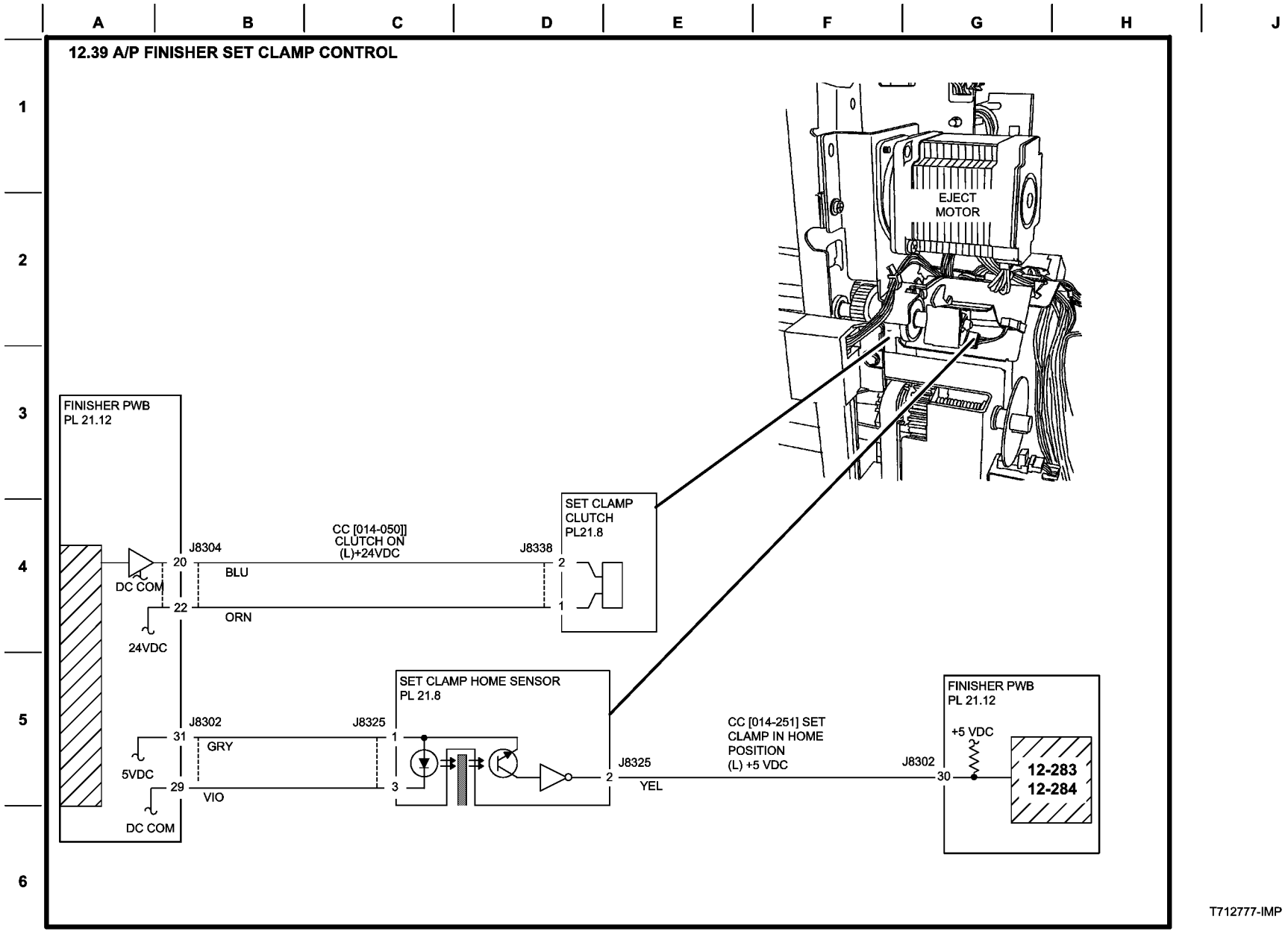


Figure 29 BSD 12.39 A/P Finisher Set Clamp Control

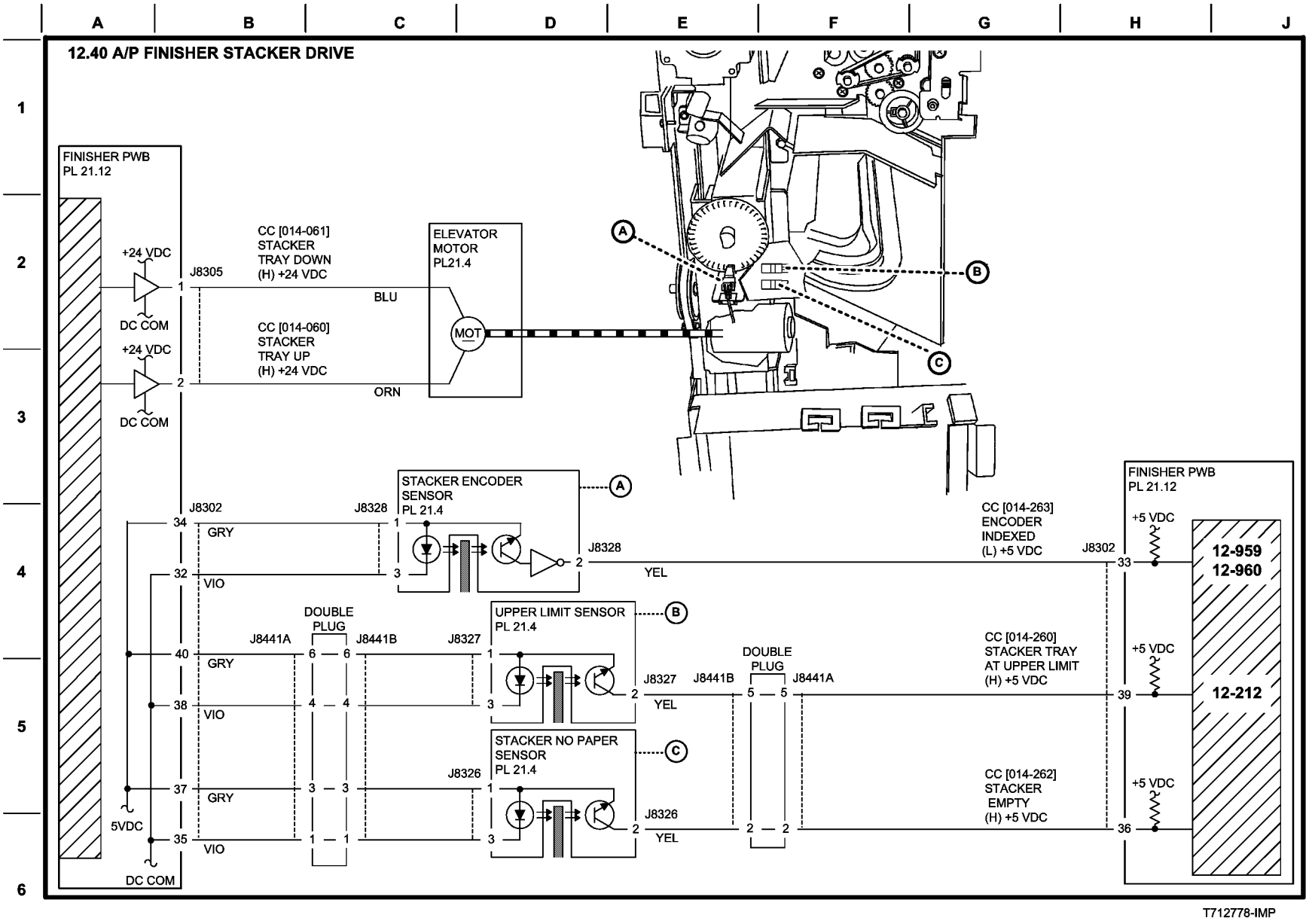


Figure 30 BSD 12.40 A/P Finisher Stacker Drive

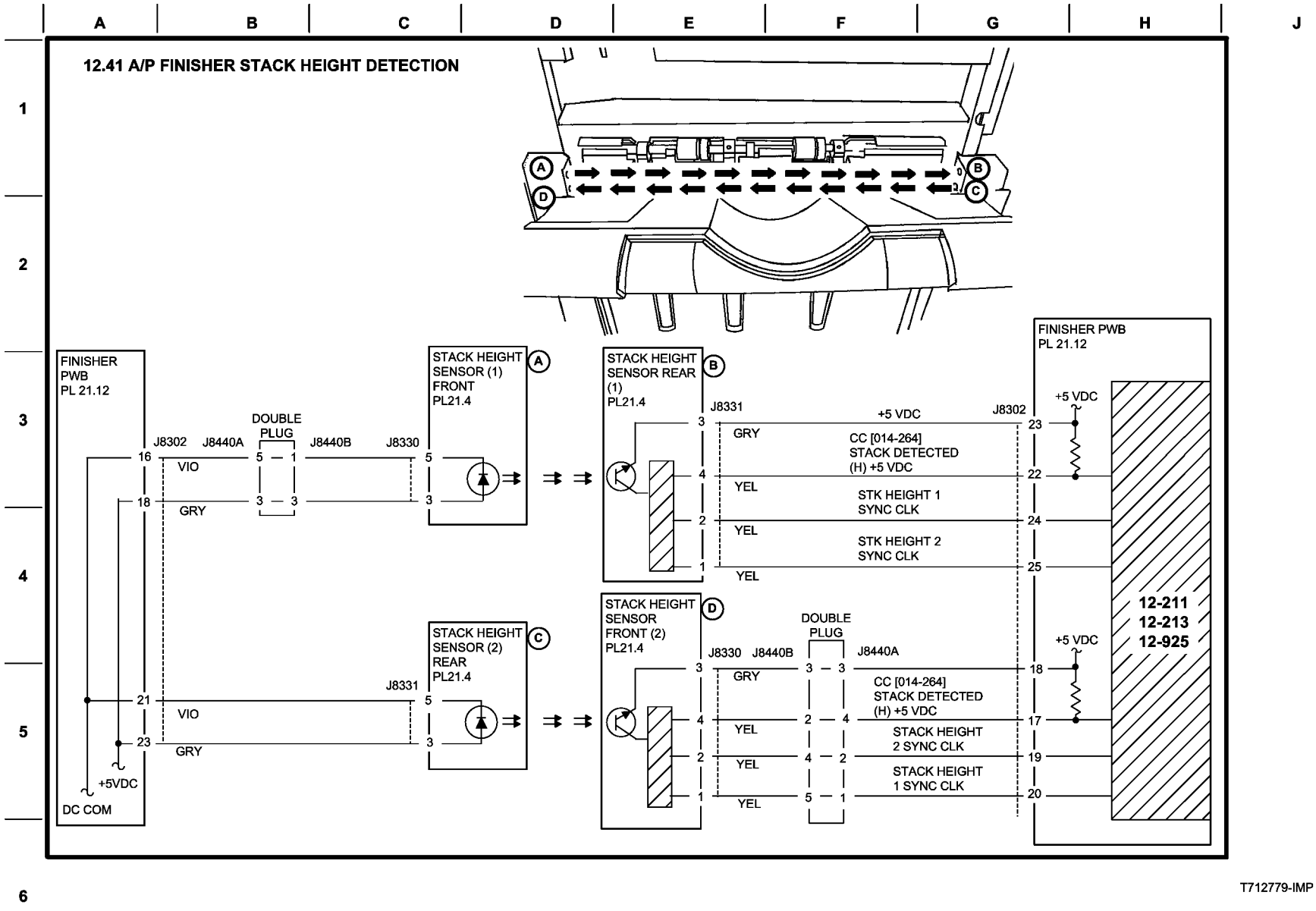


Figure 31 BSD 12.41 A/P Finisher Stack Height Detection

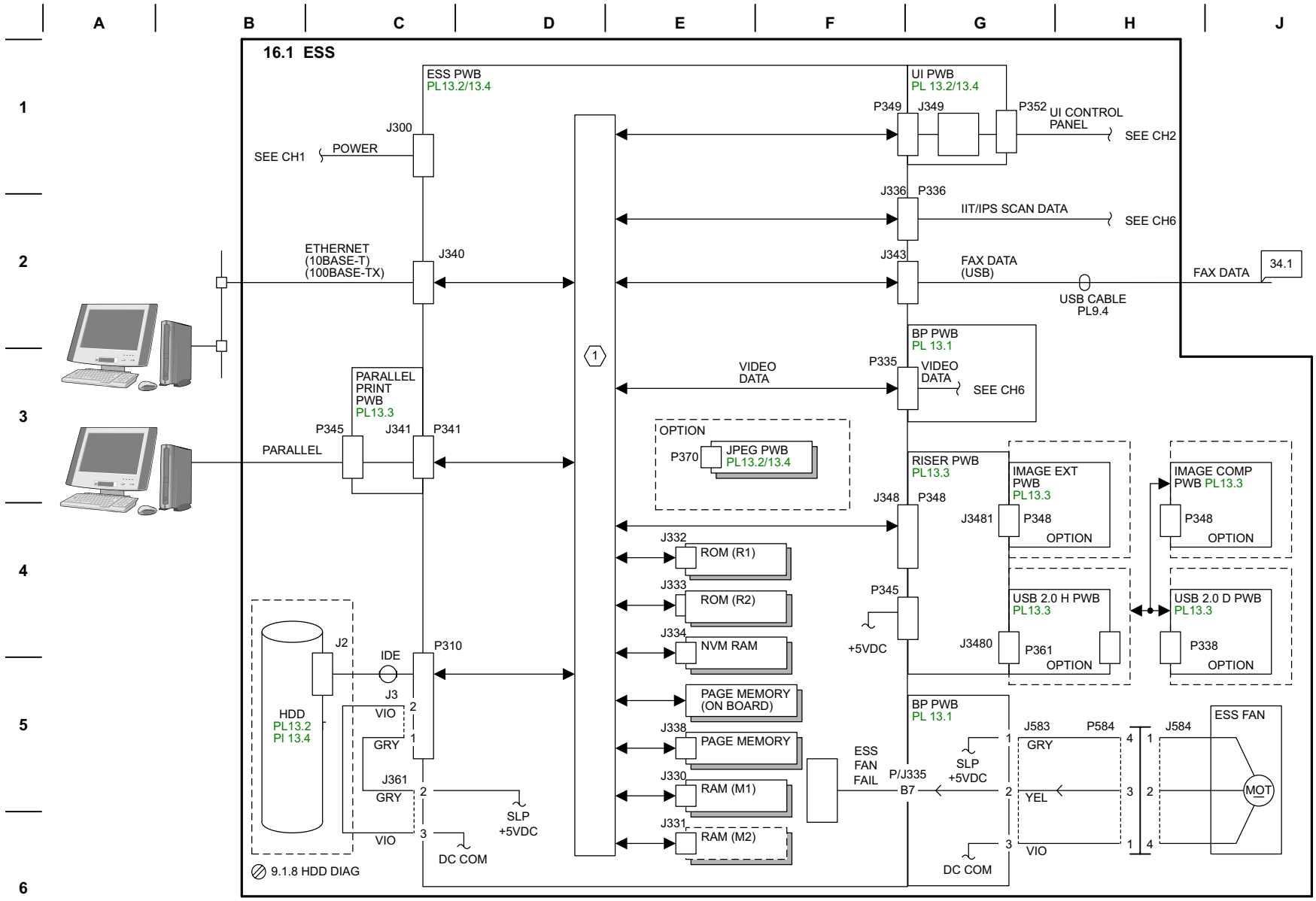


Figure 1 BSD 16.1 ESS

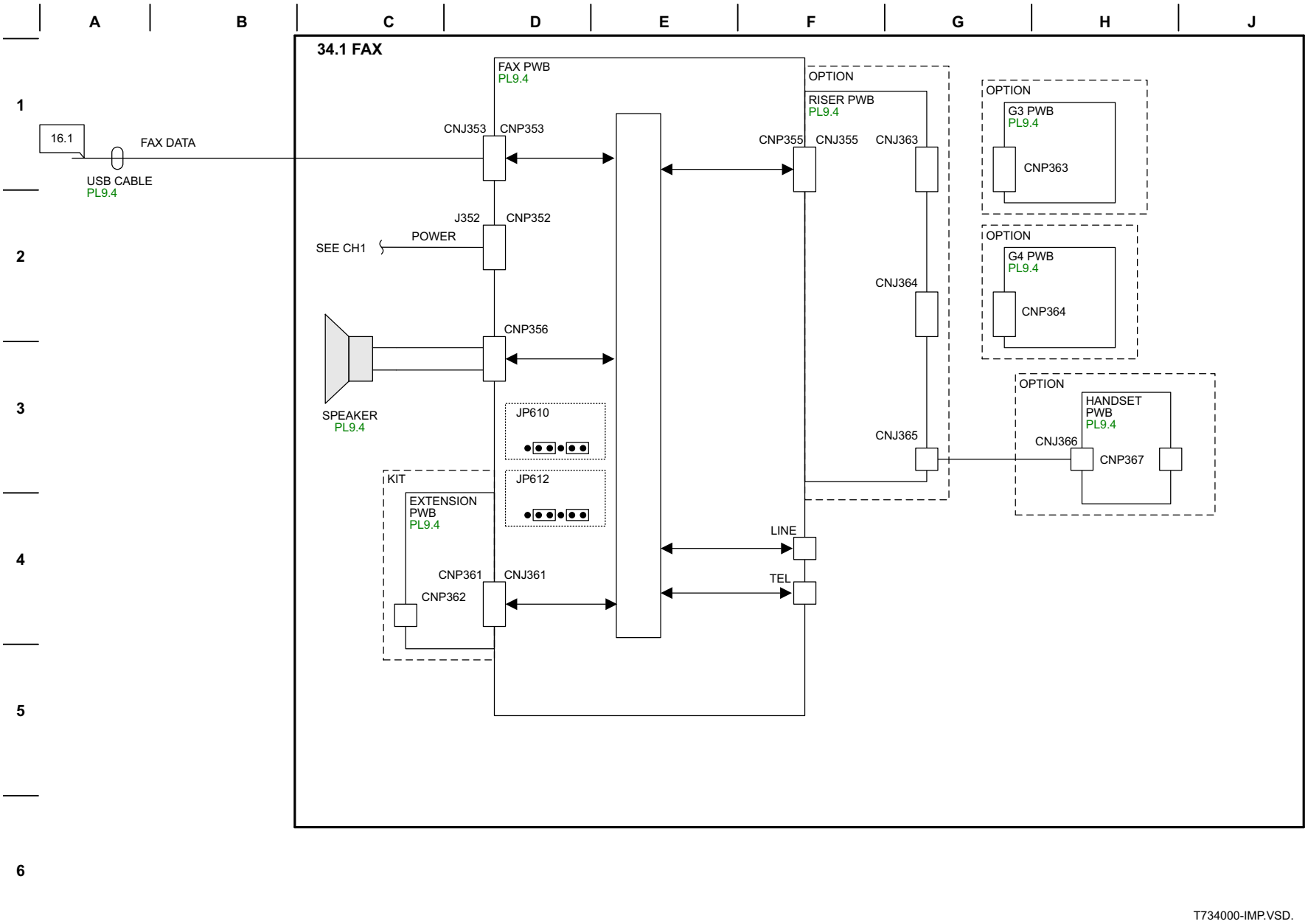


Figure 1 BSD 34.1 FAX