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# Xerox® VersaLink® B415 Multifunction Mono Printer Service Manual



Xerox®VersaLink® B415 Mono MFP
Xerox® VersaLink® B415 Mono MFP Service Manual
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Prepared By:

Xerox Corporation

800 Phillips Road

Webster, New York 14580

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#### **About This Manual**

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

#### Organization

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

#### Section 1 Service Call Procedures

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

#### Section 2 Status Indicator Repair Analysis Procedures

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

#### Section 3 Image Quality

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

#### Section 4 Repairs and Adjustments

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

#### Section 5 Parts List

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

#### Section 6 General Procedures and Information

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

#### Section 7 Wiring Data

This section contains the PJ locations, wiring diagrams and block schematic diagrams (BSDs).

#### Section 8 Product Technical Overview

This section contains technical details of the machine.

#### **Publication Comments Sheet**

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

#### How To Use This Manual

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

#### How to Differentiate Between Machine Variants

When a procedure, parts list description, artwork, or other reference is unique across different machine variants, the applicable variant is identified. For example, VLB415:

- 1. VL = VersaLink
- 2. B = Black (mono)
- 3. 4 = Workteam Mid Laser Printer
- 4. 1 = 1st Family
- 5. 5 = MultiFunctional Printer (MFP)

VLB415 includes the following model variants:

Xerox® VersalLink® B415 Mono MultiFunctional Printer

#### Warnings, Cautions And Notes



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

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



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

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

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## **Change History**

Change History provides changes to the service manual after the launch version, initial release.

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• GP 4 Software Upgrade

## Mod/Tag Identification

Figure 1 shows the Mod/Tag identification symbols.









F-1-0628-A

Figure 1 Mod/Tag identification symbols

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## **Voltages Resistances and Tolerances**

## DC Voltage Levels and Tolerances

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

Table 1 DC Voltage Levels

Nominal Voltage	Voltage Tolerance Range
ov	0.00 to 0.10V
+3.3V standby	+3.23V to +3.43V
+3.3V	+3.23V to +3.43V
+5V and +5V standby	+4.75V to +5.25V
+12V	+11.4V to +12.6V
+24V	+23.28V to +25.73V

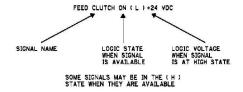
Non-standard voltage levels will be quoted on the relevant wiring diagram or BSD. All other voltage levels are plus or minus  $10\,\%$ .

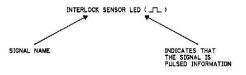
#### **Resistance Tolerances**

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

## DC Signal Nomenclature

Figure 1 shows the signal nomenclature used in the BSDs.





TF-1-0629-A

Figure 1 Signal Nomenclature

Table 2 shows the signal tolerances.

Table 2 Signal tolerances

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

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

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

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## **Safety Information**

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



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

#### Safety Icons

The safety icons that follow are displayed on the machine:

#### **ESD Caution Symbol**





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

#### Location Arrow Symbol

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



#### Hot Surface Symbol

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





#### Lethal Voltage Symbol

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



#### **Toner Cartridge**

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

#### **Fuses**



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

#### **Part Replacement**

Only use genuine Xerox approved spare parts or components to maintain compliance with legislation and safety certification.

#### **Disassembly Precautions**

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

#### **Reassembly Precautions**

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

#### **General Procedures**

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

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## Health and Safety Incident reporting

## I. Summary

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

#### II. Scope

Xerox Corporation and subsidiaries worldwide.

#### III. Objective

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

#### **IV. Definitions**

Incident:

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

#### V. Requirements

Initial Report:

- 1. Xerox organizations shall establish a process for individuals to report product incidents to Xerox Environment Health and Safety within 24 hours of becoming aware of the event.
- 2. The information to be provided at the time of reporting is contained in Appendix A (Health and Safety Incident Report involving a Xerox product).
- 3. The initial notification may be made by the method that follows:
  - Email Xerox EH&S at: usa.product.incident@xerox.com.
  - Fax Xerox EH&S at: 585-422-2249.

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

Responsibilities for resolution:

- 1. Business Groups/Product Design Teams responsible for the product involved in the incident shall:
  - a. Manage field bulletins, customer correspondence, product recalls, safety retrofits.
  - b. Fund all field retrofits.
- 2. Field Service Operations shall:

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

### VI. Appendices

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

• GSN Library 1789

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## Translation of Warnings



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

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

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

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

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



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

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

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

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

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



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

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

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

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

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



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

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

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

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

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

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**WARNING:** Switch off the electricity to the machine. Refer to **GP 10**. Disconnect the power cord from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving parts can cause injury.

DANGER: Mettez la machine hors tension. Reportez-vous à GP 10. Déconnectez le cordon d'alimentation de l'alimentation du client lorsque vous réalisez des tâches qui ne nécessitent pas d'électricité. L'électricité peut être à l'origine de blessures, voire d'un accident mortel. Les pièces amovibles peuvent être à l'origine de blessures.

AVVERTENZA: Spegnere la macchina. Vedere GP 10 . Scollegare il cavo di alimentazione dall'alimentatore quando si eseguono attività che non richiedono elettricità. L'elettricità può causare morte o lesioni personali. Le parti in movimento possono causare lesioni personali.

VORSICHT: Schalten Sie die Stromversorgung der Maschine ab. Siehe auch GP 10. Ziehen Sie das Stromkabel ab, wenn Sie Aufgaben ausführen, für die keine Stromversorgung benötigt wird. Stromschläge können Todesfällen oder Verletzungen verursachen. Bewegliche Teile können zu Verletzungen führen.

AVISO: Apague la electricidad de la máquina. Consulte el **GP 10** . Desconecte el cable de alimentación eléctrica de la toma de pared mientras esté realizando tareas que no necesiten corriente. La electricidad puede causar daños o la muerte. Las partes móviles pueden causar daños.



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

DANGER : Prendre des précautions lors du relevé de la tension de la prise de courant alternatif. L'électricité peut entraîner des blessures graves voire mortelles.

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

VORSICHT: Bei der Netzspannungsprüfung stets vorsichtig vorgehen

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



**WARNING:** Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 10. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

DANGER: Assurez-vous que la machine est hors tension lorsque vous effectuez des tâches ne nécessitant pas d'alimentation électrique. Reportez-vous à GP 10. Débranchez le câble d'alimentation pour prévenir tout risque d'électrocution. Les chocs électriques peuvent présenter un danger de mort ou entraîner des blessures graves. De plus, certaines pièces, lorsqu'elles sont en mouvement, peuvent être source de blessures graves.

AVVERTENZA: Accertarsi di isolare la macchina dall'alimentazione elettrica quando si eseguono attività che non richiedono elettricità. Vedere GP 10 . Scollegare il cavo di alimentazione. L'elettricità può causare morte o lesioni personali. Le parti in movimento possono causare lesioni personali.

VORSICHT: Sicherstellen, dass die Stromversorgung des Geräts bei Arbeiten, die keinen Strom erfordern, ausgeschaltet ist. Siehe auch GP 10 . Den Netzstecker ziehen. Andernfalls besteht Stromschlaggefahr und Verletzungsgefahr durch bewegliche Teile.

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



WARNING: Do not touch the fuser while it is hot.

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

AVVERTENZA: Non toccare il fonditore quando è caldo.

VORSICHT: Fixierbereich erst berühren, wenn dieser abgekühlt ist.

AVISO: No toque el fusor mientras está caliente.



**WARNING:** Do not touch the fuser while it is hot.

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

AVVERTENZA: Non toccare il fonditore quando è caldo.

VORSICHT: Fixierbereich erst berühren, wenn dieser abgekühlt ist.

AVISO: No toque el fusor mientras está caliente.

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

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

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

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

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



**WARNING:** Do not use the power button as a safety disconnect device. The power button is not a disconnect device. Disconnect the power cord from the supply to isolate the equipment.

DANGER: Ne vous servez pas de l'interrupteur comme d'un dispositif de déconnexion. L'interrupteur n'est pas un dispositif de déconnexion. Débranchez le câble d'alimentation de la prise électrique pour isoler l'appareil.

AVVERTENZA: L'interruttore di alimentazione non è un dispositivo di disconnessione di sicurezza e pertanto non va utilizzato come tale. Per isolare la macchina, scollegare il cavo di alimentazione dalla presa elettrica.

VORSICHT: Zur Unterbrechung der Gerätestromzufuhr nicht den Betriebsschalter verwenden, sondern das Netzkabel aus der Steckdose ziehen, an die das Gerät angeschlossen ist. Nur dann ist der Drucker vollständig vom Stromnetz getrennt.

AVISO: No utilice el botón de encendido/apagado como dispositivo de desconexión de seguridad. El botón de encendido/apagado no es un dispositivo de desconexión. Desconecte el cable de alimentación de la fuente de energía para aislar el equipo.

## 1 Service Call Procedures

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SCP 1 Initial Actions	.1
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SCP 3 Fault Analysis	.1
SCP 4 Subsystem Maintenance	.1
SCP 5 Final Actions	.1

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## **SCP 1 Initial Actions**

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

#### **Procedure**



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



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

- Take note of problems, error messages or error codes. If necessary, refer to dC122 Fault Codes and History Files.
- 2. Switch off, then switch on the machine, GP 10.
- 3. Ask the operator to describe or demonstrate the problem.
- 4. If the problem is the result of an incorrect action by the operator, refer the operator to the user documentation.
- 5. Check the steps that follow:
  - a. The power lead is connected to the wall outlet and to the machine.
  - b. The paper is loaded correctly.
  - c. All paper trays are closed.
  - d. All doors are closed.
- 6. Check the machine service log book for previous actions that are related to this call.
- 7. Go to SCP 2 Call Actions.

## **SCP 2 Call Actions**

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

#### Procedure

- 1. If this is the first service call to this machine, if possible, perform the actions that follow:
  - a. Check the machine configuration with the customer. Check that all the required hardware and software is installed. Check that all the required hardware and software is enabled.
  - b. Check that all the machine settings are entered correctly.
  - c. Mark off the hardware options, software options or Tags installed on the Tag matrix cards.
  - d. Enter the machine information and the customer information in the service log book.
- 2. Review the print samples.
- 3. Ensure the user access settings are correct. If necessary refer to the user documentation.
- 4. If necessary, perform GP 13 Cloning Network Configurations.

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

- 5. Before switching off the machine or clearing the memory, check for a customer job in the memory.
- 6. Check and record the total impressions usage counter.
- 7. Go to SCP 3 Fault Analysis.

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## SCP 3 Fault Analysis

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

• For network printing issues refer to, OF8, Network Printing Problems RAP.

#### **Procedure**



**CAUTION:** Do not expose the drum cartridges, to light for more than 30 minutes. If necessary, remove the drum cartridges, then place in a black bag.

#### **Fault Codes**

If a fault code is displayed, go to the relevant RAP.

#### **Image Quality Defects**

If the image quality is defective, go to the IQ 1 IOT Image Quality Entry RAP.

#### **Unresolved Faults**

If a fault cannot be resolved using the appropriate RAP, and only if instructed by next level support, obtain a device log. Refer to GP 19, Obtaining Audit and Device Logs. Escalate the problem to next level support.

#### Other Problems

- For suspected power distribution faults, refer to the following:
  - 7 Wiring Data
- If the customer requires a billing plan change, go to GP 26, PagePack Plan Activation.

#### **Additional Information**

If necessary, refer to the general procedures and information that follow:

- GP 1 Diagnostics Entry
- GP 2 Fault Codes and Fault History
- GP 3 Service Information.
- GP 4 Machine Software
- GP 5 Miscellaneous Checks
- GP 6 How to Check a Motor
- GP 7 How to Check a Sensor
- GP 8 How to Check a Solenoid or Clutch
- GP 9 How to Check α Switch
- GP 10 How to Switch Off the Machine or Switch On the Machine
- GP 11 How to Safely Lift or Move Heavy Modules
- GP 12 Machine Lubrication
- GP 13 Network Clone Procedure
- GP 14 Printing Reports
- GP 15 Cleaning the Printhead Lenses
- GP 16 Installation Space Requirements
- GP 17 Electrical Power Requirements
- GP 18 Cleaning the Scanner

- GP 19 Obtaining Audit and Device Logs
- GP 20 First Copy/Print Out Time and Power On Time
- GP 21 Restriction of Hazardous Substances (RoHS)
- GP 22 Back Up and Restore Settings
- GP 23 Customer Administration Tools
- GP 24 How to Set the Date and Time
- GP 25 Ethernet Crossover Cable Setup
- GP 26 PagePack Plan Activation
- GP 27 Intermittent or Noise Problem
- GP 28 System Administrator Password Reset
- GP 29 Print/Copy Orientation Definitions
- GP 30 Paper and Media Size Specifications
- GP 31 Environmental Data
- GP 32 Device Specification
- GP 33 Restoring Customer Mode
- GP 34 How to Re-Enter Optional Feature Installation Keys
- GP 35 Serial Number Synchronization Procedure
- GP 36 Xerox USB Wireless Printing Troubleshooting
- GP 37 Supplies Plan Conversion
- GP 40 Glossary of Terms, Acronyms and Abbreviations

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## SCP 4 Subsystem Maintenance

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



**WARNING:** Switch off the electricity to the machine, **GP 10.** Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Go to the correct procedure:

- Service Checks
- HFSI
- · How to Clean the Machine
- Drum Cartridge Handling

#### **Service Checks**

Perform the actions in Table 1 at the indicated service interval.

Table 1 Service Check Intervals

Servicing Items	Service Details	Service Interval
IQ check	Check the overall print quality using a test chart. Check for uneven density, blank areas, drum scratches, heat roll scratches, etc. in A3 halftone.	Every visit
Clean the machine interior	Check and clean the paper transport roller (including the bypass tray). Clean any toner residue in the paper transport path. Clean any contamination and paper dust from the jam sensors.	150K feeds
	Clean the operating parts around the toner cartridges.	Every visit
Safety Check	Ensure that the power cords are not damaged and no wires are exposed. Ensure that an extension cord with insufficient length or power cord outside the specification, such as an off-theshelf power strip, is not being used. Ensure that a single socket does not have multiple power plugs plugged into it.	Every visit

#### **HFSI**

For High Frequency Service Items (HFSI), refer to dC135 HFSI Counters and Table 2, below.

Table 2 HFSI

Part Name	Part Number	Kit Contents	Life	Manual Counter Reset	PL Ref
Fuser (110V)	126N00516	Fuser (110V)	200K prints	Yes	PL 10.05
Fuser (220V)	126N00517	Fuser (220V)	200K prints	Yes	PL 10.05
Transfer Roll	022N02979	Transfer Roller	200K prints	Yes	PL 90.05
Paper Tray 1	014N00527 022N02980 022N02983	Separator roller assembly Tray 1 pick roller assembly Tray pick tires*	200K prints	Yes	PL 70.15 PL 70.05
Optional 550-sheet Paper Tray 2/ 3/4	022N02982	Optional 550-sheet tray pick roller	200K prints	Yes	PL 70.20
DADF Main- tenance Kit	116R00039	Separator assembly DADF pick roller assembly	110K feeds	Yes**	PL 5.05
Bypass Tray	022N02981	MPF/Bypass feed assembly	200K feeds	Yes	PL 70.05

<sup>\*</sup>Tray pick tires: For a single tray only; Common to all trays.

Service will reset counters in Diagnostics, dC135.

Available resettable HFSI counters may vary with device software version.

#### How to Clean the Machine

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

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

Use a dry lint free cloth or a lint free cloth moistened with water. Wipe with a dry lint free cloth if a moistened cloth is used.

#### 2. Toner Dispense Units

Vacuum the toner dispense units.

#### 3. Jam Sensors

Clean the sensors with a dry cotton swab.

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<sup>\*\*</sup>Customers will reset counters in Admin menu: Device > Tools > Supplies > Supply Counter Reset > select the counter to reset > Reset Counter.

Revised Update 1 Service Call Procedures

#### Drum Cartridge Handling

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

## SCP 5 Final Actions

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

#### Procedure

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

- 1. If necessary, re-connect the machine to the customer's network.
- 2. If necessary, perform GP 13 Cloning Network Configurations.

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

- 3. Perform the relevant maintenance procedures. Refer to SCP 4 Subsystem Maintenance.
- 4. Ensure that the machine has the latest available software loaded.
- 5. Operate the machine in all modes. Make the copies and prints from all trays.
- Make prints from all trays. Check the registration quality. To reset the registration, perform dC126 System Registration Adjustment.
- 7. Make a proof print of a customer document.
- 8. If some of the customer's selections were changed, return the selections to the customer settings.
- 9. Mark off the hardware options, software options or Tags installed on the Tag matrix cards.
- 10. If some changes were made to the configuration or options were added, print the configuration report. Store the configuration report with the machine log book. Discard the previous version of the configuration report.
- 11. Log the usage counters.
- 12. If necessary, provide the customer with training.
- 13. Remove and destroy all copies of test patterns.
- 14. Ensure the machine and service area are clean.

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## 2 Status Indicator RAPs

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## 301-100-00, 305-104-00, 305-105-00 IRCloseAllDoors RAP

The machine detects a door is open and the interlock is active.

301-100-00 IRCloseAllDoors

**305-104-00** Front Cover Open

**305-105-00** Rear Cover Open



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Check the doors for the following:
  - Obstructions
  - Damage
  - Improper operation
- 2. Close the doors properly.

Note: Make sure that there is no gap between the door and the printer.

- 3. Make sure that the door links and hinges are properly interlocked and the sensor actuator is not damaged.
- 4. Press the power button to turn off the printer, and then disconnect the power cord from the electrical outlet.
- 5. Wait for 30 seconds to make sure that all electrical charges have dissipated from the printer.
- 6. Connect the power cord to the electrical outlet, and then press the power button to turn on the printer.
- 7. Wait for the printer to completely boot up and initialize all its components before sending the print job again.
- 8. Check the front door sensor, for damage and improper installation.
- 9. Make sure that the front door sensor, is functional, do the following:
  - a. Enter the Diagnostics Menu, GP 1.
  - b. Touch Diagnostics > dC330 Component Control > Print Engine > Sensor Tests.
  - c. Touch the appropriate test for the Sensor in question.
- 10. Make sure that the connections between the controller PWB, PL 3.05 item 1 and front door sensor are properly connected.
- 11. Install new components, in order, as required:
  - a. Front door sensor.
  - b. Controller PWB, PL 3.05 item 1.

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

302-302-00 Flash Rewrite Failure.

302-306-00 Flash Erase Failure.

302-308-00 Flash Download Failure.



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Switch OFF, then switch on the machine, GP 10.
- 2. Perform a software upgrade,GP 4, using the Altboot method.
- 3. If the fault persists, install new components in order, as required:
  - a. If installed, Optional 500+GB Hard Disk, PL 25.05 item 2.
  - b. Controller PWB,PL 3.05 item 1

## 302-312-00 Application SW Checksum Failure RAP



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Switch OFF, then switch ON the machine, GP 10.
- 2. Perform a software upgrade, GP 4.
- 3. If the fault persists, install new components in order, as required:
  - a. If installed, Optional 500+GB Hard Disk, PL 25.05 item 1.
  - b. Controller PWB, PL 3.05 item 1.

## 302-315-00 Service Registry Bad Data / Corrupted RAP

302–315–00 is an internal machine fault code, and is never displayed or logged in the fault history.



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Switch OFF, then switch ON the machine, GP 10.
- 2. Enter Diagnostics, GP 1.
  - a. Touch **Adjustments**, then touch dC301.
  - b. Follow the procedures to initialze NVM.
- If the fault persists, perform Software Upgrade, GP 4, using the USB FORCED\_ALTBOOT method

## 302-316–00 and 302–317–00 Service Registry Not Responding RAP

302-316-00 SRS returns to UI "invalid fields, invalid data, or missing data".

302-317-00 UI gets no response from SRS.

#### Procedure



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Perform the following in order:

- 1. Upgrade software, GP 4.
- 2. Install a new Controller PWB, PL 3.05 item 1.

## 302-318-00 Touch Device not Available RAP

LUI gets stuck after upgrade or popo (home/power button works).



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Switch OFF, then switch ON the machine, GP 10. If the fault persists, call 2nd level support.

## 302-320-00 UI Data Time Out Error RAP

A software error has occurred. User intervention is required to Power Off/Power On the machine. Printing may be disabled.

- 1. Switch OFF, then switch ON the mnachine, GP 10.
- 2. Perform a software upgrade, GP 4, using the Altboot method.
- 3. If the fault persists, perform RAP, 303-347-00 UI Communication Lost RAP.

## 302-380-00 and 302-381-00 UI Communication Fault RAP

302-380-00 Communication via H-H USB netpath connection between SBC and UI panel is not working.

302–381–00 Communication via USB connection between CC and UI panel is not working.



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Perform the following in order:

- 1. Switch OFF, then switch ON the machine, GP 10.
- 2. Upgrade the software, GP 4.
- 3. Install a new control panel cable, PL 2.05 item 4.
- 4. Install a new controller PWB, PL 3.05 item 1.

## 302-390-00 Power Up Fault RAP

During power up all configurable services have not achieved a stable state after 5 minutes from power up.

Perform RAP, OF1 Machine Not Ready RAP.

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## 303–306–00 Downgrade Not Permitted

Downgrade not permitted. A Customer upgrade was attempted, which would result in a software downgrade, which is not allowed.

#### **Procedure**



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



**CAUTION:** Software downgrades cannot be performed by a customer. When using the FORCED\_ALTBOOT method, follow the procedure in GP 4, Software Upgrade. Inform the customer that customer data will not be retained using the FORCED\_ALTBOOT method for downgrading machine software.

If a software downgrade is required by the customer, perform the downgrade using the FORCED\_ALTBOOT method, GP 4.

## 303-307–00 Upgrade Synchronization Failure

SW Upgrade Synchronization Failure. Customer or CSE tried to perform upgrade resulting in a SW Upgrade Synchronization problem.

#### Initial Actions



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



**CAUTION:** Software downgrades cannot be performed by a customer. When using the FORCED\_ALTBOOT method, follow the procedure in GP 4, Software Upgrade. Inform the customer that customer data will not be retained using the FORCED\_ALTBOOT method for downgrading machine software.

Switch off, then switch on the machine GP 10.

#### Procedure

Perform the following in order:

- 1. Check connections and cables and perform Software Upgrade again using Altboot in GP 10.
- 2. If the upgrade fails again, use Altboot to upgrade the SW version that existed on the machine prior to attempting the upgrade.
- 3. If the previous version loads correctly, download the upgrade SW again, verify that the files are correct for the machine, and attempt the upgrade using different media.

## 303-315-00 DC Platform Internal Interface Fault RAP

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

#### Procedure



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Check the fault history file for other 303-XXX fault codes.

303-XXX fault codes occur randomly.

1

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Switch OFF, then switch ON the machine, GP 10.

The fault persists.

Υ

Perform SCP 5 Final Actions.

The cause may be due to electrical noise, perform the GP 28 Intermittent Failure RAP.

### 303-316-00 CCM Cannot Communicate With IOT RAP

WD1 Controller PWB Wiring Diagram

Controller cannot communicate with IOT.

Scanning and FAX are available, printing and copying are disabled.



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Switch OFF, then switch ON the, GP 10.
- 2. Perform a Software Upgrade, GP 4, using the Forced Altboot method.
- 3. Install new components in order as required:



**CAUTION:** Never install a new drive PWB, new controller PWB, or black toner cartridge at the same time. First install one of the parts, then switch on the machine, GP 10, to allow the components to sync. If the installation is successful, switch off the machine, then install another part item, if necessary.

- a. Controller PWB, PL 3.05 item 1.
- b. Drive PWB, PL 1.05 item 2.
- 4. If the fault persists, contact next level support.

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## 303-317-00 IOT NVM Save Failure

303-317-00 IOT NVM Save Failure

#### Procedure



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Switch OFF, then switch ON the machine GP 10.

#### Fault Code 303-317 is still declared.

N

If intermittent performance is suspected, inspect the Drive PWB for loose connections or any obvious electrical/mechanical cause for malfunction.

This fault can be caused by IOT software corruption or a software version mismatch between the IOT module and the rest of the software:

- If the fault occurred after replacing the Drive PWB, it is probably a software mismatch; perform a Software Upgrade GP 4.
- If the fault is unrelated to Drive PWB replacement it may be corrupt software; perform a Forced Upgrade.

If this does not resolve the problem replace the following in order,

- 1. Upgrade SW using GP 4
- 2. Install a new Drive PWB, PL 1.05 item 2.

## 303-319-00 IOT NVM Restore Failure

303-319-00 IOT NVM Restore Failure



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

#### **Procedure**

Perform dC361 NVM Restore for the IOT Critical NVM.

If this does not resolve the problem replace the following in order,

1. Install a new Drive PWB PL 1.05 item 2.

## 303–320–00 Incompatible Product Type

Incompatible Product Type. SW Upgrade Aborted due to incompatible product type - software set does not match hardware.



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**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

#### Procedure

Perform GP 4 Software Upgrade with the correct Software module or select the correct .dlm file using the Web UI to upgrade the machine.

## 303–324–00 Software Upgrade File Transfer Failure

SW Upgrade File Transfer failure

#### **Initial Actions**



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Switch OFF, then switch ON the machine GP 10.

#### Procedure

Perform the following in order:

- 1. Check connections and cables and perform SW Upgrade again using Altboot in GP 4.
- 2. Download and upgrade the SW again, verify that the files are correct for the machine, and attempt the upgrade using different media.

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303–320–00

## 303–325–00 Wall Clock Time-out During Power Up

System detects that the Wall Clock has not incremented within 1.5 seconds during Power On.

#### Procedure



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Switch OFF, then switch ON the machine GP 10.

If the problem continues, call service support for assistance.

## 303-326-00 Upgrade is not Required

Upgrade not required, since the SW Upgrade version is the same as the SW version on the machine.



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



**CAUTION:** Software downgrades cannot be performed by a customer. When using the FORCED\_ALTBOOT method, follow the procedure in GP 4, Software Upgrade. Inform the customer that customer data will not be retained using the FORCED\_ALTBOOT method for downgrading machine software.

#### **Procedure**

If a software reinstallation is required, perform GP 4 using Forced Altboot Method.

## 303–327–00 Upgrade Failure

Upgrade Failed. this problem could be caused by an internal timing issue (Front side BUS speed set incorrectly), hardware error, user error and others.

#### **Initial Actions**



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



**CAUTION:** Software downgrades cannot be performed by a customer. When using the FORCED\_ALTBOOT method, follow the procedure in GP 4, Software Upgrade. Inform the customer that customer data will not be retained using the FORCED\_ALTBOOT method for downgrading machine software.

Check connections and reconnect Drive PWB, and Controller PWB and attempt another upgrade using GP 4 Forced Altboot for the system or platform that failed.

#### Procedure

The problem is still present:

Υ

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Return to Service Call Procedures.

Call service support for assistance.

## 303–329–00 Upgrade Request During Diagnostics

Upgrade request received during active diagnostics.



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

#### Procedure

Exit Diagnostics and perform GP 4 Software Upgrade.

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303–327–00

## 303–330–00 Upgrade Request During Active Security Feature

Upgrade request received during active Security function.



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

#### Procedure

Wait until Security function (Image Overwrite) is completed and perform GP 4 Software Upgrade.

## 303–331–00 Communication Fault With NC

Main controller board cannot communicate with Network Controller and unable to reestablish communications for 12 minutes. This problem could be caused by loose connections or improperly seated PWBs.



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

The printer is currently busy. Normal operations should resume momentarily. The controller will continue to try to re-establish communication for 12 minutes.

If the fault persists, go to 303-332-00.

## 303–332–00 NC Communications Timeout

CCS unable to reestablish communication with the Network Controller after 5 minutes.

#### Procedure



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**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Switch OFF, then switch ON the machine, GP 10
- 2. Remove, then reseat all connections on the controller PWB.
- 3. Install a new controller PWB, PL 3.05 item 1.

## 303-333-00 Invalid Value Detected for NVM 616-004 RAP

Invalid value has been detected for NVM 616–004 System configuration.

#### **Initial Actions**



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Power OFF and power ON the machine GP 10.

#### Procedure

Enter diagnostics and check the 616-004 NVM value

- Default = 1
- Min = 0
- Max = 8
- 0 = Unknown (not set)
- 1 = ST (Networked)
- 8 = Network Suppressed

If the value is not correct perform the following-

- 1. NVM Initialization dC301.
- 2. NVM save and restore dC361.

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## 303-338-00 and 303-338-01 CCS/Controller Reset RAP

**303–338–00** CCS has been reset; either the watch dog timer timed out or the application SW wrote to an illegal address.

**303–338–01** System detects that CCS has been reset unexpectedly due to a crash.

#### **Initial Actions**

Check that the customer does not have another device configured with the same IP address.



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Switch OFF, then switch On the machine GP 10.
- 2. Perform dC361 to restore NVM.
- 3. If the fault persists, perform GP 4 software upgrade using the Altboot method.

## 303-346-00 Communication Fault with UI RAP

UI dead- Unable to establish communication with the UI after 5 minutes Perform RAP 303-347-00, Communication Fault with UI.

## 303-347-00 UI Communications Lost RAP

WD1 Controller PWB Wiring Diagram

WD4 2100-Sheet Tray Wiring Diagram

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The controller PWB cannot communicate with UI PWBA.

If communication is not reestablished within 30 seconds, fault code 303-346-00 will be declared.

- 1. Switch OFF, then switch ON the machine, GP 10.
- 2. Perform GP 4, Software Upgrade using the Altboot method.
- 3. If the fault persists perform OF2, UI Touch Screen Failure RAP.

## 303–355–00 CCM POST Failure During NVM Integrity Test

Power On Self-Test failure detected during the NVM Integrity Test.

An error message will be displayed on the LUI for the power on cycle when the fault is raised.

#### **Initial Actions**



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Switch OFF, then switch ON the machine GP 10.

#### Procedure

Report the Billing Meter reset GP 26.

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## 303–380–00 Distribution PWB Missing or Disconnected RAP

PWB is missing or disconnected.

- 1. Switch OFF, then switch ON the machine, GP 10.
- 2. If the fault persists, contact next level support for assistance.

## 303–381–00, 303–382–00, 303–383–00Critical Parameter Write Fail RAP

303-381-00 MCB Critical Parameter Write Fail

303-382-00 Mirror Critical Parameter Write Fail

303-383-00 CRUM Critical Parameter Write Fail

A memory write error occurred. When a memory location needs to be updated to match the others, a write may be attempted up to two tries before raising an error.

Switch OFF, then switch ON the machine, GP 10.

## 303–397 System Configuration is Lost

This fault occurs when the System Configuration is lost and an attempted recovery made.



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

#### Procedure

Refer to GP 8

## 303-401 Basic FAX Not Detected or Confirmed

Basic FAX not detected/confirmed

#### Procedure



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Switch the power OFF then ON GP 10. If the problem continues, go to the OF12.

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## 303-403 Extended FAX Not Detected or Confirmed

Extended FAX not detected/confirmed

#### Procedure



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Switch the power OFF then ON GP 10. If the problem continues, go to the OF12.

## 303-406-00 FIK Does Not Match Machine Class RAP

FIK speed does not match machine class.

- 1. Switch OFF, then switch ON the machine, GP 10.
- 2. Install a new controller PWB, PL 3.05 item 1.

## 303–417–00 Incompatible FAX SW Detected at Power Up

Incompatible FAX software detected at power on

#### Procedure



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**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Switch OFF, then switch ON the machine. If the problem continues, reload FAX software GP 10.

## 303-450-00 Unexpected IOT reset RAP

Unexpected IOT reset has occurred.



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Switch OFF, then switch ON the machine. If the problem persists, reload System software GP 10.

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## 303-777-00 Power Loss Detected

Input Power loss detected or software corruption.

Power on Self test has detected that the previous shutdown was abnormal. Possible causes include the following:



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- The main power switch was used to power off the machine instead of the software switch.
- Power outage / unplugging power cord / poor voltage quality.

#### Procedure

- Verify customer power outlet voltage is correct.
- Perform customer training on proper power down process.

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

CCS Runtime could not enter power saver mode S3.

**Note:** The CC USB could not re-enumerate the UI panel coming out of sleep, which keeps parts of the system in power saver mode S3 and parts awake. This prevents system entry into power saver mode S3 at the next attempt to do so.



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Switch OFF, then switch ON the machine, GP 10, to allow system to enter power save.

## 303–790–00 Time Zone File Cannot be Set

Timezone file cannot be set. At power up, the time zone setting is not valid due to NVM corruption, or OS file system problem. Time Zone overridden to GMT: DST Disabled.

#### **Procedure**



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**WARNING:** Switch off the electricity to the machine, **GP 10.** Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Switch OFF, then switch ON GP 10.
- 2. Perform dC361 to restore NVM.
- 3. If the problem continues, perform GP 4 SW upgrade.

## 303-805-00 GPU is Hung RAP

The Graphical Processing Unit is hung. Kernel logs a critical error in the logs.

- 1. Switch OFF, then switch ON the machine, GP 10.
- 2. Install a new controller PWB, PL 3.05 item 1.

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## 305-101-00, 305-102-00, 305-124-00, 305-125-00, 305-906-00, 305-922-00 Sensor DADF Scan 1 Jam Service Check RAP

305-101-00 First Scan Sensor not reached.

**305-102-00** First Scan Sensor not cleared.

305-124-00 First Scan Off Jam.

305-125-00 First Scan On Jam.

305-906-00 Remainder Jam First Scan.

305-922-00 Remainder Jam - First Scan Sensor.



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Make sure that paper is supported and loaded properly.
- 2. Check the DADF pick rollers and separator rollers for wear, damage, contamination, and improper installation.
- 3. Check the DADF paper path for debris and foreign object.
- 4. Make sure that the DADF top cover and the DADF is properly closed.
- 5. Make sure that the sensor (DADF scan 1) is functional. Do the following:
  - a. Enter the Diagnostics Menu, GP 1.
  - b. Touch Diagnostics > dC330 Component Control > Print Engine > Sensor Tests.
  - c. Touch the appropriate test for the Sensor in question.
- Make sure that the connections between the sensor (DADF scan 1) and the controller PWB are properly connected.
- 7. Check the sensor (DADF scan 1) and its actuator for damage and improper installation.
- 8. Make sure that the connections between the DADF and the controller PWB are properly connected.
- 9. Check the DADF pick drive for improper operation.
- Check the DADF pick drive rollers and gears for wear and damage. Install a new DADF maintenance kit, PL 5.05 item 4.

September 2023 305-101-00, 305-102-00, 305-124-00, 305-125-00, 305-906-00, 305-922-00

# 305-103-00, 362-358-00, 362-397-00 to 362-399-00, 362-463-00, 362-476-00, 362-798-00 Scanner Communication Error Service Check RAPs

305-103-00 Scanner Disabled by any other reason (invalid license, too many hw errors, etc.)

362-358-00 Backside Cable error

362-397-00 IIT Comm Failure - Logical Protocol

362-398-00 Scanner Comm Failure- HW Protocol

362-399-00 IIT Comm Failure - No Response

362-463-00 IIT Mech Failure - DADF

**362-476-00** IIT Mech Failure - Flatbed carriage failed to home

362-798-00 Frontside FFC cable is unplugged



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Enable the scanner via the control panel or EWS.
  - a. From the home screen, touch Settings > Device > Maintenance > Configuration Menu > Scanner Configuration > Disabled Scanner .
  - b. Select Enabled.
- 2. Switch OFF, then switch ON the machine, GP 10.
- 3. If an 84y.xx error code persists, then check if the DADF or the flatbed scanner is causing the error
- 4. Check the error logs in the Print Log Summary.
  - a. Enter the Diagnostics menu, and then touch Event Log > Print Log Summary .
  - If the printer has encountered successive scanner errors, then perform the appropriate service check.

**Note:** Before replacing an DADF or flatbed scanner, perform a sensor test and motor test to validate which scanner is causing the error.

- 5. Make sure that the DADF sensors and motors are functional, do the following:
  - a. Enter the Diagnostics menu, and then touch Scanner diagnostics .
  - b. Perform all DADF sensor and motors tests.
- Make sure that the connections between the DADF and the controller board are properly connected.
- Check the DADF for wear, damage, and improper installation. For more information, see REP 5.1.
- 8. Make sure that the flatbed scanner sensors and motors are functional, do the following:
  - i. Enter the Diagnostics menu GP 1, and then touch dC330 component control (scan engine).
  - b. Perform all flatbed scanner sensor and motors tests.

- Make sure that the connections between the flatbed scanner and the controller board are properly connected.
- 10. Check the flatbed scanner for wear, damage, and improper installation. For more information, see REP 60.2.

## 305-106-00 Cover Open RAP

**305-106-00** Rear Cover Open.



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Check the doors for the following:
  - Obstructions
  - Damage
  - Improper operation
- 2. Close the doors properly.

Note: Make sure that there is no gap between the door and the printer.

- 3. Make sure that the door links and hinges are properly interlocked and the sensor actuator is not damaged.
- 4. Press the power button to turn off the printer, and then disconnect the power cord from the electrical outlet.
- 5. Wait for 30 seconds to make sure that all electrical charges have dissipated from the printer.
- 6. Connect the power cord to the electrical outlet, and then press the power button to turn on the printer.
- 7. Wait for the printer to completely boot up and initialize all its components before sending the print job again.
- 8. Check the sensor (door interlock) actuator for damage and improper installation.
- 9. Make sure that the sensor (door interlock) is functional, do the following:
  - a. Enter the Diagnostics Menu, GP 1.
  - b. Touch Diagnostics > dC330 Component Control > Print Engine > Sensor Tests.
  - c. Touch the appropriate test for the Sensor in question.
- 10. Make sure that the connections between the controller PWB PL 3.05 item 1 and sensor (door interlock) are properly connected.

## 305-121-00 DADF Paper Undetected Service Check RAP

305-121-00 Feed Sensor Off RAP.

#### Initial Actions

Check the UI settings and the paper in the tray match the requirements for the job.

- 1. Make sure that the sensor (DADF media present) is functional. Do the following:
  - a. Enter the Diagnostics Menu, GP 1.
  - b. Touch Diagnostics > dC330 Component Control > Print Engine > Sensor Tests.
  - c. Touch the appropriate test for the Sensor in question.
- Make sure that the connections between the sensor (DADF media present) and the controller PWB are properly connected.
- 3. Check the sensor (DADF media present) and its actuator for damage and improper installation.

## 305-126-00, 305-127-00, 305-129-00, 305-175-00 to 305-177-00 Sensor (DADF scan 2) Jam Service Check

305-126-00 Second Scan Dup Off Jam

305-127-00 Second Scan Dup On Jam

305-129-00 Remainder Dup / Second Scan Jam

305-175-00 Remainder Jam - Second Scan/Duplex Sensor RAP

305-176-00 Second Scan/Duplex Sensor not reached

305-177-00 Second Scan/Duplex Sensor not cleared



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Make sure that paper is supported and loaded properly.
- 2. Check the DADF pick rollers and separator rollers for wear, damage, contamination, and improper installation.
- 3. Check the DADF paper path for debris and foreign object.
- 4. Make sure that the DADF top cover and the DADF is properly closed.
- 5. Make sure that the sensor (DADF scan 2) is functional. Do the following:
  - a. Enter the Diagnostics menu, GP 1.
  - b. Touch Diagnostics > dC330 Component Control > Print Engine > Sensor Tests.
  - c. Touch the appropriate test for the Sensor in question.
- 6. Make sure that the connections between the sensor (DADF scan 2) and the controller board are properly connected.
- 7. Check the sensor (DADF scan 2) and its actuator for damage and improper installation.
- 8. Make sure that the connections between the DADF and the controller board are properly connected.
- 9. Check the DADF pick drive for improper operation.
- 10. Check the DADF pick drive rollers and gears for wear and damage. For more information, see REP 5.2.

## 305-197-00 Inhibited Size Combination Jam (PF1,PF2) RAP

A size which cannot be combined is detected.

Follow the instructions on the UI.

## 305-210-00 Imagepipe Error RAP

**305-210-00** Imagepipe Error



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Make sure that paper is supported and loaded properly.
- 2. Remove the jammed paper in the DADF.
- 3. Switch OFF, then switch ON the machine, GP 10.
- 4. Resent the copy job.

**Note:** While scanning multiple documents with different sizes using the DADF, set the Scan Size option to **Mixed** or **Auto-size**.

305–211–00, 305–212–00, 310-406-00, 310-419-00, 310-422-00 to 310-424-00, 310-426-00 to 310-431-00, 310-487-00, 310–649–00 to 310–653–00, 345-101-00 to 345-104-00, 377-229-00 to 377-234-00, 377-280-00 Printhead Error Service Check

305-211-00 Laser Safety interlock.

305-212-00 Mirror motor lock fail.

310-406-00 Mirror motor lock is asserted before the motor is turned on.

**310-419-00** The printhead +5V power was not on when starting the laser servo.

310-422-00 No first hsync

**310-423-00** Lost hsyncs

310-424-00 Lost hsyncs during servo

310-426-00 Mirror motor never got first lock

310-427-00 Mirror motor lock never stabilized

310-428-00 Page reached input sensor but the mirror motor was not locked

**310-429-00** Page reached input sensor but the printhead startup was not complete

310-430-00 Wrong printhead installed

**310-431-00** Printhead failed initial power on tests

**310-487-00** Bad facet time reading

310-649-00 Lost haynes during servo

310-650-00 Mirror motor never got first lock

310-651-00 Mirror motor lock never stabilized

310–652–00 Page reached input sensor but the mirror motor was not locked

310–653–00 Page reached input sensor but the printhead startup was not complete

**345-101-00** EP received update for recently completed side-Likely cause is a short make on input sensor, that did not pass filtering by page supervisor

**345-102-00** EP started a runin late, with less time than it takes to do the motor ramp

345-103-00 Page at X before EP is ready

**345-104-00** Input ISR occured and the printhead was not ready

377-229-00Never received Toner Tally from the RIP

377-230-00 Video never started

377-231-00 Transfer Servo never started

377-232-00 Duplex page never picked

#### 377-233-00 Invalid PH NVRAM Type

377-234-00 No response from paperport driver

**377-280-00** Purposefully declared jam from the RIP- Typically used to prevent a kiosk user from printing free pages



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**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Switch OFF, then switch ON the machine, GP 10.
- 2. Check the connections between the controller PWB, PL 3.05 item 1, and the printhead, PL 60.05 item 1, are properly connected.
- 3. Check the printhead for damage, contamination, and improper installation. Correct as required.
- 4. If the fault persists, install new components in order as required:
  - a. Controller PWB, PL 3.05 item 1.
  - b. Printhead, PL 60.05 item 1.

## 305-300-00 Platen Cover Interlock Opened During Run RAP

**305-300-00** Platen cover interlock opened during run



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Make sure that paper is supported and loaded properly.
- 2. Make sure that the sensor (DADF cover) is functional. Do the following:
  - a. Enter the Diagnostics Menu, GP 1.
  - b. Touch Diagnostics > dC330 Component Control > Print Engine > Sensor Tests.
  - c. Touch the appropriate test for the Sensor in question
- 3. Make sure that the connections between the sensor (DADF cover) and the controller board are properly connected.
- 4. Check the sensor (DADF cover) and its actuator for damage and improper installation.
- Make sure that the connections between the DADF and the controller board are properly connected.
- 6. Check the DADF top cover for foreign objects.
- 7. Check the DADF top cover for damage and improper installation.. For more information, see REP 5.2.

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305-300-00

310-327-00, 310-330-00, 310-341-00, 310-363-00, 310-368-00 to 310-370-00, 310-372-00 to 310-374-00, 310-376-00 to 310-379-00, 310-383-00 to 310-386-00, 310-457-00, 310-646-00, 310-648-00 Fuser Error Service Check

310-327-00 Fusing On Time Fail

310-330-00 Fuser Motor Fail

310-341-00 Fuser powerup Fail

**310-364-00** Fuser warm up fail

310-368-00 Fuser EWC line temp fail

310-369-00 Fuser EWC / Line long

310-370-00 Fuser heated to final EWC / Line Detection temperature (90C belt 149C lamp) too fast

**310-372-00** Fuser power up untertemp too long

310-373-00 Fuser feed untertemp too long

310-374-00 Fuser under temp fail

310-376-00 Fuser under temp check

**310-377-00** Fuser On Time Fail

310-378-00 Fuser Main temp fail

310-379-00 Fuser Main therm open

310-646-00 Fuser undertemp during steady state control. Can occur in printing or standby modes

310-648-00 Fuser failed to reach EP warmup temp in time

310-457-00 Open fuser relay detected

**310-385-00** Fuser relay was turned off, but the feedback to the engine code indicated it was still open

**310-386-00** Fuser never reached final EWC / Line Detection temperature (90C belt 149C lamp)

**310-384-00** Fuser is heating too fast. Designed to catch a triac that is latched on

**310-383-00** Fuser heater was too cold when page entered fuser nip



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Make sure that the printer is placed in a location with the following temperature and humidity:
  - 60°F to 90°F temperature range
  - 8% to 80% relative humidity
- 2. If the printer needs to be placed in a below freezing environment, then do the following:
  - a. Remove the fuser, and then allow it to slowly warm above freezing temperature.

- b. Reinstall the fuser, and then turn on the printer.
- Increase the timeout value for sleep mode to 114. From the home screen, touch Settings > Device > Power Management > Timeouts > Sleep Mode.

Note: 114 minutes is the maximum acceptable timeout value.

- 3. Make sure that the printer is plugged into a into an appropriate rate and properly grounded electrical out let or supported Inline Surge Protector.
- 4. Switch OFF, then switch ON the machine, GP 10.
- 5. Make sure that the cooling fan is functional. Do the following:
  - a. Enter the Diagnostics Menu, GP 1.
  - b. Touch Diagnostics > dC330 Component Control > Print Engine > Motor Tests.
  - c. Touch the appropriate test for the Motor in question.
- Make sure that the connections between the cooling fan and the controller board are properly connected.
- 7. Check the cooling fan for damage, contamination, and improper installation. For more information, see REP 40.1.
- 8. Make sure that the correct voltage is supplied to the fuser from the power supply.
- Make sure that the connections between the controller board and the fuser are properly connected.
- Check the fuser for damage, contamination, and improper installation. For more information, see REP 10.1.

310-473-00 to 310-476-00, 310-517-00, 340-110-00, 340-130-00, 340-132-00, 340-135-00, 340-167-00 to 340-169-00, 340-171-00 to 340-176-00, 340-178-00 to 340-184-00, 340-200-00 900 Error Service Check

310-473-00 NVRAM chip failure with mirror part

310-474-00 System Board NAND Failure

**310-475-00** the engine timed out waiting for a mechanical reset or an intervention required clear to complete after tray insert

310-476-00 The engine timed out waiting for an option to quiescent

310-517-00 Engine cable error: No video communication between RIP & engine cards

340-110-00 SWERR OPTION ERROR

340-130-00 SWERR\_FIXED\_POINT\_MATH\_ERROR

340-132-00 SWERR\_TOO\_MANY\_EVENT\_CALLBACKS

**340-135-00** SWERR\_NO\_PPDRV\_RESPONSE

340-167-00 Paperport communication device detected a validation failure.

**340-168-00** Paperport communication device detected a framing error or the receive buffer overflowed.

340-169-00 Paperport communication device timed out during communication.

**340-171-00** An option did not echo the last communication byte sent within allotted time.

**340-172-00** An option declared a link reset.

**340-173-00** Command response error on the paperport. Response is too large for the communications buffer.

340-174-00 The printer has detected a hot plug of an optional device.Low-level error on paperport.

340-175-00 Invalid Paper port protocol

340-176-00 Paper port Framing Error

340-178-00 Paper port parity Error

340-179-00 Paper port Other Paper port Error

340-180-00 Paper port encountered multiple communication error

340-181-00 Invalid Paper port Echo

340-182-00 Unsupported Paperport command

**340-183-00** Invalid paperport parameter

340-184-00 option device software error

340-200-00 SWERR TIMEOUT WAITING FOR POWER



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Clear all jobs in the printer and computer print queue.
- 2. Switch OFF, then switch ON the machine, GP 10.
- 3. Turn off the printer.
- 4. Disconnect the USB cable, fax line, and network cable from the printer.
- 5. Turn on the printer.
- 6. If the error does not occur, then install each cable one at a time and perform a POR after each cable installation.
- 7. Make sure that the printer is running the latest firmware version.

  If the printer cannot connect to the network due to a 900 error, then do the following:
  - a. Enter Recovery mode. For more information, see GP 4.
  - b. Flash the firmware code through a USB cable that is directly connected to a computer.
- 8. Turn off the printer.
- 9. Remove all electronic options (hard disk, ISD, wireless module, ISP, and memory options).
- 10. Turn on the printer.
- 11. If the error does not occur, then install the electronic options one at a time and perform a POR after each electronic option installation.
- 12. Replace the electronic option that causes the error.
- 13. Make sure that the connections between the engine board and the controller board are properly connected.
- 14. Check the controller board for the following:
  - Foreign debris (dust, dirt, or any accumulated material).
  - Circuit board expansion due to heat and humidity.
  - Damaged pins, burnt-out components, and signs of overheating and bulging.
  - Missing components and solder joint connection issues.
  - Contamination issues (corrosion, degradation, metallization, and chemical leakage).
  - Incorrect input or output voltages. See the wiring diagram.
     For more information, see REP 3.1.

#### 316-000-00 to 316-016-99 Network Faults 1 RAP

316-000-00 Format services non shutdown ESS faults.

316-000-01 ENS service non shutdown ESS faults.

316-000-09 Cannot create RPC connection with ENS.

316-000-19 Cannot create RPC connection with ENS.

**316-001-09** Unable to do startup synchronization.

**316-001-14** Unable to do startup synchronization.

**316-001-19** Unable to do startup synchronization.

316-001-26 Unable to startup and synchronize with SC.

316-003-09 Too many IPC handles.

316-003-14 Too many IPC handles.

316-003-19 Too many IPC handlers.

**316-004-14** RPC call failure to ESS registration service.

**316-004-19** RPC connect failure to ESS registration service.

**316-005-14** RPC call failure to ESS registration service.

316-005-19 RPC call failure to ESS registration service.

**316-005-68** RPC call failure to ESS registration service (to register with).

316-005-92 RPC call failure to ESS registration service (to register with).

316-006-09 Cannot register for events.

**316-006-19** Cannot register for events.

316-009-09 Invalid IPC data received.

316-010-14 Unable to send IPC.

316-010-99 IPC open, create, signal queue failed.

316-012-00 Rolling reboot has been detected.

316-015-14 SESS data store environmental variable not set.

316-015-19 SESS data store environmental variable not set.

316-016-14 Data store initialization failed.

316-016-19 Data store initialization failed.

316-016-99 Data store initialization failed.

- 1. If a single occurrence, take no action.
- 2. For multiple occurrences, go to 316E Network Fault Checkout RAP.

## 316-023-09 to 316-153-19 Network Faults 2 RAP

316-023-09 RPC call failure to ENS.

316-026-09 Memory allocation failure.

**316-026-14** Memory allocation error.

316-030-19 Unable to obtain client RPC handle to EJS.

316-031-09 Invalid event notification received.

316-048-09 Unable to set binding.

**316-048-14** Cannot set ESS client binding.

316-048-99 Unable to set client binding.

316-051-00 File Descriptor (FD) Threshold Exceeded.

**316-101-93** Swap memory usage exceeds 90 percent

**316-150-19** Unable to sync peer (within ESS) infrastructure services.

316-150-26 Fault service failed to write log.

316-151-09 Invalid IPC command.

316-151-26 Fault service failed to get a log handle.

316-152-09 Internal IPC failure.

316-152-14 Empty internal event received by ENS.

316-152-19 Unable to send request to SESS.

316-152-26 Fault service could not open fault log.

**316-153-09** Unable to obtain IPC queue.

316-153-14 Can not initialize internal event list.

316-153-19 NVM save failure.

- 1. If a single occurrence, take no action.
- 2. For multiple occurrences, perform the 316E Network Fault Checkout RAP.

## 316-154-14 to 316-164-09 Network Faults 3 RAP

316-154-14 Cannot create internal event.

316-154-19 NVM read failure.

316-156-19 Service run loop failed.

**316-161-09** Cannot send registration event.

316-164-09 List access failure (create, add, find, delete).



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. If a single occurrence, take no action.
- 2. For multiple occurrences, perform, 316E Network Fault Checkout RAP.

## 316-165-01 to 316-165-04 SLC and MLC Wear Level RAP

**316-165-01** SLC wear level at 90 %

**316-165-02** MLC wear level at 90 %

**316-165-03** SLC wear level at 100 %

**316-165-04** MLC wear level at 100%

Procedure



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Switch OFF, then switch ON the machine, GP 10.
- 2. If the fault persists, contact next level support.

## 316-331-00 and 316-331-01 UI Panel Communication Failure RAP

316-331-00 UI Panel Communication Failure.

316-331-01 UI Panel Communication Failure After Retry

The UI panel stopped communication with the controller PWB.

#### **Procedure**



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WARNING: Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Switch OFF, then switch ON the machine,GP 10.
- 2. If the fault persists, perform the 302-380-00 UI Communication Fault RAP.

## 316-333-00 Device DLM Process Unloaded After Causing Repeated Resets RAP

A device dlm was unloaded after causing repeated resets.

No action required.

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## 316-338-00 and 316-339-00 Platform Death Faults RAP

316-338-00 NC Platform Death. An element of the network Controller has crashed.

316-339-00 UI Platform Death. An element of the UI has crashed.

No actions required. The machine will self-restart. The UI should display the message:

- NC Platform Death 316-338-00
- UI Platform Death 316–339–00

## 316-340-00 UI Power On Failure RAP

UI power on timer expired.

No action required, The machine will self-restart. The UI should display the message: UI Power On Failure.

## 316-400-19 NVM Connection Failure RAP

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Invalid System Config; SW Error; NVM Corrupted; NVM Non existent.

No action required. The UI should display the message: NVM Failure - Init performed.

## 316-428-00, 316-430-00 NVM Save Failure RAP

316-428-00 NVM Save to FPGA Failure

316-430-00 NVM Save to SPI Failure

- 1. Switch OFF, then switch ON the machine, GP 10.
- 2. If the fault persists, install a new controller PWB, PL 3.05 item 1.

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## 316-435-00, 316-435-01, 316-436-00 UI Faults RAP

316-435-00 UI thread not running 10s warning.

316-435-01 UI thread not running 30s warning.

316-436-00 UI Serial Comm Not Present.

No action required.

## 316-501-00 to 316-544-00 Network Faults 4 RAP

316-501-00 Ethernet cable not connected.

316-502-00 USB WiFi adapter not installed.

316-503-00 Ethernet 802.1X connection failure.

**316-504-00** WiFi connection failure. Cannot connect to the WiFi network.

316-505-00 WiFi connection lost.

316-506-00 Ethernet DHCP/BOOTP Error: DHCP/BOOTP failure.

316-507-00 Ethernet DHCP/BOOTP Error: DHCP/BOOTP failure.

316-508-00 Ethernet DHCP/BOOTP Error: DHCP/BOOTP failure.

316-509-00 Ethernet DHCP/BOOTP Error: DHCP/BOOTP failure.

316-514-00 Ethernet DHCP/BOOTP Error: DHCP/BOOTP failed to obtain an address.

316-517-00 WiFi DHCP/BOOTP Error: DHCP/BOOTP failed to obtain an address.

316-518-00 Ethernet DHCP/BOOTP Error: DHCP/BOOTP failed to obtain an address.

316-519-00 WiFi DHCP/BOOTP Error: DHCP/BOOTP failed to obtain an address.

316-524-00 Ethernet: Duplicate IPv4 address detected.

316-525-00 WiFi Duplicate IPv4 address detected.

316-526-00 Ethernet: No IPv4 router configured.

316-527-00 WiFi: No IPv4 router configured.

316-528-00 Ethernet: No IPv6 router advertisement. No routable IPv6 address configured.

**316-529-00** WiFi: No IPv6 router advertisement. No routable IPv6 address configured.

**316-531-00** Ethernet: Duplicate IPv6 address detected.

**316-533-00** WiFi: Duplicate IPv6 address detected.

316-535-00 Ethernet DHCPv6 Error: DHCPv6 failed to obtain an address.

316-536-00 WiFi DHCPv6 Error: DHCPv6 failed to obtain an address.

316-540-00 Ethernet DHCPv6 Error: DHCPv6 failed to obtain an address.

316-544-00 WiFi DHCPv6 Error: DHCPv6 failed to obtain an address.

- 1. If a single occurrence, take no action.
- 2. For multiple occurrences, perform, 316E.

#### 316-600-35 to 316-608-105 Network Faults 5 RAP

316-600-35 Can not create RPC connection to ENS.

316-600-66 Unable to Create RPC Connection with ENS.

316-600-67 Unable to Create RPC Connection with ENS.

316-600-19 Client Bridge Communication Timeout(EAGAIN).

316-601-26 Fault Service Failed IPC Queue Setup.

**316-601-35** System Control initialization failed.

316-601-47 Diag Service Failed IPC Queue Setup.

**316-601-66** Unable to do start up synchronization.

**316-601-67** Unable to do start up synchronization.

316-601-68 Unable to start up & sync with SC.

316-602-19 UI Client Bridge Communication Timeout (EAGAIN).

316-602-28 RPC Server Registration failed.

316-602-35 RPC Server Registration.

316-602-38 RPC Server Registration failed.

**316-602-66** Unable to Register as an RPC Server.

316-602-67 Unable to Register as an RPC Server.

**316-602-68** Unable to Register as an RPC Server.

316-602-105 Unable to Register as an RPC Server.

316-603-11 Replace handler call failed.

316-603-28 Replace handler call failed.

316-603-46 Too many IPC handlers.

316-603-66 Too many IPC handlers.

316-603-67 Too many IPC handlers.

316-603-68 Replace handler call failed.

**316-603-105** RPC call failure to network controller registration service.

316-604-14 Unable to unregister as RPC service during shutdown. Registration failed.

**316-604-38** Could not register with registration service.

**316-604-99** Could not register with registration service.

**316-604-105** SESS data store environmental variable not set.

**316-605-07** Unable to register with registration service.

**316-605-14** RPC call failure to ESS registration service.

316-605-26 Fault service timed out registering with registration service.

**316-605-35** RPC call failure to NC registration service.

316-605-47 RPC call failure to NC registration service (to register with).

316-605-66 RPC call failure to NC registration service.

316-605-67 RPC call failure to NC registration service.

316-605-105 Unable to unregister as RPC service during shutdown.

316-606-07 Cannot register for events.

316-606-35 Cannot register for events.

316-606-46 Cannot register for events.

316-606-99 Cannot register for events.

**316-606-105** OS problem.

316-607-19 Invalid RPC data received.

316-607-46 Invalid RPC data received.

316-607-47 Invalid RPC disk diagnostic data received.

316-607-92 Invalid RPC data received.

316-607-105 Service run loop failed.

316-608-09 Unable to free IPC resources.

316-608-11 IPC unregister failed.

316-608-14 Unable to free IPC resources.

316-608-26 Fault service failed to unbind with SC.

316-608-28 IPC unregister fail.

316-608-35 Unable to free IPC resources.

316-608-66 Unable to free IPC resources.

**316-608-67** Unable to free IPC resources.

**316-608-68** Unable to Free IPC Resources.

316-608-105 Unable build UI SVC, obtain client failed.

1. If a single occurrence, take no action.

2. For multiple occurrences, go to the 316E Network Fault Checkout RAP.

## 316-609-19 to 316-612-68 Network Faults 5 RAP

316-609-19 Invalid RPC data received.

**316-609-26** Fault service encountered error trying to get IPC message.

316-609-47 Invalid IPC data received. Get SC diagnostics handle failed.

316-609-92 Invalid IPC data received.

316-609-105 Too many IPC handlers.

316-610-00 IPC send failure to ESS AAA service for queue command authorization.

316-610-09 Cannot send IPC message to ESS platform manage.

316-610-11 IPC communication failed.

316-610-19 Unable to send IPC message.

316-610-26 Unable to send IPC message.

**316-610-28** IPC communication failed.

**316-610-35** Unable to send IPC message.

**316-610-92** Failure to send queue status.

316-610-99 Unable to send IPC message.

316-611-14 Unable to remove RPC connection.

316-611-19 Unable to remove RPC connection.

316-611-26 Unable to remove RPC connection.

316-611-38 Client removal failure.

316-611-47 Unable to remove RPC connection.

316-611-66 Unable to remove RPC connection.

316-611-67 Unable to remove RPC connection.

316-611-99 Unable to remove RPC connection.

**316-612-09** Unable to do shutdown synchronization.

316-612-14 Unable to do shutdown synchronization.

**316-612-35** Unable to do shutdown synchronization.

316-612-68 Unable to do shutdown synchronization.

- 1. If a single occurrence, take no action.
- 2. For multiple occurrences, go to the 316E Network Fault Checkout RAP.

## 316-613-09 to 316-617-19 Network Faults 6 RAP

**316-613-09** DC registration synchronization error.

**316-613-14** DC ENS synchronization error.

**316-613-19** DC sys mgr sync error.

**316-614-09** DC registration communications error.

**316-614-14** Digital copier ENS registration error.

316-614-19 DC sys mgr communications error.

316-615-35 SESS data store environmental variable not set.

316-615-66 SESS data store environmental variable not set.

316-615-67 SESS data store environmental variable not set.

316-616-35 Data Store initialization failure.

316-616-38 Error - Shared Memory Failure.

316-616-67 Submission of Email or IFax Job Failed.

316-617-19 Send Event Failure Unable to send event to NC ENS.



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. If a single occurrence, take no action.
- 2. For multiple occurrences, go to the 316E Network Fault Checkout RAP.

## 316-620-92 to 316-625-90 Network Faults 7 RAP

**316-620-92** Unable to unregister with network controller registration service due to registration service failure.

**316-620-93** Unable to unregister with network controller registration service due to registration service failure.

316-620-99 Registration service failed.

316-621-00 Unable to get host name. Configuration error.

316-621-07 Unable to get host name. Configuration error.

**316-621-11** Unable to get host name. Configuration error.

**316-621-28** Unable to get host name. Configuration error.

316-621-35 Failed to get host name using GetHostName call.

316-621-38 Failed to get host name using GetHostName call.

316-621-47 Failed to get host name using GetHostName call.

316-621-66 Unable to get host name.

316-621-67 Unable to get host name.

**316-621-93** Failed to get host name using GetHostName call.

316-621-99 Failed to get host name using GetHostName call.

**316-622-07** Corrupt O/S RPC table.

316-622-09 Corrupt O/S table.

316-622-11 Corrupt O/S table.

316-622-14 Corrupt O/S table.

316-622-19 Corrupt O/S table.

316-622-26 Corrupt O/S table.

**316-622-28** Corrupt O/S table.

**316-622-35** Corrupt O/S table.

316-622-38 Corrupt O/S table.

**316-622-46** Corrupt O/S table.

316-622-47 Software upgrade file failure.

**316-622-66** Unable to unregister as RPC service during shutdown.

316-622-67 Unable to register as RPC service during shutdown.

316-622-68 Unable to register as RPC service during shutdown.

**316-623-35** ENS Service failed to respond in time.

316-623-47 ENS service failed to respond in time.

316-624-46 RPC corrupted o/s failure.

316-625-35 Unknown message received. Software version mismatch.

316-625-46 Software version mismatch.

316-625-66 Invalid IPC message type.

316-625-67 Invalid IPC message type.

**316-625-90** Known service sends message that does not make sense.

#### **Procedure**



**WARNING:** Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 4. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- 1. If a single occurrence, take no action.
- 2. For multiple occurrences, go to the 316E Network Fault Checkout RAP.

## 316-626-00 to 316-635-99 Network Faults 8 RAP

**316-626-00** Memory leak, software bug memory corrupt. Virtual memory exhausted. Process size exceeding system limits.

**316-626-11** Memory leak, software bug memory corrupt. Virtual memory exhausted. Process size exceeding system limits.

**316-626-38** Memory leak, software bug memory corrupt. Virtual memory exhausted. Process size exceeding system limits.

**316-626-47** Memory leak, software bug memory corrupt. Virtual memory exhausted. Process size exceeding system limits.

316-626-66 Memory allocation failed.

316-626-67 Memory allocation failed.

316-628-07 Range environment variable not set. Set to invalid numeric string.

316-628-09 Unable to complete RPC call.

316-628-35 Range environment variable not set. Set to invalid numeric string.

316-628-46 Range environment variable not set. Set to invalid numeric string.

316-628-66 Range environment variable not set. Set to invalid numeric string.

316-628-67 Range environment variable not set. Set to invalid numeric string.

316-629-11 Fault service call to PSW callback failed.

316-629-26 Fault service call to PSW callback failed.

**316-629-46** No acknowledgment for RPC message.

316-629-66 No acknowledgement for RPC message.

316-629-67 No acknowledgment for RPC message.

316-629-68 No acknowledgment for RPC message.

**316-629-92** No acknowledgment for RPC message. RPC timeout calling program received void response due to corrupt RPC.

**316-629-93** No acknowledgment for RPC message. RPC timeout calling program received void response due to corrupt RPC.

**316-630-09** Corrupt O/S RPC table.

316-630-26 Corrupt system configuration.

**316-630-35** Unable to get RPC client handle. Corrupt system configuration.

316-630-38 Null pointer returned when obtain client attempted.

316-630-46 Corrupt system configuration.

316-630-47 Corrupt system configuration.

316-630-66 Unable to get RPC client handle.

**316-630-67** Unable to get RPC client handle.

316-630-68 Unable to get RPC client handle.

316-630-99 Corrupt system configuration.

316-631-19 Software error in the ENS service or in the service generating the fault.

316-631-46 Software error in the ENS or in the service generating the fault.

316-633-19 Invalid system configuration. NVM corrupted.

**316-634-46** Unable to specify shutdown routine during initialization.

**316-635-07** Cannot free XDR data.

316-635-35 Cannot free XDR data.

316-635-46 Unable to free XDR data.

316-635-99 Unable to convert serialized data to internal data structure.

#### Procedure



**WARNING:** Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 4. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- 1. If a single occurrence, take no action.
- 2. For multiple occurrences, go to the 316E Network Fault Checkout RAP.

## 316-629-92 No Acknowledgment To RPC Message and RPC Timeout RAP

No Acknowledgment to RPC Message.

RPC timeout calling program received void response due to one or more of the following conditions:

- Corrupt RPC
- Corrupt System Configuration
- Service being communicated with died
- Loose Cable

#### Procedure



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**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. If a single occurrence, take no action.
- 2. For multiple occurrences perform, 316E.
- 3. If the fault persists, contact 2nd level support.

#### 316-636-35 to 316-647-26 Network Faults 9 RAP

316-636-35 Unable to convert serialized data to internal data structure. Unable to free XDR data.

316-636-99 Unable to convert serialized data to internal structure. Unable to free XDR data.

**316-637-11** Failed to open system jobs file.

316-637-26 Failed to open system jobs file.

**316-637-38** Disk write error.

316-637-47 Failed to open a file. Bad disk.

316-637-66 File I/O error.

316-637-67 File I/O error.

316-637-93 File I/O error.

316-637-95 File I/O error.

**316-638-66** Unable to initialize with queue library.

**316-638-67** Unable to initialize with queue library.

**316-639-38** O/S failure memory.

**316-639-46** O/S failure memory.

316-640-00 Invalid system date for Apache HTTPS device certificate.

316-640-28 Calling program received void.

**316-640-35** RPC send corrupt.

316-640-46 O/S failure.

**316-641-00** Cannot log fault to network controller fault log. Either registration or network controller fault service is not available.

**316-641-26** Unable to log a fault on the network controller.

316-641-46 Cannot log fault to network controller fault service.

316-642-46 Software error.

316-642-47 Software error.

316-643-19 Disk write error.

316-643-26 Failed to close system jobs file.

316-643-47 Failed to close a file.

316-644-11 Common logging utility failed to get log size.

316-644-26 Common logging utility failed to get log size.

**316-644-47** Failed while trying to get data for next process to be verified.

316-644-66 File I/O error.

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316-644-67 File I/O error.

**316-645-11** Failed write to system jobs file.

316-645-26 Failed write to system jobs file.

316-645-46 Failed to write to a file.

**316-645-47** Failed to write to a file.

316-645-66 File I/O error.

**316-645-67** File I/O error.

316-646-26 Failed to delete system jobs file.

316-647-19 Lynx OS not responding.

316-647-26 Diagnostic failure, O/S failure.

#### **Procedure**



**WARNING:** Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 4. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- 1. If a single occurrence, take no action.
- 2. For multiple occurrences, go to the 316E Network Fault Checkout RAP.

## 316-640-00 System Date Is Invalid For The Apache HTTPS Device Certificate RAP

The system date was reset by the system to default, or, the customer manually set the date older than the certificate's start date.

#### Procedure



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

 System date needs to be updated to current date. Refer to, GP 24 How to Set the Date and Time.

## 316-649-35 to 316-668-95 Network Faults 10 RAP

**316-649-35** Software error.

**316-650-35** Service making invalid attribute request.

**316-650-99** Service making invalid attribute request.

**316-651-19** IPC, OS, SESS or SC operation.

316-651-35 IPC and OS failure. SESS not responding.

316-651-99 IPC and OS failure. SESS not responding.

316-652-38 SPI enroll failed. Unable to enroll SPI callbacks.

316-652-98 SPI enroll failed. Unable to enroll SPI callbacks.

316-652-99 SPI enroll failed. Unable to enroll SPI callbacks.

316-653-38 When DM passes completed job logged an invalid job.

316-654-14 Log\_Init/Log\_Close Fault.

**316-654-38** DM returned from SPI register function because of error.

316-654-99 DM returned from log function because of error.

316-655-38 DM returned to SPI register function because of error.

316-656-38 RPC processing fault.

316-658-07 Unable to get host name. Configuration error.

316-659-11 Parser utility open failure.

316-659-28 Parser utility open failure.

316-659-93 Parser utility open failure.

316-659-95 Parser utility open failure.

**316-660-95** Cannot read local directory entries.

316-660-99 Service initialization failed.

316-661-95 Cannot create spool directory.

316-662-11 Parser utility template failed to parse.

**316-662-28** Parser utility template failed to parse.

316-662-93 Parser utility template failed to parse.

316-662-95 Parser utility template failed to parse.

**316-663-11** Parser utility template failed to parse.

316-663-28 Parser utility template failed to parse.

**316-663-93** Parser utility template failed to parse.

316-663-95 Parser utility template failed to parse.

316-664-11 Parser utility parser closing failed.

316-664-28 Parser utility parser closing failed.

316-664-93 Parser utility parser closing failed.

316-664-95 Parser utility parser closing failed.

316-665-95 Unable to detach from child thread.

316-666-11 Parser utility invocation failed.

316-666-28 Parser utility invocation failed.

316-666-93 Parser utility invocation failed.

316-666-95 Parser utility invocation failed.

316-667-11 Parser utility set status failed.

316-667-28 Parser utility set status failed.

316-667-95 Parser utility set status failed.

**316-668-47** Failed to write NVM.

316-668-93 Unable to determine local file statistics.

316-668-95 Unable to determine local file statistics.

#### **Procedure**



**WARNING:** Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 4. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- 1. If a single occurrence, take no action.
- 2. For multiple occurrences, go to the 316E Network Fault Checkout RAP.

## 316-650-68 Network Or Authentication Server Setup RAP

When accessing the network server an authentication error notification was issued from the server.

#### Procedure



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Advise the customer to have the system administrator confirm the server settings.

## 316-652-68 Configuration of Remote Server Incorrect RAP

The remote server cannot be accessed.

#### Procedure



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Advise the customer to have the system administrator test the communication between the remote server and the machine.

## 316-653-68 Smart Card Error RAP

The device has detected a smart card error.

#### Procedure



**WARNING:** Switch off the electricity to the machine, **GP** 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Advise the customer to have the system administrator confirm the configuration of the smart card authentication settings.

## 316-656-68 OCSP Error RAP

The device has detected an expired certificate, FIPS configuration incompatibility, or other configuration issue.

#### **Procedure**



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Advise the customer to have the system administrator validate the certificates on the domain controller.

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## 316-657-68 Non Compliant FIPS 140-2 Certificate RAP

The device has detected the security certificate is not FIPS 140-2 compliant.

#### **Procedure**



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Advise the customer to have the system administrator run the FIPS 140-2 configuration check.

## 316-658-68 Expired Certificate RAP

The device has detected the security certificate has expired.

#### Procedure



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Advise the customer to have the system administrator:

- Ensure that the time, date and the time zone are set correctly.
- Check that the security certificate is trusted and has not expired.

## 316-659-68 Certificate Key Length Error RAP

The length of the encryption key on the certificate does not meet the requirements set by the system administrator.

#### **Procedure**



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**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Advise the customer to raise the issue with the system administrator.

## 316-660-68 Card Locked Out RAP

The the user's authorization card is locked out of the device.

#### Procedure



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Advise the customer to raise the issue with the system administrator.

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## 316-662-68 Authentication Credentials Locked RAP

The user has exceeded the number of invalid login attempts and is locked out of the device.

#### Procedure



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Try logging in again after allowing the minimum time for the system to reset the lock.

**Note:** The number of invalid login attempts and the lock out time period (30 minutes default) may vary for each machine as both these features are adjustable and set by the system administrator. Advise the customer to raise the issue with the system administrator.

## 316-663-68 Authentication Server Clock Mismatch RAP

There is a mismatch between the time and date setting on the machine and the authentication time or date setting.

#### **Procedure**



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Advise the customer to raise the issue with the system administrator.

## 316-664-68 Invalid Authentication Server Certificate RAP

Authentication server certificate is invalid, expired, or revoked.

#### Procedure



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**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Advise the customer to raise the issue with the system administrator.

## 316-667-68 to 316-672-68 SMB Error RAP

316-667-68 SMB Error on local system

**316-668-68** SMB Error on remote system

316-669-68 Parameter error to SMB client

316-670-68 SMB internal system error

**316-671-68** SMB server error

316-672-68 SMB authentication error RAP

#### Procedure



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Verify usernames and passwords for access are correct.
- 2. Advise the customer to raise the issue with the system administrator.

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### 316-669-28 to 316-730-66 Network Faults 11 RAP

316-669-28 Unable to write job template to network controller disk.

316-669-93 Unable to write job template to network controller disk.

316-669-95 Unable to write job template to network controller disk.

316-670-00 Unable to lock/unlock data store.

**316-670-11** Unable to decode template file.

316-670-28 Unable to decode template file.

**316-670-47** Failed to save NVM.

316-670-93 Unable to decode template file.

**316-671-00** Sort jobs failed.

316-671-47 Failed to initialize NVM.

**316-671-93** Unable to encode template file.

**316-671-95** Unable to encode template file.

**316-672-09** Software error. File system corruption.

**316-672-95** Software error. File system corruption.

**316-673-95** Software error. File system corruption.

**316-674-00** RPC server not responding.

316-675-00 Database server not responding.

**316-700-00** In a list job request, an unknown attribute was requested.

**316-700-35** Unknown attribute requested passes into a function.

316-701-00 LOA failure. Unable to communicate with XSA database.

**316-701-68** Printing prohibited. Unable to communicate with postgres database.

316-701-99 LOA failure. Unable to communicate with XSA database.

316-701-110 Unable to communicate with XSA Database.

316-702-00 LOA failure. Unable to communicate with XSA database.

**316-702-95** LOA failure. Unable to communicate with XSA database.

316-707-00 Unknown queue request received.

316-709-00 Unknown modify request received.

**316-710-00** Service being communicated to is dead. System resource corrupted.

**316-710-35** Service trying to communicate to is dead. System resources corrupted.

**316-716-00** Data store not created. Corrupt environment variable.

**316-728-00** Range environment variable set to invalid numeric string.

**316-730-00** Unable to create client handle.

316-730-28 Unable to create client handle.

316-730-35 Unable to create client handle.

316-730-66 Unable to create client handle.

#### Procedure



**WARNING:** Ensure that the electricity to the machine is switched off while performing tasks that do not need electricity. Refer to GP 4. Disconnect the power cord. Electricity can cause death or injury. Moving parts can cause injury.

- 1. If a single occurrence, take no action.
- 2. For multiple occurrences, go to the 316E Network Fault Checkout RAP.

## 316-679-68 Device User Database Unavailable RAP

The user cannot access the user database of the machine.

#### Procedure



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**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Advise the customer to raise the issue with the system administrator.

## 316-697-68 to 316-702-68 Server Error RAP

316-697-68 Kerberos error RAP

316-698-68 LDAP Error RAP

316-699-68 Failed to open Azure IoT Hub Connection RAP

**316-700-68** gSOAP Server Error RAP

316-702-68 gSOAP Client Error RAP

#### Procedure

Advise the customer to raise the issue with the system administrator.

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# 316-718-00, 316-720-01 thru 04, 316-732-01 thru 07 Disk Partition Faults RAP

316-718-00 Data store threshold exceeded.

316-720-01 Disk partition root threshold exceeded.

316-720-02 Disk partition /OPT threshold exceeded.

316-720-03 Disk partition /TMP threshold exceeded.

316-720-04 Disk partition / PERSISTENT threshold exceeded.

316-722-01 Disk partition /VAR threshold exceeded.

316-732-01 Disk Partition /var/spool/nc/scan Threshold Exceeded.

316-732-02 Disk Partition /var/spool/nc/image\_store: "File Cabinet Service" Threshold Exceeded.

316-732-03 Disk Partition /var/spool/nc/image\_store: "Transfer service" Threshold Exceeded.

316-732-05 Disk Partition /var/spool/CIPS/image\_store Threshold Exceeded.

316-732-07 Disk Partition /var/fonts Threshold Exceeded.

#### Procedure



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. If a single occurrence take no action.
- 2. For multiple occurrences, perform Software Upgrade, GP 10.
- 3. Delete all files possible from memory.
- 4. If that isn't possible, delete the job with a new job termination reason that will list in both the completed job history and the audit log.
- 5. Perform GP 19, Obtaining Audit and Device Logs.
- 6. If the fault persists, contact 2nd Level Support with the required logs for review.

## 316-727-00 RPC Connections Approaching Limit RAP

316-727-00 RPC connections approaching limit RAP

Procedure



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Advise the customer to contact the system administrator.

# 316-732-01 to 316–732–03 Disk Partition Threshold Exceeded (threshold=See FS 26-003 System Partitioning spec) RAP

316-732-01 Disk Partition /var/spool/nc/scan Threshold Exceeded (threshold=See FS 26-003 System Partitioning spec) RAP

**316-732-02** Disk Partition /var/spool/nc/image\_store: "File Cabinet Service" Threshold Exceeded (threshold=See FS 26-003 System Partitioning spec) RAP

**316-732-03** Disk Partition /var/spool/nc/image\_store: "Transfer service" Threshold Exceeded (threshold=See FS 26-003 System Partitioning spec) RAP

#### Procedure



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Delete all files possible from memory.
- 2. If that isn't possible, delete the job with a new job termination reason that will list in both the completed job history and the audit log.
- 3. Perform GP 19, Obtaining Audit and Device Logs.
- 4. If the fault persists, contact 2nd Level Support with the required logs for review.

# 316-732-05, 316–732–07 Disk Partition Threshold Exceeded (threshold=See FS 26-003 System Partitioning spec) RAP

**316-732-05** Disk Partition /var/spool/CIPS/image\_store Threshold Exceeded (threshold=See FS 26-003 System Partitioning spec) RAP

316-732-07 Disk Partition /var/fonts Threshold Exceeded (threshold=See FS 26-003 System Partitioning spec) RAP

#### Procedure



**WARNING:** Switch off the electricity to the machine, **GP 10.** Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Switch OFF, then switch ON the machine, GP 10. If the fault persists, call 2nd level support.

### 316-742-19 Hard Disk ODIO Failure RAP

316-742-19 Hard disk ODIO failure.

#### Procedure



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Print a configuration report.
- 2. If the configuration report shows Image Overwrite as installed/disabled, perform the following:
  - a. Enter Customer Administration Tools, GP 2.
  - b. Select the **Tools** tab.
  - c. Select Security Settings.
  - d. Select Image Overwrite Security.
  - e. Enable the required feature.

## 316-747-00 Productivity Kit Error RAP

Paired Optional Hard Drive has errors (such as mount errors, corrupted partition, unrecognized partition).



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause the death or injury. Moving components can cause the injury.

Switch OFF, then switch ON the machine, GP 10. If the fault persists, call 2nd level support.

### 316-748-00 Remote Services Download Failed RAP

When Remote Services has detected content available for this device but is unable to complete a download.

#### Procedure



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**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Switch OFF, then switch ON the machine, GP 10. If the fault persists, call 2nd level support.

### 316-750-07 to 316-750-95 Network Faults 12 RAP

**316-750-07** Message received from DM not processed correctly.

**316-750-09** Service tried to register and service is already registered.

316-750-11 Template cache file is missing.

316-742-19 Hard disk ODIO failure.

**316-750-14** Too many messages sent to SESS system control.

316-750-19 Invalid request data from calling service.

**316-750-26** Invalid number of faults requested.

316-750-35 Data store failure.

**316-750-38** Initialization of SPI and job tracking table failed in SVC initialize service.

316-750-46 Client requested an unknown object or invalid object type.

316-750-47 Bad parameter returned.

316-750-66 Failure to set service state.

316-750-67 Failure to set service state.

316-750-90 Unexpected service sends this message.

316-750-92 Unable to open bit map captured to disk. Bad or full disk.

316-750-93 IFS error when requesting memory.

316-750-95 Local spool area does not exist.

#### Procedure



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. If a single occurrence, take no action.
- 2. For multiple occurrences, go to the 316E Network Fault Checkout RAP.

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## 316-751-00 to 316-753-95 Network Faults 13 RAP

316-751-00 Database error known by service registry or registry not available.

**316-751-07** Message received from network controller AAA not processed correctly.

**316-751-11** Initialization procedure fails.

**316-751-14** SC not responding.

316-751-19 Invalid permission to change date.

**316-751-26** Unrecognized code. Service raises code that the fault service doesn't know how to handle.

316-751-28 Templates attributes are invalid, or syntax error.

**316-751-35** Invalid queue ID.

316-751-38 Unknown attribute returned for completed job list.

316-751-46 Client requested an unknown object or invalid object type.

316-751-47 Failed to replace the current directory with directory from alt. partition.

316-751-66 Unable to send event to network controller ENS.

316-751-67 Unable to send event to network controller ENS.

316-751-92 Cannot set job to complete.

316-751-93 Invalid template attribute.

316-751-112 Database Error or Service Registry not available.

**316-752-00** File cabinet application registration error.

**316-752-07** Data store error.

316-752-09 Configuration control problem.

316-752-14 SC not responding. SC IPC queue does not exist.

316-752-19 RPC failure.

316-752-26 Unrecognized SESS error code.

316-752-28 Template cache file is missing.

**316-752-35** Invalid queue ID.

**316-752-46** Invalid row of table object.

316-752-47 Invalid test pattern source.

**316-752-66** Scan to fax services registration error.

316-752-67 Scan to fax services registration error.

**316-752-92** Configuration problem.

316-752-93 Error accessing jobs in job list.

316-752-95 File transfer failure.

316-753-00 File cabinet application un-registration error.

**316-753-09** Software bug.

316-753-14 Calling service used an invalid event number.

316-753-19 Invalid event information or data. ENS failure. System RPC information corrupt.

316-753-26 PSW failure. O/S failure. CCM failure.

**316-753-28** Cannot communicate with UI for template list request.

316-753-35 Unable to change EJS status to offline.

316-753-46 Invalid table row.

316-753-47 Failed to close a directory during verification check. Corrupt disk.

316-753-66 Data store read failure.

316-753-67 Data store read failure.

**316-753-90** Software error.

**316-753-92** Configuration problem.

316-753-93 Error adding jobs in job list.

316-753-95 Requested transfer protocol not supported.

#### Procedure



- 1. If a single occurrence, take no action.
- 2. For multiple occurrences, go to the 316E Network Fault Checkout RAP.

### 316-754-09 to 316-756-93 Network Faults 14 RAP

316-754-09 Still registered services after timeout.

**316-754-14** Receipt is not there. Failure on ENS side.

316-754-19 Shutdown request reason unknown.

316-754-26 Fault service encountered error reading fault log. File system corrupted.

316-754-28 Initialization procedure fails.

**316-754-35** OS corrupt.

**316-754-46** Attempted to write a read only object. Software configuration error.

316-754-47 Failed to replace a file that was missing with file from alt. partition.

316-754-66 OS problem.

316-754-67 OS problem.

316-754-68 Initialize procedure fails.

**316-754-90** Software bug.

**316-754-92** Data store failure.

316-754-93 Error deleting jobs from job list.

316-754-95 Unable to remove advisory lock on network server.

**316-755-00** Service registry cannot initialize database.

**316-755-09** Cannot register new service due to too many entries in SRV table.

316-755-14 Message buffer full. Full gueue.

**316-755-19** SESS system control broken or too many IPC messages.

316-755-26 Disk write error. Software error.

316-755-28 Cancel request failed.

316-755-35 OS corrupt. Software corrupt. Data store corrupt.

**316-755-46** Mismatched data type during object write. Software configuration error or request mishandled configuration index data.

316-755-47 Failed to repair the permission of the current file being checked.

**316-755-67** Cancel request failed.

316-755-90 Software limit reached.

316-755-92 Invalid IPC data received.

316-755-93 Unable to initialize with IFS.

316-755-99 Unable to abort job fault.

**316-755-112** Unable to initialize the service registry table.

316-756-09 Service not registered.

**316-756-14** Client provided wrong binding information. Client not required as RPC server.

316-756-26 Software error.

316-756-28 Range String Error.

316-756-35 OS corrupt. Software error. NVM error.

316-756-46 Poll select failed.

316-756-47 Executable missing or corrupt. Invalid test parameters.

316-756-67 Unable to read NVM value.

316-756-92 Invalid IPC Data Received.

316-756-93 IPA operation failed.

#### Procedure



- 1. If a single occurrence, take no action.
- 2. For multiple occurrences, go to the 316E Network Fault Checkout RAP.

### 316-757-09 to 316-760-99 Network Faults 15 RAP

316-757-09 System RPC corrupt.

**316-757-14** Programming bug. Attempted to shorten timeout.

316-757-19 System manager died or communications link failed.

316-757-26 Software error. Bad disk.

316-757-28 Unknown Message Received.

316-757-35 OS corrupt. Software error. NVM corrupt.

316-757-46 O/S failure.

**316-757-47** Failed while trying to replace the file with a file from alt. partition. Configuration error.

**316-757-66** Unable to write NVM.

**316-757-67** Unable to write NVM.

316-757-92 Invalid IPC Data Received.

316-757-93 Unable to set ICS document state.

316-758-09 Invalid service failure reported.

316-758-14 RPC communications error to client.

316-758-19 Unable to unregister registration service.

316-758-26 Fault service encountered error trying to access its own queue ID.

316-758-28 State Error

**316-758-35** Unable to change EJS state to offline.

**316-758-46** Failed setting up monitor routine with registration service.

**316-758-47** Error searching for job ID during print job submission. Print submission tool failed.

316-758-66 Service run loop failed.

316-758-67 Service loop failed.

**316-758-93** Unable to obtain data store object handle.

316-759-14 Request for wildcard from non-NC

**316-759-19** Network controller failed cold reset 3 times in a row.

**316-759-26** Service requesting information of fault service. Software error.

316-759-28 SC Init Fault.

**316-759-46** Process no in correct state, O/S failure.

316-759-47 Failed to abort the requested process.

316-759-66 OA event register failed.

316-759-67 OA event register failed.

316-759-93 Unable to create.dat file.

316-760-14 Software error. Calling service not registered.

316-760-19 Any network controller startup.

316-760-26 Software failure.

316-760-28 Unable to Ack SC.

316-760-46 Software failure.

**316-760-47** Found incorrect checksum partition 1 during software verify check. Bad disk and bad software.

**316-760-67** Create list failed.

316-760-68 SRS returns to login service. Invalid fields, invalid data or missing data.

**316-760-93** Job report failure from CCM.

**316-760-99** RPC failure. CCM not responding.

#### Procedure



- 1. If a single occurrence, take no action.
- 2. For multiple occurrences, go to the 316E Network Fault Checkout RAP.

### 316-761-14 to 316-765-93 Network Faults 16 RAP

316-761-14 Invalid RPC data.

**316-761-19** Any network controller shut down.

316-761-26 Unable to become client of UI.

316-761-28 Unable to submit a job.

316-761-46 Hardware failure.

316-761-47 Failed to initialize. Files needed for software verify.

316-761-67 Failed to retrieve public list.

**316-761-68** Login gets no response from SRS.

316-761-93 Image conversion to TIFF failed.

316-761-95 Unable to read template pool configuration information.

**316-762-09** Netware process failed. Software error. Check fault log for more specific reasons.

**316-762-14** Invalid internal table type.

**316-762-19** DC platform mgr communication error.

**316-762-26** Unable to become client of SCS diagnostic service.

316-762-46 Hardware failure.

**316-762-47** Missing file found during software verify check. Disk access problem. Configuration problem.

**316-762-67** Invalid index for recipient list.

316-762-68 Service registry bad data corrupted.

316-762-93 IFS Image done call failed.

316-762-95 Unable to read document repository configuration information.

316-763-14 Reached internal limit for events.

**316-763-19** System manager died, its platform crashed or RPC comm corrupt.

316-763-26 No acknowledgment to RPC message. RPC timeout.

316-763-46 Hardware failure.

**316-763-47** Invalid permission found during software verify check.

316-763-67 Failed to retrieve LDAP list.

316-763-93 Document image count not found.

316-763-95 Internal destination error.

316-764-09 Apple talk process failure. Software error. Check fault log for more specific reasons.

316-764-14 Internal logic error.

316-764-19 System call to signal failed.

316-764-26 Fault Service Encountered Error Trying to get IPC Message.

316-764-46 Hardware failure.

316-764-47 Found incorrect checksum during software verify check. Bad disk and bad software.

316-764-67 Create list failed.

**316-765-09** Software error. Check fault log for more specific reasons.

316-765-19 Set status failed.

316-765-26 Fault Service Call to PSW Callback failed.

316-765-46 Software failure.

316-765-47 Novell daemon not running.

316-765-67 Failed to retrieve recipient list.

316-765-93 Unable to access data store.

#### Procedure



- 1. If a single occurrence, take no action.
- 2. For multiple occurrences, go to the 316E Network Fault Checkout RAP.

## 316-766-09 to 316-772-95 Network Faults 17 RAP

**316-766-09** Adobe process failure. Check faults log for more specific reasons.

**316-766-19** DM admin error.

316-766-26 Fault Service Call to UI Callback failed.

**316-766-46** Software failure.

316-766-47 No servers responded.

316-766-67 Failed to bind to LDAP server.

316-766-93 TIFF handle has become null.

316-766-95 Cannot create image file name.

**316-767-19** Request to cancel spooling job error. Job map library unable to cancel job.

316-767-26 Fault Service Call to RDT Callback failed.

316-767-46 Software failure.

**316-767-47** Server name in configuration list is not up.

316-767-67 Error performing LDAP search.

316-767-93 Get document image count failed.

**316-767-95** Cannot determine filing policy for transfer.

316-768-19 Job map library unable to hold or release jobs.

316-768-46 Software failure

316-768-47 Network controller not attached to server.

**316-768-67** Error performing public search.

**316-768-93** Increment image count failed.

**316-768-95** Cannot get network advisory lock file name.

316-769-19 Novell network failed to respond to request.

316-769-46 Software failure.

316-769-47 Network controller not attached to the print queue.

**316-769-67** Failed to cancel search request.

316-769-93 IFS de-register call failed.

316-769-95 Cannot determine appropriate lock name and address.

**316-770-19** SESS/DM job command not processed.

316-770-46 Software failure.

316-770-47 Network controller attached to both gueue and server.

316-770-67 Required attribute missing.

316-771-19 UI/PSW/RDT/ RPC corrupt.

316-771-46 Software failure.

316-771-47 Failed to configure novell network.

**316-772-19** Software error.

316-772-46 TCPIP address already being used.

316-772-47 Failed doing registration or RPC call.

316-772-95 Invalid transfer request.

#### **Procedure**



- 1. If a single occurrence, take no action.
- 2. For multiple occurrences, go to the 316E Network Fault Checkout RAP.

### 316-773-19 to 316-779-95 Network Faults 18 RAP

316-773-19 Software error.

316-773-46 Failed requesting platform reset.

**316-774-19** Client provided wrong binding info. Client not registered as RPC server. System RPC info is corrupt.

316-774-46 BOOTP status file error

316-775-19 Data store not configured. Software error.

316-775-46 TCPIP missing configuration data.

316-775-95 Cannot create temporary file name.

**316-776-19** Software error.

316-776-46 TCPIP invalid interface.

**316-776-95** Cannot clean up after job completion.

316-777-19 Software error. Data store corrupt, missing configuration.

316-777-46 TCPIP invalid addressing.

316-777-95 Cannot log requested network server.

**316-778-19** Software error.

316-778-46 TCPIP socket failure.

316-778-95 Cannot generate confirmation sheet.

**316-779-00** System manager power saver complete callback failed. System manager failed or communications link failed.

316-779-19 System manager callback SM power save completed failed.

316-779-46 TCPIP interface attach.

316-779-47 SESS diagnostic failure.

**316-779-95** Cannot create the template/job log name.

#### Procedure



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- If a single occurrence, take no action.
- 2. For multiple occurrences, go to the 316E Network Fault Checkout RAP.

### 316-780-00 to 316-789-47 Network Faults 19 RAP

316-780-00 Power save request timeout.

316-780-19 Power saver request timeout.

316-780-46 TCPIP enable interface.

316-780-47 SESS diagnostic failure.

**316-780-95** Cannot determine the remote directory.

316-781-19 Customer software upgrade file is corrupted on transfer.

316-781-46 TCPIP NVRAM failure.

316-781-47 SESS diagnostic failure.

**316-782-09** Network controller configuration synchronization process failure. Software error. check fault log for more specific reasons.

316-782-19 Software upgrade manifest file does not match software upgrade files.

316-782-46 TCPIP gateway failure.

316-782-47 SESS diagnostic failure.

316-783-09 Software error. IPC failure. SC not processing IPC.

**316-783-19** Network controller does not enter upgrade mode. Network controller does not respond to upgrade prep command.

316-783-46 TCPIP host file failure.

316-783-47 SESS diagnostic failure.

316-784-09 Software error. Registration service out of date.

**316-784-19** Software upgrade aborted, IOT failed to enter upgrade mode. IOT does not respond to upgrade prep command.

316-784-46 TCPIP resolve file failure.

316-784-47 SESS diagnostic failure.

**316-785-09** Network controller agent process failure. Software error. Check fault log for more specific reasons.

**316-785-19** UI does not respond to upgrade prep command.

316-785-46 TCPIP resolve file failure.

316-785-47 SESS diagnostic failure.

316-786-09 Software error. Check alt log for more specific reasons.

316-786-19 Network controller ntar of upgrade file fails.

316-786-46 TCPIP ELT file failure.

316-786-47 SESS diagnostic failure.

316-787-19 Network controller times out. Cannot communicate with IOT.

316-787-46 TCPIP IPC failure.

316-787-47 SESS diagnostic failure.

316-788-19 Option load failure software.

316-788-46 Failed performing dynamic DNS update.

316-788-47 SESS diagnostic failure.

316-789-19 Option load failure software.

316-789-46 Failed performing autonet IP process.

316-789-47 SESS diagnostic failure.

#### Procedure



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. If a single occurrence, take no action.
- 2. For multiple occurrences, go to the 316E Network Fault Checkout RAP.

## 316-816-09 EIP Service Not Responding RAP

The EIP service failed to respond to the machine's request.

#### Procedure



- 1. If a single occurrence, take no action.
- 2. For multiple occurrences, go to the 316E Network Fault Checkout RAP.

# 316-972-08, 316-972-09, 316-972-15 Software Upgrade Failure RAP

316-972-08 Boot manager software verification failure.

316-972-09 SWUP signature verification failure.

316-972-15 DLM signature failure.

#### Procedure



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



**CAUTION:** Software downgrades cannot be performed by a customer. When using the FORCED\_ALTBOOT method, follow the procedure in GP 4, Software Upgrade. Inform the customer that customer data will not be retained using the FORCED\_ALTBOOT method for downgrading machine software.

- 1. Ensure the correct DLM file for the device is used.
- 2. If the fault persists, perform a Software Upgrade, GP 4, using the FORCED\_ALTBOOT method.

## 316-990-19 Lockdown Security Remediation Failed RAP

At least one of the Lockdown security settings is not compliant.

#### Procedure

Advise the customer to request the system administrator check the customer Lockdown and Remediate Security feature.

# 316–991–19 and 316-992-19 Configuration Watchdog Feature RAP

316-991-19 Xerox Configuration Watchdog Remediation Failed.

**316-992-19** A security related item being monitored by the Xerox Configuration Watchdog feature has changed.

#### Procedure

No service action is required. Advise the customer to notify the system administrator to check the settings of the configuration watchdog feature.

### 316E Network Fault Checkout RAP

#### **Initial Actions**

Switch off, then switch on the machine, GP 10.

#### Procedure

Refer to the Active Messages and Fault History to determine under what situation the fault is occurring.

The fault is related to a specific job, client or Page Description Language (PDL).

N

Reload the software, GP 4.

The fault persists.

′ N

Perform SCP 5 Final Actions.

Install new components as necessary:

- Optional 500+GB Hard Disk, if installed, PL 25.05 item 2.
- Controller PWB PL 3.05.

If the fault persists, perform the OF1 Machine Not Ready RAP.

The fault occurs on one particular job from one particular client.

1

The fault occurs on all jobs sent from one client.

1

The fault occurs with one job from any client.

N

Install new components as necessary:

- Optional 500+GB Hard Disk, if installed, PL 25.05 item 2.
- Controller PWB PL 3.05.

If the fault persists, perform the OF1 Machine Not Ready RAP.

Another VersaLink® machine is available.

N

Escalate the service call.

Perform the job causing the fault on another VersaLink® machine

The fault is repeatable on both machines.

/

Reload the software, GP 4, on the faulty machine. If the fault persists, escalate the service call.

Contact next level support, then explain that a Software Problem Action Report (SPAR) needs to be generated.

Ask the System Administrator to:

- Check the network configuration on the client (compare to a working client).
- · Ensure that the client has the required resources.
- Reload the print driver on the client.

If the fault persists, ask the customer to contact the customer support centre.

Ask the customer to reload the print driver on the affected workstation.

### 319-300-00 and 319-301-00 Hard Disk Read/Write Error RAP

**319-300-00** Unable to read or write data from the Image Disk

319-301-00 Unable to write data to the Image Disk RAP

#### Procedure



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Switch OFF, then switch ON the machine, GP 10.

#### The fault persists.

/ N

- Perform, SCP 5 Final Actions, then log the problem in the Logbook.
- Perform Software Upgrade, GP 4, using the Altboot method.
- If installed, verify the harness between the optional 500Gb+ hard disk, PL 25.05 item 2, and the controller PWB PL 3.05 item 1, is fully seated and has no damage. Repair any damage to the harness as required.
- If the fault persists, install new components as required:
  - 1. Optional 500Gb+ hard disk, PL 25.05 item 2
  - 2. Controller PWB, PL 3.05 item 1.

## 319-340-00 SIC Crash RAP

Scan Image Controller (SIC) detects that it has recovered from a crash.

Procedure



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Switch OFF, then switch ON the machine, GP 10. If the fault persists, call 2nd level support.

## 319-401-00 Out Of Memory RAP

Out of memory caused by a stress document

- 1. Switch OFF, then switch ON the machine, GP 10.
- 2. It the fault persists, perform a software upgrade, GP 4, using the Altboot method.

# 319-409-01, 319-409-02, 319-409-03, 319-409-04 Video Errors RAP

**319-409-01** Video determines that it cannot guarantee the integrity of the job being processed due to an Overflow condition.

**319-409-02** Video determines that it cannot guarantee the integrity of the job being processed due to an underflow condition.

**319-409-03** Video determines that it cannot guarantee the integrity of the job being processed due to a No Block List error.

**319-409-04** Video determines that it cannot guarantee the integrity of the job being processed due to End of Block List error.

Switch OFF, then switch ON the machine, GP 10, then rerun the job causing the fault.

## 319-410-00 to 319-410-18 Imaging Errors RAP

319-410-00 Mark Output Timeout.

319-410-01 Mark Output Timeout.

**319-410-02** Compress Image timeout.

319-410-03 Decompress Image timeout.

319-410-04 Merge Image timeout.

319-410-05 Rotate Image timeout.

319-410-06 Network Input Failure.

319-410-07 E-Fax Send/Receive Failure.

319-410-08 Scan Input Failure.

**319-410-09** Byte Count Error.

**319-410-10** Set Up Too Late.

319-410-11 DMA Master Abort.

319-410-12 Huffman Error.

319-410-13 EOR ERROR.

319-410-14 Scan Output Timeout.

319-410-15 Image Path Response Error from CIPS.

319-410-17 Insufficient Memory for video operation.

319-410-18 Video Fatal error from CIPS.

Switch OFF, then switch ON the machine GP 10. Rerun the job causing the fault.

# 319-411-01 to 319-411-08 and 319-412-01 Scan Image Faults RAP

319-411-01 Scan Image Capture DMA Setup Too Late RAP

319-411-02 Scan Image Capture IIT Setup Too Early RAP

319-411-03 Scan Image Capture DMA Overflow RAP

319-411-04 Scan Image Capture DMA Incomplete RAP

**319-411-05** Scan Image Capture DMA Timeout RAP

319-411-06 Scan Image Capture Planar Data Missing RAP

319-411-07 Scan Image Capture DMA Failure due to Master Abort RAP

319-411-08 Scan Image Capture Setup Failure RAP

319-412-01 Scan Image Capture IIT Line Sync Integrity Error RAP

Switch OFF, then switch ON the machine, GP 10. Rerun the job causing the fault.

## 319-420-00 to 319-426-00 Image Processing Errors RAP

319-420-00 Image Processing Error (at Power UP).

319-422-00 Image Processing Error (at Standby).

319-424-00 Image Processing Error (with Job).

319-426-00 Image Processing Error (during print).

- 1. Switch OFF, then switch ON the machine, GP 10. Rerun the job causing the fault.
- 2. If the fault persists, upgrade the software, GP 4, using the Altboot method.

## 319-750-00 to 319-754-00 Power On Sequence Faults RAP

**319-750-00** When the System detects that the EPC Memory Size configuration has changed during the Power On Sequence.

**319-752-00** When the System detects that the Image Rotation Configuration has changed during Power On Sequence.

**319-754-00** When the System detects that the Image Disk Configuration (Present vs Not Present) has changed during the Power On Sequence.

Switch OFF, then switch ON the machine, GP 10. Rerun the job causing the fault.

## 319-760-00 Test Patterns Missing From EPC RAP

When test patterns are missing from EPC a 319-760–00 fault should be declared.

- 1. Switch OFF, then switch ON the machine,GP 10. Rerun the job causing the fault.
- 2. Contact next level support, then raise status 09–582.

# 319-761-00, 319-762-00 Generic Engine Fault RAP

319-761-00 Generic Scan Engine Fault.

319-762-00 Generic Print Engine Fault.

No user intervention required.

## 319–200–00 Node Tree Settings Corrupted/Invalid RAP

The configuration settings in the node tree is invalid/corrupted.

No intervention required. The node tree settings will be recovered after auto reboot of the machine.

# 320-200-00, 320-302-00 to 320-345-00, 320-713-00 Fax Errors RAP

320-200-00 Fault for Fax Engine Crash.

320-302-00 Fax Card Hardware or Software Error.

320-303-00 Fax Card Hardware or Software Error.

320-305-00 Fax Card Hardware or Software Error.

**320-320-00** 5 instances of an unrecoverable fax fault and has not been cleared by a card reset.

320-322-00 NV device not fitted to basic fax card.

320-323-00 Fax system memory is low.

320-331-00 No comms via PSTN1 port.

**320-338-00** Fax communication error at power up or re-boot.

320-339-00 Internal fax card fault.

320-341-00 Miscellaneous Basic Card problems.

**320-342-00** Error accessing file on a NV device.

320-345-00 FaxPort1ModemFailure.

320-713-00 Fax Job Data Removal Error.

#### **Initial Actions**

Print a Configuration Sheet.

Perform, OF12, Modem/Fax PWB Service RAP.

# 320-710-00 and 320-711-00 Fax Image Overwrite Error RAP

**320-710-00** IIO Error has occurred on the fax card when overwriting the job

320-711-00 ODIO Error has occurred on the fax card when overwriting the compact flash memory

#### **Initial Actions**

Print a Configuration Sheet and a Software Failure Report. Refer to, GP 14 Printing Reports.



- 1. Ensure the FAX is enabled.
- 2. Perform, GP 4 Software Upgrade, using the FORCED\_ALTBOOT method.
- 3. Perform, OF12 Modem/Fax PWB Service RAP, to verify the Fax settings are correct.
- 4. If the fault persists, install a new fax PWB PL 20.05 item 1.

## 322-300-05 Image Complete Not Received from Video RAP

A complete image was not received from the scanner.

#### **Initial Actions**

Print a Configuration Report for later comparison of software version and machine configurations.



**CAUTION:** Inform the customer that all customer configuration settings will be lost if the DISABLE\_DATA\_BACKUP flag is required during software upgrade. Perform an NVM Save and Restore, dC361, saving all platforms to USB for potential restore at the end of this procedure.



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Check the job log in the UI, delete the job causing the fault.
- 2. Switch OFF, then switch ON the machine, GP 10.
- 3. Check the job log in the UI, make sure the job is not there. Delete the job again if the job exists.
- 4. Upgrade the software, GP 4, using the FORCED\_ALTBOOT method with the DISABLE\_DATA\_BACKUP flag.



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**CAUTION:** The DISABLE\_DATA\_BACKUP intentionally prevents backup of the data on the machine. There is nothing for the Revert to previous settings operation to restore. A Forced Altboot enables the Revert to previous settings feature to display. This feature restores machine-specific information, IF, the DISABLE\_DATA\_BACKUP flag is used, all machine-specific information will be lost.

- 5. If the fault persists, install new components in order as required:
  - a. Controller PWB. PL 3.05 item 1.
  - b. Flatbed scanner, PL 60.10 item 1.

## 322-300-10, 322-301-05 Image Transfer Errors RAP

322-300-10 DVMA Transfer Fault.

322-301-05 Scan resource Fault.

#### **Initial Actions**

Rerun job after the machine recovers.

Check the Service Log for the frequency of occurrence of this fault.

Check dC122 Fault History for the frequency of occurrence of this fault.



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Switch OFF, then switch ON the machine, GP 10. Rerun the job.

Record the fault in the Logbook.

If the fault persists, install new items in order as required:

- 1. Controller PWB, PL 3.05 item 1.
- 2. Flatbed scanner, PL 60.10 item 1.

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## 322-300-16 Clock Overflow Fault RAP

The machine determines that it needs to do a reset in order to avoid an impending real time clock overflow

No action required. The machine will reset on it's own to ovoid an overflow condition.

## 322-309-04 NO Accepts Received Fault RAP

Consecutive NO accepts received from a module exceeds threshold value (currently 20).

Five consecutive 322-309-04 will cause 322-319-04.

#### Procedure

Switch OFF, then switch ON the machine, GP 10.

If the fault persists, go to the 322-319-04 IOT Integrity Problem While Printing a Job RAP.

## 322-310-04 to 322-318-04 Paper Supply Errors RAP

322-310-04 Pages received from extended job service out of sequence.

**322-311-04** Sequencer failed to respond with proposal within the required time.

322-314-04 Module registration error.

**322-315-04** One or more modules failed to respond with a completion message.

322-316-04 Job required paper tray that does not exist.

**322-317-04** Job required finishing capability that does not exist.

322-318-04 Job required an IOT capability that does not exist.

#### Procedure



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Verify the UI control panel tray settings and the tray configuration are correct for the job requested.
- 2. Switch OFF, then switch ON the machine, GP 10.
- 3. Delete the original job, then rerun the job causing the fault.

## 322-311-04 Sequencer Response Fault RAP

Sequencer did not respond with proposal within the required time

#### **Initial Actions**

Check the Service Log for the frequency of occurrence of this fault.

Check dC122 Fault History for the frequency of occurrence of this fault.

#### **Procedure**



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Switch OFF, then switch ON the machineGP 10.

The fault persists.

N

Return to SCP 3.

**Note:** Record the fault in the Logbook. If the same fault recurs frequently, perform the actions listed in the Y branch of this RAP.

Perform the following in order:

- 1. Perform Software Upgrade, GP 4.
- 2. Install a new drive PWB, PL 1.05 item 2
- 3. Install a new controller PWB,PL 3.05 item 1

## 322-314-04, 322-315-05 Module Errors RAP

**322-314-04** Module Registration Error.

322-315-04 Module Completion Fault.

#### **Initial Actions**

Check the Service Log for the frequency of occurrence of this fault.

Check dC122 Fault History for the frequency of occurrence of this fault

- 1. delete the job causing the fault.
- 2. Switch OFF, then switch ON the machine, GP 10.
- 3. Rerun the job causing the fault.

## 322-316-04, 322-317-04, 322-318-04 Job Faults RAP

322-316-04 Job Paper Tray Fault.

322-317-04 Job Finishing Fault.

322-318-04 Job IOT Fault.

#### **Initial Actions**

Verify the settings in the UI and the paper in the trays match the job requested.

Check the Service Log for the frequency of occurrence of this fault.

Check dC122 Fault History, for the frequency of occurrence of this fault

- 1. Switch OFF, then switch ON the machine, GP 10.
- 2. Enter job in the Job Log as terminated.
- 3. Mark Service broadcasts an event identifying the Job ID and the reason for the time out.

**Note:** If the deleted job is a Copy job, the UI uses the event information to inform the user.

## 322-319-04 IOT Integrity Problem While Printing a Job RAP

This fault can result in two ways:

- 1. IOT Cycles down and back up 10 times without printing a page within the same job causing a 322-319-04.
- 2. 5 consecutive 322-309-04 will also cause a 322-319-04. Please refer to fault code 322-309-04 for more information.

#### Procedure

- 1. Switch OFF, then switch ON the machine GP 10.
- 2. If the fault persists, check fault history for 322-309-04. Perform RAP 322-309-04 to resolve the fault.

**Note:** If the deleted job is a Copy job, the UI uses the event information to inform the user that the job has been deleted and needs to be rescanned.

If the deleted job is a Print Job, the ESS uses the information to delete the job.

# 322-320-00 to 322-325-00, 322-335-00 to 322-340-00 Software Install Failed RAP

322-320-00 SM Failed to install scan to file.

322-321-00 SM Failed to remove Scan to file.

322-322-00 SM Failed to install LAN FAX.

322-323-00 SM Failed to remove LAN FAX.

322-324-00 SM Failed to install Scan to Email.

322-325-00 SM Failed to remove Scan to Email.

322-326-00 SM Failed to install IFAX.

322-327-00 SM Failed to remove IFAX.

322-335-00 SM Failed to install Job Based Accounting.

322-336-00 SM Failed to remove Job Based Accounting.

322-337-00 SM Failed to install disk overwrite.

322-338-00 SM Failed to remove Disk Overwrite.

322-339-00 SM Failed to install Job Overwrite.

322-340-00 SM Failed to remove Job Overwrite.

#### Initial Actions

Check the Service Log for the frequency of occurrence of this fault.

Check dC122 Fault History for the frequency of occurrence of this fault.



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Switch OFF, then switch ON the machine, GP 10.

- 1. Perform, Software Upgrade GP 4, using the FORCED\_ALTBOOT method.
- 2. Install a new controller PWB, PL 3.05.

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# 322-328-00 Incomplete System Information RAP

Incomplete System Information. Accounting Service Data is corrupt. User must POPO to clear.

#### Procedure

Switch OFF, then switch ON the machine, GP 10.

# 332-330-00 and 322-332-00 PagePack and Supplies Plan Errors RAP

322-330-00 PagePack PIN (Supplies Plan Activation Code) Entry Locked RAP

322-332-00 Invalid Plan Conversion RAP

Plan conversion invalid due to repeated incorrect entry attempts.

#### **Initial Actions**

Ensure that this fault code did not occur during an attempt to perform plan conversion. Refer to, GP 26 PagePack Plan Activation.

Check the Service Log for the frequency of occurrence of this fault.

Check dC122 Fault History for the frequency of occurrence of this fault

- 1. Fault code 322–330–00: perform, GP 26 PagePack Plan Activation.
- 2. Fault code 322–332–00: perform, GP 37 Supplies Plan Conversion.

If the fault persists, contact next level support.

### 322–350–02 Software Detects non-Valid Xerox SOK 2 or 3 RAP

Software detects non-valid Xerox SOK 2 or 3.

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- 1. Switch OFF, then switch ON the machine, GP 10.
- 2. If the fault persists, contact next level support.

## 322-352-00 Serial Number Missing From Memory RAP

Serial Number Update Required or Serial number lost/missing. A password routine may be required to write serial number to machine.

#### Initial Actions

- 1. Confirm that the machine serial number displayed on the UI and on the label on machine frame match. If they do not match notify the FE/NTS.
  - a. Select, Machine Status >, Machine Information Screen.
  - b. Print a Configuration Sheet, GP 14 Printing Reports, if the UI is unavailable.

Check all P/J connectors for loose or unseated connectors on the following PWBs.

- 1. Drive PWB. PL 1.05 item 2.
- 2. Controller PWB. PL 3.05 item 1.
- 3. Check the Fault History, dC122, for communications faults. These can prevent serial number synchronization and must be addressed before proceeding.
- 4. Enter Diagnostics, GP 1, then touch [Clear Counters]. [Exit and Reboot] at Diagnostics Exit.
- 5. If the fault persists, order new PWBs as per listed below before troubleshooting the fault.
- Drive PWB, PL 1.05 item 2.
- Controller PWB. PL 3.05 item 1.



WARNING: Do not swap PWBs between machines.



**WARNING:** Do not remove the batteries from any PWBs while making voltage checks in this RAP.



**CAUTION:** The serial number is stored and synchronized between the controller PWB, drive PWB, and black toner cartridge. Always install these items individually. After installation of one of these items, switch on the machine, GP 1, to allow the serial number to synchronize before proceeding to install the next part. Refer to dC132 Machine Serial Number.



**CAUTION:** Never install a new drive PWB, new controller PWB, or black toner cartridge at the same time. First install one of the parts, then switch on the machine, GP 10, to allow the components to sync. If the installation is successful, switch off the machine, then install another part item, if necessary.



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause the death or injury. Moving components can cause the injury.

Switch OFF, then switch ON the machine, GP 10. If the fault persists, wait 5 minutes, then perform GP 10 again.

#### Procedure

Match the serial numbers on the UI. Select, [Machine Status > Machine Information], and the serial number on the plate inside the front cover and the Configuration Report printed at the beginning of this RAP.

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**WARNING:** Do not remove the black (K) toner cartridge or the imaging unit from the machine unless instructed to do so. Removing may cause the serial number syncronization to fail. The black (K) CRUM holds serial number information and is synced with the drive PWB and controller PWB.

#### The serial numbers match.

N

- 1. Switch OFF the machine, GP 10, then disconnect the power cord for the source.
- 2. Contact next level support, then go to GP 35 Serial Number Synchronization Procedure.

#### A new drive PWB and controller PWB were installed at the same time.

N

Install the original controller PWB back into the machine, then perform, GP 10.

The fault persists.

N

- Check the Fault History, dC122. If no other fault codes exist perform, SCP 5 Final Actions.
- 2. If more faults are listed, perform the corresponding RAP to clear the fault.

Reseat all connectors between the controller PWB, PL 3.05 item 1 and the drive PWB, PL 1.05 item 2.

#### The fault persists.

/ N

Perform, SCP 5 Final Actions.

Perform, dC132 to restore serial number integrity.

#### The fault persists.

- 1. Check the Fault History, dC122. If no other fault codes exist perform, SCP 5 Final Actions.
- 2. If more faults are listed, perform the corresponding RAP to clear the fault.
- 1. Enter Diagnostics, GP 1, then perform dC122. If other fault codes are present, go to the specific fault code RAP.
- 2. Switch off the machine, GP 10.
- 3. Install the original drive PWB back into the machine.
- 4. Perform, dC132 to restore serial number integrity.
- 5. Perform Software Upgrade, GP 4. If the fault persists, contact next level support for assistance.
- 6. Check the fault log for fault code 322–365–00. If the fault is listed, perform RAP, 322-365-00 Engine Serial Number Needs Recovery RAP.
- 7. Perform, SCP 5. Final Actions.

# 322-360-00 to 322-363-00 3-way Sync (Service Plan) Faults RAP

322-360-00 Service Plan Mismatch

Three way sync of Service Plan could not be resolved or is associated with incorrect Region.

322-361-00 Product ID Mismatch RAP

Three way sync of ProductID could not be resolved

322-362-00 Product Class Mismatch RAP

Three way sync of Product Class could not be resolved

322-363-00 Billing Counter Mismatch RAP

Three way sync of Billing Counters could not be resolved

#### **Primary Causes**

Typically these faults are caused by the installation of a new controller PWB, new drive PWB, black (K) toner cartridge, or a combination of these installed in the same task.

- 1. Perform, GP 35, Serial Number Synchronization Procedure.
- 2. If the fault persists, contact next level support.

### 322-364-00 Critical Parameters Restored from Mirror RAP

Three way sync determined that the primary NVM storage has been replaced or corrupted. Perform, GP 35 Serial Number Synchronization Procedure.

99

## 322-365-00 Engine Serial Number Needs Recovery RAP

Three way sync determined that the engine Critical Parameter File is lost or corrupted.

#### **Initial Actions**

- 1. If possible, perform, dC361 NVM Save and Restore, to save all machine data files to hard drive.
- 2. Immediately, backup all machine data files to USB for safe keeping if the machine data backed up to hard drive is unavailable during the following procedure.

#### Procedure

#### 322-352-00 is present.

Perform, dC361 NVM Save and Restore, to restore machine print engine data.

**Note:** If a backup to USB was performed at the beginning of service, this should be used to restore machine data. If this is not available, save machine NVM to hard drive, then pick the engine settings file and restore to machine.

**Note:** If the 322-365-00 fault persists, then contact next level support to obtain a Manufacturing Recovery File to be attempted. If the fault continues to persists escalate to next level support for further instruction.

Check for other engine faults; these should be corrected before attempting GP 35.

#### Other engine faults exist.

1 1

Perform, GP 35 Serial Number Synchronization Procedure, then restart the machine.

#### 322-365-00 fault persists.

Υ

Perform, SCP 5 Final Actions.

Perform, dC361 NVM Save and Restore, to restore machine data.

**Note:** If a backup to USB was performed at the beginning of service, this should be used to restore machine data. If this is not available, save machine NVM to hard drive, then pick the engine settings file and restore to machine.

**Note:** If the 322-365-00 fault persists, then contact next level support to obtain a Manufacturing Recovery File to be attempted. If the fault continues to persists escalate to next level support for further instruction.

Clear all other faults, perform, GP 35 Serial Number Synchronization Procedure, then restart the machine.

#### 322-365-00 fault persists.

/ N

Perform, SCP 5 Final Actions.

Contact next level support.

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## 322-370-00 Unable To Communicate With XSA Database RAP

XSA communication lost, SW issue internal to the device.

- 1. Switch OFF, then switch ON the machine, GP 10.
- $2. \quad \text{Upgrade the software, GP 4, using the Forced Altboot method and FORCED\_UPGRADE tag. } \\$

# 322-371-00, 322-407-00, 322-417-00, 322-419-00, 322-421-00 Embedded Fax Errors RAP

322-371-00 Fax Application Registration Error RAP

322-407-00 SM Failed To Install Embedded Fax RAP

322-417-00 SM Failed To Removal Embedded Fax RAP

322-419-00 SM Failed To Enable Embedded Fax RAP

322-421-00 SM Failed To Disable Embedded Fax RAP

Set by Fax Service when it gets no response from Service Registry when trying to Register.

#### **Initial Actions**

- If the Fax Card is installed, go to OF12.
- Check the Service Log for the frequency of occurrence of this fault.
- Check dC122 Fault History for the frequency of occurrence of this fault.

#### Procedure



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause the death or injury. Moving components can cause the injury.

Switch OFF, then switch ON the machineGP 10.

The fault code reappears.

N

Return to SCP 3.

**Note:** Record the fault in the Logbook. If the same fault recurs frequently, perform the actions listed in the Y branch of this RAP.

Perform the following in order:

- 1. Upgrade SW using GP 4.
- 2. Install a new Fax PWB, PL 20.05 item 1.
- 3. Install a new controller PWB,PL 3.05 item 1.

# 322-701-04, 322-720-00, 322-721-00, 322-751-04, 322-754-17 Configuration Mismatch Fault RAP

322-701-04 Module completion message received after IOT returned to standby.

322-720-00 Service Registry Bad data / Corrupted.

322-721-00 Triple A gets no response from SRS.

322-751-04 Paper Tray Configuration Mismatch.

322-754-17 When the System detects the UI Configuration has changed during the Power On Sequence.

- 1. Verify the tray configuration is the same in the UI control panel as is physically configured in the machine.
- 2. Change the UI control panel configuration to match the job required.
- 3. Switch OFF, then switch ON the machine, GP 10.
- 4. Check the UI control panel input tray required is set correctly, then run the job again causing the fault.
- 5. If the fault persists, contact next level support.

340-100-00 to 340-105-00, 340-108-00, 340-109-00, 340-112-00 to 340-117-00, 340-120-00, 340-122-00 to 340-124-00, 340-126-00 to 340-128-00, 340-130-00, 340-131-00, 340-133-00, 340-134-00, 340-137-00 to 340-141-00, 340-144-00 to 340-151-00, 340-155-00, 340-156-00, 340-160-00, 340-161-00, 340-163-00, 340-165-00, 340-166-00, 340-170-00, 340-194-00 to 340-200-00, 391-900-00 Supplies Security is not Enabled RAP

340-100-00 SWERR PS 2 EM STATE NONZERO

**340-101-00** SWERR\_UNKPSR

340-102-00 SWERR\_STUB\_EXECUTION

340-103-00 SWERR\_NOSUPVIPS

340-104-00 SWERR\_NFYQFULL

340-105-00 SWERR\_NFYQEMPTY

340-108-00 SWERR\_PRINTHEAD\_ERROR

340-109-00 SWERR FUSER ERROR

340-112-00 SWERR\_NO\_VALID\_PMI\_FOUND

340-113-00 SWERR\_WHAT\_HAPPENED

340-114-00 SWERR SUPPLY SECURITY

340-115-00 SWERR\_UNKNOWN\_VALUE

340-116-00 SWERR\_INVALID\_EM\_SEQUENCE

340-117-00 SWERR INCORRECT CODE LOAD

**340-120-00 SWERR BAD CART DATA** 

340-122-00 SWERR TIMEOUT LASER SERVO

340-123-00 SWERR UNKNOWN SC MGR STATE

340-124-00 SWERR ILLEGAL EM SEQUENCE

340-126-00 SWERR INVALID EM STATE

340-127-00 SWERR\_FIC\_RIP\_NV\_TIMEOUT

**340-128-00** SWERR\_EP\_DIRECT\_XFER

340-130-00 SWERR FIXED POINT MATH ERROR

340-131-00 SWERR\_PH\_RELAY\_ERROR

340-133-00 SWERR PST1 MAXSTATE

340-134-00 SWERR PST2 MAXSTATE

340-137-00 SWERR\_TIMER2\_NOT\_READY

340-138-00 SWERR RESTART TOO LONG

340-139-00 SWERR T2 DIDNT FINISH TE

340-140-00 SWERR COOLED TOO LONG

**340-141-00 SWERR TXPRAMPDN** 

**340-144-00** SWERR TXP ERROR

340-145-00 SWERR\_CARTRIDGE\_ERROR

340-146-00 SWERR TDS

340-147-00 SWERR GAP CALC PROBLEM

340-148-00 SWERR\_PICK\_TIMEOUT

340-149-00 SWERR ALIVE TOO LONG

340-150-00 SWERR LOCATION TOO LARGE

340-151-00 SWERR XFERPWM TOO HIGH

**340-155-00 SWERR\_BUSY\_HANG** 

340-156-00 SWERR\_UNKNOWN\_SC\_SEQUENCE

340-160-00 SWERR SUPPLY

340-161-00 SWERR TIMEOUT WAITING FOR SLEEP

340-163-00 SWERR MOTORS ERROR

340-165-00 SWERR\_HW\_CODE\_INCOMPAT

340-166-00 SWERR\_KMALLOC\_FAILED

**340-170-00** SWERR\_ENG\_NV\_INTF

340-194-00 SWERR TXP START

340-195-00 SWERR\_TXP\_LOCK\_TIMEOUT

340-196-00 SWERR WD NEAR TRIPPED

340-197-00 SWERR\_INVALID\_SYS\_CLK

340-198-00 SWERR FAN ERROR

**340-199-00** SWERR SM LOST

340-200-00 SWERR TIMEOUT WAITING FOR POWER

391-900-00 Supplies security is not enabled



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Restart the printer. If the problem remains, then contact the next level of support.

# 340-186-00 Incompatible Option. Option Software Version is not Supported by the Engine

**340-186-00** Incompatible option. Option software version is not supported by the engine



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**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Turn off the printer, and then unplug the power cord from the electrical outlet.
- 2. Remove the indicated tray.
- 3. Connect the power cord to the electrical outlet, and then turn on the printer.

# 340-193-00 Too Many Input or Output Options Installed

**340-193-00** Too many input or output options installed.



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Turn off the printer, and then unplug the power cord from the electrical outlet.
- 2. Remove one or more trays.
- 3. Connect the power cord to the electrical outlet, and then turn on the printer.

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340-186-00

# 340–201–00 to 340–205–00Device Configuration Errors RAP

340–201–00 Invalid Device Configuration

340–302–00 Unsupported Device Configuration

340-203-00 Invalid Software detected

340–204–00 Too many input trays installed

340-205-00 Too many output trays/bins installed

### **Initial Actions**

If the UI is available, print a configuration report to compare the device configuration to the settings in the UI and to compare the software version to the latest available.

- Check the UI is correctly configured for the machine configuration, i.e... number of trays, WiFi installed, fax line connected, etc...
- 2. Switch OFF, then switch ON the machine, GP 10.
- 3. Upgrade the software, GP 4.

## 341-343-00 EEPROM Backup Fails RAP

341-343-00 EEPROM backup fails RAP



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Switch OFF, then switch ON the machine, GP 10. If the fault persists, call 2nd level support.

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#### 342-200-00 to 342-208-00 LVPS Error Service Check RAP

**342-200-00** LVPS/controller (switched power rails that determine the PGOOD signal state) dropped while not sleeping

**342-201-00** LVPS/controller (switched power rails that determine the PGOOD signal state) line not up by timeout from POR/sleep exit

342-202-00 Sensor rail down at POR

342-203-00 No line frequency detected

342-204-00 Line Frequency outside operating range of device

**342-205-00** LVPS Mismatch- HW detects that a 120V PSU is installed, but the RIP reports a 220V type

**342-206-00** LVPS Mismatch- HW detects that a 230V PSU is installed, but the RIP reports a 110V (A) or 100V(B) type

342-207-00 Line Frequency outside operating range of device

342-208-00 LVPS relay is stuck closed



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Make sure that the printer is plugged into a into an appropriate rate and properly grounded electrical out let or supported Inline Surge Protector.
- 2. Switch OFF, then switch ON the machine, GP 10.
- 3. Make sure that the connections between the controller board and the LVPS are properly connected.
- 4. Make sure that the printer is plugged into a supported power strip or uninterruptable power supply (UPS).
- 5. Make sure that voltage output of the electrical outlet matches the voltage rating of the printer.

**Note:** A poor power source may trigger a false fuser error.

### 343-200-00 to 343-209-00 Sensor (toner density) Error Service Check

**343-200-00** TDS baseline too low

343-201-00 TDS baseline too high

343-202-00 TDS baseline excessive range

343-203-00 TDS calibration at max

343-204-00 TDS calibration too low

343-205-00 TDS calibration too close to baseline

343-206-00 PC drum measurement too high

343-207-00 PC drum measurement too different from calibration

343-208-00 PC drum measurement too close to baseline

343-209-00 Not enough PC drum measurement data



**WARNING:** Switch off the electricity to the machine, **GP** 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

1. Check if the printer is using a genuine and supported Xerox toner cartridge.

Note: If the printer is using a third-party toner cartridge, then refer the user to their supplier.

- 2. Check the imagine unit and toner cartridge for damage and leakage.
- 3. Make sure that the imaging unit and the toner cartridge are free of toner buildup. using an approved toner vacuum cleaner, completely clean the supplies.
- 4. Switch OFF, then switch ON the machine, GP 10.
- 5. Check the cleaning mechanism actuator for improper operation and damage.
- Clear the area under the transfer roller of dust and toner contamination. For more information, see REP 90.1.
- 7. Remove tray 1, and then manually actuate the toner density sensor wiper my moving the pick roller up and down.
- Make sure the connections between the controller board and sensor (toner density) are properly connected.
- 9. Check the pick roller cam for damage.

Note: The rotation of the pick roller cam triggers the movement of the wiper bracket.

10. Check the sensor (toner density) and its wiper bracket for damage, contamination, and improper installation. For more information, see REP 70.6.

## 343-210-00, 344-200-00 to 344-202-00 Imaging Unit CTLS Error Service Check

**343-210-00** Capactive Toner Level Sensing (CTLS) timeout parking paddle after auger

344-200-00 Capactive Toner Level Sensing (CTLS) reading above maximum expected value

344-201-00 Capactive Toner Level Sensing (CTLS) reading below minimum expected value RAP

344-202-00 Excessive CTLS Noise



- 1. Check the imaging unit for damage, contamination, and improper installation.
- 2. Check the imaging unit contacts for contamination.
- 3. Switch OFF, then switch ON the machine, GP 10.
- Make sure that the connections between the controller board and the imaging unit are properly connected.

# 344-203-00 to 344-206-00, 344-214-00 to 344-216-00 Motor (main) Error Service Check

344-203-00 Transport Motor loss of encoders (motor stall)

**344-204-00** Transport Motor underspeed

344-205-00 Transport Motor overspeed

344-206-00 Transport Motor moved too long

344-214-00 Transport Motor does not turn on

344-215-00 Transport Motor does not turn off

344-216-00 Transport Motor failed to achieve expected speed



- 1. Check if the error occurs only after printing. If yes, then check the imaging unit for damage, contamination, and improper installation.
- 2. Switch OFF, then switch ON the machine, GP 10.
- 3. Make sure that the motor (main) is functional. Do the following:
  - a. Enter the Diagnostics Menu, GP 1.
  - b. Touch Diagnostics > dC330 Component Control > Print Engine > Motor Tests.
  - c. Touch the appropriate test for the Motor in question.
- 4. Make sure that the connections between the motor (main) and the controller board are properly.
- 5. Check the main drive gearbox for damage, contamination, and improper installation. For more see REP 40.2.

## 344-207-00 to 344-213-00, 346-207-00 to 346-213-00 Cartridge Drive Error Service Check

344-207-00 K Bottle Motor does not turn on

344-208-00 K Bottle Motor does not turn off

344-209-00 K Bottle Motor failed to achieve expected speed

344-210-00 K Bottle Motor loss of encoders (motor stall)

344-211-00 K Bottle Motor underspeed

344-212-00 K Bottle Motor overspeed

344-213-00 K Bottle Motor moved too long

346-207-00 K Bottle Motor does not turn on

346-208-00 K Bottle Motor does not turn off

346-209-00 K Bottle Motor failed to achieve expected speed

346-210-00 K Bottle Motor loss of encoders (motor stall)

346-211-00 K Bottle Motor underspeed

346-212-00 K Bottle Motor overspeed

346-213-00 K Bottle Motor moved too long



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

1. Check if the printer is using a genuine and supported Lexmark toner cartridge.

Note: If the printer is using a third-party toner cartridge, then refer the user to their supplier.

- 2. Check the toner cartridge for damage and improper installation.
- 3. Manually turn the cartridge gear, and then make sure it is not stuck.
- 4. Open the front access door, and then check if the cartridge plunger is damaged.
- 5. Make sure that the toner cartridge is free of toner buildup. Using an approved toner vacuum cleaner, completely clean the toner cartridge.
- 6. Make sure that the connections between the toner cartridge and the controller board are properly connected.
- 7. Switch OFF, then switch ON the machine, GP 10.
- 8. Make sure that the motor (main) is functional. Do the following:
  - a. Enter the Diagnostics Menu, GP 1.
  - b. Touch Diagnostics > dC330 Component Control > Print Engine > Motor Tests.
  - c. Touch the appropriate test for the Motor in question.
- 9. Make sure that the connections between the motor (main) and the controller board are properly connected
- 10. Check the main drive gearbox for damage, contamination, and improper installation. For more information, see REP 40.2.

351-214-00, 351-216-00, 351-218-00, 351-220-00, 351-222-00, 351-224-10, 351-226-10, 351-228-00, 371-210-00, 371-212-00, 371-214-00, 371-216-00, 371-218-00, 371-220-00, 371-222-00 Motor (tray 1 pick/lift) Error Service Check

**371-210-00** Tray 1 Lift On Fail

**371-212-00** Tray 1 Lift Off Fail

371-214-00 Autocomp Pick / Lift Motor failed to achieve expected speed

**371-216-00** Autocomp Pick / Lift Motor loss of encoders (motor stall)

371-218-00 Autocomp Pick / Lift Motor underspeed

371-220-00 Autocomp Pick / Lift Motor overspeed

371-222-00 Autocomp Pick / Lift Motor moved too long

351-214-00 Autocomp Pick / Lift Motor failed to achieve expected speed

**351-216-00** Autocomp Pick / Lift Motor loss of encoders (motor stall)

351-218-00 Autocomp Pick / Lift Motor underspeed

351-220-00 Autocomp Pick / Lift Motor overspeed

351-222-00 Autocomp Pick / Lift Motor moved too long

**351-224-10** Tray 1 Autocomp Pick / Lift Motor did not lift properly since the lift plate sensor never changed state

351-226-10 Autocomp Pick / Lift Motor does not turn on

351-228-00 Autocomp Pick / Lift Motor does not turn off



- 1. Check the tray insert for damage and improper installation.
- 2. Check the tray guides for damage and improper operation.
- 3. Check the lift plate for damage and improper operation.
- 4. Switch OFF, then switch ON the machine, GP 10.
- 5. Make sure that the pick/lift motor gearbox is functional. Do the following:
  - a. Enter the Diagnostics Menu, GP 1.
    - 1. Touch Diagnostics > dC330 Component Control > Print Engine > Motor Tests.
    - 2. Touch the appropriate test for the Motor in question.
  - b. Make sure that the connections between the motor (pick/lift) and the controller board are properly connected.
  - Check the pick/lift motor gearbox for damage, contamination, and improper installation. For more information, see REP 80.8.
- 6. Check the pick roller for damage and improper operation. For more information, see REP 70.1.

352-214-00, 352-216-00, 352-216-00, 352-218-00, 352-220-00, 372-222-00, 352-224-10, 352-226-10, 352-228-00, 372-210-00, 372-212-00, 372-214-00, 372-216-00, 372-218-00, 372-220-00, 372-222-00 Optional Tray Pick Drive Error Service Check

372-210-00 Tray 2 Lift ON Fail

**372-212-00** Tray 2 Lift Off Fail

372-214-00 Tray 2 Pick Motor failed to achieve expected speed

372-216-00 Tray 2 Pick Motor loss of encoders (motor stall)

372-218-00 Tray 2 pick Motor underspeed

372-220-00 Tray 2 Pick Motor overspeed

372-222-00 Tray 2 pick Motor moved too long

352-214-00 Tray 2 Pick Motor failed to achieve expected speed

352-216-00 Tray 2 Pick Motor loss of encoders (motor stall)

352-218-00 Tray 2 pick Motor underspeed

352-220-00 Tray 2 Pick Motor overspeed

352-222-00 Tray 2 pick Motor moved too long

**352-224-10** Tray 2 Autocomp Pick / Lift Motor did not lift properly since the lift plate sensor never changed state

352-226-10 Tray 2 Pick Motor does not turn on

352-228-00 Tray 2 Pick Motor does not turn off



**WARNING:** Switch off the electricity to the machine, **GP 10.** Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Turn off the printer.
- 2. Check the optional tray for improper installation.
- 3. Remove the optional tray, and then check the connectors on the printer and optional tray for damage and improper connection.
- 4. Reinstall the optional tray, and then turn on the printer.
- 5. Remove the tray insert.
- 6. Check the tray insert and its lift plate gears for damage and improper operation.
- 7. Make sure that the following motors are functional:
  - Motor (pick (tray (x))
  - Motor (pass-through (tray(x))

Do the following:

a. Enter the Diagnostics Menu, GP 1.

- b. Touch Diagnostics > dC330 Component Control > Print Engine > Motor Tests.
- c. Touch the appropriate test for the Motor in question.
- 8. Make sure that the connections between the motors and the controller board are properly connected.
- 9. Check the motors for damage, and improper installation.

352-314-00, 352-316-00, 352-318-00, 352-320-00, 352-322-00, 352-326-10, 352-328-00, 353-214-00, 353-216-00, 353-218-00, 353-220-00, 353-222-00, 353-226-10, 352-228-00, 353-314-00, 353-316-00, 353-318-00, 353-320-00, 353-322-00, 353-326-10, 353-328-00, 354-214-00, 354-216-00, 354-218-00, 354-220-00, 354-222-00, 354-224-10, 354-226-10, 354-228-00, 354-314-00, 354-316-00, 354-318-00, 354-320-00, 354-322-00, 354-326-10, 354-328-00, 372-300-00, 372-302-00, 372-304-00, 372-306-00, 372-308-00, 372-310-00, 372-312-00, 373-210-00, 373-212-00, 373-214-00, 373-216-00, 373-218-00, 373-200-00, 373-300-00, 373-300-00, 373-312-00, 373-304-00, 373-306-00, 373-308-00, 373-310-00, 373-312-00, 374-218-00 to 374-231-00 Optional Tray Motor Error Service Check

352-314-00 Tray 2 Pass Through Motor failed to achieve expected speed

352-316-00 Tray 2 Pass Through Motor loss of encoders (motor stall)

**352-318-00** Tray 2 Pass Through Motor underspeed

352-320-00 Tray 2 Pass Through Motor overspeed

**352-322-00** Tray 2 Pass Through Motor moved too long

**352-326-10** Tray 2 Pass Through Motor does not turn on

**352-328-00** Tray 2 Pass Through Motor does not turn off

353-214-00 Tray 3 Pick Motor failed to achieve expected speed

**353-216-00** Tray 3 pick Motor loss of encoders (motor stall)

**353-218-00** Tray 3 pick Motor underspeed

353-220-00 Tray 3 Pick Motor overspeed

353-222-00 Tray 3 Pick Motor moved too long

353-226-10 Tray 3 pick Motor does not turn on

353-228-00 Tray 3 Pick Motor does not turn off

353-314-00 Tray 3 Pass Through Motor failed to achieve expected speed

**353-316-00** Tray 3 Pass Through Motor loss of encoders (motor stall)

**353-318-00** Tray 3 Pass Through Motor underspeed

**353-320-00** Tray 3 Pass Through Motor overspeed

**353-322-00** Tray 3 Pass Through Motor moved too long

353-326-10 Tray 3 Pass Through Motor does not turn on

353-328-00 Tray 3 Pass Through Motor does not turn off

354-214-00 Tray 4 pick Motor failed to achieve expected speed

354-216-00 Tray 4 Pick Motor loss of encoders (motor stall)

354-218-00 Tray 4 pick Motor underspeed

**354-220-00** Tray 4 pick Motor overspeed

354-222-00 Tray 4 Pick Motor moved too long

**354-224-10** Tray 4 Autocomp Pick / Lift Motor did not lift properly since the lift plate sensor never changed state

354-226-10 Tray 4 Pick Motor does not turn on

354-228-00 Tray 4 pick Motor does not turn off

354-314-00 Tray 4 Pass Through Motor failed to achieve expected speed

**354-316-00** Tray 4 Pass Through Motor loss of encoders (motor stall)

354-318-00 Tray 4 Pass Through Motor underspeed

354-320-00 Tray 4 Pass Through Motor overspeed

354-322-00 Tray 4 Pass Through Motor moved too long

354-326-10 Tray 4 Pass Through Motor does not turn on

354-328-00 Tray 4 Pass Through Motor does not turn off

372-300-00 Tray 2 transport Motor On Fail

372-302-00 Tray 2 transport Motor Off Fail

372-304-00 Tray 2 transport Motor Speed Fail

**372-306-00** Tray 2 transport Motor loss of encoders (motor stall)

372-308-00 Tray 2 transport Motor underspeed

372-310-00 Tray 2 transport Motor overspeed

**372-312-00** Tray 2 transport Motor moved too long

373-210-00 Trav3 Lift On Fail

**373-212-00** Tray 3 Off Fail

373-214-00 Tray 3 Pick Motor failed to achieve expected speed

373-216-00 Tray 3 pick Motor loss of encoders (motor stall)

**373-218-00** Tray 3 pick Motor underspeed

**373-220-00** Tray 3 Pick Motor overspeed

**373-222-00** Tray 3 Pick Motor moved too long

373-300-00 Tray 3 transport Motor On Fail

373-302-00 Tray 3 transport Motor Off Fail

373-304-00 Tray 3 transport Motor Speed Fail

373-306-00 Tray 3 transport Motor loss of encoders (motor stall)

373-308-00 Tray 3 transport Motor underspeed

373-310-00 Tray 3 transport Motor overspeed

373-312-00 Tray 3 transport Motor moved too long

374-218-00 Tray 4 Pick Motor does not turn on

374-219-00 Tray 4 pick Motor does not turn off

374-220-00 Tray 4 pick Motor failed to achieve expected speed

374-221-00 Tray 4 Pick Motor loss of encoders (motor stall)

374-222-00 Tray 4 pick Motor underspeed

374-223-00 Tray 4 pick Motor overspeed

374-224-00 Tray 4 Pick Motor moved too long

374-225-00 Tray 4 transport Motor does not turn on

374-226-00 Tray 4 transport Motor does not turn off

374-227-00 Tray 4 transport Motor failed to achieve expected speed

374-228-00 Tray 4 transport Motor loss of encoders (motor stall)

374-229-00 Tray 4 transport Motor underspeed

374-230-00 Tray 4 transport Motor overspeed

374-231-00 Tray 4 transport Motor moved too long



- 1. Make sure that the printer is placed in a location with the recommend airflow, ventilation, and clearance around the printer. For more information, see GP 16.
- 2. Make sure that the cooling fan is functional. Do the following:
  - a. Enter the Diagnostics Menu, GP 1.
  - b. Touch Diagnostics > dC330 Component Control > Print Engine > Motor Tests.
  - c. Touch the appropriate test for the Motor in question.
- 3. Make sure that the connections between the cooling fan and the controller boar dare properly connected.
- 4. Check the cooling fan for damage, contamination, and improper installation. For more information, see REP 40.1.

### 371-106-00, 371-328-00 Sensor (input): Static Jam Service Check

**371-106-00** Rogue page showed up when flushing the paperpath

371-328-00 S1/Input sensor covered at warmup



**WARNING:** Switch off the electricity to the machine, **GP** 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Make sure that paper is supported and loaded properly.
- 2. Make sure that the paper is free of debris and obstructions.
- 3. Switch OFF, then switch ON the machine, GP 10.
- 4. Check if the paper jam error occurs when using other trays.
- 5. If the paper jam error occurs regardless of the source tray, then do the following:
  - a. Check the input sensor actuator for damage, and improper installation.
  - b. Make sure that the sensor (duplex and input) is functional. Do the following:
    - 1. Enter the Diagnostics Menu, GP 1.
    - 2. Touch Diagnostics > dC330 Component Control > Print Engine > Sensor Tests.
    - 3. Touch the appropriate test for the Sensor in question.
  - c. Make sure that the connections between the sensor (duplex and input) and the controller board are properly connected.
  - d. Check the sensor (duplex and input) for damage and improper installation. For more information, see REP 80.7.

### 371-302-00, 371-306-00 Sensor (input): Paper Failed to Arrive from the MPF Jam Service Check

371-302-00 Sensor never made by leading edge of page - Source is mpf/manual

**371-306-00** Fail to pick detected from mpf/manual by s1/Input sensor/stage- Source is mpf/manual



- 1. Make sure that paper is supported and loaded properly.
- 2. Make sure that the paper is free of debris and obstructions.
- 3. Switch OFF, then switch ON the machine, GP 10.
- 4. Check if the paper jam error occurs when using other trays.
- - Check the MPF pick roller and separator roller for wear, damage, and contamination.
  - Make sure that the MPF solenoid is functional. Do the following:
    - a. Enter the Diagnostics Menu, GP 1.
    - b. Touch Diagnostics > dC330 Component Control > Print Engine > Motor Tests.
    - c. Touch the appropriate test for the Motor in question.
- 6. If the paper jam error occurs regardless of the source tray, then do the following:
  - a. Identify the location of the leading edge of the paper.
  - b. If the leading edge of the paper did not reach the fuser, then check the imaging unit and transfer roller for damage and improper installation. For more information, see REP 90.1.
  - c. If the leading edge of the paper reached the fuser, then check the fuser for wear, damage, and improper installation. Fore more information, see REP 10.1.

### 371-303-00 S1/Input Sensor Cleared by Page too Soon- Source is MPF/Manual RAP

371-303-00 S1/Input sensor cleared by page too soon-Source is mpf/manual



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- Set the paper size in the Paper menu to match the paper loaded. From the home screen, touch Settings > Paper> Tray Configuration.
- Adjust the paper guides in the tray to correct position for the paper loaded. Make sure that the guides fit snugly against the paper.
- 3. Replace with correct paper type or size.
- 4. Make sure that paper is supported and loaded properly.
- 5. Make sure that the paper is free of debris and obstructions.
- 6. Switch OFF, then switch ON the machine, GP 10.
- 7. Check if the paper jam error occurs when using other trays.
- 8. If the paper jam error occurs regardless of the source tray, then do the following:
  - a. Check the input sensor actuator for damage, and improper installation.
  - b. Make sure that the sensor (duplex and input) is functional. Do the following:
    - 1. Enter the Diagnostics Menu, GP 1.
    - 2. Touch Diagnostics > dC330 Component Control > Print Engine > Sensor Tests.
    - 3. Touch the appropriate test for the Sensor in question.
  - Make sure that the connections between the sensor (duplex and input) and the controller board are properly connected.
  - d. Check the sensor (duplex and input) for damage and improper installation. For more information, see REP 80.7.

# 371-304-00 S1/Input/Stage Sensor Never Cleared by Trailing Edge of Page- Source is MPF/Manual (bump exit sensor for CA/MM) RAP

**371-304-00** S1/Input/Stage sensor never cleared by trailing edge of page- Source is mpf/manual (bump exit sensor for CA/MM)



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Make sure that paper is supported and loaded properly.
- 2. Make sure that the paper is free of debris and obstructions.
- 3. Switch OFF, then switch ON the machine, GP 10.
- 4. Check if the paper jam error occurs when using other trays.
- 5. If the paper jam error occurs only when using the MPF, then do the following:
  - Check the MPF pick roller and separator roller for wear, damage, and contamination.
  - Make sure that the MPF solenoid is functional. Do the following:
    - a. Enter the Diagnostics Menu, GP 1.
  - b. Touch Diagnostics > dC330 Component Control > Print Engine > Motor Tests.
  - c. Touch the appropriate test for the Motor in question.
- 6. If the paper jam error occurs regardless of the source tray, then do the following:
  - a. Identify the location of the leading edge of the paper.
  - b. If the leading edge of the paper did not reach the fuser, then check the imaging unit and transfer roller for damage and improper installation. For more information, see REP 90.1
  - c. If the leading edge of the paper reached the fuser, then check the fuser for wear, damage, and improper installation. Fore more information, see REP 10.1

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## 371-305-00 S1/Input Sensor Cleared by Page too Soon- Source is Tray 1 RAP

371-305-00 S1/Input sensor cleared by page too soon- Source is tray 1



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Make sure that paper is supported and loaded properly.
- 2. Make sure that the paper is free of debris and obstructions.
- 3. Switch OFF, then switch ON the machine, GP 10...
- 4. Check if the paper jam error occurs when using other trays.
- 5. Check the pick roller for wear, damage, contamination, and improper installation.
- 6. Make sure that the reverse solenoid is functional. Do the following:
  - a. Enter the Diagnostics Menu, GP 1.
  - b. Touch Diagnostics > dC330 Component Control > Print Engine > Motor Tests.
  - c. Touch the appropriate test for the Motor in question.
- 7. Check the reverse solenoid and its actuator for wear, damage, and improper operation. For more information, see REP 80.3.
- 8. Check the redrive for wear, damage, and improper mesh. For more information, see REP 80.10.

# 371-308-00, 371-310-00 Sensor (input): Paper Arrived too Early or Failed to Arrive Jam Service Check

371-308-00 Bump exit sensor covered too soon- Source is tray 1

371-310-00 Sensor never made by leading edge of page



- 1. Make sure that paper is supported and loaded properly.
- 2. Make sure that the paper is free of debris and obstructions.
- 3. Switch OFF, then switch ON the machine, GP 10.
- 4. Check if the paper jam error occurs when using other trays.
- 5. Check the pick arm and pick roller for damage and improper installation.
- 6. Make sure that the pick/lift motor gearbox is functional. Do the following:
  - a. Enter the Diagnostics Menu, GP 1.
    - 1. Touch Diagnostics > dC330 Component Control > Print Engine > Motor Tests.
    - 2. Touch the appropriate test for the Motor in question.
  - Make sure that the connections between the motor (pick/lift) and the controller board are properly connected.
  - Check the pick/lift motor gearbox for damage, contamination, and improper installation. For more information, see REP 80.8.

## 371-312-00 Bump Exit/stage Sensor Never Cleared by Trailing Edge of Page- Source is Tray 1 RAP

371-312-00 Bump exit/stage sensor never cleared by trailing edge of page- Source is tray 1



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**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Make sure that paper is supported and loaded properly.
- 2. Make sure that the paper is free of debris and obstructions.
- 3. Switch OFF, then switch ON the machine, GP 10.
- 4. Check if the paper jam error occurs when using other trays.
- 5. If the paper jam error occurs only when using tray 1, then do the following:
  - a. Check the pick roller for wear, damage, contamination, and improper installation.
  - Check the separator pad or separator roller for wear, damage, contamination, and improper installation.
- 6. If the paper jam error occurs regardless of the source tray, then do the following:
  - a. Check the input sensor actuator for damage, and improper installation.
  - b. Make sure that the sensor (duplex and input) is functional. Do the following:
    - 1. Enter the Diagnostics Menu. GP 1.
    - 2. Touch Diagnostics > dC330 Component Control > Print Engine > Sensor Tests.
    - 3. Touch the appropriate test for the Sensor in question.
  - c. Make sure that the connections between the sensor (duplex and input) and the controller board are properly connected.
  - d. Check the sensor (duplex and input) for damage and improper installation. For more information, see REP 80.7.
- 7. If the paper jam error occurs regardless of the source tray, then do the following:
  - a. Identify the location of the leading edge of the paper.
  - b. If the leading edge of the paper did not reach the fuser, then check the imaging unit and transfer roller for damage and improper installation. For more information, see REP 90.1.
  - c. If the leading edge of the paper reached the fuser, then check the fuser for wear, damage, and improper installation. Fore more information, see REP 10.1.

### 371-314-00 Fail to Pick Detected from Tray1 by s1/Input/Stage Sensor RAP

371-314-00 Fail to pick detected from tray1 by s1/Input/Stage sensor



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Make sure that paper is supported and loaded properly.
- 2. Make sure that the paper is free of debris and obstructions.
- 3. Switch OFF, then switch ON the machine, GP 10.
- 4. Check if the paper jam error occurs when using other trays.
- 5. If the paper jam error occurs only when using tray 1, then do the following:
  - a. Check the pick roller for wear, damage, contamination, and improper installation.
  - Check the separator pad or separator roller for wear, damage, contamination, and improper installation.
- 6. Check the pick arm and pick roller for damage and improper installation.
- 7. Check the tray insert for damage and improper installation.
- 8. Check the tray guides for damage and improper operation.
- 9. Check the lift plate for damage and improper operation.
- 10. Check the tray gears for wear and damage.

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# 371-316-00, 371-322-00, 374-300-00 Sensor (input): Paper Arrived too Early from Optional Tray Jam Service Check

371-316-00 S1/Input sensor covered too soon- Source is tray 2

371-322-00 S1/Input sensor covered too soon- Source is tray 3

374-300-00 S1/Input sensor covered too soon- Source is tray 4



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Make sure that paper is supported and loaded properly.
- 2. Make sure that the paper is free of debris and obstructions.
- 3. Switch OFF, then switch ON the machine, GP 10.
- 4. Check if the paper jam error occurs when using other trays.
- 5. If the paper jam error occurs regardless of the source tray, then do the following:
  - a. Check the pick roller for wear, damage, contamination, and improper installation.
  - b. Make sure that the sensor (duplex and input) is functional. Do the following:
    - 1. Enter the Diagnostics Menu, GP 1.
    - 2. Touch Diagnostics > dC330 Component Control > Print Engine > Sensor Tests.
    - 3. Touch the appropriate test for the Sensor in question.
  - c. Make sure that the connections between the sensor (duplex and input) and the controller board are properly connected.
  - d. Check the sensor (duplex and input) for damage and improper installation. For more information, see REP 80.7
- 6. Check the pick arm and pick roller for damage and improper installation.
- 7. Make sure that the pick/lift motor gearbox is functional. Do the following:
  - a. Enter the Diagnostics Menu, GP 1.
    - 1. Touch Diagnostics > dC330 Component Control > Print Engine > MotorTests.
    - 2. Touch the appropriate test for the Motor in question.
  - b. Make sure that the connections between the motor (pick/lift) and the controller board are properly connected.
  - Check the pick/lift motor gearbox for damage, contamination, and improper installation. For more information, see REP 80.8.

### 371-317-00, 371-346-00, 374-317-00 Motor (tray 1 pick) Jam Service Check

**371-317-00** Autocomp Motor underspeed source = tray 2

371-346-00 Tray1- Autocomp Motor underspeed

374-317-00 Autocomp Motor underspeed



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Make sure that paper is supported and loaded properly.
- 2. Make sure that the paper is free of debris and obstructions.
- 3. Switch OFF, then switch ON the machine, GP 10.
- 4. Check if the paper jam error occurs when using other trays.
- 5. Make sure that the pick/lift motor gearbox is functional. Do the following:
  - a. Enter the Diagnostics Menu, GP 1.
    - 1. Touch Diagnostics > dC330 Component Control > Print Engine > Motor Tests.
    - 2. Touch the appropriate test for the Motor in question.
  - Make sure that the connections between the motor (pick/lift) and the controller board are properly connected.
  - Check the pick/lift motor gearbox for damage, contamination, and improper installation. For more information. see REP 80.8.
- 6. Check the pick arm and pick roller for damage and improper installation.

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# 371-318-00, 371-324-00, 374-318-00 Sensor (input): Paper Failed to Arrive from Optional Tray Jam Service Check

371-318-00 Jam at S1/Input/stage - never reached s1/Input/stage sensor- Source is Tray 2

371-324-00 Jam at Bump Exit - never reached bump exit sensor- Source is Tray 3

374-318-00 Jam at S1/Input - never reached s1 sensor- Source is Tray 4



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Make sure that paper is supported and loaded properly.
- 2. Make sure that the paper is free of debris and obstructions.
- 3. Switch OFF, then switch ON the machine, GP 10.
- 4. Check if the paper jam error occurs when using other trays.
- 5. If the paper jam error occurs when using optional trays (tray 2 to tray 4), then do the following:
  - a. Check the pick roller for wear, damage, contamination, and improper installation.
  - Check the separator pad or separator roller for wear, damage, contamination, and improper installation.
  - c. Check the paper path above the tray for debris and foreign object.
- 6. If the paper jam error occurs regardless of the source tray, then do the following:
  - a. Check the input sensor actuator for damage, and improper installation.
  - b. Make sure that the sensor (duplex and input) is functional. Do the following:
    - 1. Enter the Diagnostics Menu, GP 1.
    - 2. Touch Diagnostics > dC330 Component Control > Print Engine > Sensor Tests.
    - 3. Touch the appropriate test for the Sensor in question.
  - c. Make sure that the connections between the sensor (duplex and input) and the controller board are properly connected.
  - d. Check the sensor (duplex and input) for damage and improper installation. For more information, see REP 80.7.
- 7. If the paper jam error occurs regardless of the source tray, then do the following:
  - a. Identify the location of the leading edge of the paper.
  - b. If the leading edge of the paper did not reach the fuser, then check the imaging unit and transfer roller for damage and improper installation. For more information, see REP 90.1.
  - c. If the leading edge of the paper reached the fuser, then check the fuser for wear, damage, and improper installation. Fore more information, see REP 10.1.

# 371-320-00, 371-326-00, 374-320-00 Sensor (input): Paper Failed to Clear from Optional Tray Jam Service Check

**371-320-00** S1/Input sensor never cleared by trailing edge of page- Source is tray 2

371-326-00 S1/Input sensor never cleared by trailing edge of page- Source is tray 3

374-320-00 S1/Input sensor never cleared by trailing edge of page- Source is tray 4



- 1. Make sure that paper is supported and loaded properly.
- 2. Make sure that the paper is free of debris and obstructions.
- 3. Switch OFF, then switch ON the machine, GP 10.
- 4. Check if the paper jam error occurs when using other trays.
- 5. If the paper jam error occurs when using optional trays (tray 2 to tray 4), then do the following:
  - a. Check the pick roller for wear, damage, contamination, and improper installation.
  - Check the separator pad or separator roller for wear, damage, contamination, and improper installation.
  - c. Check the paper path above the tray for debris and foreign object.
- 6. If the paper jam error occurs regardless of the source tray, then do the following:
  - a. Check the input sensor actuator for damage, and improper installation.
  - b. Make sure that the sensor (duplex and input) is functional. Do the following:
    - 1. Enter the Diagnostics Menu, GP 1.
    - 2. Touch Diagnostics > dC330 Component Control > Print Engine > Sensor Tests.
    - 3. Touch the appropriate test for the Sensor in question.
  - c. Make sure that the connections between the sensor (duplex and input) and the controller board are properly connected.
  - d. Check the sensor (duplex and input) for damage and improper installation. For more information, see REP 80.7.
- 7. If the paper jam error occurs regardless of the source tray, then do the following:
  - a. Identify the location of the leading edge of the paper.
  - b. If the leading edge of the paper did not reach the fuser, then check the imaging unit and transfer roller for damage and improper installation. For more information, see REP 90.1.
  - c. If the leading edge of the paper reached the fuser, then check the fuser for wear, damage, and improper installation. For more information, see REP 10.1

372-100-00, 372-902-00, 372-110-00, 372-112-00, 372-142-00, 372-146-00,372-148-00, 372-150-00, 372-223-00, 373-100-00, 373-142-00, 373-144-00, 373-146-00, 373-148-00, 373-150-00, 373-152-00, 374-112-00, 374-142-00, 374-143-00, 374-146-00, 374-147-00, 374-148-00, 374-150-00, 374-152-00, 377-148-00, 377-149-00, 377-281-00 Optional Tray Sensors Jam Service Check

372-100-00 Tray2 Misfeed\_Empty

**372-902-00** STATIC JAM (Paper at sensor at start, cover closed or idle- Jam not cleared)- Source was tray3

**372-110-00** NEVER ARRIVING JAM FROM NORMAL PATH (Paper didnt reach the specified sensor, but did reach the previous sensor)- Source was tray3

**372-112-00** LATE LEAVING JAM (Paper reaches sensor but clears it late- (Long media, double feed)-Source was tray3

**372-142-00** STATIC JAM (Paper at sensor at start, cover closed or idle- Jam not cleared)- Option declared jam, or warmup jam with no known page source

**372-146-00** NEVER ARRIVING JAM FROM NORMAL PATH (Paper didnt reach the specified sensor, but did reach the previous sensor)- Option declared jam, or warmup jam with no known page source

**372-148-00** LATE LEAVING JAM (Paper reaches sensor but clears it late- (Long media, double feed)-Option declared jam, or warmup jam with no known page source

**372-150-00** FAIL TO PICK FROM TRAY (Paper did not reach first sensor Miss-feed, tray empty)- Option declared jam, or warmup jam with no known page source

**372-223-00** STATIC JAM (Paper at sensor at start, cover closed or idle. Jam not cleared). Source was tray2

**373-100-00** Tray 3 Misfeed Empty

**373-142-00** STATIC JAM (Paper at sensor at start, cover closed or idle- Jam not cleared)- Option declared jam, or warmup jam with no known page source

**373-144-00** EARLY ARRIVING JAM (Paper reaches the sensor too soon, or unexpected)- Option declared jam, or warmup jam with no known page source

**373-146-00** NEVER ARRIVING JAM FROM NORMAL PATH (Paper didnt reach the specified sensor, but did reach the previous sensor)- Option declared jam, or warmup jam with no known page source RAP

**373-148-00** LATE LEAVING JAM (Paper reaches sensor but clears it late- (Long media, double feed)-Option declared jam, or warmup jam with no known page source

**373-150-00** FAIL TO PICK FROM TRAY (Paper did not reach first sensor Miss-feed, tray empty)- Option declared jam, or warmup jam with no known page source

**373-152-00** SENSOR DID NOT CLEAR ( Previous sheet did not clear sensor so next sheet could look for an input make)- Source was tray3

**374-112-00** LATE LEAVING JAM (Paper reaches sensor but clears it late- (Long media, double feed)-Source was tray4

 $\bf 374\text{-}142\text{-}00$  STATIC JAM (Paper at sensor at start, cover closed or idle- Jam not cleared)- Source was tray4

**374-143-00** STATIC JAM (Paper at sensor at start, cover closed or idle- Jam not cleared)- Source was tray4

**374-146-00** NEVER ARRIVING JAM FROM NORMAL PATH (Paper didnt reach the specified sensor, but did reach the previous sensor)- Source was tray4

**374-147-00** NEVER ARRIVING JAM FROM NORMAL PATH (Paper didnt reach the specified sensor, but did reach the previous sensor)- Source was tray4

**374-148-00** LATE LEAVING JAM (Paper reaches sensor but clears it late- (Long media, double feed)-Source was tray4

**374-150-00** FAIL TO PICK FROM TRAY (Paper did not reach first sensor Miss-feed, tray empty)-Source was tray4

**374-152-00** SENSOR DID NOT CLEAR ( Previous sheet did not clear sensor so next sheet could look for an input make)- Source was tray4

**377-148-00** SENSOR DID NOT CLEAR ( Previous sheet did not clear sensor so next sheet could look for an input make)- Option declared jam, or warmup jam with no known page source

**377-149-00** STATIC JAM (Paper at sensor at start, cover closed or idle- Jam not cleared)- Option declared jam, or warmup jam with no known page source

**377-281-00** SENSOR DID NOT CLEAR ( Previous sheet did not clear sensor so next sheet could look for an input make)- Option declared jam, or warmup jam with no known page source



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Make sure that paper is supported and loaded properly.
- 2. Switch OFF, then switch ON the machine, GP 10.
- 3. Identify the tray that causes the paper jam error. Place the affected tray insert at the bottom. For example, If tray 2 is causing the paper jam error in a 4-tray configuration, then swap tray 2 and tray 4.
- 4. Make sure the following sensors are functional:
  - Sensor (pass-through)
  - Sensor (index)
  - Sensor (trailing edge)
  - Sensor (media present)

Do the following:

- a. Enter the Diagnostics Menu, GP 1.
- b. Touch Diagnostics > dC330 Component Control > Print Engine > Sensor Tests.
- c. Touch the appropriate test for the Sensor in question.
- Make sure that the connections between the listed sensors and the controller board are properly connected.

- 6. Check the sensors and its actuators for damage and improper installation.
- 7. Check the tray insert for damage and improper installation.
- 8. Check the tray guides for damage and improper operation.
- 9. Check the lift plate for damage and improper operation.

372-114-00, 372-116-00, 372-118-00, 372-120-00, 372-122-00, 372-124-00, 372-126-00, 372-128-00, 372-130-00, 372-132-00, 372-134-00, 372-138-00, 372-140-00, 372-321-00, 373-116-00, 373-118-00, 373-120-00, 373-122-00, 373-124-00, 373-126-00, 373-128-00, 373-130-00, 373-132-00, 373-134-00, 373-138-00, 373-140-00, 373-321-00, 374-114-00, 374-116-00, 374-118-00, 374-120-00, 374-122-00, 374-124-00, 374-126-00, 374-128-00, 374-130-00, 374-132-00, 374-138-00, 374-140-00 Optional Tray Sensors Jam Service Check

372-114-00 Tray 2 Transport (550) or lift (HCIT) Motor does not turn on

372-116-00 Tray 2 Transport (550) or lift (HCIT) Motor does not turn off

372-118-00 Tray 2 Transport (550) or lift (HCIT) Motor failed to achieve expected speed

372-120-00 Tray 2 Transport (550) or lift (HCIT) Motor loss of encoders (motor stall)

372-122-00 Tray 2 Transport (550) or lift (HCIT) Motor underspeed

372-124-00 Tray 2 Transport (550) or lift (HCIT) Motor overspeed

372-126-00 Tray 2 Transport (550) or lift (HCIT) Motor moved too long

372-128-00 Tray 2 Motor does not turn on

372-130-00 Tray 2 Motor does not turn off

**372-132-00** Tray 2 Motor failed to achieve expected speed

372-134-00 Tray 2 Motor loss of encoders (motor stall)

**372-138-00** Tray 2 Motor overspeed

372-140-00 Tray 2 Motor moved too long

372-321-00 Tray 2 Motor underspeed

373-116-00 Tray 3 Transport (550) or lift (HCIT) Motor does not turn off

373-118-00 Tray 3 Transport (550) or lift (HCIT) Motor failed to achieve expected speed

373-120-00 Tray 3 Transport (550) or lift (HCIT) Motor loss of encoders (motor stall)

373-122-00 Tray 3 Transport (550) or lift (HCIT) Motor underspeed

373-124-00 Tray 3 Transport (550) or lift (HCIT) Motor overspeed

373-126-00 Tray 3 Transport (550) or lift (HCIT) Motor moved too long

373-128-00 Tray 3 Motor does not turn on

373-130-00 Tray 3 Motor does not turn off

**373-132-00** Tray 3 Motor failed to achieve expected speed

373-134-00 Tray 3 Motor loss of encoders (motor stall)

373-136-00 Tray 3 Motor underspeed

**373-138-00** Tray 3 Motor overspeed

373-140-00 Tray 3 Motor moved too long

373-321-00 Tray 3 Transport (550) or lift (HCIT) Motor does not turn on

**374-114-00** -70 = Tray 4 Transport (550) or lift (HCIT) Motor does not turn on

374-116-00 -71 = Tray 4 Transport (550) or lift (HCIT) Motor does not turn off

374-118-00 -72 = Tray 4 Transport (550) or lift (HCIT) Motor failed to achieve expected speed

374-120-00 Tray 4 Transport (550) or lift (HCIT) Motor loss of encoders (motor stall)

374-122-00 -74 = Tray 4 Transport (550) or lift (HCIT) Motor underspeed

374-124-00 -75 = Tray 4 Transport (550) or lift (HCIT) Motor overspeed

**374-126-00** -76 = Tray 4 Transport (550) or lift (HCIT) Motor moved too long

374-128-00 Tray 4 Motor does not turn on

374-130-00 Tray 4 Motor does not turn off

374-132-00 Tray 4 Motor failed to achieve expected speed

374-134-00 Tray 4 Motor loss of encoders (motor stall)

374-136-00 Tray 4 Motor underspeed

374-138-00 Tray 4 Motor overspeed

374-140-00 Tray 4 Motor moved too long



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Make sure that paper is supported and loaded properly.
- 2. Switch OFF, then switch ON the machine, GP 10.
- 3. Identify the tray that causes the paper jam error. Place the affected tray insert at the bottom. For example, If tray 2 is causing the paper jam error in a 4-tray configuration, then swap tray 2 and tray 4.
- 4. Remove the tray insert.
- 5. Check the tray insert and its lift plate gears for damage and improper operation.
- 6. Make sure that the following motors are functional:
  - Motor (pick (tray (x))
  - Motor (pass-through (tray(x))

Do the following:

- a. Enter the Diagnostics Menu, GP 1.
- b. Touch Diagnostics > dC330 Component Control > Print Engine > Motor Tests.
- c. Touch the appropriate test for the Motor in question.

- 7. Make sure that the connections between the motors and the controller board are properly connected.
- 8. Check the motors for damage, and improper installation.

# 372-305-00, 373-305-00, 374-305-00 S1/Input Sensor Cleared by Page Too Soon- Source is Tray 2/3/4 RAPs

**372-305-00** S1/Input sensor cleared by page too soon- Source is tray 2

373-305-00 S1/Input sensor cleared by page too soon-Source is tray 3

374-305-00 S1/Input sensor cleared by page too soon- Source is tray 4



- 1. Set the paper size in the Paper menu to match the paper loaded. From the home screen, touch Settings > Paper> Tray Configuration.
- Adjust the paper guides in the tray to correct position for the paper loaded. Make sure that the guides fit snugly against the paper.
- 3. Replace with correct paper type or size.
- 4. Make sure that paper is supported and loaded properly.
- 5. Make sure that the paper is free of debris and obstructions.
- 6. Switch OFF, then switch ON the machine, GP 10.
- 7. Check if the paper jam error occurs when using other trays.
- 8. If the paper jam error occurs when using optional trays (tray 2 to tray 4), then do the following:
  - a. Check the pick roller for wear, damage, contamination, and improper installation.
  - Check the separator pad or separator roller for wear, damage, contamination, and improper installation.
  - c. Check the paper path above the tray for debris and foreign object.

# 374-100-01, 374-950-00 Mismatched Paper Size and Paper Printer Setting Error Service Check

**374-100-01** Change tray 4 to different media (orientation supported)

**374-950-00** IRChange: Load tray 4 to different media (orientation not supported)



- Set the paper size in the Paper menu to match the paper loaded. From the home screen, touch Settings> Paper > Tray Configuration.
- Adjust the paper guides in the tray to correct position for the paper loaded. Make sure that the guides fit snugly against the paper.
- 3. Replace with correct paper type or size.

# 374-232-00, 377-270-00, 377-404-00, 377-407-00, 377-410-00, 377-419-00 Sensor (input): Paper (duplex job) failed to Arrive Iam Service Check

**374-232-00** S1/Input/stage sensor never made by leading edge of page during duplex pass source = tray 4

**377-270-00** S1/Input/stage sensor never made by leading edge of page during duplex pass source = MPF

**377-404-00** S1/Input/stage sensor never made by leading edge of page during duplex pass source = tray 1

**377-407-00** S1/Input/stage sensor never made by leading edge of page during duplex pass source = tray 2

**377-410-00** S1/Input/stage sensor never made by leading edge of page during duplex pass source = tray 3

**377-419-00** S1/Input/stage sensor never made by leading edge of page during duplex pass source



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Make sure that paper is supported and loaded properly.
- 2. Make sure that the paper is free of debris and obstructions.
- 3. Switch OFF, then switch ON the machine, GP 10.
- 4. Check if the paper jam error occurs when using other trays.
- 5. Check the printed page count.
  - a. Enter the Diagnostics menu, and then touch Printer Setup.
  - b. If the page count is near 400K, then replace the duplex. For more information, see REP 80.6.
- 6. Check the duplex paper path for jammed paper, debris, and obstructions.
- 7. Check the duplex rollers for debris, wear, damage, contamination, and improper installation.
- Check the duplex linkage and belt for damage and improper installation. For more information, see REP 80.6.

# 374-233-00, 377-402-00, 377-405-00, 377-408-00, 377-411-00, 377-420-00 Sensor (input): Paper (duplex job) Failed to Clear Jam Service Check

**374-233-00** S1/Input/stage sensor never cleared by trailing edge of page during duplex passsource = tray 4

**377-402-00** S1/Input/stage sensor never cleared by trailing edge of page during duplex pass-source = MPF

**377-405-00** S1/Input/stage sensor never cleared by trailing edge of page during duplex pass-source=tray 1 RAP

**377-408-00** S1/Input/stage sensor never cleared by trailing edge of page during duplex pass-source = trav2

**377-411-00** S1/Input/stage sensor never cleared by trailing edge of page during duplex pass-source = tray 3

**377-420-00** S1/Input/stage sensor never cleared by trailing edge of page during duplex pass-source = unknown



- 1. Make sure that paper is supported and loaded properly.
- $2. \ \,$  Make sure that the paper is free of debris and obstructions.
- 3. witch OFF, then switch ON the machine, GP 10.
- 4. Check if the paper jam error occurs when using other trays.
- 5. Check the printed page count.
  - a. Enter the Diagnostics menu, and then touch **Printer Setup**.
  - b. If the page count is near 400K, then replace the duplex. For more information, see REP 80.6.
- 6. Check the duplex paper path for jammed paper, debris, and obstructions.
- 7. Check the duplex rollers for debris, wear, damage, contamination, and improper installation.
- Check the duplex linkage and belt for damage and improper installation. For more information, see REP 80.6.
- 9. Check the isolation roller for wear, damage, and contamination.

## 377-102-00, 377-109-00, 377-204-00 Sensor (fuser exit): Paper Failed to Arrive from Optional Tray Jam Service Check RAP

**377-102-00** Fuser exit sensor never made by leading edge of page. Source is tray 2

377-109-00 Fuser Exit Sensor late (Tray 3)

377-204-00 Fuser exit sensor never made by leading edge of page. Source is tray 4



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Make sure that paper is supported and loaded properly.
- 2. Make sure that the paper is free of debris and obstructions.
- 3. Switch OFF, then switch ON the machine, GP 10.
- 4. Check if the paper jam error occurs when using other trays.
- 5. If the paper jam error occurs when using optional trays (tray 2 to tray 4), then do the following:
  - a. Check the pick roller for wear, damage, contamination, and improper installation.
  - Check the separator pad or separator roller for wear, damage, contamination, and improper installation.
  - c. Check the paper path above the tray for debris and foreign object.
- 6. If the paper jam error occurs regardless of the source tray, then do the following:
  - a. Check the input sensor actuator for damage, and improper installation.
  - b. Make sure that the sensor (duplex and input) is functional. Do the following:
    - 1. Enter the Diagnostics Menu, GP 1.
    - 2. Touch Diagnostics > dC330 Component Control > Print Engine > Sensor Tests.
    - 3. Touch the appropriate test for the Sensor in question.
  - c. Make sure that the connections between the sensor (duplex and input) and the controller board are properly connected.
  - d. Check the sensor (duplex and input) for damage and improper installation. For more information, see REP 80.7.
- 7. If the paper jam error occurs regardless of the source tray, then do the following:
  - a. Identify the location of the leading edge of the paper.
  - b. If the leading edge of the paper did not reach the fuser, then check the imaging unit and transfer roller for damage and improper installation. For more information, see REP 90.1.
  - c. If the leading edge of the paper reached the fuser, then check the fuser for wear, damage, and improper installation. Fore more information, see REP 10.1.

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### 377-103-00, 377-113-00 Sensor (fuser exit): Paper failed to Clear Jam Service Check

377-103-00 Fuser Exit trailedge (MPF)

377-113-00 Fuser exit sensor never cleared by trailing edge of page- Source is tray 1



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Make sure that paper is supported and loaded properly.
- 2. Make sure that the paper is free of debris and obstructions.
- 3. Switch OFF, then switch ON the machine, GP 10.
- 4. Check if the paper jam error occurs when using other trays.
- 5. If the paper jam error occurs regardless of the source tray, then do the following:
  - a. Make sure that the fuser is functional. Do the following:
    - 1. Enter the Diagnostics Menu, GP 1.
    - 2. Touch Diagnostics > dC330 Component Control > Print Engine > Sensor Tests.
    - 3. Touch the appropriate test for the Sensor in question.
  - b. Make sure that the connections between the fuser and the controller board are properly connected.
  - c. Check the fuser for wear, damage, and improper installation. For more information, see REP 10.1
  - d. Check the fuser actuator for wear, damage, and improper installation. For more information, see REP 40.3.
  - e. Check the redrive for wear, damage, and improper mesh. For more information, see REP 80.10

### 377-105-00 Fuser Exit late (Tray 1) RAP

**377-105-00** Fuser Exit late (Tray 1)



- 1. Make sure that paper is supported and loaded properly.
- 2. Make sure that the paper is free of debris and obstructions.
- 3. Switch OFF, then switch ON the machine, GP 10.
- 4. Check if the paper jam error occurs when using other trays.
- 5. If the paper jam error occurs only when using tray 1, then do the following:
  - a. Check the pick roller for wear, damage, contamination, and improper installation.
  - b. Check the separator pad or separator roller for wear, damage, contamination, and improper installation.
- 6. If the paper jam error occurs regardless of the source tray, then do the following:
  - a. Identify the location of the leading edge of the paper.
  - b. If the leading edge of the paper did not reach the fuser, then check the imaging unit and transfer roller for damage and improper installation. For more information, see REP 90.1.
  - c. If the leading edge of the paper reached the fuser, then check the fuser for wear, damage, and improper installation. Fore more information, see REP 10.1

### 377-106-00 Fuser Exit Sensor Early (MPF) RAP

377-106-00 Fuser Exit Sensor Early (MPF)



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Make sure that paper is supported and loaded properly.
- 2. Make sure that the paper is free of debris and obstructions.
- 3. Switch OFF, then switch ON the machine, GP 10.
- 4. Check if the paper jam error occurs when using other trays.
- 5. If the paper jam error occurs only when using the MPF, then do the following:
  - a. Check the MPF pick roller and separator roller for wear, damage, and contamination.
  - b. Make sure that the MPF solenoid is functional. Do the following:
    - 1. Enter the Diagnostics Menu, GP 1.
    - 2. Touch Diagnostics > dC330 Component Control > Print Engine > Motor Tests.
    - 3. Touch the appropriate test for the Motor in question.
  - c. Check the MPF gearbox for wear, damage, and improper mesh. For more information, see REP 40.4.
- 6. If the paper jam error occurs regardless of the source tray, then do the following:
  - a. Identify the location of the leading edge of the paper.
  - b. If the leading edge of the paper did not reach the fuser, then check the imaging unit and transfer roller for damage and improper installation. For more information, see REP 90.1.
  - c. If the leading edge of the paper reached the fuser, then check the fuser for wear, damage, and improper installation. For more information, see REP 10.1.

# 377-108-00, 377-111-00, 377-205-00 Sensor (fuser exit): Paper Failed to Clear from Optional Tray Jam Service Check RAP

377-108-00 Fuser exit sensor never cleared by trailing edge of page. Source is tray 2

377-111-00 Fuser exit sensor never cleared by trailing edge of page. Source is tray 3

377-205-00 Fuser exit sensor never cleared by trailing edge of page. Source is tray 4



- 1. Make sure that paper is supported and loaded properly.
- 2. Make sure that the paper is free of debris and obstructions.
- 3. Switch OFF, then switch ON the machine, GP 10.
- 4. Check if the paper jam error occurs when using other trays.
- 5. If the paper jam error occurs when using optional trays (tray 2 to tray 4), then do the following:
  - a. Check the pick roller for wear, damage, contamination, and improper installation.
  - Check the separator pad or separator roller for wear, damage, contamination, and improper installation.
  - c. Check the paper path above the tray for debris and foreign object.
- 6. If the paper jam error occurs regardless of the source tray, then do the following:
  - a. Check the input sensor actuator for damage, and improper installation.
  - b. Make sure that the sensor (duplex and input) is functional. Do the following:
    - 1. Enter the Diagnostics Menu, GP 1.
    - 2. Touch Diagnostics > dC330 Component Control > Print Engine > Sensor Tests.
    - 3. Touch the appropriate test for the Sensor in question.
  - c. Make sure that the connections between the sensor (duplex and input) and the controller board are properly connected.
  - d. Check the sensor (duplex and input) for damage and improper installation. For more information, see REP 80.7.
- 7. If the paper jam error occurs regardless of the source tray, then do the following:
  - a. Identify the location of the leading edge of the paper.
  - b. If the leading edge of the paper did not reach the fuser, then check the imaging unit and transfer roller for damage and improper installation. For more information, see REP 90.1.
  - c. If the leading edge of the paper reached the fuser, then check the fuser for wear, damage, and improper installation. Fore more information, see REP 10.1.

## 377-112-00, 377-206-00, 377-207-00 Sensor (fuser exit): Static Jam Service

377-112-00 Fuser exit sensor covered at warmup

**377-206-00** Fuser exit sensor never made by page found over input sensor that triggered a flush action

377-207-00 Fuser exit sensor never cleared by trailing edge of page- Source is Unknown



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Turn off the printer.
- 2. Check the optional tray for improper installation.
- 3. Remove the optional tray, and then check the connectors on the printer and optional tray for damage and improper connection.
- 4. Reinstall the optional tray, and then turn on the printer.
- 5. Remove the tray insert.
- 6. Check the tray insert and its lift plate gears for damage and improper operation.
- 7. Make sure that the following motors are functional:
  - Motor (pick (tray (x))
  - Motor (pass-through (tray(x))

Do the following:

- a. Enter the Diagnostics Menu, GP 1.
- b. Touch Diagnostics > dC330 Component Control > Print Engine > Sensor Tests.
- c. Touch the appropriate test for the Sensor in question.
- 8. Make sure that the connections between the motors and the controller board are properly connected
- 9. Check the motors for damage, and improper installation.

### 377-209-00, 377-251-00, 377-254-00, 377-258-00, 377-262-00 Sensor (redrive): Paper (duplex job) Failed to Arrive Jam Service Check

377-209-00 Duplex park sensor never hit- Source is tray 4

377-251-00 Duplex entry/park sensor never made by leading edge of page- Source is MPF

**377-254-00** Duplex park sensor never made by leading edge of page- Source is tray 1

**377-258-00** Duplex park sensor never hit- Source is tray 2

377-262-00 Duplex park sensor never hit-Source is tray 3



- 1. Make sure that paper is supported and loaded properly.
- 2. Make sure that the paper is free of debris and obstructions.
- 3. Switch OFF, then switch ON the machine, GP 10.
- 4. Check if the paper jam error occurs when using other trays.
- 5. Make sure that the reverse solenoid is functional. Do the following:
  - a. Enter the Diagnostics Menu, GP 1.
  - b. Touch Diagnostics > dC330 Component Control > Print Engine > Motor Tests.
  - c. Touch the appropriate test for the Motor in question.
- 6. Check the reverse solenoid and its actuator for wear, damage, and improper operation. For more information, see REP 80.3.
- 7. Check the redrive for wear, damage, and improper mesh. For more information, see REP 80.10.
- 8. Check the printed page count.
  - a. Enter the Diagnostics menu, and then touch **Printer Setup**.
  - b. If the page count is near 400K, then replace the duplex. For more information, see REP 80.6.
- 9. Check the duplex paper path for jammed paper, debris, and obstructions.
- 10. Check the duplex rollers for debris, wear, damage, contamination, and improper installation.
- 11. Check the duplex linkage and belt for damage and improper installation. For more information, see REP 80.6.

# 377-210-00, 377-252-00, 377-256-00, 377-260-00, 377-264-00 Sensor (redrive): Paper (duplex job) Failed to Clear Jam Service Check

377-210-00 Duplex park sensor never cleared by trailing edge of page- Source is tray 4

377-252-00 Duplex entry/park sensor never cleared by trailing edge of page- Source is tray MPF

377-256-00 Duplex park sensor never cleared by trailing edge of page- Source is tray 1

**377-260-00** Duplex park sensor never cleared by trailing edge of page- Source is tray 2

377-264-00 Duplex park sensor never cleared by trailing edge of page- Source is tray 3



- 1. Make sure that paper is supported and loaded properly.
- 2. Make sure that the paper is free of debris and obstructions.
- 3. Switch OFF, then switch ON the machine, GP 10.
- 4. Check if the paper jam error occurs when using other trays.
- 5. If the paper jam error occurs regardless of the source tray, then do the following:
  - a. Check the input sensor actuator for damage, and improper installation.
  - b. Make sure that the sensor (duplex and input) is functional. Do the following:
    - 1. Enter the Diagnostics Menu, GP 1.
    - 2. Touch Diagnostics > dC330 Component Control > Print Engine > Sensor Tests.
    - 3. Touch the appropriate test for the Sensor in question.
  - c. Make sure that the connections between the sensor (duplex and input) and the controller board are properly connected.
  - d. Check the sensor (duplex and input) for damage and improper installation. For more information, see REP 80.7.
- 6. Check the printed page count.
  - a. Enter the Diagnostics menu, and then touch Printer Setup.
  - b. If the page count is near 400K, then replace the duplex. For more information, see REP 80.6.
- 7. Check the duplex paper path for jammed paper, debris, and obstructions.
- 8. Check the duplex rollers for debris, wear, damage, contamination, and improper installation.
- Check the duplex linkage and belt for damage and improper installation. For more information, see REP 80.6.
- 10. Check the isolation roller for wear, damage, and contamination.

# 391-100-00, 391-102-00, 391-104-00, 391-105-00, 391-332-01 to 391-332-06, 391-921-00 to 391-921-08, 391-940-00 Imaging Unit (K) Error Service Check

**391-100-00** Black IU or Photoconductor Unsupported Error: Unsupported memory map version in smartchip

391-102-00 Black IU or Photoconductor Unsupported Error: Fail OEM check

391-104-00 Black IU or Photoconductor Unsupported Error: Supply is on the revoked list

**391-105-00** Black IU or Photoconductor Unsupported Error: IU is MICR, and this FW release does not support MICR

391-332-01 Fail to replenish toner into the IU-Z\_CODE\_CTLS\_STARVE\_TNR\_LOW

391-332-02 Fail to replenish toner into the IU- Z\_CODE\_SUPPLY\_IU\_CTLS\_NO\_TONER\_ADDED

**391-332-03** Bad CTLS reading during printing (this was a 31-21 error on Denali/Pirate)- Z\_CODE\_CTLS\_BAD\_CONTACTS\_3

**391-332-04** Bad CTLS reading during printing (this was a 31-21 error on Denali/Pirate)- Z\_CODE\_CTLS\_BAD\_CONTACTS\_2

**391-332-05** Bad CTLS reading during printing (this was a 31-21 error on Denali/Pirate)- Z\_CODE\_CTLS BAD CONTACTS 1

**391-332-06** A bad cal cap on the system card (this was a 31-25 error on Denali/Pirate)- Z\_CODE\_CTLS\_CARD\_FAILURE

**391-921-00** Black IU or Photoconductor smartchip or sensor common problem

**391-921-01** Black IU or Photoconductor smartchip or sensor commo problem - Missing

**391-921-02** Black IU or Photoconductor smartchip or sensor commo problem - Missing Mux

391-921-03 Black IU or Photoconductor smartchip or sensor common problem - Read Failure

391-921-04 Black IU or Photoconductor smartchip or sensor commo problem - Write Failure

**391-921-05** Black IU or Photoconductor smartchip or sensor common problem - Device Info Read Fail

**391-921-06** Black IU or Photoconductor smartchip or sensor common problem - Authentication error

391-921-07 Black IU or Photoconductor smartchip or sensor commo problem - Read Failure

**391-921-08** Black IU or Photoconductor smartchip or sensor common problem - Data Integrity error

**391-940-00** Non-genuine supply - Black imaging unit or kit, or photoconductor



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

1. Check if the printer is using a genuine and supported Lexmark imaging unit or imaging kit.

**Note:** If the printer is using a third-party imaging unit or imaging kit, then refer the users to the supplier.

- 2. Check the imaging unit or imaging kit for damage.
- 3. Make sure that the imaging unit or imaging kit is free of toner buildup. Using an approved toner vacuum cleaner, completely clean the supplies.
- 4. When installing a genuine after market supply for the first time and a supplies message error occurs, install the latest firmware version available for your printer.
- 5. Clean the toner cartridge contacts for any toner contamination.
- 6. Check the toner cartridge contacts for damage.
- Make sure that the connections between the controller board and the toner cartridge are properly connected.

#### 391-114-00, 391-124-00 Toner Meter Card Error Service Check

**391-114-00** Magnet / Hall Effect sensor error in cartridge A1402Z = P - Invalid Angle detected between magnets during

**391-124-00** Magnet / Hall Effect sensor error in cartridge Z = Z - Black bottle barrel shutter error



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Make sure that the toner meter card is properly installed.
- 2. Check the sensor (toner meter) for contamination.
- Make sure that the printer is free of toner buildup. Using an approved toner vacuum cleaner, completely clean the supplies.
- 4. Make sure that the sensor (toner meter) is functional. Do the following:
  - a. Enter the Diagnostics Menu, GP 1.
  - b. Touch Diagnostics > dC330 Component Control > Print Engine > Sensor Tests.
  - c. Touch the appropriate test for the Sensor in question.

391-125-00, 391-322-00, 393-100-00, 393-102-00 to 393-105-00, 393-108-00, 393-112-00, 393-116-00, 393-120-00, 393-124-00, 393-923-00 to 393-923-07, 393-923-09, 393-926-00 Toner Cartridge (K) Error Service Check

391-125-00 Non-genuine supply - Black cartridge

391-322-00 Black IU or Photoconductor smartchip or sensor commo problem - Missing Mux

393-100-00 Black Toner Bottle Unsupported Error: Unsupported memory map version in smartchip

393-102-00 Black Toner Bottle Unsupported Error: Fail OEM check

393-103-00 Black Toner Bottle Unsupported Error: Fail SWE marriage check

393-104-00 Black Toner Bottle Unsupported Error: Supply is on the revoked list

 $\textbf{393-105-00} \ \textbf{Black Toner Bottle Unsupported Error: Bottle is MICR, and this FW release does not support MICR$ 

393-108-00 Barrel shutter sensor failure

**393-112-00** Black Toner Bottle Unsupported Error: A Used, Metered, Aftermarket cartridge was installed into a printer with Service Plan: Learning and Region Learning

**393-116-00** Black Toner Bottle Unsupported Error: A Metered, Aftermarket cartridge was installed into a printer with Service Plan Sold and Region Learning or Worldwide

**393-120-00** Black Toner Bottle Unsupported Error: A Metered, Aftermarket cartridge was installed into a printer with Service Plan Sold and Region X (not Learning and not Worldwide)

**393-124-00** Black Toner Bottle Unsupported Error: A Used, Metered, Aftermarket cartridge was installed into a printer with Service Plan Learning and Region X (not Learning and not Worldwide)

**393-923-00** Black Toner Bottle smartchip or sensor commo problem

393-923-01 Black Toner Bottle smartchip or sensor common problem - Missing

393-923-02 Black Toner Bottle smartchip or sensor common problem - Missing Mux

393-923-03 Black Toner Bottle smartchip or sensor common problem - Read Failure

**393-923-04** Black Toner Bottle smartchip or sensor common problem - Write Failure

393-923-05 Black Toner Bottle smartchip or sensor common problem - Device Info Read Fail

393-923-06 Black Toner Bottle smartchip or sensor common problem - Authentication error

 $\textbf{393-923-07} \ \textbf{Black Toner Bottle smartchip or sensor common problem - Read Failure}$ 

393-923-09 Fail to replenish due to bad auger gear and bottle gear mesh

**393-926-00** Toner CRUM Data integrity Fail K



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

1. Check if the printer is using a genuine and supported Xerox toner cartridge.

**Note:** If the printer is using a third-party toner cartridge, then refer the users to the supplier.

- 2. Make sure that the cartridge region matches the printer region.
- 3. Make sure that the toner cartridge is not damage and not leaking.
- 4. Make sure that the toner cartridge is free of toner buildup. Using an approved toner vacuum cleaner, completely clean the supplies.
- 5. When installing a genuine after market supply for the first time and a supplies message error occurs, install the latest firmware version available for your printer.
- 6. Clean the toner cartridge contacts for any toner contamination.
- 7. Check the toner cartridge contacts for damage.
- 8. Make sure that the connections between the controller board and the toner cartridge are properly connected.

## 391-940-00 Non-genuine Supply - Black Imaging Unit or Kit, or Photoconductor RAP

391-940-00 Non-genuine supply - Black imaging unit or kit, or photoconductor



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Install a genuine and supported Lexmark black imaging unit.

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# 393-425-00, 393-428-00, 393-431-00, 393-912-00 K Toner Cartridge Near Empty RAP

393-425-00 K Toner Cartridge Near Empty

**393-428-00** Replace K Toner cartridge – quanta – hard stop

**393-431-00** K Toner Cartridge out of Quanta (end of life)

393-912-00 K Toner Cartridge Empty



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Install a new Toner Cartridge.

### 393-430-00 K Toner Cartridge out of Quanta (very low) RAP

393-430-00 K Toner Cartridge out of Quanta (very low) RAP



WARNING: Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Touch **Continue** to clear the message.

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### 395–001–00 to 395–009–00 DC Software Upgrade Fail RAP

395-001-00 Software Upgrade Failure: DC software failed to upgrade.

395-002-00 Software Upgrade Failure: DC Application RAP.

395-008-00 Software Upgrade Failure : DC OS RAP

395-009-00 Software Upgrade Failure: DC CIPS RAP



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



#### **CAUTION:**

- 1. Verify the correct DLM for the device is being used.
- Obtain the correct Launch DLM Recovery Patch (LDRP) for the device being upgraded from GSN Library 16910 or Library 500 for Approved Service Providers
- Verify all connections on the controller PWB and to the UI, drive PWB, and 500 GB Hard Drive if
  installed, are all seated properly and no damage to harnesses or connectors exists. Repair or replace as required.
- 2. Perform a Software Upgrade, GP 4, using the FORCED\_ALTBOOT method.
- 3. If the fault persists install a new controller PWB, PL 3.05 item 1.

# 395-300-00 to 395-304-00, 395-318-00, 395-319-00, 395-321-00 to 395-324-00 Software Upgrade Failure (Hardware) RAP

395-300-00 Software Upgrade Failure : Incompatible Product.

**395-301-00** Software Upgrade Failure: Incompatible Hardware.

**395-302-00** Software Upgrade Failure: Incompatible Firmware.

**395-303-00** Software Upgrade Failure: DLM Downgrade.

395-304-00 Software Upgrade Failure: DLM Sidegrade.

395-318-00 Software Upgrade Failure: USB pendrive not detected.

**395-319-00** Software Upgrade Failure: USB pendrive not detected 2nd time.

**395-321-00** Software Upgrade Failure: Failure to revert flash contents.

395-322-00 USB drive filesystem unsupported.

395-323-00 Multiple USB drives detected.

395-324-00 Disk is blank or cannot be mounted.



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



#### **CAUTION:**

- 1. Verify the correct DLM for the device is being used.
- Obtain the correct Launch DLM Recovery Patch (LDRP) for the device being upgraded from GSN Library 16910 or Library 500 for Approved Service Providers
- Verify all connections on the controller PWB and to the UI, drive PWB, and 500 GB Hard Drive if
  installed, are all seated properly and no damage to harnesses or connectors exists. Repair or replace as required.
- If the 500+GB Hard Disk, PL 25.05 item 2 is installed, check the connections at the controller PWB are firmly seated and no damage to the harness exists. Repair or install a new 500+GB Hard Disk as required.
- 3. If a USB drive is used, verify the drive:
  - a. Is formatted in FAT32 only.
  - b. The USB drive mounts and is readable in another machine or PC.
  - c. Only one USB device is attached to the machine during the software upgrade.
- 4. Perform a Software Upgrade, GP 4, using the FORCED\_ALTBOOT method.
- 5. If the fault is 395–324–00, perform software upgrade GP 4, using the Special Alboot method.
- 6. If the fault persists install a new controller PWB, PL 3.05 item 1.

# 395–171–00 to 395–174–00 Software Upgrade Failure (Memory) RAP

395-171-00 Software Upgrade Failure: Insufficient RAM.

395–172–00 Software Upgrade Failure: Insufficient memory.

395-173-00 Software Upgrade Failure: Failed to decrypt DLM.

**395–174–00** Software Upgrade Failure: Failed to run Recovery software.



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Switch off, then switch on the machine, GP 10.
- 2. Perform Software Upgrade, GP 4 using the FORCED\_ALTBOOT method.
- 3. If the fault persists, perform Software Upgrade, GP 4 using the FORCED\_ALTBOOT method with DISABLE\_DATA\_BACKUP flag.

#### 395-313-00 to 395-313-03 DLM Installation Fail RAP

395-313-00 Differential DLM Installation Failure: Launch DLM Missing.

395-313-01 Differential DLM Installation Failure: Launch DLM Corrupt.

395-313-02 Differential DLM Installation Failure: Launch DLM Mismatch.

395-313-03 Launch DLM Installation Failure.



**CAUTION:** Obtain the correct Launch DLM Recovery Patch (LDRP) for the device being upgraded from GSN Library 16910 or Library 500 for Approved Service Providers

- 1. Verify the correct Recovery Patch file is being used for the machine.
- 2. Reinstall the Recovery Patch file.

### OF1 Machine Not Ready RAP

**B415 Wiring Diagrams** 

**Machine Not Ready**, is defined as any condition where the machine is not capable of performing its basic tasks (Copy or Print). **Not Ready**, ranges from a machine that is totally inert, without any indication of power, to a machine that appears ready but does not respond to either Control Panel commands or network input.

#### **Initial Actions**

- Switch off the machine, GP 10.
- Check all connections at and between the LVPS, PL 1.05 item 1 and Controller PWB, PL 3.05 item
   1.

#### Procedure

The first step is to categorize the problem. Decide which of the following condition best describes the problem:

- Dead Machine
- Boots up; does not respond to Control Panel
- Boots up; does not print (or other Network problem)

#### Dead Machine

- 1. If the machine shows no sign of power (fans or motors running, backlight on UI display, LEDs on Control Panel), check for AC line voltage at the customer supply outlet. Refer to, OF3.
- If AC voltage is measured within specifications, GP 17, measure the voltage at the connector on the LVPS.
- 3. If the voltage at each connector is within specification, measure the voltage at JPWR2, and JPWR1 on the Controller PWB.

Install new components as required:

- 1. LVPS, PL 1.05 item 1.
- 2. Controller PWB. PL 3.05 item 1.

#### Boots up; does not respond to Control Panel

Perform the following:

- 1. Switch off, then switch on the machine, GP 10
- 2. Perform RAP,OF2.
- 3. Install new components as required:
  - Control panel display, PL 2.05 item 1.
  - Controller PWB, PL 3.05 item 1.

#### Boots up; does not print (or other Network problem)

Perform RAP, OF11, Job Prints Incorrectly RAP.

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#### OF2 UI Touch Screen Failure RAP

#### **B415 Wiring Diagrams**

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

#### Procedure



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Switch OFF, then switch ON the machine, GP 10.
- 2. Check the control panel cable and connector, cntrl pnl FFC, PL 2.10 item 5, are fully seated at the control panel and the controller PWB. Verify no damage or severe creasing to the FFC exists and the connector-ends are not frayed. Install a new components as required:
  - a. Control panel cable

α.

- If no problems are found, install new components as required:
  - Control panel cable, PL 2.05 item 4.
  - Controller PWB, PL 3.05 item 1.
  - Control panel, PL 2.05 item 2.

#### **OF3 AC Power RAP**

**B415 Wiring Diagrams** 

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

#### Procedure



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause the death or injury. Moving components can cause the injury.



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

- 1. Switch off the machine, GP 10.
- B415: Measure the voltage connecting the LVPS, PL 1.05 item 1 to the controller PWB, PL 3.05 item 1

The voltage measured is within electrical power requirements, GP 11.

/ 1

Disconnect the power cord from the outlet. Check the AC mains (line) voltage at the customers power outlet.

The voltage measured is within electrical power requirements, GP 17.

N

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

Verify the power cord is not frayed or damaged and is fully seated into the machine socket.

The main power cord is good.

Y N

Install a new power cord.

Install a new LVPS, PL 1.05 item 1.

- 1. Switch ON the machine, GP 10.
- 2. Measure the voltage connecting the LVPS, PL 1.05 item 1 to the controller PWB, PL 3.05 item 1

The AC power supply is within specification, GP 17.

N

Install a new LVPS, PL 1.05 item 1.

Install a new controller PWB, PL 3.05 item 1.

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#### OF4 +5VDC Power Fault RAP

**B415 Wiring Diagrams** 

#### Procedure



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



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

Check the voltage between the LVPS pin 1 and ground.

#### +5VDC is measured.

1

Check the voltage between pin 1 and pin 4 on the LVPS, PL 1.05 item 1.

The AC power supply is within specification, GP 17.

Y N

Perform the OF3 AC Power RAP.

Switch off the machine, GP 10. Disconnect the harness from the LVPS. Wait 15 seconds, then switch on the machine, GP 10. Check the voltage between the LVPS PL 1.05 item 1, pin 1 and ground.

#### +5VDC is measured.

Y N

Install a new LVPS, PL 1.05 item 1.

Check the +5VDC circuit for a short circuit to frame.

Check the wiring of the suspect component for an open circuit or poor contact.

#### OF5 +24VDC Power Fault RAP

**B415 Wiring Diagrams** 

#### Procedure



**WARNING:** Switch off the electricity to the machine, **GP 10.** Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



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

Check the voltage between the LVPS pin 1 and ground.

#### +24VDC is measured.

N

Check the voltage between pin 1 and pin 4 on the LVPS.

The AC power supply is within specification, GP 17.

/ N

Perform the OF3 AC Power RAP.

Switch off the machine, GP 10 . Disconnect the harness from the LVPS. Wait 15 seconds, then switch on the machine, GP 10 . Check the voltage between the LVPS pin 1 and ground.

+24VDC is measured.

N

Install a new LVPS, PL 1.05 item 1.

Check the +24VDC circuit for a short circuit to frame.

Check the wiring of the suspect component for an open circuit or poor contact.

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#### OF6 Power On Self Test RAP

Power on Self Test (POST) runs each time the machine is powered On. POST checks the function of key subsystems on the SBC PWB before starting the operating system. As POST executes, progress codes appear on the SBC PWB 7-segment display.

This procedure uses POST to help diagnose SBC PWB faults preventing the machine from powering up correctly. On power up, the 7-segment displays progress codes for short periods of time dependent on how long each test takes. Following POST testing, normal operation is indicated by a flashing decimal point. If any other code remains after testing, this may point to a problem component. Refer to the Table 1 for POST codes and corresponding service procedure.

**Note:** When reading the codes shown on the seven segment display, be sure to read them looking straight at them while sitting, kneeling or squatting next to the machine. Do not attempt to read them "upside down" while bending over.

**Note:** If a fault occurs during POST, it may be helpful to refer to the OF1 for additional trouble shooting aides. The OF1 lists possible service actions that can be performed based on the state of various LEDs on the SBC PWB.

The Power On Self Test consists of three segments:



**CAUTION:** The serial number is stored and synchronized between the Controller PWB, PL 3.05 item 1 and Drive PWB, PL 1.05 item 2. Always install a new Controller PWB and Drive PWB individually. Power on the machine to allow the serial number to synchronize before proceeding to replace a second listed component. Unrecoverable NVM corruption or billing data loss results if listed parts are installed together. Refer to dC132 Serial Number Synchronize and GP 27 Billing Impression Mode Verification.

- 1. Hardware POST: The 7-segment display steps through the following sequence: 8->1->2->3->4->0->6->7->9->u (only if HDD not available). A problem is indicated if any additional codes are displayed, or if the cycle stops on one of the codes.
- 2. OS Loading: u Displayed while the operating system is initializing.
- 3. Subsystem Synchronization: The seven segment display cycles through the following letters in sequence: blank->A->b->C->d->e->E->F. Each of these codes represents one of the CCS software "platforms". The display steps through all CCS software platforms and clears them as they become available. Any code left remaining is a platform that did not complete its initialization and synchronization.



**CAUTION:** If a new Controller PWB, PL 3.05 item 1, is installed perform an AltBoot, GP 4, at the first power-up.

#### Procedure

**Note:** If boot failure occurs after new components are installed, make sure the new components are compatible with the machine and all connectors are secure.

**Note:** To power down the machine, press the UI Power Button and then respond to the on-screen prompts. Wait until the Power Button LED turns off, then switch off the machine, GP 10.

- 1. Locate the SBC PWB 7-segment display, Figure 1, then cycle system power.
- 2. Observe activity on the 7-segment display and compare it with the expected display sequence. A failure is indicated by additional codes being displayed during the test, or by stopping on one or more codes. Pay careful attention to the codes as they display, since failure codes may not persist and may clear if the test is able to proceed. Follow the indicated service action.



Figure 1 7-Segment display location

Refer to Table 1 for an overview of the tests performed and possible resolutions for POST failures. Table 1 Power On Self-Tests

POST Code Name	Code Description	SBC LED Code	Deci- mal Point	Service Action if Fault Persists
7-segment dis- play test	BIOS starts. No stop on segment failure.	8	Off	Install a new Controller PWB
System Memory Initialization check	Initialize DDR3 Memory and stop on failure.	1	Off	Install a new Controller PWB
BIOS flash memory Initiali- zation check	Testing BIOS private NVM area in BIOS flash chip	3	Off	Install a new Controller PWB
Initialize Real- time Clock	Initialize RTC and stop on failure	4	Off	Install a new Controller PWB
Initialize the Video	Initialize Video (IGD processor h/w) and stop on failure	0	Off	Install a new Controller PWB

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POST Code Name	Code Description	SBC LED Code	Deci- mal Point	Service Action if Fault Persists
NVRAM corrup- tion in EFI DXE drivers area	n in EFI DXE tected: reload BIOS		Off	Perform Special Altboot or PWS Altboot, GP 4 If the fault persists, Install a new Controller PWB.
Boot to OS	Boot to OS	9	Off	Perform Special Altboot or PWS Altboot, GP 4 If the fault persists, Install a new Controlle PWB.
Trusted Boot Failed	Secure Boot or the OS Boot Manager failed ver- ification for Chain of Trust.	U	Off	Perform Special Altboot or PWS Altboot, GP 4 If the fault persists, Install a new Controlle PWB.
Kernel starting user space	3		heart beat @ 1 puls- e/sec	Perform Special Altboot or PWS Altboot, GP 4 If the fault persists, Install a new Controlle PWB.
TPM key read	ey read Read encryption key(s) from the TPM and stop on failure		heart beat @ 1 puls- e/sec	Perform Special Altboot or PWS Altboot, GP 4 If the fault persists, Install a new Controlle PWB.
HHD/SSD boot	HHD/SSD boot Boot from HDD/SSD and stop on failure		heart beat @ 1 puls- e/sec	Perform Special Altboot or PWS Altboot, GP 4 If the fault persists, Install a new Controlle PWB.
FPGA check  Initialize FPGA FPGA load failure disables IOT communications (303–315), IIT communications (362–310), and disables the Ethernet port (316–501)		2	heart beat @ 1 puls- e/sec	Refer to 303-315-00, 305- 103-00, 316-501-00 RAPsPer- form Special Altboot or PWS Altboot, GP 4 If the fault persists, Install a new Controlle PWB.
Ready mode	Ready mode None, no faults detected		heart beat @ 1 puls- e/sec	None, no fault detected

After Application start the 7-segment display cycles around displaying this set of codes suppressing the codes of platforms that are fully synchronized with the system. Any code left displayed after power on indicates this event has not been detected in the software and is a probable software issue. Refer to Table 2.

Table 2 Machine Level Self-Test Codes

POST Code Name	Code De- scription	SBC LED cod- e	Deci- mal point	Service Ac- tion if Fault Persists	Comments
UI plat- form avail- ability	UI platform not available	A	heart- beat @ 1 pulse/ sec	Check Controller PWB to UI cable, PL 2.05 item 4connection, Reload software: perform PWS Altboot with Disable_Data_Backup, Install a new Control Panel Display, 7-inch, PL 2.05 item 2 Install a new Controller PWB, PL 3.05 item 1	'A' code clears when UI apps communication is established. The system auto-reboots if 'A' is not cleared.
IIT comms establish- ed	IIT comms not established	b	heart- beat @ 1 pulse/ sec	Check Fault History, dC122 for any 362–xxx fault codes. Follow RAPs as applicable.	'b' code clears when IIT communication is established. 'b' code does not prevent bootup.
NC plat- form avail- ability	NC plat- form not available	С	heart- beat @ 1 pulse/ sec	Reload soft- ware: perform PWS Altboot with Disable_ Data_Backup, GP 4 Install a new Controller PWB, PL 3.05 item 1	'C' code clears when network controller app completes start- up. System auto-reboots if 'C' is not cleared.
Dc plat- form avail- ability	Dc platform not available	d	heart- beat @ 1 pulse/ sec	Reload soft- ware: perform PWS Altboot with Disable_ Data_Backup, GP 4	'd' code clears when DC app completes startup. 'd' code does not prevent bootup.
IOT comms es- tablished	IOT comms not established	E	heart- beat @ 1 pulse/ sec	Check Fault History, dC122for any IOT fault	'E' code clears when IOT communications are established. 'E' does not prevent bootup.

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POST Code Name	Code De- scription	SBC LED cod- e	Deci- mal point	Service Ac- tion if Fault Persists	Comments
				codes. Follow RAPs as applicable.	
Fax comms establish- ed	Fax comms not established	F	heart- beat @ 1 pulse/ sec	Perform OF12 Fax Entry RAP	'F' code clears when Fax app is available. 'F' code does not prevent bootup.
Entry to Deep Sleep	OS sus- pending drivers, en- tering Deep Sleep	L	heart- beat → Off	Reload soft- ware (Alt- boot), GP 4 Install a new Controller PWB, PL 3.05 item 1	On system sleep entry the OS puts up an 'L' briefly while it suspends drivers, then it puts an 'r' when in deep sleep (suspend to memory/S3 mode).
Semi- conscious	Running in semi-con- scious mode	t	heart- beat @ 1 pulse/ sec	None, for diagnostic information only	When leaving deep sleep (suspend to memory/S3 mode), the OS POST display will transition from 'H' to 't'. From semi-conscious the machine will either wake up fully and the OS will blank the POST display, or the machine will go back to deep sleep ( the OS POST display shall transition from 'L' to 'r')
Exit from deep sleep	Waking up: OS Resum- ing drivers	Н	Off → heart-beat	Reload soft- ware (Alt- boot), GP 4 Install a new Controller PWB, PL 3.05 item 1	When leaving deep sleep, the OS POST display will transition from 'H' to 't'. From semi-conscious the machine either wake up fully and the OS will blank the POST display, or the machine go back to deep sleep (the OS POST display will transition from 'L' to 'r')
Deep sleep (suspend to memo- ry/S3 mode)	Resting in deep sleep	Bla- nk	Off		Machine is in sleep mode (maximum power saving mode)

POST Code Name	Code De- scription	SBC LED cod- e	Deci- mal point	Service Ac- tion if Fault Persists	Comments
System Entropy Health check	Checks the processor DRNG hardware	j	Off	Reload soft- ware (Special Altboot), GP 4 Install a new Controller PWB, PL 3.05 item 1	
Rolling Reset	A rolling re- set condi- tion has occurred, and System startup has been halted to prevent additional reboots	n	Off	Use the accompying POST codes to determine cause of reboot	

Revised Update 2 Status Indicator RAPs

# **OF7 USB Operation RAP**

Use this RAP if a USB connected device fails to communicate with the machine.

## **Initial Actions**

- Print a configuration report, GP 14.
- Connect USB device to one of the two USB ports on the machine.

#### Procedure

If the device is not detected, perform the following procedure:

- 1 FWS USB Device Enabled:
  - a. Open a web browser.
  - b. Enter the machine IP address in the browser address line to enter EWS.
  - c. Click Admin, then login in as admin.
  - d. Click; Properties, on the left menu click Connectivity > Setup.
  - e. Scroll down to USB Setting and verify Port Management (A and B) is checked.
  - f. Insert the USB drive in the UI port. The screen for the USB options should appear on the UI control panel.
  - g. Remove the USB drive, then insert the same USB drive in the rear USB port. The same screen should appear on the UI control panel.
  - h. If no response to either or both ports from the USB drive insertion, use a known good USB drive, then repeat Steps **f.** and **g**..
  - i. If the same result, Upgrade the Software, GP 4, using a FORCED\_ALTBOOT method.



**CAUTION:** Carefully read the procedure to understand the tags to either wipe user setting or retain user settings. Notify the customer that if both USB ports are not fuctioning, use settings may be lost.

2. Repeat Steps a. through e. above.

If either USB port is not functional:

- a. Reseat the UI control panel harness on the controller PWB and at the UI control panel.
- b. Repeat Steps 1a. through 1c. If either port continues not functioning, install new components in order:

c.



**CAUTION:** Restart the machine after each new component installation before installing the next component in the list.

- 1. Controller PWB, PL 3.05 item 1.
- 2. Control panel display, PL 2.05 item 2.
- 3. Control panel harness, PL 2.05 item 1.

# **OF8 Network Printing Problems RAP**

This Procedure is provided to help identify and diagnose network printing problems.

## **Initial Actions**

- · Ensure the machine is online.
- Ensure that no IOT faults exist that prevent the IOT from functioning. That is, copies can be made, or prints can be printed from the UI.

## Determine the following:

- Are any jobs printing on the printer?
- Is the problem related to one workstation?
- Is the problem related to one job?
- Have any changes been made to the network prior to a printing problem?
- Was a backup log of network configuration data created? If so, was it last created by a CSE or the customer/SA?

If there are multiple protocols enabled on the printer, and the problems are ONLY occurring with one network protocol, go to the procedure appropriate for that protocol:

- Switch OFF, then switch ON the machine, GP 10.
- TCP/IP: OF9. TCP/IP Checkout RAP.

#### **Procedure**

No printing occurs (jobs won't print, can't see printer, or can't connect to printer)

If, instead of job printing normally, there is a literal printing of the PDL (many pages of code, or the job prints, but looks wrong fonts, missing fonts, other image quality problems), go to the OF10.

The problem occurs in all print jobs from all clients.

' !

The problem occurs in a specific job from all clients.

N

The problem occurs in all jobs from a specific client or group of clients.

,... [-

If the problem is with a specific job from a specific client, the problem is likely with the client; either not connected to the network, wrong or old driver, bad application files or a hardware failure in the client.

If no printing can be done from a specific client or group, while other clients or group function normally, the likely cause is a problem in the customer's network.

If the problem is specific to a single application or group of applications, ensure that current drivers are loaded.

If the problem occurs in only one job, go to the OF10.

Check that the printer is physically connected to the network cable and that the cable/connections are OK. Disconnect and reseat the cable at both ends. Check to see if the problem is corrected.

The fault persists.

Ν

Υ

Return to SCP 1.

Go to GP 14 (Network Printing Simulation) and send a print job.

An acceptable print is produced:

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## Y N

- · verify machine settings.
- reload system software, GP 9.
- If the fault persists, install a new, Controller PWB PL 3.05 item 1.

Print out a Configuration Report, GP 14. Review the, TCP/IP, and Microsoft Networking (NETBIOS) settings.

#### At least one networking protocol is enabled.

#### Υ

The printer is not installed properly. Inform the customer/system administrator that the printer needs to be installed and setup for the appropriate networking protocol.

Enter Diagnostics, GP 1, then go to dC312. Check for a selectable protocol (not grayed out).

## There is at least one selectable protocol.

#### Υ

Switch OFF, then switch ON the machine, GP 10. When machine is ready, reenter Diagnostics, GP 1, the select dC312 again. Check for a selectable protocol (not grayed out).

## There is at least one selectable protocol.

Y 1

Open software update, GP 4, then perform the Regular AltBoot procedure.

If the fault persists, return to the start of this procedure.

Select Start. Observe the test results.

#### The test passed.

#### N

Enter Diagnostics, GP 1, then go to dC312. Check for a selectable protocol (not grayed out).

#### The test passed.

Y N

Perform the following:

- Ask the system administrator to test the network port.
- Open software update, GP 4, then perform the Regular AltBoot procedure.
- Install a new Ethernet cable from the machine to the source connector.
- Check fault history for faults related to networking, then perform the RAP associated with any faults listed.
- TCP/IP: OF9, TCP/IP Checkout RAP
- If the fault persists, install a new Controller PWB, PL 3.05.

Verify that the problem is corrected. If the problem continues, go to GP 4 and perform the Regular AltBoot procedure.



**CAUTION:** The AltBoot procedure in Software Upgrade, GP 4, will delete all stored data on the System Disk Drive, including E-mail addresses, Xerox Standard Accounting data, and network configuration information. **ALWAYS** backup the machine, GP 22, if possible, before performing AltBoot. If the machine failure is such that cloning is not possible, ensure that the customer is aware of the data loss.

Reload software via AltBoot, GP 4.

#### The problem continues.

/ N

Return to SCP 1.

Select the most appropriate from the following:

• Jobs Won't Print, Can't See Printer, Can't Connect to Printer

- TCP/IP: OF9, TCP/IP Checkout RAP
- A particular job isn't printing, go to the Problem Printing Job RAP, OF10
- Instead of job printing normally, there is a literal printing of the PDL (many pages of cryptic code) - Go to the OF10
- Job prints, but looks wrong. Wrong fonts, missing fonts, other image quality problems Go to the OF11

Revised Update 2 Status Indicator RAPs

## OF9 TCP/IP Checkout RAP

Use this RAP if the printer is enabled for TCP/IP protocol, but there are problems printing to it.

## **Initial Actions**

- Perform OF8, Network Printing Problems RAP.
- It is assumed that before entering here that the IOT is known to be OK.
- Ensure that the printer is properly configured for the TCP/IP Network. Verify with the system administrator that the following printer settings are correct:
  - Printer IP address
  - Subnet mask
  - Broadcast Address
  - Default Gateway
- For Solaris 2.5 and above, the key operator or system administrator must have root privilege to install the printer.
- For SunOs, have the system administrator ensure that the /etc/printcap file is properly configured.
- Switch OFF, then switch ON the machine, GP 10.

## **Procedure**

Determine if problem is occurring on multiple workstations.

Only one workstation is unable to print (answer no if unsure)

/ N

Print a Configuration Report, GP 14. Review the TCP/IP settings.

TCP/IP is enabled.

Y N

Inform the customer's system administrator that the printer needs TCP/IP added.

Enter Diagnostics, GP 1. Select dC312, then check if TCP/IP is selectable.

TCP/IP is selectable (not grayed out).

ΥI

Switch OFF, then switch ON the machine, GP 10. Reenter Diagnostics, GP 1. When machine is ready, select dC312 again. Check if TCP/IP is selectable.

TCP/IP is selectable (not grayed out).

Y N

Go to GP 4, then perform the Regular AltBoot procedure.

If the fault peersists, return to the start of this procedure.

Enter Diagnostics, GP 1. Select dC312, select TCP/IP and select Start. Observe the test results.

The test passed.

Y N

In Echo Test, dC312, select Internal TCP/IP and select Start.

Observe the test results.

The test passed.

В

В

Perform the following:

- There may be a problem with the network port. Ask the system administrator to test the port.
- If the fault persists, request the customer's system administrator install a new Ethernet cable.
- Go to GP 4 and perform the Regular AltBoot procedure.
- If the fault persists, install a new Controller PWB, PL 3.05.

Request the system administrator install the printer.

• Ensure that all configurations and IP addresses are valid.

Request the system administrator install the printer.

• Ensure that all configurations and IP addresses are valid.

#### The problem occurs only on one job

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Have the customer's system administrator Ping the IP address of the printer from the affected workstation.

Observe results.

The workstation can ping the printer successfully.

I

Have the customer's system administrator Ping another known good static IP address on the network.

The workstation can successfully ping another static IP address on the network.

N

Inform the customer's system administrator there is a problem with the workstation.

Request the system administrator check the workstation configuration is correct for the network

Request the system administrator check the workstation configuration is correct for the network.

## The same job prints ok from another workstation.

Y N

Have the customer's system administrator reload the print driver on the affected workstation. If the problem continues, escalate the call to the Customer Service Center (CSC).

There is an application problem. Request the customer contact the Customer Service Center.

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# **OF10 Problem Printing Job RAP**

Use this RAP when a particular job won't print. Other jobs print OK.

#### Procedure

Check the output to see if a PDL error sheet was printed.

#### An error sheet was printed.

#### / N

On the machine UI, select Job Status, Other Queues, All Completed Jobs, Save.

Check the gueue for the job in guestion.

## The job is in the log.

,

Select Other Queues, All Incomplete Jobs, Save.

#### The job is stuck in the queue.

**(** |

Check for a fault listed against the job in question.

#### There is a fault(s) listed with the job.

Υ

Go to Software Upgrade, GP 4, and perform the Regular AltBoot procedure.

Go to the appropriate RAP for the fault(s) listed with the job.

Switch the machine power off/on to reboot the SBC PWB.

#### The job printed OK.

YN

Inform the customer the job must be deleted. Delete the job. Instruct the customer to recreate and re-send the job.

#### The job printed OK.

Υ

Go to Software Upgrade, GP 4, and perform the Regular AltBoot procedure.

If the problem continues, there may be a problem with the job. See if other jobs print OK. If not, instruct the customer/System administrator to reload the print driver on the affected workstation.

If the problem continues have the customer call the Customer Service Center.

Done. Return to SCP 1.

Done. Return to SCP 1.

The job must have been printed. Check for the possibility that the job was removed from the printer by another user.

Go to Software Upgrade, GP 4, and perform the Regular AltBoot procedure.

If the problem continues, there may be a problem with the job. See if other jobs print OK. If not, instruct the customer/System administrator to reload the print driver on the affected workstation.

If the problem continues have the customer call the Customer Service Center.

## OF 11 Job Prints Incorrectly RAP

The job prints, but incorrectly.

#### **Procedure**

Discuss the problem with the customer and/or inspect the incorrect output.

#### There is a font problem.

/ N

The problem is occurring on all jobs from all clients.

- 1

The problem is occurring on jobs from one particular client.

*(* 

The problem is related to a particular job. Have the customer call the Customer Support Center.

There may be a problem with the client workstation. Check/perform the following:

- See if problem is related to a particular job. If so, go to the OF10.
- Ensure that the client meets minimum specifications for the Embedded Web Server software drivers.
- Ensure the latest printer drivers are loaded.
- Have the customer/System administrator reload the printer driver.

Have the customer/system administrator replace the print drivers. Ensure that the latest drivers available are loaded.

#### The problem persists.

Υ

Return to SCP 3.

Go to GP 4 and perform the Regular AltBoot procedure.

Have the customer view the job in Print Preview of the application.

## The problem appears in Print Preview.

\_\_\_N

There may be a font substitution that is not acceptable to the customer. In the Printer Setup for the print driver, if Always Send to Printer is selected, the actual fonts will be sent to the printer from the workstation. This will slow down the printer performance, but will usually solve the font problem.

There may be a problem with the client workstation. Check/perform the following:

- See if problem is related to a particular job. If so, go to the OF10.
- Ensure the client meets minimum specifications for the Embedded Web Server drivers.
- Ensure the latest printer drivers are loaded.
- Have the customer/System administrator reload the printer driver.

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# OF12 Modem/Fax PWB Service RAP

There is a problem with the FAX. The primary causes of Fax problems, in order of likelihood, are:

- Phone line problems
- Customer operation problems
- PBX setup problems
- Machine configuration problems
- Fax hardware problems

## **Initial Actions**

- If the problem is FAX not printing the Date and Time stamp, enter dC131 and change the setting in NVM location 200-143 from a 0 to a 1.
- Check the phone line connection is active.
- Check the Configuration Sheet to confirm that the FAX PWB is detected.
- If the FAX icon is not present, check cable connection from the FAX PWB to the Controller PWB.
- Verify the presence of the FAX PWB.
- If the fault persists, or the FAX is inoperable, proceed to the following procedure.

#### Procedure



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

Actions	Yes	No
Step 1 Reseat the telephone cable on the LINE port of the printer and on the wall jack. The fault persists.	Go to step 2.	Perfom SCP 5, Call Closeout.
Step 2 Check if the telephone cable sends and receives calls. Does the cable send and receive calls?	Go to step 4.	Go to step 3.
Step 3 Connect the telephone cable to a working wall jack. The fault persists.	Go to step 4.	Perfom SCP 5 Final Actions.
Step 4 Reseat the fax PWB harnnes and on the JFAX1 connector, on the controller PWB, PL 3.05 item 1. The fault persists.	Go to step 5.	Perfom SCP 5 Final Actions.
Step 5 Check the fax PWB harnnes for continuity.	Go to step 7.	Go to step 6.

Actions	Yes	No
Does the cable have continuity?		
Step 6 Install a new fax PWB, PL 20.05 item 1.  Note: The fax PWB harness is not seperately spared. The fax PWB harness is part of the fax PWB. The fault persists.	Go to step 7.	Perfom SCP 5 Final Actions.
Step 7 Measure the voltages of pins 4, 5, and 7 of the JFAX1 connector, on the controller PWB, PL 3.05 item 1. Note: Pins 9, 11, 13, 15, 17, and 19 are GND. Are the voltages of pins 4 and 5 equal to +3.3VDC and pin 7 equal to +5VDC?	Go to step 8.	Go to step 9.
Step 8 Install a new fax PWB, PL 20.05 item 1. The fault persists.	Go to step 9.	Perfom SCP 5 Final Actions.
Step 9 Install a new controller PWB, PL 3.05 item 1. The fault persists.	Contact the next level of support.	Perfom SCP 5 Final Actions.

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## **OF13 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 Diagnostic.

Xerox Secure Access shall be controlled via the Embedded Web Server 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.

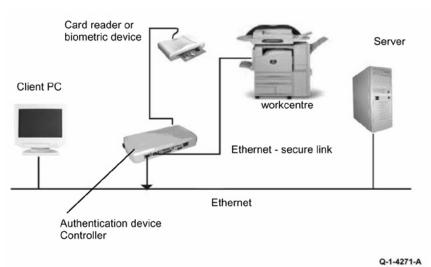


Figure 1 Network Diagnostic

#### **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.

Note: To power down the machine, press the UI Power Button and then respond to the on-screen prompts. Wait until the Power Button LED turns off, then switch off the Main Power Switch (GP 4).

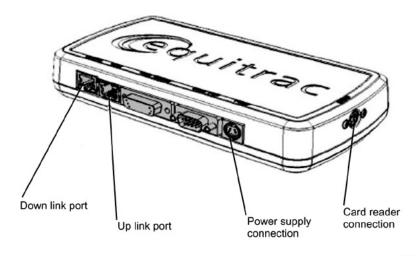
## Perform the following steps

- Check the connection between the Card Reader and the Secure Access Authentication Device.
- Check for the LEDs 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 LEDs 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.



Q-1-4272-A

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 multi meter, 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 α 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.

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#### 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 Figure 2.

- 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 LEDs are not On or Blinking

## **Table 1 Fault Indications**

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 LEDs 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.

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# OF 14 Troubleshooting Possible Restart Faults RAP

There may be software issues resulting in failed restarts after installing a new controller PWB. The following procedure is provided to troubleshoot and resolve these issues when they arise.

## **Initial Actions**

Note: Check the UI fault list for any active faults other than the fault causing the issue. Resolve all faults possible before attempting to move forward in this procedure. There may be issues dC132 may not resolve.



CAUTION: Back up ALL Device Platform Settings files to the hard drive AND USB thumb drive, if possible, before any PWB changes. Refer to, dC361 NVM Save and

## **Procedure**



CAUTION: Back up ALL Device Platform Settings files to the hard drive AND USB thumb drive, if possible, before any PWB changes. Refer to, dC361 NVM Save and Restore.

Note: Whenever possible, active faults should be resolved prior to hardware changes.

- 1. After a new controller PWB is successfully installed; the machine is switched on, encryption syncing has completed, and the UI shows the machine in non-customer mode.
- 2. Perform Software Upgrade, GP 4, using the Special Altboot method.
- 3. Enter Diagnostics, GP 1, touch Adjustments, then dC131, NVM Read/Write.
- 4. Set NVM 616–014 to [4], then restart the machine saving settings.

Restart results in fault code 322-352-00 Serial Number Missing From Memory.

Fault code 322-365-00 is raised.

Ν

- 1. Sync is successful. Now other parts can be installed as required.
- Perform, SCP 5, Final Actions.

Backup Print Engine settings file to hard drive, then restore back to machine.

- 1. Enter Diagnostics, GP 1.
- 2. Touch Adjustments, dC361NVM Save and Restore.
- 3. Touch Machine NVM.
- Touch Save to Hard Drive.
- 5. Touch the new listed **Print Engine**, then touch **Restore Machine NVM**.

Restore is Successful.

Ν

Restore machine from USB drive.

Print Engine machine settings are backed up to USB.

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Contact Next Level Support to obtain a Print Engine Recovery File and instructions.

Recover file installed, the fault persists.

- 1. Sync is successful. Now other parts can be installed as required.
- 2. Perform, SCP 5, Final Actions.

Engine SN Restore Failed Machine inoperable Escalate to Next Level Support.

- 1. Insert the USB drive with the backed up **Print Engine** machine settings.
- 2. Enter Diagnostics, GP 1.
- 3. Touch Adjustments.
- 4. Touch, dC361NVM Save and Restore
- 5. Touch Print Engine.
- 6. Touch Restore from USB Drive.
- 7. Touch Restore Machine NVM.

Restore is Successful.

Ν Contact Next Level Support to obtain a Print Engine Recovery File and instructions.

Recover file installed, the fault persists.

- 1. Sync is successful. Now other parts can be installed as required.
- 2. Perform, SCP 5, Final Actions.

Engine SN Restore Failed Machine inoperable Escalate to Next Level Support.

Restart the machine. 322-365-00 fault cleared.

Engine SN Restore Failed Machine inoperable Escalate to next level of support. Perform, SCP 5, Final Actions.

- 1. Sync is successful. Now other parts can be installed as required.
- Perform, SCP 5, Final Actions.

Refer to, dC132Machine Serial Number, to fix serial sync issue.

The 322-352-00 fault persists.

Ν

- 1. Sync is successful. Now other parts can be installed as required.
- 2. Perform, SCP 5, Final Actions.
- 1. Check the UI fault list for any active faults other than the fault causing the issue. Resolve all faults possible. Then, perform dC132 Machine Serial Number.
- 2. If no other active faults are found in the UI fault list, dC132 is unsuccessful, and the fault causing the issue persists, contact next level support for further instruction.

# 3 Image Quality

Image Quality RAPs	
IQ1 IOT Image Quality Entry RAP	153
IQ2 IIT (Scanner) Image Quality Entry RAP	156
IQ3 Blank Pages RAP	
IQ4 Dark Print RAP	
IQ5 Light Print RAP	
IQ6 Paper Curl RAP	
IQ7 Folded or Wrinkled Paper RAP	
IQ8 Solid Black Pages RAP	
IQ9 Repeating Defects RAP	
IQ10 Skewed Print RAP	
IQ11 Streaked Vertical Lines RAP	162
IQ12 Horizontal Light Bands RAP	
IQ13 Vertical Light Bands RAP	
IQ14 Vertical Dark Bands RAP	
IQ15 Vertical Dark Streaks with Print Missing RAP	
IQ16 White Streaks and Voided Areas RAP	
IQ17 Fine Lines such as chinese characters are not printed correctly RAP	
IQ18 Text or Images Cut Off RAP	
IQ19 Compressed Images Appear on Prints RAP	
IQ20 Incorrect Margins on Prints RAP	
IQ21 Toner Rubs Off RAP	
IQ22 Molted Prints or Dots RAP	
IQ23 Gray Background or Toner Fog RAP	
Scan Quality RAPs	
SQ1 Dark Image Quality (using the DADF or scanner) RAP	
SQ2 Vertical Lines (process direction using the DADF) RAP	
SQ3 Spots (using the flatbed scanner) RAP	
SQ4 DADF Skew RAP	
SQ5 Media Damage (using the DADF) RAP	1/4
SQ6 Blank Page Copy RAP	
SQ7 Solid Black Page Copy RAP	1/5

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# IQ1 IOT Image Quality Entry RAP

Use this RAP to identify the causes of Image Quality defects and provides steps to working through each Image Quality RAP.

## Copy and Print Mode Definitions:

- Print Mode document images are submitted electronically from a Fax, USB, or network source.
   They do not use any of the IIT components (DADF or Scanner) and there is no hard copy original.
- Copy Mode document images are made from a hard copy original. They use the IIT components (DADF and/or Scanner) to introduce the image into the machine.
- For Copy Mode images made using the DADF, side 1 is defined as the visible side of the document as it sits in the DADF document tray. Side 2 is the side that faces the document tray and is not visible without removing the document from the tray and turning it over. It is useful to label the two sides on the originals used for testing.
- For Copy Mode images made using the Platen Glass, some different parts of the IIT are used to make the image.

#### **Initial Actions**

During initial actions, a set of copies and prints are produced. These, along with any copies or prints from the customer, enable you to analyze and correct image quality problems.

- 1. Ensure that fresh dry paper that meets Xerox specifications is loaded in all paper trays. If possible, use paper listed in, Table 1.
- 2. Set the machine to the Customer Mode Settings listed in, Table 2, to ensure that the machine is set to a standard state.
- 3. Make copies of hard copy originals to check for copy mode problems. If a customer original is not available, make the copies from the Test Pattern 82E13120
  - Make 2-sided copies using the DADF. Use the following process to ensure that both the scanner (for side 1) and the CIS (for side 2) are tested. Set the Copy mode for 2-sided to 2-sided copying.

Set the number of copies to 10.

- 1. If possible, use a 2-sided original. If the customer original is not 2 sided, use the Test Pattern and feed it through the DADF twice. When using the Test Pattern use the following process. Be sure to keep track of whether the copies are side one or side two.
  - 1) Place the Test Pattern in the DADF document tray face up with the top on the left. This will produce a set of side 1 copies.
  - 2) Place the Test Pattern in the DADF document tray face down with the top on the left. This will produce a set of side 2 copies.
- 2. Make copies using the platen. Be sure to register the original correctly on the platen with the top on the left. Use either the customer original, or the Test Pattern.
- 4. Ask the customer to make ten 2-sided prints of the file that is showing the defect. If possible, ask that the file be printed from several different computers.
- 5. If step 4 cannot be completed, make ten 2–sided prints of an appropriate test pattern using dC612.

**Table 1 Recommended Papers** 

Paper	Size / Weight
Plain	8 .5 x11 or A4 (20lb.)

Table 2 Basic Copier Mode Settings

Item Name	Sub-Item	Sub-Item	Setting
2–sided Copying	<ul> <li>1-sided-&gt; 1-sided</li> <li>1-sided-&gt; 2-sided</li> <li>2-sided &gt; 2-sided</li> <li>2-sided &gt; 1-sided</li> <li>More</li> </ul>	More (same settings as first sub-item + <b>Ro-</b> <b>tate Side 2</b> )	2-sided> 2-sided
Paper Supply	<ul> <li>Auto Paper Select</li> <li>Tray 1: 8.5 x 11" Plain White</li> <li>Tray 2: 8.5 x 11" Plain White</li> <li>Bypass Tray: 8.5 x 11" Plain White</li> </ul>	-	Auto Paper Select
Collation	<ul><li>Collated</li><li>Uncollated</li></ul>	-	Collated
Reduce / Enlarge	• 100% • Auto • 64% • 129% • More	More:	Printed Original

Item Name	Sub-Item	Sub	Sub-Item		Setting
			Set- ting	Set- ting	
			78 % 8.5 x 14"  -> 8.5 x 11"  129- % 8.5 x 11"  -> 17 x 11"	94% A4— > 8.5 x 11"	
Lighten/Darken	-	-			Normal
Sharpness	-	-			Normal
Saturation	-	-			Normal
Automatic Back- ground Suppression	-	-			Off (unchecked)
Contrast	Contrast: Manual Contrast	-			Normal
Density Presets	-	-			Off
Density Balance	-	-			Normal
Image Shift	-	-			Off

Check the set of copies and prints for the presence of the defect in Copy Mode and in Print Mode.

If the problem only occurs in Copy Mode, go to the IQ2 RAP.

- Check machine customer selectable image quality settings on the UI and the Print Driver. Determine if adjustments to these settings should be made to tune image output to meet customer IQ requirements.
- 2. Refer the customer to user documentation to review settings that affect copy and print image quality. In particular, ask that they review the following settings for Copy image quality:
  - Output Desnity
  - Original Type
  - Lighten / Darken
  - Sharpness
  - Saturation

- Automatic Background Suppression
- Density Presets
- Density Balance
- 3. Make a set of prints using dC612 to aid in further defect analysis.
- 4. Examine the complete set of copies and prints to determine which Image Quality RAP to perform listed in, Table 3.

Table 3 Image Quality Defects: Process (Slow Scan) Direction Streaks and Lines

Defect	Description	Corrective Action
IQ3 Blank Pages RAP	The page prints a Blank or White page	Go to the RAP IQ3
IQ4 Dark Print RAP	The page appears horizontal dark gradient starting from top to bottom.	Go to the RAP IQ4
IQ5 Light Print RAP	The print is washed out at 20% to 30% print density.	Go to the RAP IQ5
IQ6 Paper Curl RAP	The image appears curled on the page.	Go to the RAP IQ6
IQ7 Folded or Wrinkled Paper RAP	The print looks folded or wrinkled.	Go to the RAP IQ7
IQ8 Solid Black Pages RAP	The page prints a solid density or black.	Go to the RAP IQ8
IQ9 Repeating Defects RAP	The print is poorly fused to the page.	Go to the RAP IQ9
IQ10 Skewed Print RAP	The print is skewed or crooked.	Go to the RAP IQ10
IQ11 Streaked Vertical Lines RAP	Streaked vertical lines appear on prints.	Go to the RAP IQ11
IQ12 Horizontal Light Bands RAP	Horizontal bands of light to no print appear on the page.	Go to the RAP IQ12
IQ13 Vertical Light Bands RAP	Images on the page appear missing vertically top to bottom.	Go to the RAP IQ13
IQ14 Vertical Dark Bands RAP	Dark bands on the page top to bottom.	Go to the RAP IQ14
IQ15 Vertical Dark Streaks with Print Missing RAP	Text and images missing with only dark streaks on the page top to bottom.	Go to the RAP IQ15
IQ16 White Streaks and Voided Areas RAP	White streaks and voided areas on the page.	Go to the RAP IQ16

Defect	Description	Corrective Action
IQ17 Fine Lines such as chinese characters are not printed cor- rectly RAP	Fine Lines such as chinese characters are not printed correctly.	Go to the RAP IQ17
IQ18 Text or Images Cut Off RAP	The print is incomplete or cut off the page.	Go to the RAP IQ18
IQ19 Compressed Images Appear on Prints RAP	Image appears compressed into part of the page.	Go to the RAP IQ19
IQ20 Incorrect Margins on Prints RAP	Dots and irregular print appearing at the at random and in the middle of the page.	Go to the RAP IQ20
IQ21 Toner Rubs Off RAP	Toner is not fully fused to the media.	Go to the RAP IQ21
IQ22 Molted Prints or Dots RAP	Dots and irregular print appearing at the top and bottom of the page.	Go to the RAP IQ22
IQ23 Gray Background or Toner Fog RAP	The print background appears over 20 % to 30 % print density.	Go to the RAP IQ23

# IQ2 IIT (Scanner) Image Quality Entry RAP

Use this RAP to troubleshoot scanner and DADF problems only. Before proceeding verify that the defect is present in Copy mode only. If the defect is present on the page printed from the IOT go to,IQ 1 Image Quality Entry RAP.

## **Initial Actions**

- 1. Clean the scanner, GP 18.
- 2. Recheck for the problem by repeating the copy mode print generation process from IQ 1. If the problem remains continue with this procedure. Otherwise return to Call Flow.

## Procedure

Examine the copies made during Initial Actions of IQ 1. Compare the defective copies with the descriptions listed in Table 1. Perform the corrective action listed for that defect.

Note: The defects listed in Table 1 are for problems that occur in copy mode only. If the problem occurs in both copy and print mode, refer to IQ 1.

Table 1 IIT/IPS Image Quality Problems

Defect	SubSystem	Corrective Action	Description
Dark image quality (using the DADF or scanner)	DADF or Scanner	Check print quality samples Correct any print quality issues using RAP, IQ 1 Image Quality Entry RAP Clean the scanner Clean the white reference strips Perform a copy job using the DADF Perform a copy using the scanner If the fault persists, install a new controller PWB, PL 3.05	The image is dark using either the DADF or the scanner.
Vertical lines (process direction using the DADF) check	DADF	Clean the Platen Glass Clean the Platen Cushion Calibrate the IIT dC945. Perform RAP IQ14	Vertical lines appear on the page.
Spots (using the flatbed scanner) check	Scanner	Perform RAP IQ 1 Image Quality Entry RAP	Spots on the printed page appear after scanning a document.
DADF skew check	DADF	Clean the CIS Install a new scanner as- sembly, PL 60.10	Images and print are skewed or crooked.

Defect	SubSystem	Corrective Action	Description
Media Damage (using the DADF)	DADF	Check the DADF paper path for debris or foreign objects. Clean the DADF pick and separator rollers. Install new DADF rollers, PL 5.05 item 4	Highlight density too light
Black Or Blank Page Copy	DADF/Scanner	Perform RAP IQ3 for blank pages. Perform IQ8 for black pages.	Highlight density too dark

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# IQ3 Blank Pages RAP



Figure 1 Blank Page

Note: Before proceeding with this print quality check, see IQ 1

#### Initial Actions

1. Check if the printer is using a genuine and supported Lexmark toner cartridge.

Note: If the printer is using a third-party toner cartridge, then refer the users to their supplier.

- 2. Check the imaging unit for the following:
  - a. Residual packing material
  - b. Damage and improper installation
- 3. Firmly shake the imaging unit to redistribute the toner, and then reinstall it.
- 4. With the imaging unit removed, do the following to check if the coupler is stuck.
  - a. While slowly closing the door, observe if the coupler moves inward.
  - b. While slowly opening the door, observe if the coupler moves outward.

    If the couple is stuck, then reach inside the printer and manually reposition the coupler as shown.
- 5. Check if the imaging unit contact (1) is bent, damaged, or not in proper contact with the imaging unit.
- 6. Make sure that the connections between the controller board and power supply are properly connected.
- 7. Check the transfer roller for the following:
  - a. Improper installation
  - b. Contamination and damage
  - c. Damage on the transfer roller left contact spring in the transfer roller left arm

For more information, see REP 90.1.

- 8. Check the coupler for signs of damage. The coupler is on the main drive motor.
  - Coupler in good condition
  - Coupler in bad condition

For more information, see REP 40.2.

- 9. Make sure that the connections on the controller board and printhead are properly connected.
- 10. Check the printhead for damage and improper installation. For more information, see REP 60.1.

# IQ4 Dark Print RAP



Figure 1 Dark Print

Note: Before proceeding with this print quality check, see IQ 1

#### Initial Actions

1. Check if the printer is using a genuine and supported Lexmark toner cartridge.

Note: If the printer is using a third-party toner cartridge, then refer the users to their supplier.

- 2. Restart the printer.
- 3. From the home screen, do the following:
  - Decrease the toner darkness. Touch Settings > Print > Quality > Toner Darkness.

Note: 8 is the factory default setting.

- Set the paper type, texture, and weight in the Paper menu to match the paper loaded.
   Touch Settings > Paper.
- Depending on the operating system, specify the paper type from Printing Preferences or Print dialog.
- 4. Check if the imaging unit contacts (1) are bent, damaged, or not in proper contact with the imaging unit.
- 5. Make sure that the connections between the controller board and the power supply are properly connected.
- Check the power supply for damage and improper installation. For more information, see REP 1.1.

# **IQ5 Light Print RAP**



Figure 1 Light Print

Note: Before proceeding with this print quality check, see IQ 1

## **Initial Actions**

1. Check if the printer is using a genuine and supported Lexmark toner cartridge.

**Note:** If the printer is using a third-party toner cartridge, then refer the users to their supplier.

- 2. Restart the printer.
- 3. From the home screen, do the following:
  - Increase the toner darkness. Touch Settings >Paper >Quality >Toner Darkness.

Note: 8 is the factory default setting.

- Set the paper type, texture, and weight in the Paper menu to match the paper loaded.
   Touch Settings >Paper.
- 4. Push either side of the transfer roller to check if it depresses and bounces back into place.

  If the transfer roller does not depress and bounce back into place, then reinstall it by doing the following:
  - a. Pull up the blue gear on the transfer roller.
  - b. Pull out the blue gear from the right side to the left.

For more information, see REP 90.1.

- 5. Check the imaging unit for the following:
  - a. Damage to the shutter

**Note:** The shutter opens to receive toner from the toner cartridge.

- b. Status of the imaging unit
  - 1. From the home screen, touch **Status/supplies**.
  - 2. Touch View Supplies.
- c. Damage, contamination, and improper installation
- 6. Firmly shake the imaging unit to redistribute the toner, and then reinstall it.

- 7. Clean the printhead lens. For more information, see GP 15.
- 8. Check the power supply for damage, contamination, and improper installation. For more information, see REP 1.1.
- 9. Make sure that the connections between the controller board and the toner drive assembly are properly connected.
- 10. Check the toner drive assembly for damage and improper installation. For more information, see REP 40.8.
- 11. Check the controller board for damage, contamination, and improper installation. For more information, see REP 3.1.

# IQ6 Paper Curl RAP



Note: Before proceeding with this print quality check, see IQ 1

#### Initial Actions

- 1. Check if the printer is using a genuine and supported Lexmark toner cartridge.
  - Note: If the printer is using a third-party toner cartridge, then refer the users to their supplier.
- 2. Make sure that the guides in the tray are in the correct position for the paper loaded.
- 3. From the home screen, do the following:
  - Set the paper size, type, and weight in the Paper menu to match the paper loaded. Touch Settings>Paper.
  - b. Depending on the operating system, specify the paper size from Printing Preferences or Print dialog.

# IQ7 Folded or Wrinkled Paper RAP



Note: Before proceeding with this print quality check, see IQ 1

## **Initial Actions**

1. Check if the printer is using a genuine and supported Lexmark toner cartridge.

Note: If the printer is using a third-party toner cartridge, then refer the users to their supplier.

- 2. Check if the toner cartridge is compatible with the imaging unit.
- 3. Make sure that the fuser entry guide is free of waste toner and dust.



**CAUTION:** Clean the fuser entry guide with a toner vacuum and cloth. Do not use compressed air.

4. Check if the fuser has reached end of life.

# **IQ8 Solid Black Pages RAP**

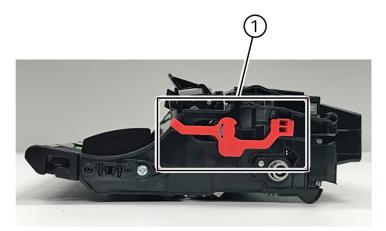


Figure 1 Solid Color or Black Image

Note: Before proceeding with this print quality check, see IQ 1

## **Initial Actions**

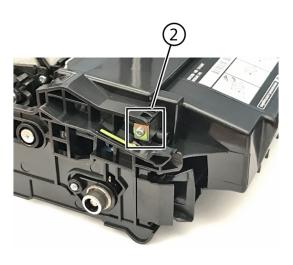
- Check if the printer is using a genuine and supported Lexmark toner cartridge.
   Note: If the printer is using a third-party toner cartridge, then refer the users to their supplier.
- 2. Check for any packing material left on the imaging unit, including the red plastic separator (1).



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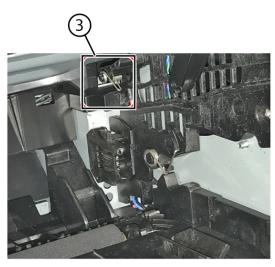
Note: You may need a pair of pliers to remove a piece of broken plastic inside the imaging unit.

3. Check the charge roller contact (2) on the right side of the imaging unit for damage and contamination.



VLB415S\_3004

4. Check if the imaging unit contact (3) is contaminated, broken, or bent out of proper position.



VLB415S\_3005

5. Check the high voltage metal contacts on the imaging unit for damage.

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6. Make sure that the connections between the controller board and the power supply are properly connected.

# **IQ9** Repeating Defects RAP



Figure 1 Repeating Defects

Note: Before proceeding with this print quality check, see IQ 1

## **Initial Actions**

- 1. Using the Print Quality Test Pages, check if the distance between the repeating defects is equal to any of the following:
  - 97 mm (3.82 in.)
  - 47 mm (1.85 in.)
  - 38 mm (1.5 in.)

If the distance between the repeating defects is equal to the listed measurements, then check the imaging unit for damage, contamination, and improper installation.

- 2. Check if the distance between the repeating defects is equal to 3.15 inches (85 mm).

  If the distance between the repeating defects is equal to 3.15 inches (85 mm), then check the fuser for damage, contamination, and improper installation. For more information, see REP 10.1
- 3. Check the transfer roller for damage, contamination, and improper installation. For more information, see REP 90.1

# **IQ10 Skewed Print RAP**



Figure 1 Skewed Print

Note: Before proceeding with this print quality check, see IQ 1

## **Initial Actions**

- 1. Make sure that the guides in the tray are in the correct position for the paper loaded.
- 2. Check the tray pick roller or MPF pick roller for wear, damage, and contamination. For more information, see REP 70.1 and REP 70.3.
- 3. Do a print test. Enter the Diagnostics menu, and then touch **PRINT TESTS** > **Tray** [x].

**Note:** [x] refers to the tray where the skewed prints are printed come from.

- 4. Adjust the margins. Enter the Diagnostics menu, and then touch **REGISTRATION**.
- 5. Perform the paper skew adjustment. SeeADJ 60.2.

# **IQ11 Streaked Vertical Lines RAP**



Note: Before proceeding with this print quality check, see IQ 1

## **Initial Actions**

- 1. Check if the printer is using a genuine and supported Lexmark toner cartridge.
  - Note: If the printer is using a third-party toner cartridge, then refer the users to their supplier.
- 2. Check the imaging unit for damage, contamination, and improper installation.
- 3. Check the fuser for the following:
  - a. Damage, contamination and improper installation
  - b. Debris on the rollers and belts

# **IQ12 Horizontal Light Bands RAP**



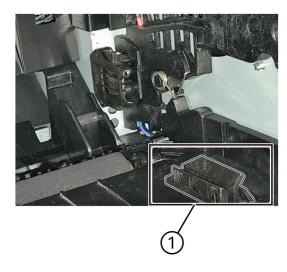
Note: Before proceeding with this print quality check, see IQ 1

## **Initial Actions**

1. Check if the printer is using a genuine and supported Lexmark toner cartridge.

Note: If the printer is using a third-party toner cartridge, then refer the users to their supplier.

- 2. Restart the printer.
- 3. Check the imaging unit contact block (1), including the white and red wires, for damage and improper installation.



VLB415S\_3007

4. Check the power supply for damage, contamination, and improper installation. For more information, see REP 1.1.

# **IQ13 Vertical Light Bands RAP**



Note: Before proceeding with this print quality check, see IQ 1

## Initial Actions

1. Check if the printer is using a genuine and supported Lexmark toner cartridge.

**Note:** If the printer is using a third-party toner cartridge, refer the users to their supplier.

- 2. Check the printhead for the following:
  - a. Clean the printhead lens. See GP 15.

**Note:** This step applies only to printer models that are installed with a galvo printhead. To determine whether the printhead is galvo, check the serial number of the printer. The sixth digit character must be in the 0–9 or B–N range. For example: 4514 20HH 007CR.

- b. Check for damage, contamination, and improper installation. For more information, see the REP 60.1.
- 3. Check the imaging unit for damage, contamination, and improper installation.

# **IQ14 Vertical Dark Bands RAP**



Note: Before proceeding with this print quality check, see IQ 1

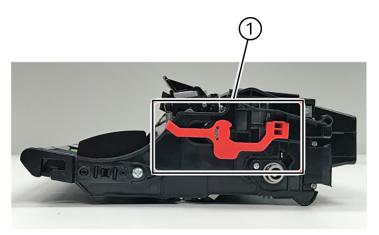
## **Initial Actions**

IQ14

1. Check if the printer is using a genuine and supported Lexmark toner cartridge.

Note: If the printer is using a third-party toner cartridge, then refer the users to their supplier.

- 2. Check the imaging unit for damage, contamination, and improper installation.
- 3. Check for any packing material left on the imaging unit, including the red plastic separator (1).



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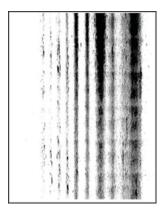
Note: You may need a pair of pliers to remove a piece of broken plastic inside the imaging unit.

4. Make sure to block the bright light from entering the right side of the printer.

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**Note:** In cases where the printer cannot be moved or relocated, add a cover to the fan inlet vent to block the light from entering the printer, or contact the next level of support.

# IQ15 Vertical Dark Streaks with Print Missing RAP



Note: Before proceeding with this print quality check, see IQ 1

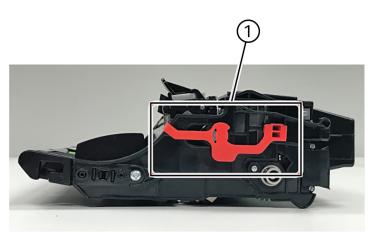
## **Initial Actions**

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1. Check if the printer is using a genuine and supported Lexmark toner cartridge.

**Note:** If the printer is using a third-party toner cartridge, then refer the users to their supplier.

2. Check for any packing material left on the imaging unit, including the red plastic separator (1).



VLB415S\_3003

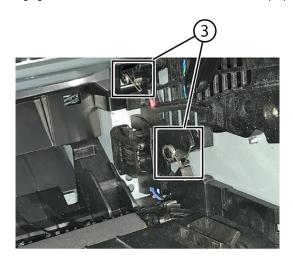
Note: You may need a pair of pliers to remove a piece of broken plastic inside the imaging unit.

3. Check the charge roller contact (2) on the right side of the imaging unit for damage and contamination.



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4. Check if the imaging unit contacts (3) are contaminated or bent out of proper position.



VLB415S\_3011

- 5. Check the imaging unit for damage, contamination, and improper installation.
- 6. Make sure that the connections between the controller board and the power supply are properly connected.
- 7. Check the power supply for damage, contamination, and improper installation. For more information, see REP 1.1.

# IQ16 White Streaks and Voided Areas RAP



Figure 1 White Streaks

Note: Before proceeding with this print quality check, see IQ 1

## **Initial Actions**

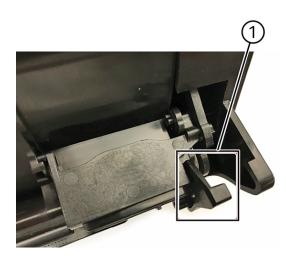
1. Check if the printer is using a genuine and supported Lexmark toner cartridge.

**Note:** If the printer is using a third-party toner cartridge, do not replace the imaging unit. Refer the users to their supplier.

- 2. From the home screen, do the following:
  - Set the paper type and weight in the Paper menu to match the paper loaded. Touch Settings > Paper.
  - Update the firmware to the latest version available.
  - Enter the Diagnostics menu, and then change the EngSetting 14 value to 48.

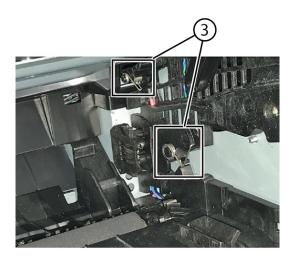
Note: You can also change the setting through a bundle file or NPA command.

- Set the Quiet Mode to Off. Touch Settings > Device > Maintenance > Configuration Menu.
- Review the Event Log Summary sheets and check if either error code 31.46 or 31.66 occurred for the imaging unit. If they did, check if they also occurred for the toner cartridge.
- 3. Check the shutter tab (1) on the toner cartridge for signs of damage.



VLB415S\_3012

4. Check if the imaging unit contacts (3) are contaminated or bent out of proper position.



VLB415S\_3011

- 5. Check the toner cartridge and imaging unit for damage, contamination, and improper installation.
- 6. Make sure that the connections between the controller board and the power supply are properly connected.
- 7. Check the power supply for damage, contamination, and improper installation. For more information, see REP 1.1.
- 8. Clean the printhead lens. For more information, see GP 15.

**Note:** This is step applies only to printer models that are installed with a galvo printhead. To determine whether the printhead is galvo, check the serial number of the printer. The sixth digit character must be in the 0–9 or B–N range. For example: 4514 20HH 007CR.

9. Check the printhead for damage, contamination, and improper installation. For more information, see REP 60.1.

# IQ17 Fine Lines such as chinese characters are not printed correctly RAP



Note: Before proceeding with this print quality check, see IQ 1

## **Initial Actions**

1. Check if the printer is using a genuine and supported Lexmark toner cartridge.

Note: If the printer is using a third-party toner cartridge, then refer the users to their supplier.

- 2. From the home screen, do the following:
  - a. Touch Settings > Print > Quality > Pixel Boost > Fonts.
  - b. Increase the toner darkness to 7. Touch Settings > Print > Quality > Toner Darkness.

**Note:** Adjusting the Toner Darkness setting to 7 results in a slightly lighter print.

**Note:** You may leave the Toner Darkness value at 8 in order to maintain the darkness that you are used to, but this will result in decreased toner yield.

# **IQ18 Text or Images Cut Off RAP**



Figure 1 Image Cut Off

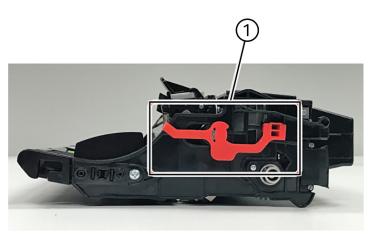
Note: Before proceeding with this print quality check, see IQ 1

## **Initial Actions**

1. Check if the printer is using a genuine and supported Lexmark toner cartridge.

**Note:** If the printer is using a third-party toner cartridge, then refer the users to their supplier.

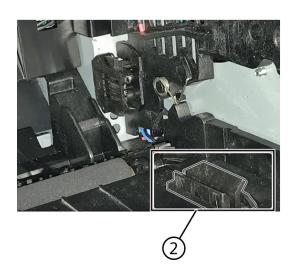
2. Check for any packing material left on the imaging unit, including the red plastic separator (1).



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Note: You may need a pair of pliers to remove a piece of broken plastic inside the imaging unit.

3. Check the imaging unit contact block (2) for damage and improper installation.



VLB415S\_3014

4. Check the imaging unit for damage, contamination, and improper installation.

# IQ19 Compressed Images Appear on Prints RAP

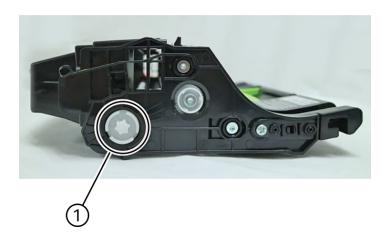


Note: Before proceeding with this print quality check, see IQ 1

## **Initial Actions**

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1. Make sure that the white photoconductor coupler (1) is firmly connected to the imaging unit and does not freely rotate.



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- 2. Check the imaging unit for damage, contamination, and improper installation.
- Check the main drive gearbox for damage, contamination, and improper installation. For more information, see REP 40.2.

# **IQ20 Incorrect Margins on Prints RAP**



Note: Before proceeding with this print quality check, see IQ 1

## **Initial Actions**

- 1. Make sure that the guides in the tray are in the correct position for the paper loaded.
- 2. From the home screen, do the following:
  - Set the paper size in the Paper menu to match the paper loaded.
  - Change the paper loaded to match the paper size specified in the tray settings.
  - Depending on the operating system, specify the paper size from Printing Preferences or Print dialog.
  - Adjust the margins as necessary. Enter the Diagnostics menu, and then touch **Registration**.

# **IQ21 Toner Rubs Off RAP**



Figure 1 Toner Easily Rubs Off

Note: Before proceeding with this print quality check, see IQ 1

## **Initial Actions**

1. Check if the printer is using a genuine and supported Lexmark toner cartridge.

Note: If the printer is using a third-party toner cartridge, then refer the users to their supplier.

- 2. From the home screen, set the paper type, texture, and weight in the Paper menu to match the paper loaded.
- 3. Check the fuser for damage, contamination, and improper installation. For more information, see REP 10.1.
- 4. Make sure that the connections between the controller board and the power supply are properly connected.
- 5. Check the power supply for damage, contamination, and improper installation. For more information, see REP 1.1.

# **IQ22 Molted Prints or Dots RAP**



Figure 1 Random Dark Spots

Note: Before proceeding with this print quality check, see IQ 1

#### Initial Actions

1. Check if the printer is using a genuine and supported Lexmark toner cartridge.

**Note:** If the printer is using a third-party toner cartridge, then refer the users to their supplier.

- 2. Check the status of the imaging unit.
  - a. From the home screen, touch Status/supplies.
  - b. Touch View Supplies.
- 3. Check the imaging unit for damage, contamination, and improper installation.
- 4. Using an approved toner vaccum cleaner, completely clean the printer, toner cartridge, and imaging unit of toner contamination.
- Check the transfer roller for damage, contamination, and improper installation. For more information, see REP 90.1.

# IQ23 Gray Background or Toner Fog RAP



Figure 1 Gray Background

Note: Before proceeding with this print quality check, see IQ 1

## **Initial Actions**

- 1. Restart the printer.
- 2. From the home screen, do the following:
  - Increase the toner darkness in the Quality menu. Touch Settings > Print > Quality.

Note: 8 is the factory default setting.

- Set the paper type, texture, and weight in the Paper menu to match the paper loaded.
   Touch Settings > Paper.
- 3. Check if the printer is using a genuine and supported Lexmark toner cartridge. Note: If the printer is using a third-party toner cartridge, then refer the users to their supplier.
- 4. Check for any packing material left on the imaging unit, including the red plastic separator plastic (1).

Note: You may need a pair of pliers to remove a piece of broken plastic inside the imaging unit.

- 5. Check the charge roller contact (2) on the right side of the imaging unit for damage and contamination.
- Make sure that the connections between the controller board and the power supply are properly connected.
- 7. Check the photoconductor charge contact (3) on the right side of the printer frame for contamination.

**Note:** Poor electrical contact to the photoconductor is the most likely source of a full-page background defect.

8. Check if the photoconductor charge contact is bent, damaged, or not in proper contact with the imaging unit.

# SQ1 Dark Image Quality (using the DADF or scanner) RAP

#### Procedure

- 1. Check if the scan defect is visible on the print quality samples. Enter the Diagnostics menu GP 1, and then touch Advanced Print Quality Samples > Advanced Print Quality Test Pages.
  - If the scan defect is visible, identify, and then resolve the print quality defect. For more information, see  ${\rm IQ}$  1.
- 2. Perform a color adjust. From the home screen, touch Settings > Print > Quality > Advanced Imaging > Color Adjust.
- 3. Make sure that the following parts are clean:
  - DADF Glass
  - Scanner Glass
  - DADF Glass Pad
  - Scanner Glass Pad
  - DADF Glass Pad in Door C
  - DADF Glass in Door C

For more information, see GP 18.

 Check the controller board for damage and improper installation. For more information, see REP 3.1.

# SQ2 Vertical Lines (process direction using the DADF) RAP

## Procedure

- 1. Check if the scan defect is visible on the print quality samples. Enter the Diagnostics menu GP 1, and then touch Advanced Print Quality Samples > Advanced Print Quality Test Pages.
  - If the scan defect is visible, identify, and then resolve the print quality defect. For more information, see  ${\rm IQ}$  1.
- 2. Make sure that the following parts are clean:
  - DADF Glass
  - Scanner Glass
  - DADF Glass Pad
  - · Scanner Glass Pad
  - DADF Glass Pad in Door C
  - DADF Glass in Door C

For more information, see GP 18.

- 3. Check the DADF Glass on the scanner for cracks or damage.
- 4. Check in side the flatbed scanner for dust and contamination.
- 5. Identify which side of the paper the scan defect occurs. Perform a duplex copy job using the DADF.

#### Note:

- If the scan defect occurs on the front side, then check the Flatbed Scanner for damage and improper installation. For more information, see REP 60.2.
- If the scan defect occurs on the back side, then check the DADF for damage and improper installation. For more information, see REP 5.1.

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# SQ3 Spots (using the flatbed scanner) RAP

#### Procedure

1. Check if the scan defect is visible on the print quality samples. Enter the Diagnostics menu GP 1, and then touch Advanced Print Quality Samples > Advanced Print Quality Test Pages.

If the scan defect is visible, identify, and then resolve the print quality defect. For more information, see  ${\rm IQ}$  1.

- 2. Make sure that the following parts are clean:
  - Scanner Glass
  - Scanner Glass Pad

For more information, see GP 18.

- 3. Check the scanner glass pad for damage and improper installation. For more information, see
- 4. Check inside the flatbed scanner for dust and contamination.
- 5. Check the flatbed scanner for damage and improper installation. For more information, see REP 60.2

## **SO4 DADF Skew RAP**

## Procedure

- 1. Check if the scan defect is visible on the print quality samples. Enter the Diagnostics menu GP 1, and then touch Advanced Print Quality Samples > Advanced Print Quality Test Pages.
  - If the scan defect is visible, identify, and then resolve the print quality defect. For more information, see IQ 1.
- 2. Make sure that the printer is placed on a flat, sturdy, and stable surface.
- 3. Make sure that the document is properly loaded in the DADF tray.

Note: The guides in the DADF tray must match the width of the document.

- 4. Make sure that the DADF paper path is free of debris and obstruction.
- 5. Make sure that the DADF top cover is properly closed.
- Enable the DADF electronic deskew setting. From the home screen, touch Settings > Device >
   Maintenance > Configuration Menu > Scanner Configuration > DADF Deskew > DADF Electronic
   Deskew > On.
- 7. Check the DADF pick roller and separator roller for wear and damage. For more information, see REP 5.4.

# SQ5 Media Damage (using the DADF) RAP

## **Procedure**

- 1. Make sure that the document is properly loaded in the DADF tray.
  - The guides in the DADF tray should match the width of the document.
- 2. Make sure that the DADF paper path is free of debris and obstruction.
- 3. Make sure that the DADF top cover is properly closed.
- 4. Check the DADF pick roller and separator roller for wear and damage. For more information, see REP 5.4.

# SQ6 Blank Page Copy RAP

## Procedure

- Check if the issue is a blank page print quality issue. Enter the Diagnostics menu GP 1, and then touch Advanced Print Quality Samples > Advanced Print Quality Test Pages.
  - If the test page is blank, then resolve the print quality defect. For more information, see IQ3.
- 2. Make sure that the orientation of the document is correct.

#### Note:

- When copying from the DADF, load the document faceup.
- · When copying from the flatbed scanner, load the document facedown.
- Make sure that the connections between the DADF and the controller board are properly connected.
- 4. Make sure that the connections between the flatbed scanner and the controller board are properly connected.
- Check the DADF and its FFC for damage and improper Installation. For more information, see REP 5.1.
- Check the flatbed scanner and its FFC for damage and improper Installation. For more information, see REP 60.2.
- 7. Check the controller board for damage and improper installation. For more information, see REP 3.1.

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# SQ7 Solid Black Page Copy RAP

## Procedure

 Check if the issue is a solid black page print quality issue. Enter the Diagnostics menu, and then touch Advanced Print Quality Samples > Advanced Print Quality Test Pages.

If the test page is solid black, then resolve the print quality defect. For more information, see  ${\rm IQ8}.$ 

- 2. Make sure that the following parts are clean:
  - DADF Glass Pad
  - Scanner Glass Pad
  - DADF Glass Pad in Door C
  - DADF Glass in Door C

For more information, see GP 18.

- Make sure that the connections between the DADF and the controller board are properly connected.
- 4. Make sure that the connections between the flatbed scanner and the controller board are properly connected.
- Check the DADF and its FFC for damage and improper Installation. For more information, see REP 5.1.
- 6. Check the flatbed scanner and its FFC for damage and improper Installation. For more information, see REP 60.2.
- 7. Check the controller board for damage and improper installation. For more information, see REP 3.1.

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4 Repairs- Adjustments Revised Update

# **REP 1.1 HVPS/LVPS PWB**

Parts List on PL 1.05

## Removal



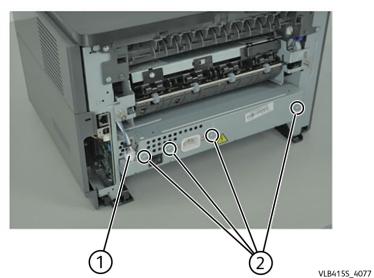
**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



Figure 1 ESD Symbol

- 1. Remove the rear cover. See REP 28.3.
- 2. Disconnect the cable (1), and then remove the screws (2).





3. Position the printer on its right side.

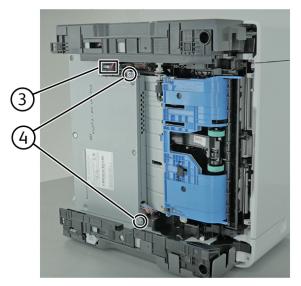


**CAUTION:** The DADF might swing open while you position the printer on its side.

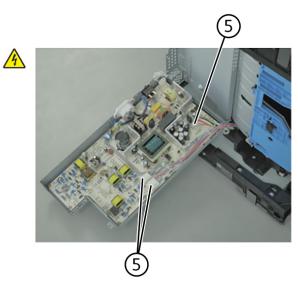
4. Disconnect the cable (3), and then remove the two screws (4).

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5. Disconnect the three cables (5).



6. Remove the power supply.

#### Replacement

Replacement is the reverse of the removal procedure.

## **REP 1.2 Drive PWB**

Parts List on PL 1.05

#### **Initial Actions**

## **Pre-Removal Requirements**

If Possible, collect the machine data in dC361 before proceding with removal of the drive PWB procedure.

- Check the UI control panel, if available, for any active faults. Resolve as required in the corresponding RAP.
- 2. Enter Diagnostics, GP 1. Enter, dC361 NVM Save and Restore, then touch **Machine NVM** to save all device platform settings to the hard drive.
- 3. While still in dC361, click on each file listed, then select **Copy to USB device** as a second backup.
- 4. Exit Diagnostics, GP 1.
- 5. Shutdown the machine, GP 10.

VLB415S\_4078



Figure 1 ESD Symbol



**CAUTION:** Never install a drive PWB and controller PWB in the same task. Install one, then check if the issue is resolved before installing the other PWB.

#### Removal



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



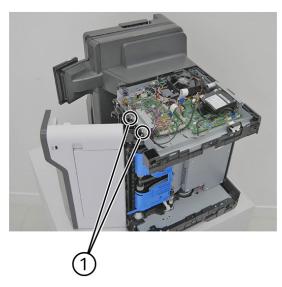
VLB415S 4079

#### Figure 2 ESD Symbol

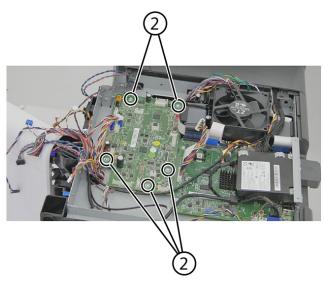
- 1. Remove the right cover. See REP 28.2.
- 2. Remove the screws (1).

VLB415S\_4031

VLB415S 4032



- 3. Disconnect all the connectors on the drive PWB.
- 4. Remove the screws (2).



5. Remove the Drive PWB.

### Replacement

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**CAUTION:** The serial number is stored and synchronized between the controller PWB, drive PWB, and black toner cartridge. Always install these items individually. After installation of either one of these items, ensure the black toner cartidge is installed, then switch on the machine, GP 10, to allow the serial number to synchronize before proceeding to install the next item. Refer to dC132 Machine Serial Number.

Replacement is the reverse of the removal procedure.

### **Post-Replacement Requirements**

Perform the following steps to return the machine to  ${f Customer\ Mode}$  after installation of a new controller PWB.

1. Switch on the machine, GP 10.

**Note:** While the machine is booting up for the first time after a new drive PWB is installed, encryption will initiate. Allow time for encryption to complete before the machine comes to **Ready**.

- After the machine completes encryption and comes to Ready, perform, GP 4 Software Upgrade, using the Special ALTBOOT procedure.
- 3. After the machine restarts from the software upgrade, enter Diagnostics, GP 1.
- 4. Enter dC131 NVM Read/Write.
  - a. Enter the chain-link [616–014], then change the value to 4 and save.
  - b. Exit Diagnostics, GP 1.
- 5. Restart the machine, GP 10.
- 6. If the machine restarts to a 322-365-00 Fault Code error, follow the procedure in 322-365-00.

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# **REP 2.1 UI Control Panel**

Parts List on PL 2.05

## Removal



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



Figure 1 ESD Symbol

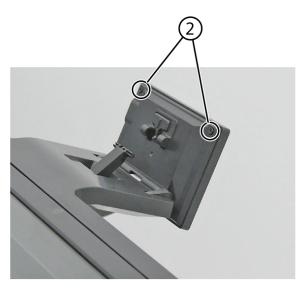
1. Release the hinge (1).



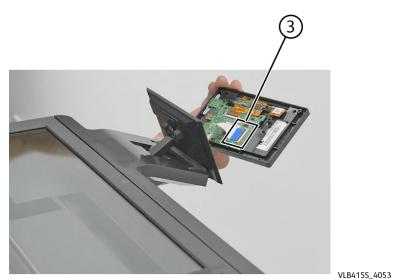
VLB415S\_4051

2. Remove the screws (2).

VLB415S\_4052



3. Disconnect the connector (3).



4. Remove the control panel.

# Replacement

Replacement is the reverse of the removal procedure.

# **REP 2.2 UI Control Panel Hinge**

Parts List on PL 2.05

#### Removal



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



### Figure 1 ESD Symbol

- 1. Remove the right cover. See REP 28.2
- 2. Remove the DADF. See REP 5.1
- 3. Remove the control panel. See REP 2.1
- 4. Remove the cover (1).



VLB415S\_4054

5. Remove the cover (2).

181 XeroxVersaLink B415 Mono MFP September 2023 **REP 2.2** 



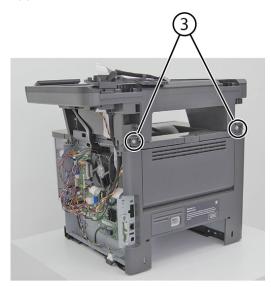
VLB415S\_4055

VLB415S\_4056



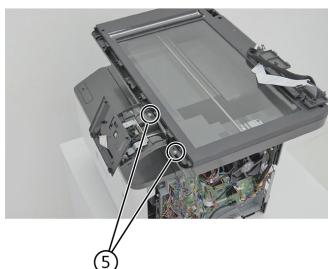
VLB415S\_4057

6. Remove the screws (3).



7. Remove the top access cover (4) REP 28.4.

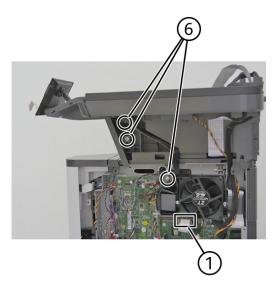
8. Remove the screws (5).



VLB415S\_4058

9. Remove the screws (6).

10. Disconnect the connector (7), and then unroute the cable.



VLB415S\_4059

11. Remove the control panel hinge.

# Replacement

Replacement is the reverse of the removal procedure.

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## **REP 3.1 Controller PWB**

Parts List on PL 3.05

#### **Initial Actions**

#### **Pre-Removal Requirements**

- Check the UI control panel, if available, for any active faults. Resolve as required in the corresponding RAP.
- 2. Enter Diagnostics, GP 1. Enter, dC361 NVM Save and Restore, then touch **Machine NVM** to save all device platform settings to the hard drive.
- 3. While still in dC361, click on each file listed, then select **Copy to USB device** as a second backup.
- 4. Exit Diagnostics, GP 1.
- 5. Shutdown the machine, GP 10.



Figure 1 ESD Symbol



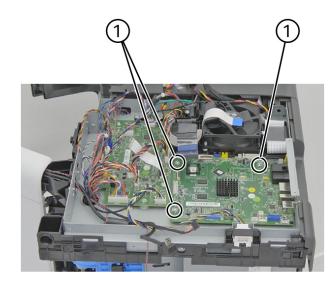
**CAUTION:** Never install a drive PWB and controller PWB in the same task. Install one, then check if the issue is resolved before installing the other PWB.

#### Removal



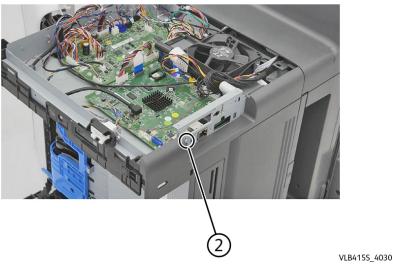
**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Remove the right cover, REP 28.2.
- 2. Remove the fax PWB, REP 20.1.
- 3. Remove the wireless card.
- 4. Disconnect all the connectors on the controller PWB.
- 5. Remove three screws (1).



VLB415S\_4029

6. Remove the screw (2).



7. Remove the controller PWB.

# Replacement



**CAUTION:** The serial number is stored and synchronized between the controller PWB, drive PWB, and black toner cartridge. Always install these items individually. After installation of either one of these items, ensure the black toner cartidge is installed, then switch on the machine, GP 10, to allow the serial number to synchronize before proceeding to install the next item. Refer to dC132 Machine Serial Number.

Replacement is the reverse of the removal procedure.

### Post—Replacement Requirements

Perform the following steps to return the machine to **Customer Mode** after installation of a new controller PWB.

1. Switch on the machine, GP 10.

**Note:** While the machine is booting up for the first time after a new controller PWB is installed, encryption will initiate. Allow time for encryption to complete before the machine comes to **Ready**.

- After the machine completes encryption and comes to Ready, perform, GP 4 Software Upgrade, using the Special ALTBOOT procedure.
- 3. After the machine restarts from the software upgrade, enter Diagnostics, GP 1.
- 4. Enter dC131 NVM Read/Write.
  - a. Enter the chain-link [616–014], then change the value to 4 and save.
  - b. Exit Diagnostics, GP 1.
- 5. Restart the machine, GP 10.

**Note:** For any software issues resulting in failed restarts after installing a new controller PWB, refer to, 322-365-00, to resolve issues.

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# **REP 5.1 DADF Assembly**

Parts List on PL 5.05

#### Removal



**WARNING:** Switch off the electricity to the machine, **GP 10.** Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



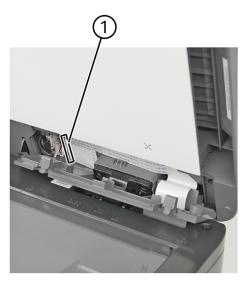
Figure 1 ESD Symbol

1. Release the latches, and then remove the cover.



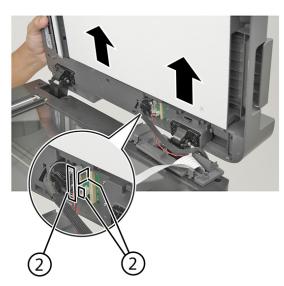
VLB415S\_4128

2. Disconnect the FFC (1).



VLB415S\_4129

3. Slightly lift the DADF, and then disconnect the cables (2).



VLB415S\_4130

4. Remove the DADF Assembly.

# Replacement

Replacement is the reverse of the removal procedure.

# **REP 5.2 DADF Top Cover**

Parts List on PL 5.05

#### Removal



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

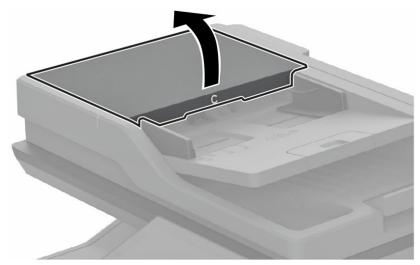


Figure 1 ESD Symbol

1. Open door C.

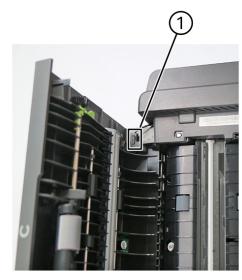


**WARNING:** To prevent damage from electrostatic discharge, touch any exposed metal frame of the printer before accessing or touching interior areas of the printer.



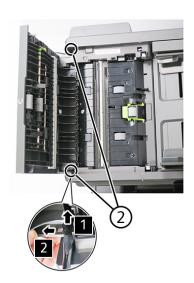
VLB415S\_4125

2. Disconnect the cable (1).



VLB415S\_4135

3. Using a flat-blade screwdriver, release the hinges (2).



4. Remove the DADF top cover.

# Replacement

Replacement is the reverse of the removal procedure.

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# **REP 5.3 DADF Left and Right Hinges**

Parts List on PL 5.05

#### Removal



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



Figure 1 ESD Symbol

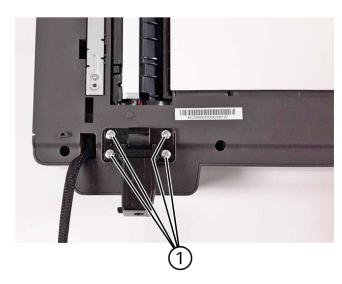
DADF Left Hinge Removal

- 1. Remove the DADF. See REP 5.1
- 2. Remove the four screws (1), and then remove the hinge.



#### DADF Left Hinge Removal

- 1. Remove the DADF. See REP 5.1
- 2. Remove the four screws (1), and then remove the hinge.



VLC415S\_4261

## Replacement

Replacement is the reverse of the removal procedure.

# **REP 5.4 DADF Roller**

Parts List on PL 5.05

#### Removal



WARNING: Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



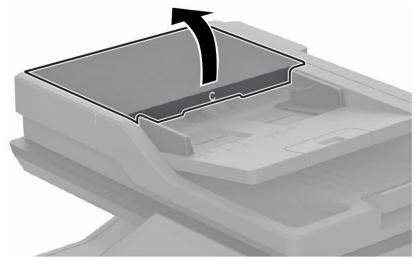
Figure 1 ESD Symbol

2. Remove the DADF pick roller.

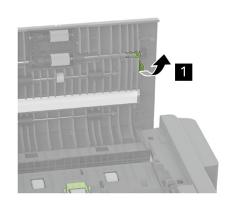
1. Open door C.

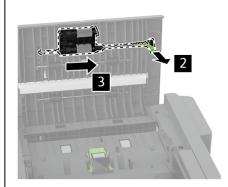


**WARNING:** To prevent damage from electrostatic discharge, touch any exposed metal frame of the printer before accessing or touching interior areas of the printer.



VLB415S\_4125



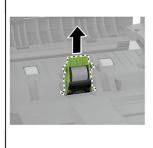


VLB415S\_4126

3. Remove the DADF separator roller.







VLC415S\_4250

# Replacement

Replacement is the reverse of the removal procedure.

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# **REP 5.5 Scanner Glass Pad**

Parts List on PL 5.05

#### Removal

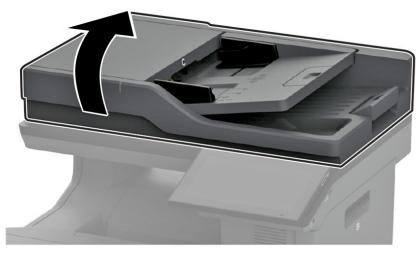


**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



Figure 1 ESD Symbol

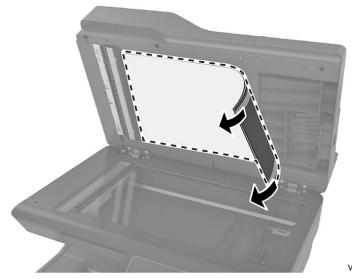
1. Open the scanner cover.



VLB415S\_4121

2. Slowly remove the scanner glass pad.

**Note:** The adhesive should not tear off the pad.



VLB415S\_4122

# Replacement

#### **Installation Notes**

1. Place the white area of the new scanner glass pad facedown on the scanner glass, and then remove the backing on the tape.

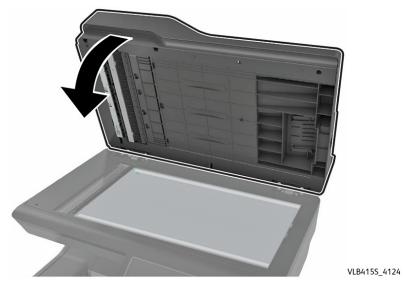




VLB415S\_4123

**Note:** Make sure that the scanner glass pad is aligned correctly on the edges of the scanner glass.

2. Close the scanner cover to stick the new scanner glass pad to the cover.



3. Open the scanner cover to check if the new scanner glass pad is properly attached to the cover.

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# REP 10.1 Fuser

Parts List on PL 10.05

### Removal



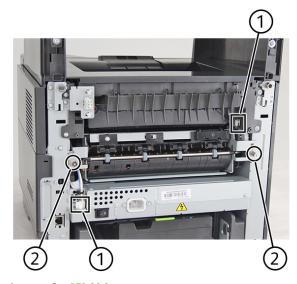
**WARNING:** Switch off the electricity to the machine, **GP 10.** Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



Figure 1 ESD Symbol

Note: For a video demonstration, seeFuser Removal

- 1. Remove the scanner rear cover. See REP 28.6
- 2. Remove the rear door. See REP 28.3
- 3. Disconnect the two cables (1), and then remove the two screws (2).



VLB415S\_4112

- 4. Remove the right cover. See REP 28.2
- 5. Disconnect the fuser cable from the controller board.
- 6. Remove the fuser.

# Replacement

Replacement is the reverse of the removal procedure.

# REP 20.1 Fax PWB

Parts List on PL 20.05

### Removal

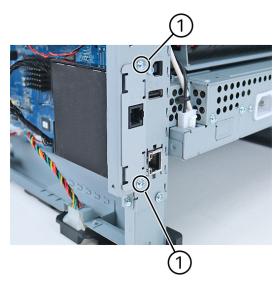


**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



Figure 1 ESD Symbol

- 1. Remove the right cover. See REP 28.2
- 2. Disconnect the fax PWB cable from the controller board, and then remove the two screws (1).



VLB415S\_4033

3. Remove the fax PWB.

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# **REP 28.1 Left Cover**

Parts List on PL 28.05

### Removal



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



Figure 1 ESD Symbol

1. Remove the screw (1).



VLB415S\_4001

- 2. Open the front door.
- 3. Release the two latches (2), then disengage the middle front part (3) of the cover from the front door.



VLB415S\_4002



**CAUTION:** The DADF might swing open while you position the printer on its side.

4. Remove the Left Cover.

# REP 28.2 Right Cover Parts List on PL 28.05

#### Removal



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**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



Figure 1 ESD Symbol

1. Remove the screw (1).



VLB415S\_4018

2. Open the controller board cover, and then remove the screw (2).



VLB415S\_4019

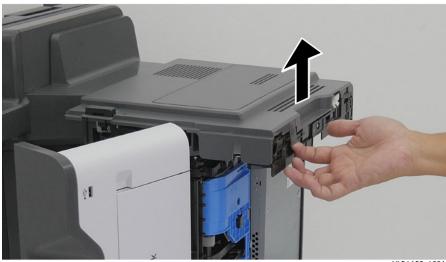
3. Remove the screw (3).



VLB415S\_4020

- 4. Place the printer on its left side, and then open the front door.
- 5. Lift the right cover, and then remove it.

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VLB415S\_4021

# REP 28.3 Rear Door

Parts List on PL 28.05

### Removal

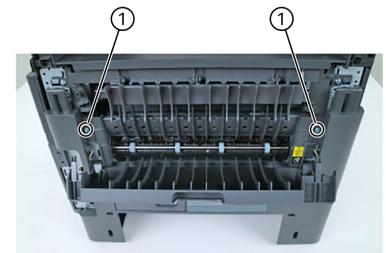


**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



# Figure 1 ESD Symbol

- 1. Remove the scanner rear cover. See REP 28.6
- 2. Remove the two screws (1), and then remove the door and cover.



VLB415S\_4110

# Replacement

Replacement is the reverse of the removal procedure.

# **REP 28.4 Top Access Cover**

Parts List on PL 28.05

#### Removal

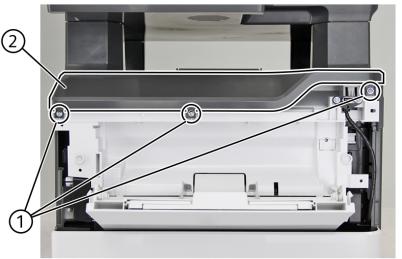


**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



Figure 1 ESD Symbol

1. Remove three screws (1), then remove the top access cover (2).



VLB415S\_4050

# Replacement

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Replacement is the reverse of the removal procedure.

# **REP 28.5 Top Cover**

Parts List on PL 28.05

#### Removal



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



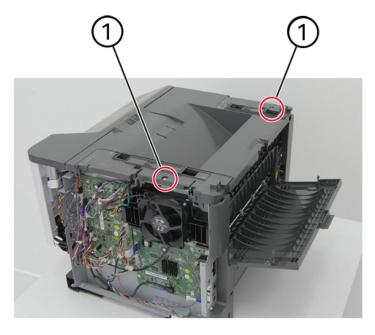
### Figure 1 ESD Symbol

- 1. Remove the right cover. See REP 28.2
- 2. Remove the control panel. See REP 2.1
- 3. Remove the control panel hinge. See REP 2.2
- 4. Remove the cooling fan. See REP 40.1
- 5. Remove the scanner rear cover. See REP 28.6
- 6. Remove the flatbed scanner. See REP 60.2
- 7. Open the rear door, and then remove the screws (1).

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REP 28.4



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VLB415S\_4118

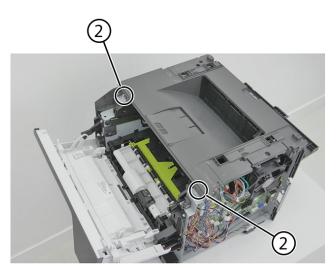
10. Remove the top cover.

# Replacement

VLB415S\_4035

Replacement is the reverse of the removal procedure.

8. Open the front door, and then remove the screws (2).



VLB415S\_4117

9. Release the latch (3).

# **REP 28.6 Scanner Rear Cover**

Parts List on PL 28.05

### Removal



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



Figure 1 ESD Symbol

1. Remove the cover(1).



VLB415S\_4115

2. Remove the cover (2).

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VLB415S\_4116

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# **REP 28.7 Front Door Sensor**

Parts List on PL 28.05

### Removal

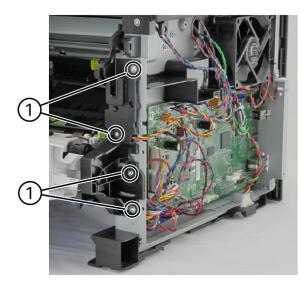


**WARNING:** Switch off the electricity to the machine, **GP 10.** Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

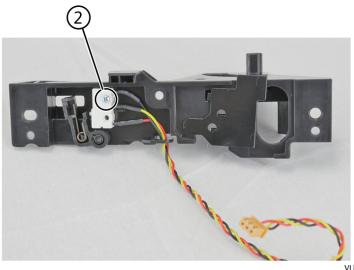


Figure 1 ESD Symbol

- 1. Remove the right cover. See REP 28.2
- 2. Disconnect the JCVR1 and control panel cables from the controller board.
- 3. Remove the four screws (1).



4. Using a #1 Phillips screwdriver, remove the screw (2).



VLB415S\_4063

5. Remove the sensor.

## Replacement

VLB415S\_4062

Replacement is the reverse of the removal procedure.

# REP 40.1 Cooling Fan Parts List on PL 40.10

### Removal

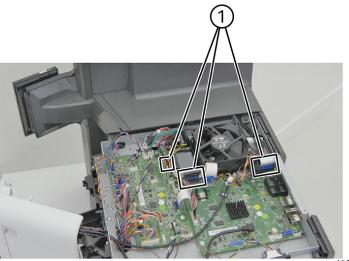


**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



Figure 1 ESD Symbol

- 1. Remove the right cover. See REP 28.2
- 2. Remove the tray insert.
- 3. Disconnect the connectors (1).

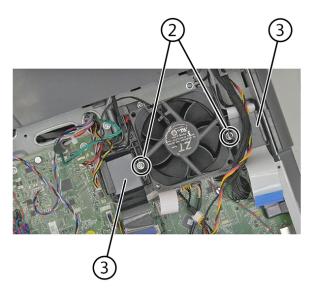


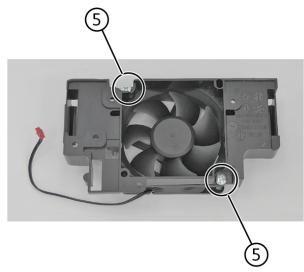
VLB415S\_4025

- 4. Remove the screws (2).
- 5. Unroute the cables (3).

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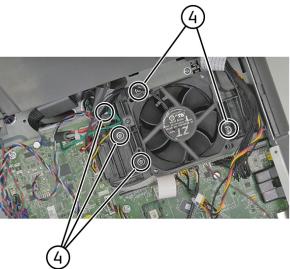
201





VLB415S\_4026

6. Remove the screws (4).



VLB415S\_4027

7. Remove the screws (5).

8. Remove the cooling fan from its housing.

VLB415S\_4028

# **REP 40.2 Main Drive Gearbox**

Parts List on PL 40.05

### Removal

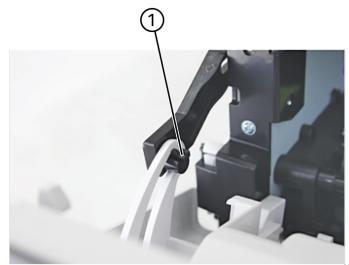


**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



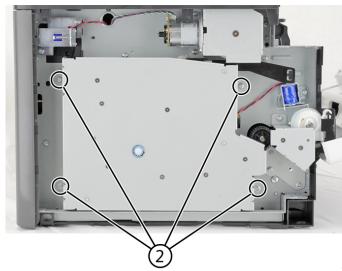
Figure 1 ESD Symbol

- 1. Remove the left cover. See REP 28.1
- 2. Release the latch (1), and then detach the link.



VLB415S\_4003

3. Remove the four screws (2).



VLB415S\_4004

- 4. Disconnect the cable from the main drive gearbox.
- 5. Remove the gearbox.



**CAUTION:** Do not lose the fuser gear (3) and spring (4).



VLB415S\_4005

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# **REP 40.3 Fuser Actuator**

Parts List on PL 40.05

### Removal

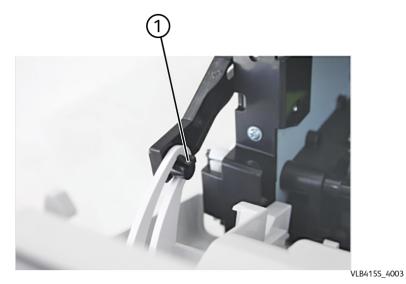


**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

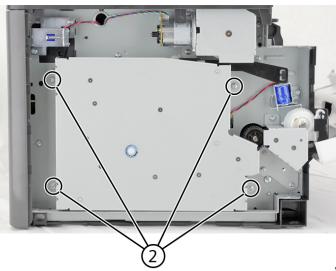


Figure 1 ESD Symbol

- 1. Remove the left cover. See REP 28.1
- 2. Release the latch (1), and then detach the link.

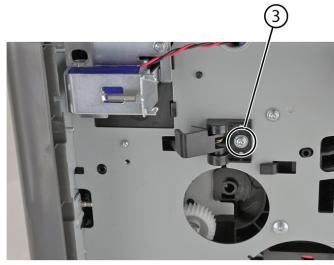


3. Remove the four screws (2).



VLB415S\_4004

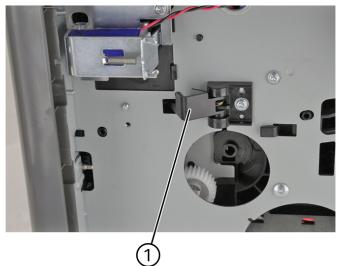
4. Remove the screw (3).



VLB415S\_4010

5. Remove the fuser actuator.

**Note:** To test if the actuator is properly installed, push, and then release the actuator (1). The actuator should bounce back.



VLB415S\_4011

# REP 40.4 Bypass Drive

Parts List on PL 40.05

### Removal

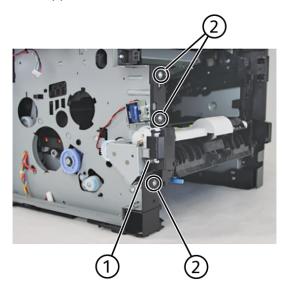


**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



### Figure 1 ESD Symbol

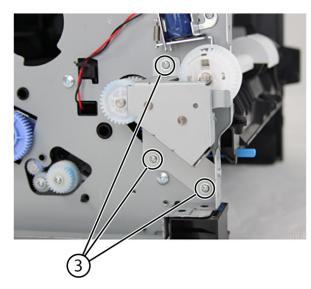
- 1. Remove the MPF/Bypass feed front cover. See REP 70.4
- 2. Remove the left cover. See REP 28.1
- 3. Remove the main drive gearbox. See REP 40.2
- 4. Disconnect the spring (1).
- 5. Remove the three screws (2) to loosen the mount.



VLB415S\_4006

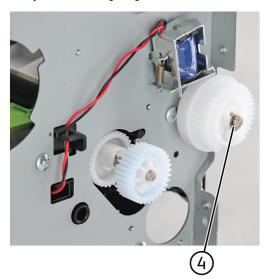
6. Remove the three screws (3) and the bracket.

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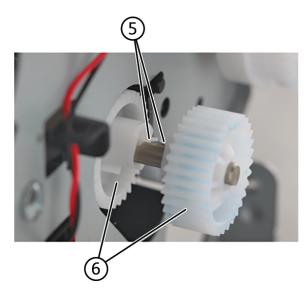


7. Remove the E-clip (4), and then remove the gear.

Note: The solenoid may hinder removing the gear.



8. Release the two latches (5), and then remove the gears (6).



VLB415S\_4007

# Replacement

Replacement is the reverse of the removal procedure.

VLB415S\_4008

VLB415S\_4009

## **REP 40.5 Reverse Solenoid**

Parts List on PL 40.05

#### Removal

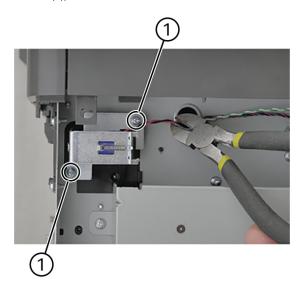


**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



Figure 1 ESD Symbol

- 1. Remove the left cover. See REP 28.1
- 2. Remove the right cover. See REP 28.2
- 3. Remove the scanner rear cover. See REP 28.6
- 4. Remove the rear door. See REP 28.3
- 5. Remove the redrive. See REP 80.10
- 6. Remove the two screws (1), and then cut the cable.



VLB415S\_4012

7. Disconnect connector JDUPSOL1 from the controller board, and then pull the cable out of the printer.

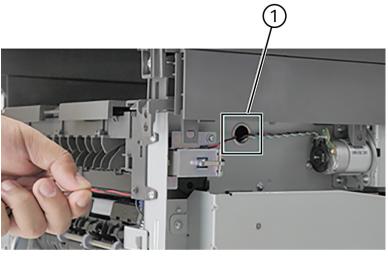
## Replacement

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Installation notes:

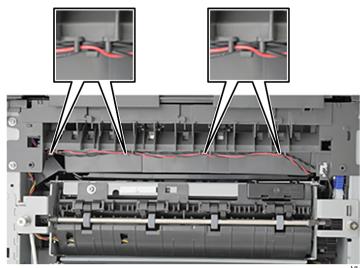
- 1. Screw in place the replacement solenoid.
- 2. Route the solenoid cable to the hole (1) exiting the rear side of the printer.

**Note:** Fully stretch the cable, but do it carefully to avoid cuts as it rubs into the edges of the



VLB415S\_4013

- 3. Install the redrive assembly.
- 4. Route the cable onto the redrive assembly. Make sure that the cable properly sits on the clamps.



VLB415S\_4014

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# **REP 40.6 Bypass Solenoid**

Parts List on PL 40.05

#### Removal

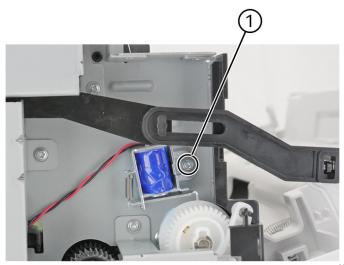


**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



### Figure 1 ESD Symbol

- 1. Remove the left cover. See REP 28.1
- 2. Remove the screw (1).



VLB415S\_4015

- 3. Cut the cable, and then remove the solenoid.
- 4. Remove the rear door. See REP 28.3
- 5. Remove the HVPS/LVPS PWB. See REP 1.1
- 6. Remove the duplex unit. See REP 80.6
- 7. Release the cut cable.

Note: Pay attention to the cable route.

8. Open the controller board access cover, and then disconnect the cable.

# REP 40.7 Pick/Lift Motor Drive Assembly

Parts List on PL 40.05

#### Removal

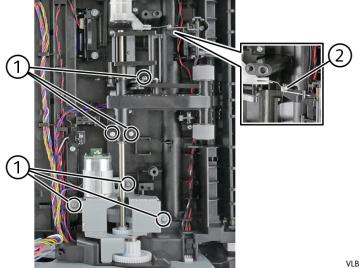


**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



### Figure 1 ESD Symbol

- 1. Remove the rear door. See REP 28.3
- 2. Remove the HVPS/LVPS PWB. See REP 1.1
- 3. Remove the duplex unit. See REP 80.6
- 4. Remove the six screws (1).
- 5. Detach the spring (2).



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- 6. Lift the pick roller assembly.
- 7. Disconnect the cable from the gearbox.
- 8. Remove the gearbox.

#### Replacement

Replacement is the reverse of the removal procedure.

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# **REP 40.8 Toner Drive Assembly**

Parts List on PL 40.05

### Removal

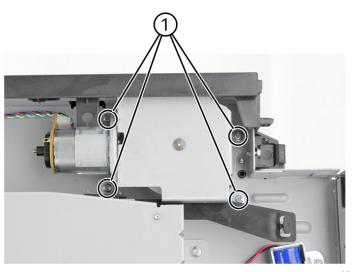


**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



Figure 1 ESD Symbol

- 1. Remove the left cover. See REP 28.1
- 2. Remove the four screws (1).



VLB415S\_4016

3. Remove the screw (2).

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VLB415S\_4017

- 4. Lift the top cover enough to remove the cartridge gearbox.
- 5. While lifting the cover, disconnect the cable from the gearbox, and then remove the toner drive assembly.

## REP 60.1 Printhead

Parts List on PL 60.05

#### Removal

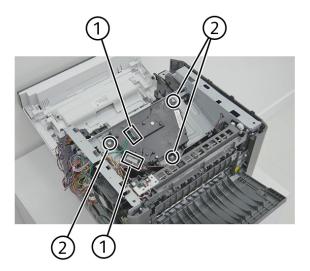


**WARNING:** Switch off the electricity to the machine, **GP 10.** Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



### Figure 1 ESD Symbol

- 1. Remove the right cover. See REP 28.2
- 2. Remove the DADF assembly. See REP 5.1
- 3. Remove the control panel. See REP 2.1
- 4. Remove the control panel hinge. See REP 2.2
- 5. Remove the cooling fan. See REP 40.1
- 6. Remove the flatbed scanner. See REP 60.2
- 7. Remove the top cover. See REP 28.5
- 8. Disconnect the printhead cable in the engine board.
- 9. Disconnect the connectors (1).
- 10. Remove the screws (2).



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11. Remove the printhead.

#### Replacement

Replacement is the reverse of the removal procedure.

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# **REP 60.2 Flatbed Scanner**

Parts List on PL 60.10

### Removal



**WARNING:** Switch off the electricity to the machine, **GP 10.** Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



Figure 1 ESD Symbol

- 1. Remove the right cover. See REP 28.2
- 2. Remove the DADF assembly. See REP 5.1
- 3. Remove the scanner rear cover. See REP 28.6
- 4. Release the control panel hinge (1).

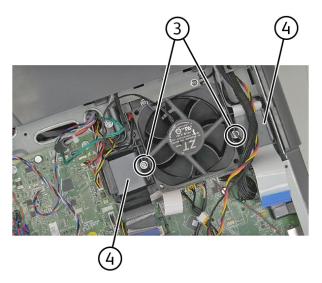


5. Remove the top access cover (2) REP 28.4.



VLB415S\_4132

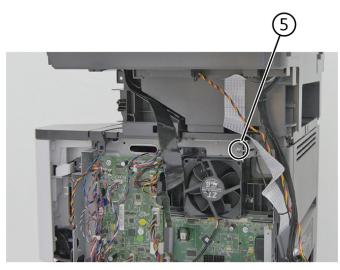
- 6. Remove the screws (3).
- 7. Unroute the cables (4).



VLB415S\_4133

8. Remove the screw (5).

VLB415S\_4131



VLB415S\_4134

9. Remove the flatbed scanner.

# Replacement

Replacement is the reverse of the removal procedure.

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## **REP 70.1 Pick Roller Assy**

Parts List on PL 70.05

#### Removal



WARNING: Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



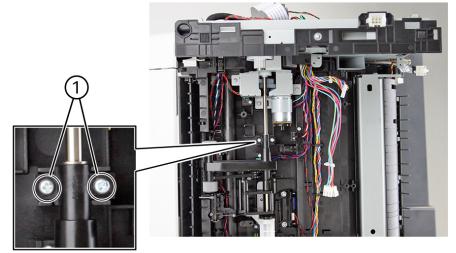
#### Figure 1 ESD Symbol

- 1. Remove the left cover. See REP 28.1
- 2. Remove the right cover. See REP 28.2
- 3. Remove the scanner rear cover. See REP 28.6
- 4. Remove the rear door. See REP 28.3
- 5. Position the printer on its left side.



**CAUTION:** The DADF might swing open while you position the printer on its side.

- 6. Remove the HVPS/LVPS PWB. See REP 1.1
- 7. Remove the duplex unit. See REP 80.6
- 8. Remove the two screws (1).



VLB415S\_4086

9. Remove the assembly.

#### Replacement

Replacement is the reverse of the removal procedure.

**Note:** Pay attention to the correct position of the arm when installing the assembly.



VLB415S\_4087

## **REP 70.2 Separator Roller Assy**

Parts List on PL 70.15

#### Removal



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



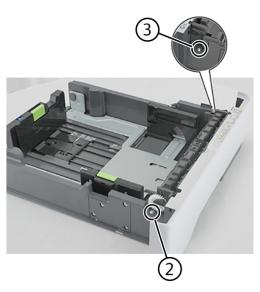
Figure 1 ESD Symbol

- 1. Remove the tray insert.
- 2. Under the tray, remove the screw (1).



VLB415S\_4139

3. Remove the screw (2) on the left side. Do the same for the screw (3) on the opposite side.



VLB415S\_4140

4. Remove the roller assembly.

### Replacement

Replacement is the reverse of the removal procedure.

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## REP 70.3 MPF/Bypass Feed Assembly

Parts List on PL 70.05

#### Removal



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

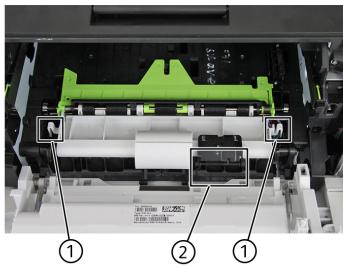


Figure 1 ESD Symbol

- 1. Open the front door.
- 2. Press the latches (1), and then open the cover.

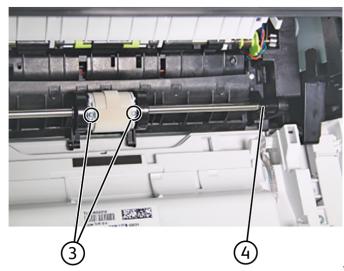


**CAUTION:** Avoid damaging the MPF sensor flag (2) when removing the cover.



VLB415S\_4064

- 3. Using a #1 Phillips screwdriver, remove the two screws (3).
- 4. Hold the end of the shaft (4), and then pull out the roller to remove it.



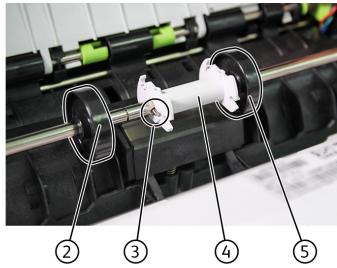
VLB415S\_4065

5. Remove the two E-clips (1).



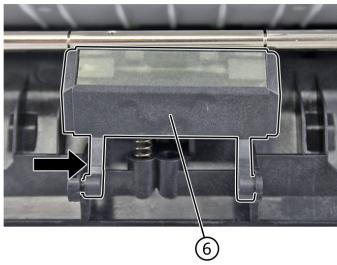
VLB415S\_4066

- 6. Move the roller (2) to the left, and then remove the pin (3).
- 7. Move the hub (4) and roller (5) to the right.



VLB415S\_4067

8. Push the separator pad (6) to the right.



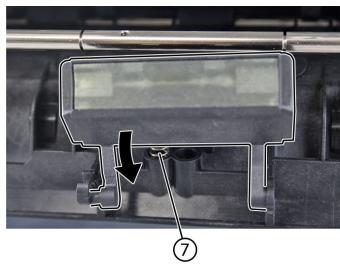
VLB415S\_4068

9. Push down the pad to remove it.



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**CAUTION:** Do not lose the spring (7).



VLB415S\_4069

## Replacement

Replacement is the reverse of the removal procedure.

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REP 70.3

## REP 70.4 MPF/Bypass Feed Front Cover

Parts List on PL 70.10

#### Removal



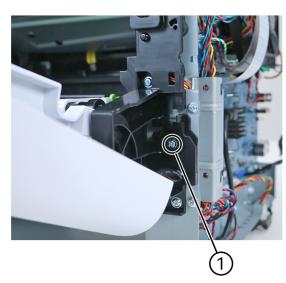
**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

**Note:** When installing a new MPF/bypass front feed cover PL 70.10, be sure to transfer the TAGs checked off on the TAG label from the old MPF/bypass front feed cover.



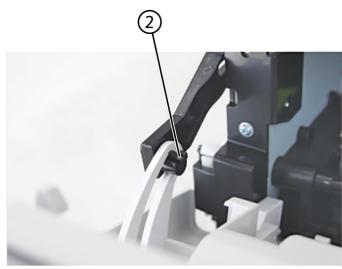
Figure 1 ESD Symbol

- 1. Remove the right cover. See REP 28.2
- 2. Remove the screw (1).



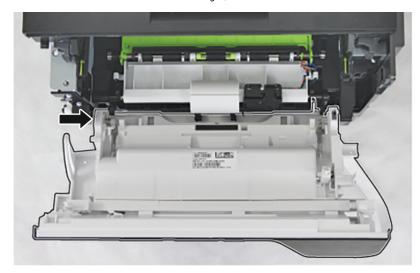
VLB415S\_4047

3. Release the latch (2), and then detach the link.



VLB415S\_4048

- 4. Disconnect JFUSB1 cable on the controller board.
- 5. Push the MPF with front access cover to the right, and then remove it.



VLB415S\_4049

## Replacement

**Note:** When installing a new MPF/bypass front feed cover PL 70.10 , be sure to transfer the TAGs checked off on the TAG label from the old MPF/bypass front feed cover.

The replacement is the reverse of the removal procedure.

## **REP 70.5 Paper Present Sensor**

Parts List on PL 70.05

#### Removal

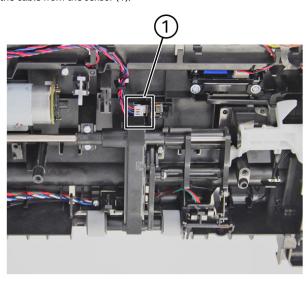


**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



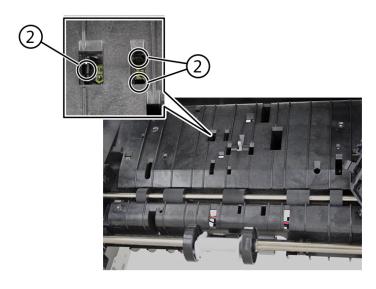
Figure 1 ESD Symbol

- 1. Remove the rear door. See REP 28.3
- 2. Remove the HVPS/LVPS PWB. See REP 1.1
- 3. Remove the duplex unit. See REP 80.6
- 4. Disconnect the cable from the sensor (1).



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5. Release the three latches (2).



VLB415S\_4092

## Replacement

Replacement is the reverse of the removal procedure.

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## REP 70.6 Toner Density/Media Present Sensor Flag

Parts List on PL 70.05

#### Removal



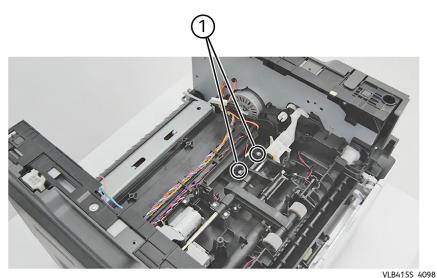
**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



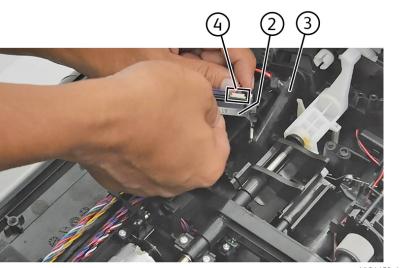
Figure 1 ESD Symbol

Note: For a video demonstration, see Media Sensor Flag Removal

- 1. Remove the toner cartridge, and then remove the imaging unit.
- 2. Remove the tray insert.
- 3. Remove the rear door. See REP 28.3
- 4. Remove the HVPS/LVPS PWB. See REP 1.1
- 5. Remove the duplex unit. See REP 80.6
- 6. Remove the screws (1).

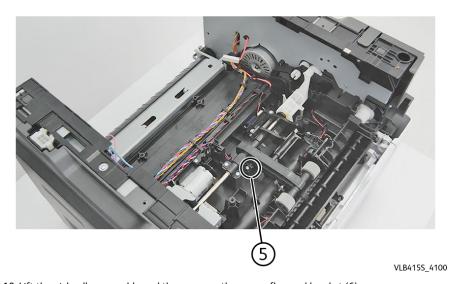


- 7. Remove the sensor (2), and then remove the wiper (3).
- 8. Disconnect the connector (4).

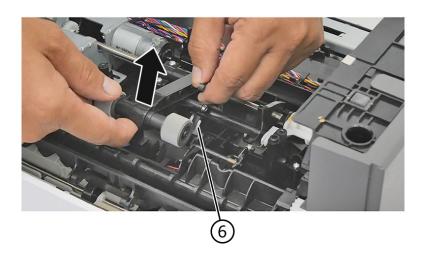


VLB415S\_4099

9. Remove the screw (5).



10. Lift the pick roller assembly and then remove the sensor flag and bracket (6).

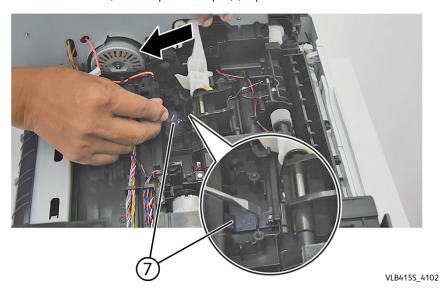


VLB415S\_4101

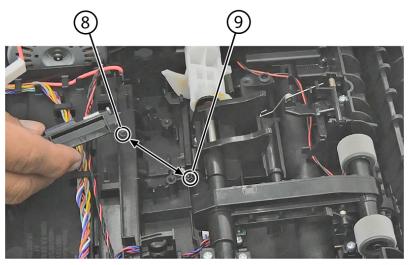
## Replacement

Refer to the following procedures when installing the toner density sensor and media present sensor flag:

1. Pull down the actuator, and then place the wiper (7) in position.



2. Attach the sensor bracket (8) and the spring (9).

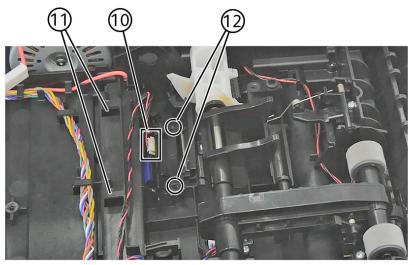


VLB415S\_4103

3. Connect the connector (10) to the sensor, and then route the cable on the harness (11).

**Note:** Before securing the sensor bracket using screws, do the following:

- a. Lift the actuator.
- b. If the wiper goes along with the actuator, then the sensor bracket is properly engaged with the wiper.
- 4. Secure the sensor bracket using screws (12).



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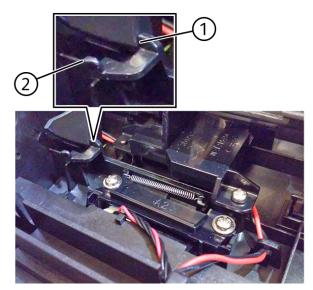
**Note:** After securing the sensor bracket using screws, do the following:

a. Apply RheoGel 793 to the top and bottom of the shutter blade extension.



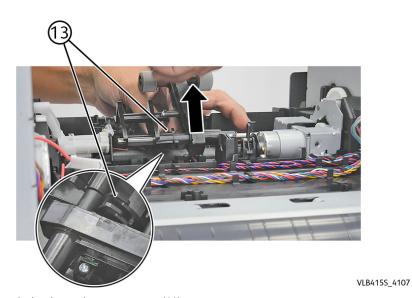
VLB415S\_4105

- b. Apply RheoGel 793 to the point of contact between the bracket (1) and cam.
- c. Apply RheoGel 793 to the point of contact to the lower edge (2) where the wiper bracket glides.

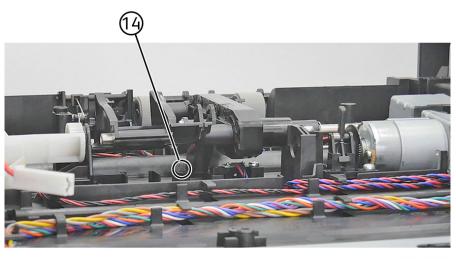


VLB415S\_4106

5. Lift the pick roller assembly, and then place the bracket (13) in position.

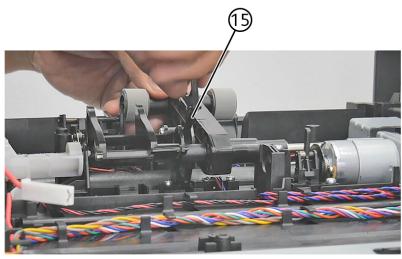


6. Secure the bracket in place using screws (14).



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7. Install the sensor flag (15) into the bracket.



VLB415S\_4109

**Note:** To check if the sensor flag is properly installed, do the following:

- a. Lift the pick roller assembly.
- b. If the sensor flag goes along with the pick roller assembly when lifted, then the sensor flag is properly installed.

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## **REP 80.1 Interconnect Harness**

Parts List on PL 80.10

#### Removal

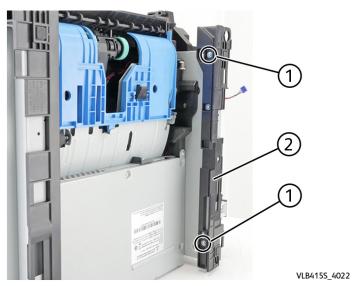


**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

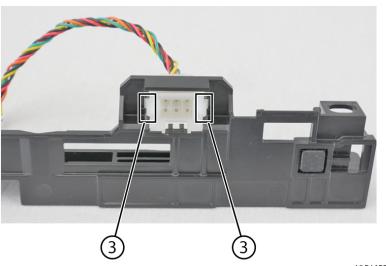


Figure 1 ESD Symbol

- 1. Remove the right cover. See REP 28.2
- 2. Position the printer on its rear side.
- 3. Disconnect the cable JOPT1 from the controller board.
- 4. Remove the two screws (1).
- 5. Detach the right foot (2).



6. Release the two latches (3).



VLB415S\_4023

7. Remove the cable.

Replacement is the reverse of the removal procedure.

## **REP 80.2 Jam Access Cover**

Parts List on PL 80.10

#### Removal



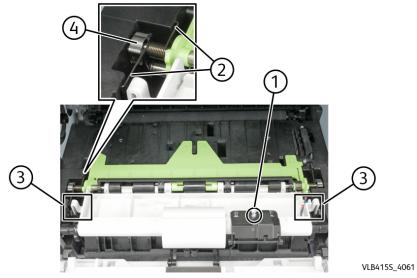
**WARNING:** Switch off the electricity to the machine, **GP 10.** Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



#### Figure 1 ESD Symbol

- 1. Open the front door.
- 2. Remove the screw (1), and then release the cable from the jam access cover.
- 3. Push down, and then pull the two ends (2) of the springs to remove them.
- 4. Repeat step 3 for the other side.
- 5. Release the two latches (3).
- 6. Remove the clip (4).

Note: Some models do not have the clip (4) installed.



7. Remove the cover.

## Replacement

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REP 80.2

## REP 80.3 MPF/Duplex Paper Present Sensor

Parts List on PL 80.10

#### Removal

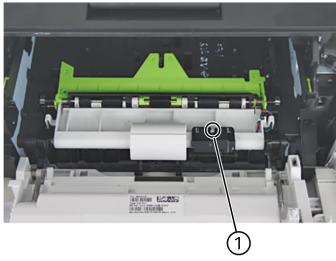


**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



Figure 1 ESD Symbol

- 1. Open the front door.
- 2. Remove the screw (1).



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- 3. Open the controller board access cover, disconnect the cable JMPFPP1, and then release the cable.
- 4. Remove the sensor.

#### Replacement

Note: Pay attention to the position of the MPF sensor flag when installing the sensor.

Replacement is the reverse of the removal procedure.

## **REP 80.4 Tray Sensor**

Parts List on PL 80.10

#### Removal

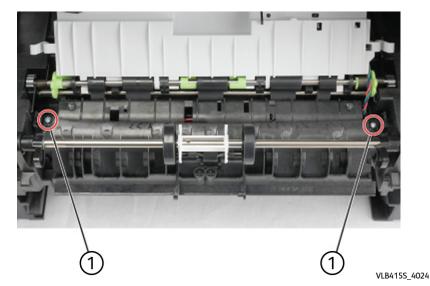


**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



Figure 1 ESD Symbol

- 1. Remove the MPF/Bypass feed front cover. See REP 70.4
- 2. Release the three latches (1), and then pry to remove the sensor.



3. Unroute and disconnect the cables.

## Replacement

Replacement is the reverse of the removal procedure.

## **REP 80.5 Front Input Guide**

Parts List on PL 80.10

#### Removal

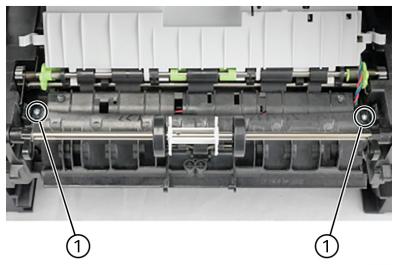


**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



#### Figure 1 ESD Symbol

- 1. Remove the MPF/Bypass feed front cover . See REP 70.4
- 2. Remove the MPF/Bypass feed assembly. See REP 70.3
- 3. Remove the two screws (1).



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4. Remove the front input guide.

#### Replacement

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Replacement is the reverse of the removal procedure.

## **REP 80.6 Duplex Unit**

Parts List on PL 80.05

#### Removal



**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



#### Figure 1 ESD Symbol

- 1. Remove the rear door. See REP 28.2
- 2. Remove the HVPS/LVPS PWB. See REP 1.1
- 3. Position the printer on its side.

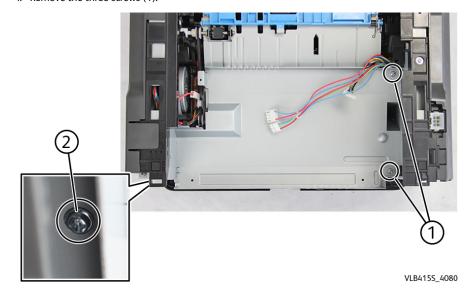


**CAUTION:** The DADF might swing open while you position the printer on its side.



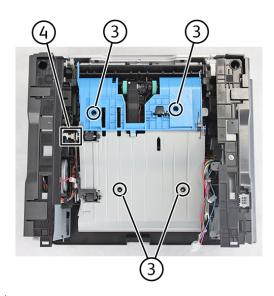
**CAUTION**: To avoid damaging the paper stop, close it after positioning the printer.

4. Remove the three screws (1).



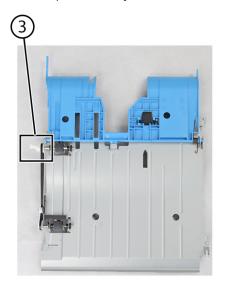
- 5. Remove the power supply shield.
- 6. Remove the four screws (2).

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#### 7. Remove the duplex.

Note: Make sure that the duplex link (3) stays attached.



## REP 80.7 Duplex/Input Sensor

Parts List on PL 80.05

#### Removal

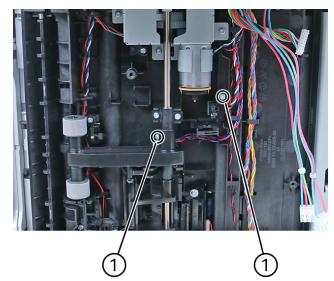


**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



#### Figure 1 ESD Symbol

- 1. Remove the rear cover. See REP 28.3
- 2. Remove the power supply. See REP 1.1
- 3. Remove the duplex. See REP 80.2
- 4. Remove the two screws (1), cut the cable near the frame, and then remove the sensors.



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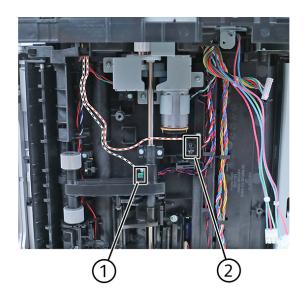
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VLB415S\_4081

- 5. Open the controller board access cover, and then disconnect the cable JDUPPI1.
- 6. Remove the cables.

Note: Route the sensor (input) cable (1) and sensor (duplex) cable (2) as shown.

VLB415S\_4084



## **REP 80.8 Index Sensor**

Parts List on PL 80.10

#### Removal

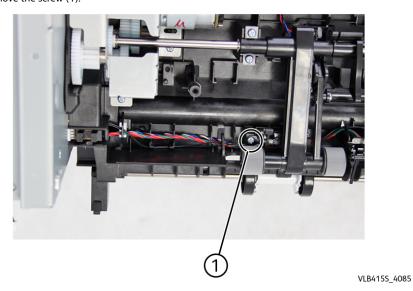


**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



#### Figure 1 ESD Symbol

- 1. Remove the rear door. See REP 28.3
- 2. Remove the HVPS/LVPS PWB. See REP 1.1
- 3. Remove the duplex unit. See REP 80.6
- 4. Remove the right cover. See REP 28.2
- 5. Disconnect the cable JINDEX1.
- 6. Remove the screw (1).



7. Remove the index sensor.

## Replacement

Replacement is the reverse of the removal procedure.

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## **REP 80.9 Trailing Edge Sensor**

Parts List on PL 80.10

#### Removal

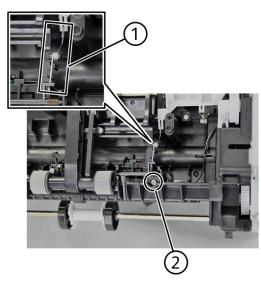


**WARNING:** Switch off the electricity to the machine, **GP 10.** Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



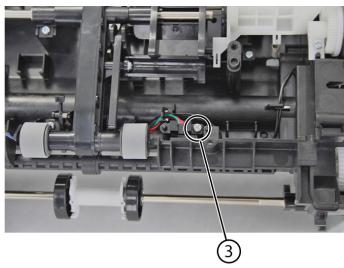
Figure 1 ESD Symbol

- 1. Remove the rear door. See REP 28.3
- 2. Remove the HVPS/LVPS PWB. See REP 1.1
- 3. Remove the duplex unit. See REP 80.6
- 4. Open the controller board access cover, and then disconnect the cable JACM1.
- 5. Detach the spring (1), and then remove the screw (2) and sensor flag.



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6. Remove the screw (3) and sensor.



VLB415S\_4094

### Replacement

Replacement is the reverse of the removal procedure.

### **REP 80.10 Redrive**

Parts List on PL 80.10

#### Removal

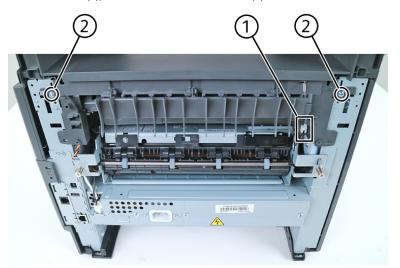


**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



#### Figure 1 ESD Symbol

- 1. Remove the scanner rear cover. See REP 28.6
- 2. Remove the rear door. See REP 28.3
- 3. Disconnect the cable (1), and then remove the two screws (2).



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- 4. Remove the right cover. See REP 28.2
- 5. Disconnect the redrive cable from the controller board.
- 6. Remove the redrive.

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### **REP 80.11 Redrive Gear Plate**

Parts List on PL 80.10

#### Removal



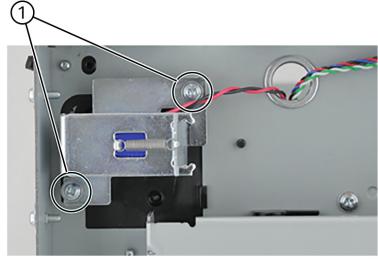
**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



#### Figure 1 ESD Symbol

- 1. Remove the top cover. See REP 28.5
- 2. Remove the left cover. See REP 28.1
- 3. Remove the redrive. See REP 80.10
- 4. Remove the two screws (1), and then detach the reverse solenoid.

Note: Do not disconnect the reverse solenoid cable from the controller board.



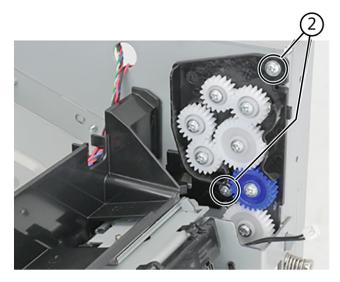
VLB415S\_4113

- 5. Remove the fuser. See REP 10.1
- 6. Remove the two screws (2).

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REP 80.10



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7. Remove the redrive gear plate.

### **REP 90.1 Transfer Roller**

Parts List on PL 90.05

#### Removal



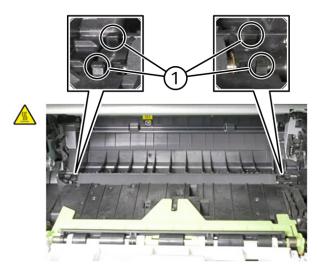
**WARNING:** Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



Figure 1 ESD Symbol

Note: For a video demonstration, see Transfer Roller Removal

- 1. Open the front door.
- 2. Release the two latches (1) on each end of the transfer roller.



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3. Remove the transfer roller.

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## REP 90.2 Toner Cartridge Smart Chip Contact

Parts List on PL 90.05

#### Removal

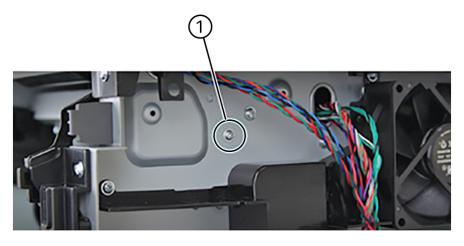


**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



Figure 1 ESD Symbol

- 1. Remove the right cover. See REP 28.2
- 2. Remove the controller board. See REP 3.1
- 3. Remove the screw (1).



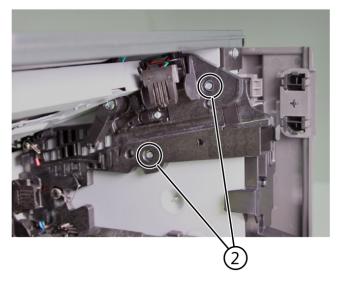
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- 4. Remove the two screws (2), and then lower the right cartridge guide.
- 5. Slightly pull the right cartridge guide to detach it.



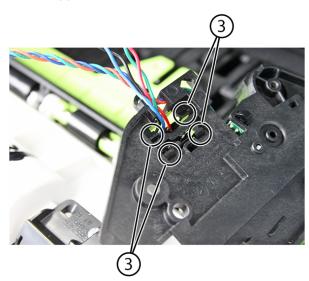
**CAUTION:** To avoid damaging the right cartridge guide, do not cut or disconnect the cable at the rear of the cartridge guide. Leave the cartridge guide dangling.

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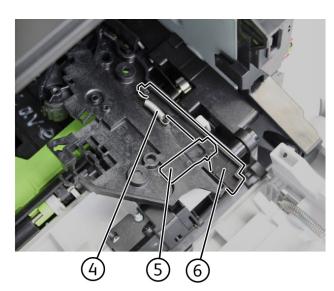
6. Release the four latches (3).



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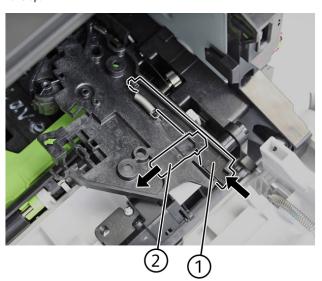
7. Remove the toner cartridge smart chip contact.

Note: Note the original position of the spring (4), actuator (5), and lock (6).



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**Note:** To test if the spring and actuator are properly installed, press the actuator (1). The lock (2) should move up.



VLB415S\_4041

## Replacement

Replacement is the reverse of the removal procedure.

## **REP 90.3 Toner Sensor**

Parts List on PL 90.05

#### Removal

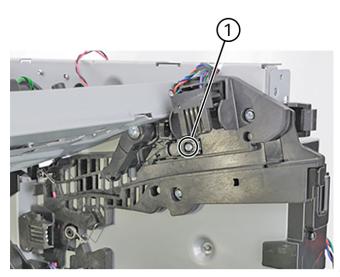


WARNING: Switch off the electricity to the machine, GP 10. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.



Figure 1 ESD Symbol

- 1. Remove the top cover. See REP 28.5
- 2. Remove the right cover. See REP 28.2
- 3. Disconnect the cable JCVR1 from the controller board.
- 4. Remove the screw (1), and then remove the bracket, actuator, spring, and sensor.



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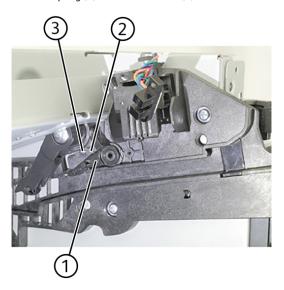
## Replacement

#### Installation notes

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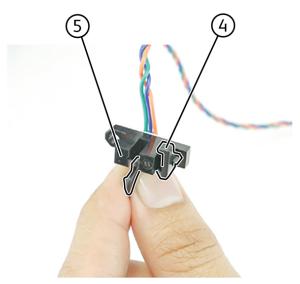
1. Install the sensor (cartridge barrel shutter) actuator (1) as shown.

Note: Make sure that the spring (2) is behind the boss (3).



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2. Install the bracket (4) to the sensor (5) as shown.

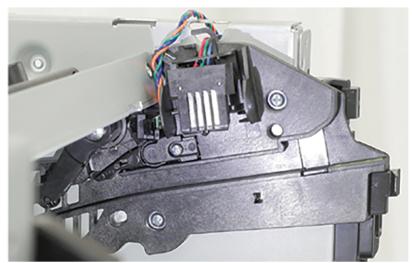


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3. Install the sensor and bracket as shown.

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**Note:** Make sure that sensor is aligned with the actuator.



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## ADJ 5.1 DADF Registration Adjustment

- 1. Login as Administrator
- 2. From the Home screen click on Tools > Troubleshooting > Calibration > Scanner Manual Registration
- 3. Select **Side 1**, **Side 2** for the correct DADF registration test.
- 4. Follow the on screen procedure.

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## ADJ 60.1 Scanner Manual Registration Adjustment

1. Login as Administrator

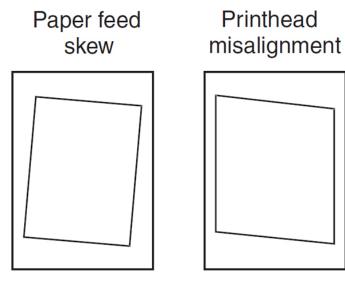
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- From the Home screen click on Tools > Troubleshooting > Calibration > Scanner Manual Registration
- 3. Select **Document Glass** (scanner).
- 4. Follow the on screen procedure.

## ADJ 60.2 Printhead Adjustment

A printhead must be correctly positioned after it has been removed. Use a sharp pencil or a small, flat-blade screwdriver to mark the location of the old printhead on the printer frame. Align the new printhead relative to the location of the old printhead.

**Note:** Skew is caused by a sheet being fed through the printer while misaligned. The entire image is rotated relative to the sheet edges. However, a mechanically misaligned printhead causes the horizontal lines to appear skewed, while the vertical lines remain parallel to the vertical edges. The skew cannot be adjusted. Check the pick tires for wear, the paper path for obstructions, the fuser for proper setting, and the tray paper guides for proper setting.



VLB415S\_4119

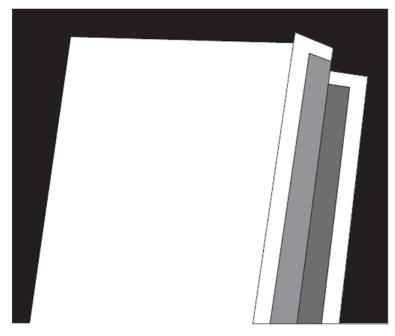
To adjust the printhead:

- 1. Switch OFF, then switch ON the machine, GP 10.
- Enter the Diagnostics menu GP 1, and then print a Quick test page: Diagnostics Menu > Print Tests > Tray 1 > Single
- 3. Fold the printed test page on the left side so that a few millimeters of grid lines wrap around the outside of the fold.
- 4. Make a second vertical fold near the center so that the left side top edge aligns with the right side top edge.

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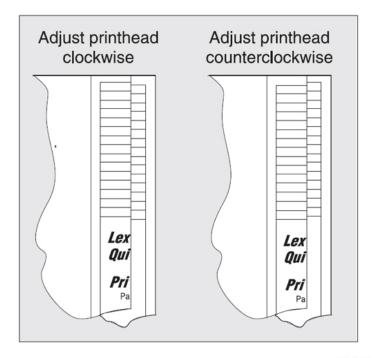
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ADJ 60.1



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5. If the grid lines of the right flap align below the corresponding lines on the left side, then adjust the printhead clockwise relative to the printer, and recheck. If the grid lines of the left flap align below the corresponding lines of the right side, then adjust the printhead counterclockwise.



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- 6. Print another Quick test page, and check if adjustments are still needed.
- 7. After obtaining a properly adjusted image on the paper, tighten all the screws.

**Note:** Note: If necessary, print a Quick test page again and perform the Registration adjust procedure to correct the skew and misalignments. See dC126

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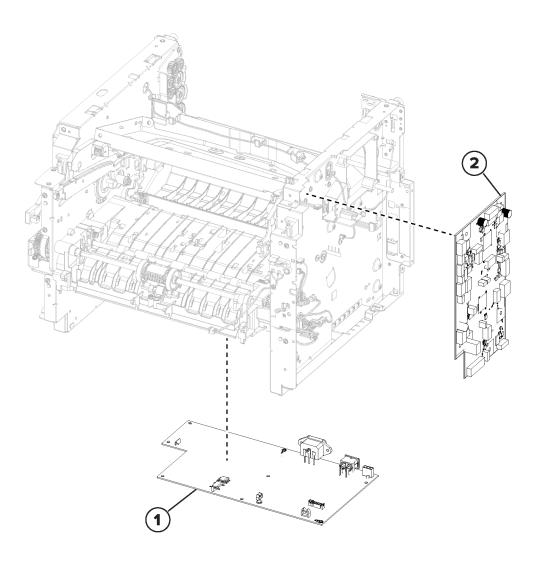
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Revised Update 5 Parts List

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5 Parts List Revised Update

PL 1.05 Electrical			
Item	Part	Description	
1	105N02416	HV/LV PS 110V (REP 1.1)	
_	105N02415	HV/LV PS 230V (REP 1.1)	
2	140N63969	Drive PWB (Engine Board) (REP 1.2)	



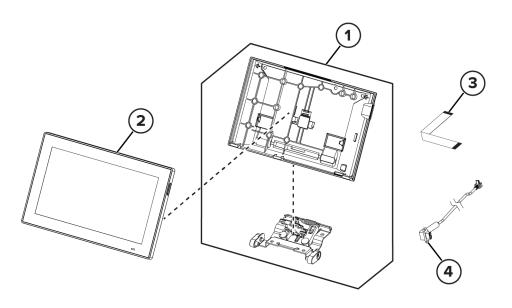
vlb415s5001a

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Revised Update 5 Parts List

5 Parts List Revised Update

PL 2.05 User Interface			
Item	Part	Description	
1	003N01206	Control panel hinge (REP 2.2)	
2	002N03701	Control panel (REP 2.1)	
3	117N02419	Control panel flat cable	
4	117N02416	Front USB cable	



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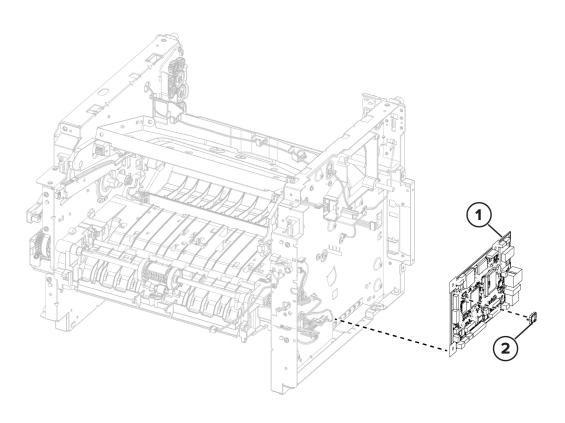
September 2023 PL 2.05 243 XeroxVersaLink B415 Mono MFP

Revised Update 5 Parts List

5 Parts List Revised Update

# PL 3.05 Controller PWB Assembly Item Part Description

tem	Part	Description
1	109N00922	Controller PWB (REP 3.1)
2	133N23278	Trusted platform module (TPM)



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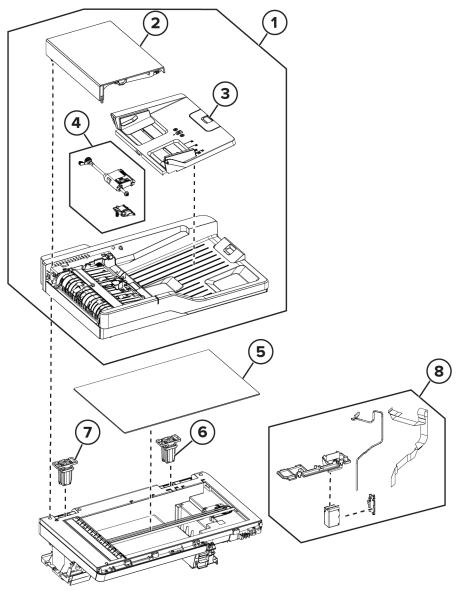
Revised Update 5 Parts List

5 Parts List Revised Update

## PL 5.05 DADF Components

Item 1	<b>Part</b> 022N02978	<b>Description</b> DADF assembly (REP 5.1)
2	002N03741	DADF top cover (REP 5.2) (P/O PI 5.05 Item 1)
3	050N00757	DADF tray (P/O PL 5.05 Item 1)
4	116R00039	DADF maintenance kit (REP 5.4) (P/O PL 5.05 Item 1) (See Note)
5	019N01167	Scanner glass pad (REP 5.5)
6	003N01200	DADF right hinge (REP 5.3)
7	003N01202	DADF left hinge (REP 5.3)
8	117N02409	DADF harness kit

Note: HFSI. To reset HFSI counter, refer to dC135



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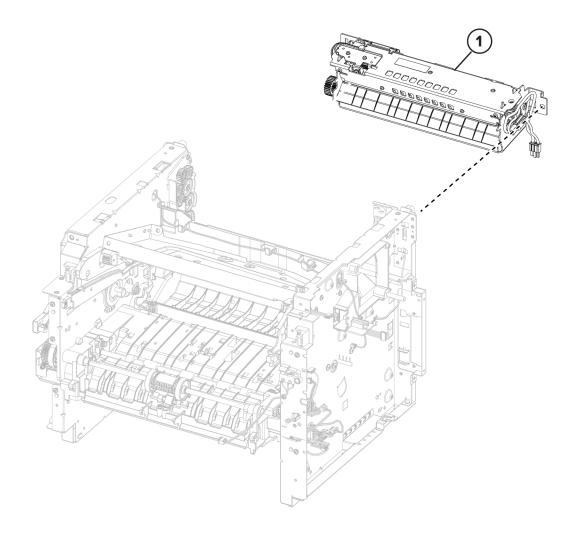
Revised Update 5 Parts List

5 Parts List Revised Update

## PL 10.05 Fuser

Item	Part	Description
1	126N00516	Fuser, 110 V (REP 10.1) (See Note)
_	126N00517	Fuser, 220 V (REP 10.1) (See Note)

Note: HFSI. To reset HFSI counter, refer to dC135



vlb415s5005a

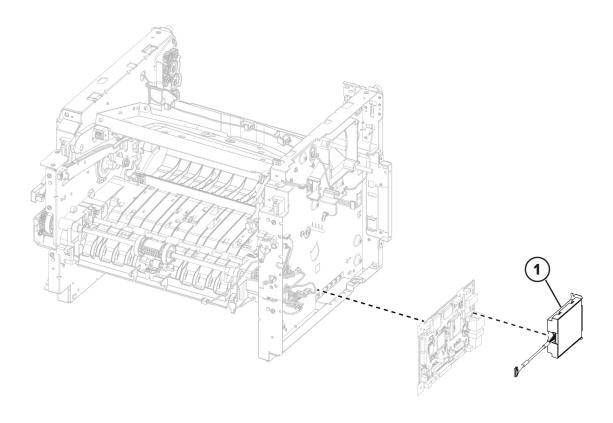
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 September 2023

 PL 10.05
 PL 10.05

## PL 20.05 Fax

Part	Description
091N80392	Fax PWB
497K24460	Optional fax disable kit (Not Shown) (See Note)
497K24470	Optional fax removal kit (Not Shown) (See Note)
	091N80392 497K24460

**Note:** For special request only.



vlb415s5021a

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PL 20.05

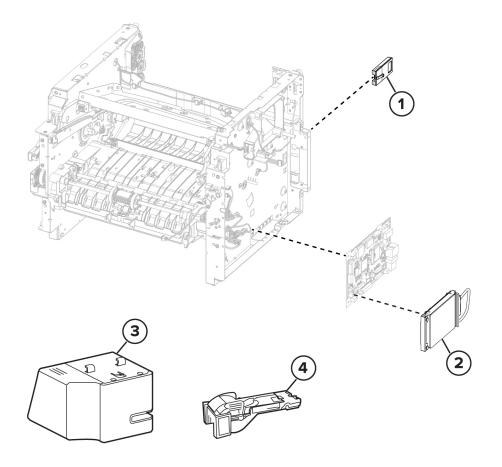
Revised Update

5 Parts List

## PL 25.05 Accessories

253

Item 1	Part 097N02470	<b>Description</b> Optional wireless network adapter
2	097N02443	500+GB Hard Disk Drive
3	097N02442	Convenience stapler (110V)
_	097N02463	Convenience stapler (220V)
4	019N01170	Staple cartridge holder
5	497N07994	Adjustable Stand (Not Shown)
6	097S05244	Printer Stand (Not Shown)
7	017N00320	Adjustable stand nonlocking caster (Not Shown)
8	017N00319	Adjustable stand locking caster (Not Shown)
9	097N02469	550 Sheet Tray (Not Shown)



vlb415s5022a

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### PL 26.05 Consumables and tools

Item	Part	Description
1	006R04725	Std-Capacity NA/XE Sold
2	006R04726	High-Capacity NA/XE Sold
3	006R04727	Extra High-Capacity NA/XE Sold
4	006R04728	Std-Capacity DMO Sold
5	006R04729	High-Capacity DMO Sold
6	006R04730	Extra High-Capacity DMO Sold
7	006R04731	WW Metered
8	006R04732	WW Sold (See Note)
9	013R00702	Imaging Kit
10	008R13347	Staple Cartridges

Note: Not widely distributed. For specific accounts only.

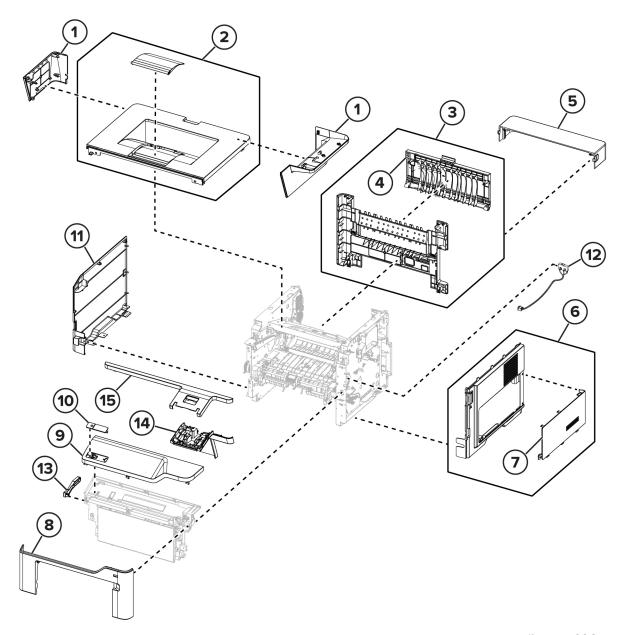
# No exploded View Provided

vlc415s5020a

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## PL 28.05 Covers

Item	Part	Description
1	002N03740	Scanner rear cover (REP 28.6)
2	002N03739	Top cover (REP 28.5)
3	002N03766	Rear door and cover (REP 28.3)
4	002N03769	Rear door (REP 28.3) (P/O PL 28.05 Item 3)
5	002N03755	Dust cover
6	002N03763	Right cover (REP 28.2)
7	002N03764	Controller PWB Cover (P/O PL 28.05 Item 6)
8	002N03761	Front cover
9	002N03742	Top access cover (REP 28.4)
10	056N00284	Bezel (B415)
11	002N03768	Left cover (REP 28.1)
12	130N02012	Front door sensor (REP 28.7)
13	012N00552	Access cover link
14	107N00470	Control panel mounting
15	109N00919	Scanner front cover



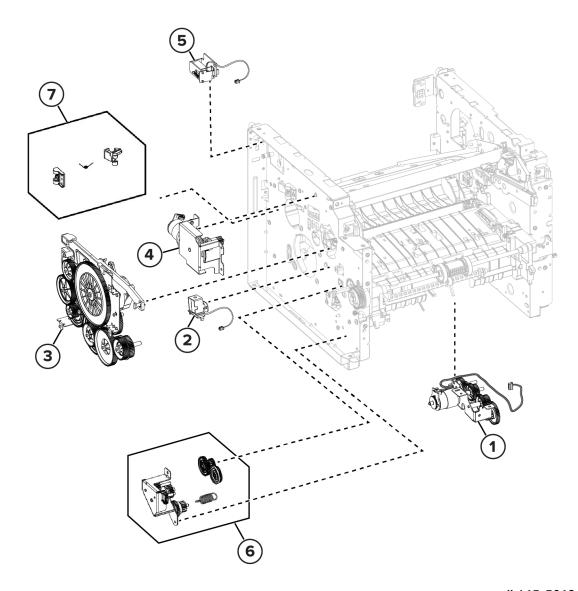
vlb415s5006a

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## PL 40.05 Drive Components

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Item	Part	Description
1	007N01929	Pick/lift motor drive assy (REP 40.7)
2	121N01282	Bypass solenoid (REP 40.6)
3	007N01927	Main drive assy (REP 40.2)
4	007N01928	Toner drive assy (REP 40.8)
5	121N01283	Reverse solenoid (REP 40.5)
6	007N01926	Bypass drive (REP 40.4)
7	120N00593	Fuser actuator (REP 40.3)



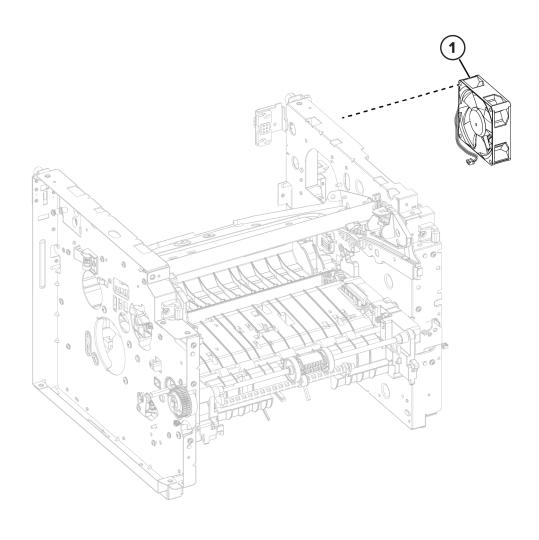
vlb415s5019a

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## **PL 40.10 NOHAD**

Item Part

Part Description
127N08078 Cooling fan (REP 40.1)



vlb415s5008a

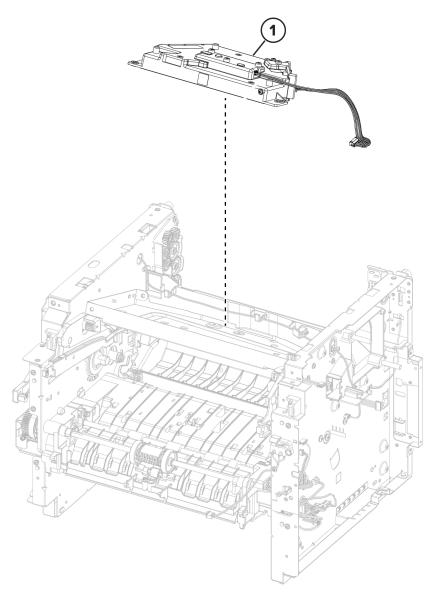
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 PL 40.10
 PL 40.10

## PL 60.05 Printhead

Item Part

Part Description
046N00248 Printhead (REP 60.1)

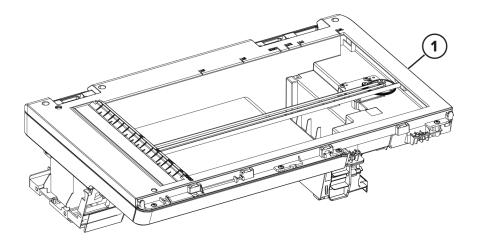


vlb415s5009a

## PL 60.10 Scanner

Item Part Description

1 109N00920 Flatbed scanner (REP 60.2)



vlb415s5020a

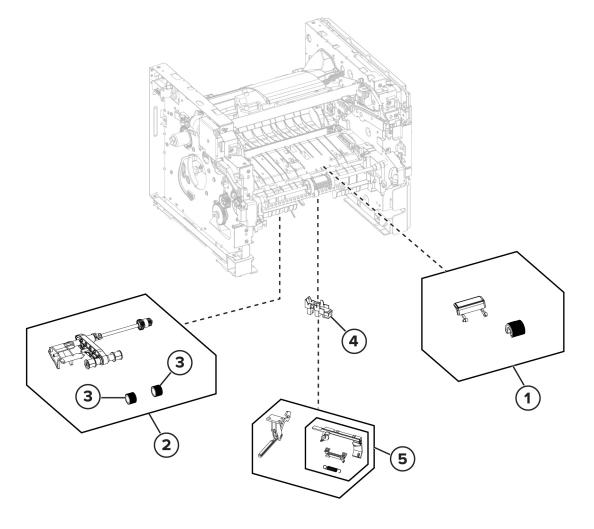
263 XeroxVersaLink B415 Mono MFP September 2023 PL 60.10

## PL 70.05 Paper Feed

Item	Part	Description
1	022N02981	MPF/Bypass feed assy (REP 70.3) (See Note 2)
2	022N02980	Pick roller assy (REP 70.1) (See Note 1) (See Note 2)
3	022N02983	Pick tires (P/O PL 70.05 Item 2) (See Note 1) (See Note 2)
4	130N02014	Paper present Sensor (REP 70.5)
5	130N02017	Paper sensor kit (REP 70.6)

Note: 1. Replace with PL 70.15 Item 2

Note: 2. HFSI. To reset HFSI counter, refer to dC135

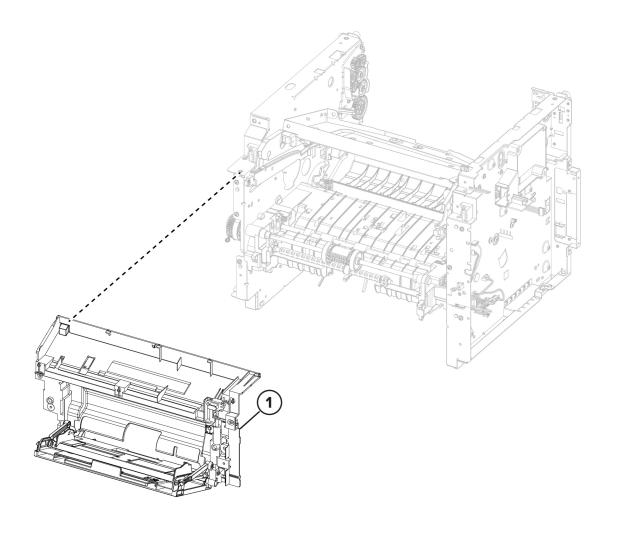


vlb415s5010a

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PL 70.05

## PL 70.10 MPF/Bypass feed front cover

Item	Part	Description
1	002N03737	MPF/Bypass feed front cover (REP 70.4)



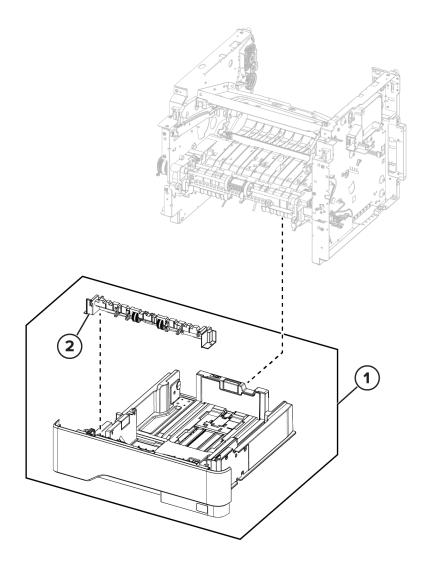
vlb415s5023a

## PL 70.15 550 Standard Sheet Tray 1

Item	Part	Description
1	050N00769	Standard 550-sheet tray insert
2	014N00527	Separator roller assembly (REP 70.2) (P/O PL 70.15 Item 1) (See Note)

Note: Replace with PL 70.05 Item 3

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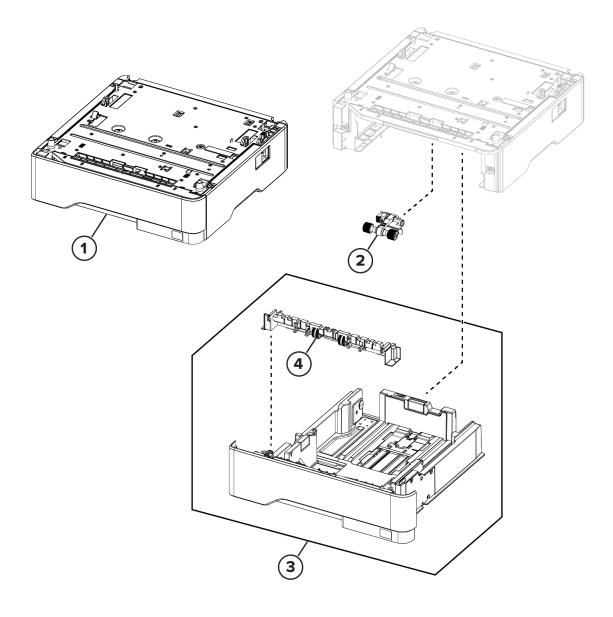
vlb415s5012α

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## PL 70.20 550 Sheet Tray 2/3/4 (Option)

Item 1	Part —	<b>Description</b> Optional 550-sheet tray
2	022N02982	Optional 550-sheet tray pick roller (See Note)
3	050N00768	Optional 550-sheet tray insert
4	014N00527	Optional 550-sheet tray separator roller assembly (REP 70.2) (P/O PL 70.20 Item 3) (See Note)

Note: Replace PL 70.20 Item 2 and PL 70.20 Item 4 at the same time; refer to dC135 to reset HFSI counter.



vlb415s5013a

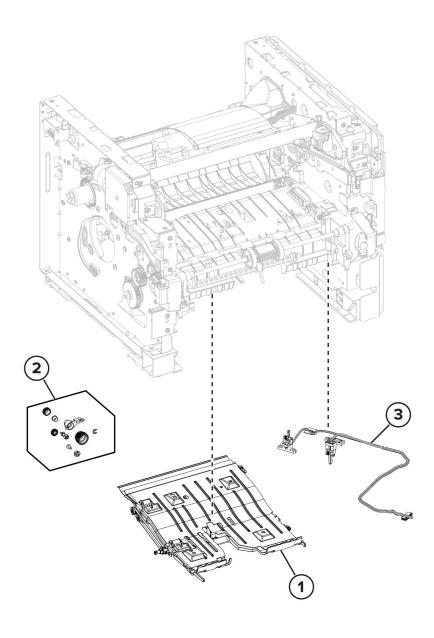
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 PL 70.20

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## PL 80.05 Duplex

Item	Part	Description
1	152N11964	Duplex unit (REP 80.6)
2	007N01930	Duplex gear kit
3	130N02018	Sensor (duplex and input) (REF 80.7)

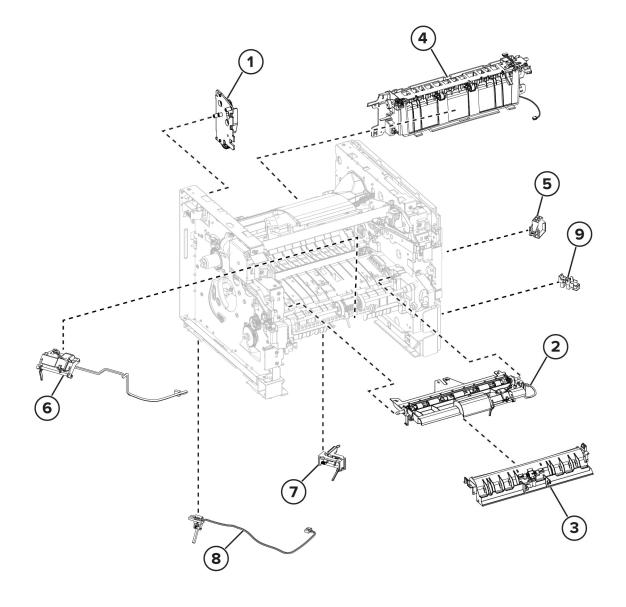


vlb415s5014α

## PL 80.10 Paper Path

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Item 1	<b>Part</b> 015N00724	<b>Description</b> Redrive gear plate (REP 80.11)
2	002N03756	Jam access cover (REP 80.2)
3	032N00587	Front input guide (REP 80.5)
4	152N11963	Redrive (REP 80.10)
5	117N02418	Interconnect harness (REP 80.1)
6	130N02013	Bypass paper sensor (REP 80.3)
7	130N02011	Trail edge Sensor (REP 80.9)
8	130N02010	Index Sensor (REP 80.8)
9	130N02019	Tray Present Sensor (REP 80.4)



vlb415s5015a

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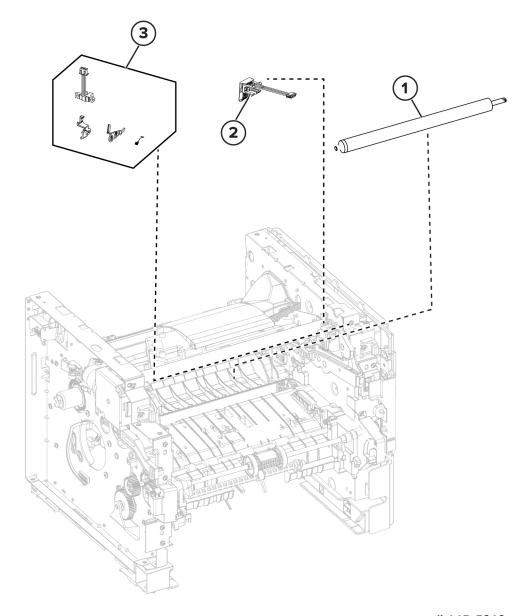
Revised Update

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## PL 90.05 Xerographic Components

Item	Part	Description
1	022N02979	Transfer roller (REP 90.1) (See Note)
2	115N00947	Toner cartridge smart chip contact (REP 90.2)
3	130N02015	Toner Sensor (REP 90.3)

Note: HFSI. To reset HFSI counter, refer to dC135



vlb415s5018a

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## **GP 1 Diagnostics Mode Entry**

#### Purpose

This procedure describes how to enter and exit diagnostics mode and the available diagnostics routines.

**Note:** When diagnostics mode is entered, all existing copy jobs are cancelled and an 'Offline' screen message is displayed.

#### **How to Enter Service Mode**

**Note:** Do not enter diagnostics mode if the Replace Toner Cartridge dialog box is displayed. Entry to diagnostics mode with the dialog box displayed will stop the machine printing test patterns. Confirm either yes or no, then enter diagnostics mode.

- 1. Switch on the machine, GP 10.
- 2. When the machine is ready press and hold the **Home** button for 7 seconds. The passcode screen will display when the button is released.
- 3. Enter the passcode, 6789. Press the **OK** button on the UI.

Note: Five incorrect entries cause the entry screen to lock for 3 minutes.

- 4. Select the relevant tab:
  - General Information Tab
  - Service Information Tab
  - Diagnostics Tab
  - Adjustments Tab
  - Maintenance Tab

#### **Call Closeout Button**

Note: Do not exit service mode until the machine has recovered from all diagnostic routines.

- 1. Select the Call Closeout button to exit service mode.
- 2. If necessary, select Reset Counters.
- 3. Select Exit or Exit and Reboot.

#### **General Information Tab**

- Product code:
- Serial number:
- · Total images:

275

- Images since last call:
- System software version:
- IPV4 address:
- · Device name:
- IPV6 address:

#### Service Information Tab

The service info tab contains routines used to track; use counts, SW versions, fault history, and consumable status. Refer to Table 1, Service Information Tab.

Table 1 Service Information Tab

Routine	Description
dC104	Usage Counters
dC104	
dC108	Software Version
dC108	
dC122	Fault History
dC122	
dC135	CRU / HSFI Status
dC135	

#### Diagnostics Tab

The diagnostic tab contains routines used to test specific areas of the machine. Refer to Table 2, Diagnostics Tab.

Table 2 Diagnostics Tab

Routine	Description
dC312	Network Echo Test
dC312	
dC330	Component Control (Fax Engine)
dC330	
dC330	Component Control (Print Engine)
dC330	
dC330	Component Control (Scan Engine)
dC330	

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Routine	Description
dC612 dC612	Print Test Pattern
dC727 dC727	Tray Quick Print Tests

#### Adjustments Tab

The adjustment tab contains routines used to modify the set-up or to calibrate specific areas of the machine. Refer to Table 3, Adjustments Tab.

Table 3 Adjustments Tab

Routine	Description
dC126 dC126	System Registration
dC131 dC131	NVM Read/Write
dC301 dC301	NVM Initialization
dC361 dC361	NVM Save and Restore
dC925 dC925	Printer Setup
dC945 dC945	IIT Calibration

#### Maintenance Tab

The maintenance tab contains routines that give information about the fault history of the machine, serial number, and consumable. Refer to Table 4, Maintenance Tab.

Table 4 Maintenance Tab

Routine	Description
dC122	Fault History
dC122	
dC132	Machine Serial Number
dC132	
dC135	CRU / HSFI
dC135	

#### **Service Copy Mode**

Service copy mode provides access to the machine that is greater than that of a user, but less than that of the System Administrator. This mode allows the CSE to perform a number of checks and run copies without compromising the customer's security settings. This mode can be used if the Administrator user name and passcode are not at the default, and the Administrator is not available to enter the admin passcode. Perform the steps that follow:

- Press and hold the Home button for 7 seconds. The passcode screen will display when the button is released.
- 2. Enter the passcode 2732. press the **OK** button on the UI.

**Note:** Five incorrect entries cause the entry screen to lock for 3 minutes.

3. The Log In button will change to display CSE.

**Note:** The tools available in this mode are a subset of those available in Administrator mode. CSE service copy mode remains active until the **login/CSE** button is pressed again. When finished with always log out of service copy mode by pressing the **CSE** button and confirming log out.

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## **GP 2 Fault Codes and History Files**

#### **Purpose**

To describe access to fault history information and explain the fault code structure.

- Fault History files can be accessed from the UI:
  - 1. Touch Device > Notifications > Fault History.

#### Fault Data Available from Service Mode

- 1. Enter Service Mode, GP 1:
- 2. Touch Service Information > dC122 Fault History, dC122.

#### **Function, Fault, Component Codes**

Refer to, Table 1, Function and fault code prefixes. Also known as the chain code.

For example. displayed code 373-215-00, Tray 3 hoist failure.

- 3 Indicates that this is an Atlantis software platform fault code.
- 73 The fault is located in chain 7 paper supply, tray 3.
- 215 This is the link code.
- 00 This is the extension code.

#### Table 1 Function and fault code prefixes

Chain Code	Function
301	Standby power
302	User interface
303	Machine run control
305	Document transportation
310	Fusing and copy/print transportation
312	Finishers
316	Network controller
319	Video image manipulation
320	Fax
322	System Errors
340	Main drives
36X	LED print head, scanners

Chain Code	Function
37X (X = tray No.)	Paper supply (paper trays and bypass)
38X	Paper feed and transport
39X	Xerographics
395	Software upgrade errors

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#### **GP 3 Service Information**

To provide machine service menu information.

#### Diagnostics Mode Screen

Enter service/diagnostics mode, GP 1. The screen displays the following slections:

#### Initial View:

General Information Tab.

Service Information Tab.

Diagnostics Tab

Adjustments Tab.

Maintenance Tab.

#### • General Information:

- Product Code:
- Serial Number:
- Total Images:
- Images Since Last Call:
- System Software Version:
- IPV4 Address:
- Device Name:
- IPV6 Address:

#### • Service Information:

- dC104 Usage Counters
- dC108 Software Version
- dC122 Fault History
- dC135 CRU/HFSI

#### Machine Serial Number

To locate the machine serial number, open the front door, the serial number plate is located on the inside of the front door, Figure 1.

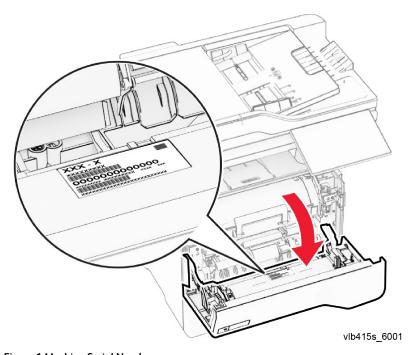


Figure 1 Machine Serial Number

The serial number for the NA markets is in the format: XXX ######. Where XXX is the product code (see Product Code) and ###### is the serial number.

The serial number for the XE markets is in the format: MMM######C. MMM is the manufacturing location code, ###### is the serial number and C is the check digit, for example 2327020103.

#### **Product Code**

The machine product codes are shown below, Table 1.

Table 1 Machine product codes

Machine Configuration	Product Code	Comments
B415_DN, (110VAC)	YEQ	
B415V_DN, (220VAC)	YAZ	
B415V_DNAR, (220VAC)	YAZA	Argentina Direct Ship
B415_YDN, (110VAC)	YEQN	TAA configuration
B415V_YDN, (220VAC)	YAZN	TAA configuration

## **GP 4 Software Upgrade**

#### Preparation



**CAUTION:** The Altboot procedure may delete all stored data on the System Disk Drive, including e-mail addresses, Xerox Standard Accounting data, and network configuration information. If possible, clone the machine, GP 13, and back up customer settings, GP 22, before performing Altboot. If the machine failure is such that a Backup and Restore cannot be performed, notify the customer that data will be lost.

Perform the following, if possible:

- 1. Save NVM to a USB drive, dC361.
- 2. Print a Configuration Report, GP 14.
- 3. Clone the network configuration, GP 13.
- 4. Create a backup file of customer settings, GP 22.

#### **Purpose**

This procedure provides installation instructions for upgrading, downgrading, or restoring system software:

Additional software installation options are available using EWS when software updates are enabled. Customers can upload system software using EWS or they can configure EWS to monitor an FTP site and automatically upgrade when a newer version is detected. Table 1 lists the available software installation procedures and their effects on each module.

Note: If a newly installed component has a different version of software than the software set that is on the controller PWB, the software on the new component may be upgraded or downgraded at system startup.

Note: To power down the machine, press the UI Power Button and then respond to the on-screen prompts. Wait until the Power Button LED turns off, then switch off the Main Power Switch, GP 10.

Note: The following table provides an overview of the procedures that follow. The table is not intended as a procedure for the type of software installation. A link to the procedure is provided in the table.

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**Table 1 Software Loading Options** 

			Soft	ware La	ading	Option	s							
HW Location		Controller (SBC)												
Platform Components		OS kernel & FPG- As	SW Up- grade	BIOS	Net- work Con- troller	Fax	Copy Con- troller	UI App	OS	OS kernel & FPG- As	UI Panel Firm- ware	IIT Apps	DADF	IOT
Physical location of the software component.		еММС		eMM- C	еММС						UI PWB	eMM- C	DADF PWB	Con- troller PWB
Full DLM download loca	ation: GSN Library 1782	3												
Software Platform	Procedure Overview	Operat	ion											
USB Altboot (Standard Altboot) Used for software upgrade or downgrade. Based on the drive setup, the printer reads the folders, finds the Altboot folder, checks the versions of software against the .DLM file, and then installs the .DLM file associated with the printer. The printer retains the customer data.	base procedure: Based on the drive setup, the printer reads the folders,			Up	grade [	Downgr	ade Rel	oad				nc	one	
	<ul> <li>Do not partition the USB drive.</li> <li>Format the USB drive for FAT32 (other formats are not supported).</li> </ul>													

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		Software Loading Options	
	Only place one .  DLM file per prod-		
	uct number in the		
	folder.		
	Altboot .DLMs are		
5 11165 AU	larger files.		
Forced USB Altboot:	Forced USB Altboot		
Method used for failed	Procedure		
SW Upgrade recovery.	In a USB drive for-		
	matted for Altboot,		
	add a blank text file		
	in the Altboot direc-		
	tory and call it		
	FORCED_UPGRADE		
	(the filename is case-		
	sensitive).		
	This flag bypasses		
	the printer's ver-		
	sion checks and		
	verification of		
	each option and	Upgrade Downgrade Reload	
	accessory, and in-		
	stalls the whole		
	software package		
	at once. FORCED_		
	UPGRADE also		
	overwrites the cus-		
	tomer settings		
	and sets the print-		
	er back to factory		
	defaults.		
	Use this method     when the printer		
	when the printer		
	is refusing to up-		
	date, if the cus-		
	tomer wants the		

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		Software Loading Options
	printer settings re-	
	set, or to revert	
	· · · · · · · · · · · · · · · · · · ·	
	the printer back to an older software	
Special Altboot:	version.	
Use in the event of	Special Altboot	
EMMC or Controller	Procedure	
Board failure, the ma-	In the event of EMMC	
chine may loose the	or Controller Board	
encryption keys for the	failure, the machine	
EMMC.	may loose the encryp-	
	tion keys for the	
	ЕММС.	
	• Place the <b>swup</b> _	
	usb file in the Alt-	
	boot folder to re-	
	store the keys and	
	recover the	
	printer.	Upgrade Downgrade Reload
	• This file is version	
	and product spe-	
	cific, so be sure to	
	download a fresh	
	version of this file	
	when you down-	
	load the .DLM file	
	from where you	
	get firmware files.	
	Both files are	
	packaged togeth-	
	er in the same	
	folder.	
PWS ALTBOOT: Allows upgrade when USB is	PWS Altboot	
not available at the	Procedure	
customer site.	Sometimes the need to perform an Altboot procedure but the customer does not	Upgrade Downgrade Reload

		Softv	vare Lo	ading (	Options	s							
	allow USB drives to be connected with their network.  In this case, connect the laptop (with PWS software installed) using a standard crossover Ethernet cable.  Note: Unlike Alta-Link products, there is no special custom serial or USB cable needed.  Run the PWS Altboot utility to connect with the printer and download the software. There are settings for Forced, Special or Secure, and regular Altboot processes.  Note: When connecting with a crossover cable, assign both the printer and computer, a static IP address on the same subnet (like 192.168.1.1 and 192.168.1.2). When finished, return the printer to its previous IP address settings.												
	le methods (for referen I	 	1/	1.1/	11 /	l la /	11-1	lla /	Llm /	lla /	l la /	1/24	1/
Normal USB Upgrade  Note: Recommended CSE method, customer data should always be preserved.	DLM file placed in \Upgrade folder on a USB drive and in- serted after the ma- chine has come to ready.  Uses smaller 'dif- ferential" DLM	Ver- sion Chec- k: Up/ Down	k: Up		Up / Down / Re- load	Up/ Dow- n/ Re- load	Up/ Dow- n/ Re- load	Up / Down / Re- load	Up / Down / Re- load	Up / Down / Re- load	Up/ Down / Re- load	Chec-	Ver- sion Chec- k: Up Only
	(only changes												

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		Soft	vare Lo	ading (	Options				
Customer Manual Upgrade via EWS	from Launch DLM)  Machine must be Online  USB Ports must be Enabled  Software Upgrade must be enabled  DLM file is loaded through [EWS Properties > General Setup > Machine Software > Manual Upgrade]  Both the Customer DLM, downloaded from Xerox.com, and the full DLM file types can be used during EWS upgrade.  Machine must be Online  Software Upgrade must be	Soft	ware Lo	ading	<b>Jptions</b>				
SWUP Utility	enabled								
	DLM file is loaded through SWUP utility.  Uses smaller differential DLM (only changes from Launch DLM)  Machine must be Online								

		Soft	ware Lo	ading	Options	;				
	Software Up- grade must be enabled									
Customer Automatic FTP Upgrade	enabled  DLM file is placed on an FTP server and EWS is configured [Properties > General Setup > Machine Software > Auto Upgrade) to periodically check the FTP site for updated SW.  Uses smaller 'differential" DLM (only changes from Launch									
	DLM)  Machine must be Online  Software Upgrade must be enabled									

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Software Loading Options										
Remote Services										
	New major SW re-									
	leases are automati-									
	cally pushed to									
	connected machines.									
	• Uses smaller 'dif-									
	ferential" DLM									
	(only changes									
	from Launch									
	DLM)									
	Machine must be									
	Online									
	Software Up-									
	grade via Remote									
	Services must be									
	enabled with de-									
	vice communicat-									
	ing with Xerox.									
Fleet Orchestrator	Contents of the dif- ferent platform be- haviors (upgrade/ downgrade/reload) is same as all customer upgrades (EWS/Nor- mal USB upgrade/ Etc).									

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### **Software Installation Types**

- Loading Software Using a USB Flash Drive
- Embedded Web Server (EWS) upgrade using the network
- Altboot Software Loading using a USB Flash Drive
  - Standard Altboot Procedure
  - Forced Althoot Procedure
  - Special Altboot Procedure
- PWS Altboot Procedure using PWS Altboot tools

#### **Additional Tools**

- Troubleshooting
- · Fleet Orchestrator

System software sets are compilations of software modules and a software compatibility database (SCD). The SCD lists software versions suitable for the system and its installed options. System software is supplied as a .DLM file.

Two versions of the software DLM file are available.



**CAUTION:** The full DLM is required for all forms of Altboot Software Updates.

1. The full Altboot versions of the DLM files will be made available on the TCP/IP Site andGSN Library 17823 for Service to use during Altboot upgrades:

Note: Example: XeroxVersaLink\_X415\_ALTBOOT\_system-sw#11802400220120#.DLM (The X =: B if mono, C if Color)

- Product Type: VersaLink
- Product Number: X415
- Version number is a numeric series to identify product, version, and release date.



**CAUTION:** The software will not load if no pound (#) signs appear in the file name.



CAUTION: Do not attempt to open this file. Attempting to open the file may corrupt it, making it unusable.

Note: The Altboot DLM can be used even when the shipped DLM is missing in the machine.

2. The smaller, Thin/BDC or Customer File, DLM files downloaded from Xerox.com, contain changes from the manufactured release software that ships in the machine:

Note: Example: XeroxVersaLink\_X415\_system-sw#11902500304611# (The X =: B if mono, C if Color)

- Product Type: VersaLink
- Product Number: X415

- Version number is a numeric series to identify product, version, and release date.
- If the Launch DLM is missing from the drive, the BDC upgrade will fail and the launch DLM recovery patch (LDRP) will be required.
- Software upgrade instructions and instructions on how to recover from failed upgrades are posted with the upgrade files on Xerox.com.

Note: Software version information appears in Service Information > Service Mode, dC108.

Note: If the screen displays the message The device is in non-customer mode after completing Power On, it will be necessary to perform GP 33 to restore the machine to customer mode. If the Billing Counters have been lost, follow GP 26 to report Billing Meter reset.

At Power On, the system checks the version information for each installed module and compares it to locally stored SCDs.

#### Software Installation Procedures

Note: Depending on the procedure used, the software installation could require up to 60 minutes. If the installation fails, refer to OF1, Machine Not Ready RAP.

#### Initial Actions:

- Verify the machine is fully operational, if possible. Clear any active faults or jams.
- Obtain a USB Flash drive with a minimum capacity of 1GB, formatted for FAT32.
- Print a Configuration Report, if possible, to check the software version on the machine.
- Download the current version .dlm file from Xerox.com
- · USB port must be enabled.
- Software updating must be enabled.

# Software Upgrade Installation Customer USB DLM Software Upgrade

1. Either allow all pending print jobs to finish or delete the pending jobs from the que.

Note: If the print jobs cannot be deleted, inform the customer that all pending jobs will be lost.



#### **CAUTION:**

Check the Release Notes to ensure upgrades can be applied.

**Note:** Before inserting the USB drive, ensure the machine is in a [Ready] state.

- 2. Log in as Admin.
- 3. Enable SW Upgrade via UI Tools or the EWS.
- 4. Connect the USB Flash drive containing the .DLM file to one of the USB ports.



CAUTION: The USB should only contain the DLM for the machine being updated. No other DLM should exist.

**Note:** Use a USB thumb drive that is compatible with Xerox approved models.

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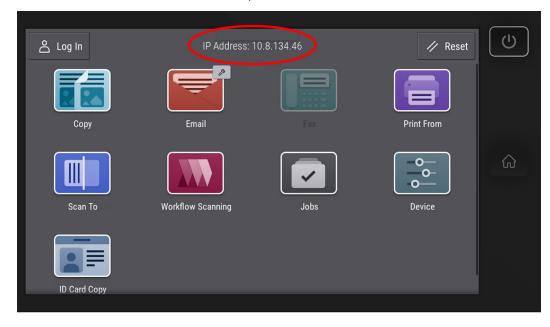
Note: It is not necessary to switch off the system to perform a software upgrade.

- 5. Touch [Install File] on the USB Drive Detected popup, then select the .DLM file for the upgrade to initiate.
- 6. Do not remove the USB drive until the message [Software upgrade is completed. Remove the USB drive to restart the system], displays on the UI.
- 7. If the upgrade fails, use the Forced Altboot procedure to recover.
- 8. The system may restart several times completing the installation before returning to a ready state.
- 9. After the software has been upgraded a software upgrade report will print automatically.

# Embedded Web Server (EWS) upgrade using the network

1. Open a web browser, enter the machine IP address in the address field, then press Enter on the keyboard. The system EWS will open.

Note: The machine IP address is listed at the top-center of the UI screen.



vlc625s6005

#### Figure 1 UI Home Screen IP Address

- 2. Click [Properties], then login as Admin.
- Select General Setup > Software Upgrade.
   The Screen will open to [Fleet Orchestrator].
- 4. Select Create / Install File.

- 5. Select Software Upgrade File
- 6. Scroll to [Details] > [Installation Policy]. Verify the link is set to [Allowed].

To set to Allowed from Not Allowed:

- a. Click on the link, [Not Allowed].
- b. Check the box [Allow Software Upgrade].
- c. Click [Apply].
- 7. Select Install a File, then Browse. Select the .DLM file from the upgrade directory.

Note: Both the Customer DLM downloaded from Xerox.com and the full DLM file types can be used for EWS upgrade. Download the full DLM file here: GSN Library 17823

8. Select Install.

Note: All network connectivity is lost. Progress can be monitored from the UI.

9. The system reboots several times before returning to a ready state.

#### **Altboot Software Installation**

There are four altboot software configurations. Each is listed below:

- Altboot Software Loading using a USB Flash Drive
  - Standard Altboot Procedure
  - Forced Altboot Procedure
  - Special Altboot Procedure
- PWS Altboot Procedure using PWS Altboot tools

#### **Additional Tools**

- Troubleshooting
- Fleet Orchestrator

# Altboot Software Loading using a USB Flash Drive

Altboot reloads system software. It is used to upgrade, downgrade, or reload software on systems that will not come to a ready state. It also can be used to upgrade or downgrade the software on system options.



CAUTION: Altboot should only be used when a loss of operation occurs and the standard customer software upgrade is not possible.

Note: If the customer purchased Adobe PS or McAfee Trellix features, perform the following:

- Login as Admin. Refer to, GP 23.
- Install features as required. Refer to, GP 35 How to Re-Enter Optional Feature Installation Keys.

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CAUTION: The system may appear to hang during the Altboot process while loading software in the background. Wait a minimum of 10 minutes before switching the system off. Switching the system off while software is loading will corrupt the software installation requiring the Alboot installation to be restarted.

#### **Standard Altboot Procedure**

- 1. Perform dC361 NVM Save and Restore.
- 2. USB Port must be [Enabled].
- 3. Format the USB drive for FAT32 (other formats not supported).

Note: Do not partition the USB drive.

4. Confirm USB file and directory structure is configured correctly. The below structure is required in the root level of the USB drive.

Note: It is best practice to start the procedure with a clean formatted USB drive having no files or folders.

#### Table 2 USB structure at root level

١...

\Altboot\XeroxVersaLink\_X415\_ALTBOOT\_system-sw#11802400227150#.DLM (example only)(The X =: B if mono, C if Color)

Note: Ensure the Microsoft Windows Safely remove hardware procedure is followed before the USB Flash drive is removed.

5. Copy the required .DLM software file into the \altboot folder of the USB drive.

Note: Typically, only one .DLM file per product number should be in the folder.

- 6. Switch OFF the machine, GP 10.
- 7. Insert the USB into an active port in the machine.
- 8. Switch ON the machine, then immediately press and hold the [Home] button as soon as the printer starts.
- 9. The installation progress indicator appears on the UI.
- 10. When the installation is complete, the UI will state, Remove the USB drive for the system to restart.
- 11. After restart, the machine will print a Software Upgrade Report.
- 12. Touch the altboot file to be installed, then touch [OK].

**Note:** The printer may restart several times during the installation.

#### **Forced Altboot Procedure**



CAUTION: Use Forced Altboot with extreme caution! Forced Altboot replaces boot and application code. Power failure during a Forced Altboot may result in PWBs becoming unrecoverable.

- 1 Perform dC361 NVM Save and Restore
- 2. Start with a USB drive as per the Standard Altboot Procedure.
- 3. Create a flag labeled FORCED\_UPGRADE inside the \altboot folder.



**CAUTION**: Forced Altboot uses the available .DLM file to upgrade or downgrade every component in the system, regardless of installed software. Forced Altboot is required to recover from corrupt application code for all machine devices.

Note: This is an empty file and must not have an extension. The Altboot routine checks to see that a file with this name is present.

### 4. To create the FORCED\_UPGRADE flag:

- a. Open the **\altboot** folder on USB drive.
- b. Right click on a blank area of the screen and select New.
- c. Select Text Document.
- d. The name [New Text Document.txt] will be highlighted.
- e. Type FORCED\_UPGRADE (the file name is case-sensitive), then press Enter.
- f. A pop-up with the message, If you change a file name extension, the file might become unusable. Are you sure you want to change it?, will appear.
- g. Click Yes.
- h. The folder structure should be as below:

#### Table 3 Structure at root level

١...

\altboot\XeroxVersaLink\_X415\_ALTBOOT\_system-sw#11802400227150#.DLM (example only)(The X =: B if mono, C if Color)

\altboot\FORCED\_UPGRADE

#### 5. To create the DISABLE\_DATA\_BACKUP flag:

- a. Open the \altboot folder
- b. In a blank area of the screen, right click and select New.
- c. Select Text Document.
- d. The name New Text Document.txt will be highlighted.
- e. Type DISABLE\_DATA\_BACKUP (the file name is case sensitive), then press Enter.
- f. A pop-up with the message, If you change a file name extension, the file might become unusable. Are you sure you want to change it? will appear.
- q. Click on Yes.
- h. The folder structure should be as below:

#### Table 4 Structure at root level

١...

\altboot\XeroxVersaLink\_X415\_ALTBOOT\_system-sw#11802400227150#.DLM (example only)(The X =: B if mono, C if Color)

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\altboot\FORCED\_UPGRADE

\altboot\DISABLE\_DATA\_BACKUP



**CAUTION:** The **DISABLE\_DATA\_BACKUP** intentionally prevents backup of the data on the machine. There is nothing for the **Revert to previous settings** operation to restore. A Forced Altboot enables the **Revert to previous settings** feature to display. This feature restores machine-specific information, **IF**, the **DISABLE\_DATA\_BACKUP** flag is used, all machine-specific information will be lost.

- 6. Installation of the altboot .DLM:
  - a. Switch OFF the machine, GP 10
  - b. Insert the USB drive into an available USB port on the machine.
  - c. Switch on the machine, immediately press and hold the [HOME] button.
  - d. Release the [HOME] button when the UI screen shows the installation starting.
  - e. The installation progress indicator appears on the UI.
  - f. When the installation is complete, the UI will state, Remove the USB drive for the system to restart.
  - g. After restart, the machine will print a Software Upgrade Report.
  - h. When the machine is at Ready, on the UI control panel touch the Device icon, then touch Tools > General > Revert to previous settings.
  - i. The machine will restart to the ready UI screen.

#### Special Altboot Procedure

Perform this step ONLY if executing a Special Altboot:



CAUTION: Only perform Special Altboot procedure when a new Optional Hard Disk Drive (HDD) or controller PWB is installed or the files have become corrupted

1. Download the SpecialAltboot\X415\_SpecialAltboot\_.zip (example) file that is specific to the product from GSN Library 17823.

Note: Example: X415\_105.0xx.009.34422\_SpecialAltboot.zip. These files are product specific and MUST match the Altboot system software DLM being used.

Note: Special Altboot files will only be provided for general releases. Recovering to a SPAR is a two step upgrade.

2. Extract the SpecialAltboot.zip content into the root folder of USB drive, not the \altboot folder.

Note: The default extract location for a specific unzip tool used may not be at the root level. Verify the root level of the USB drive is the destination for the extracted files before proceeding.

3. **Perform this step ONLY if executing a Disable\_Data\_Backup:** This prevents the NC from keeping data normally retained through an Altboot. This file is used to eliminate backup of corrupt customer settings.

To create the DISABLE\_DATA\_BACKUP flag:

a. Open the \altboot folder

- b. In a blank area of the screen, right click and select New.
- c. Select Text Document.
- d. The name New Text Document.txt will be highlighted.
- e. Type DISABLE\_DATA\_BACKUP (the file name is case sensitive), then press Enter.
- f. A pop-up with the message, If you change a file name extension, the file might become unusable. Are you sure you want to change it? will appear.
- q. Click on Yes.

h.

4. Confirm USB file and directory structure is configured correctly. Below structure is required in the root level of the USB drive.

#### Confirm:

Note: It is best practice to start the procedure with a clean formatted USB drive having no files or folders.

#### Table 5 Structure at root level

١..

\altboot\XeroxVersaLink\_X415\_ALTBOOT\_system-sw#11802400227150#.DLM (example only)(The X =: B if mono, C if Color)

\altboot\FORCED\_UPGRADE

\altboot\DISABLE\_DATA\_BACKUP

\swup\_usb

\XeroxVersaLink\_X415\_118.024.002.27150 (example only)(The X =: B if mono, C if Color)

Note: Ensure the Microsoft Windows Safely remove hardware procedure is followed before the USB Flash drive is removed.

- 5. Insert the USB Flash drive into the system.
- 6. Save the NVM settings, dC361. Verify that the NVM data were saved to the USB Flash drive before proceeding.

Note: The same USB Flash drive that has the .dlm file can be used to store NVM data.

- 7. Perform Backup and Restore of customer settings through EWS, GP 22.
- 8. Complete or delete all pending print jobs. If the jobs cannot be deleted, inform the customer that all pending jobs will be lost.
- 9. Switch OFF, then switch ON the machine, GP 10. The Altboot process starts automatically. No button presses are required to initiate the Altboot.
- 10. The upgrade start screen displays.

Note: If the USB Flash drive is incompatible with the system, the upgrade start screen will display continuously. If the screen has not changed after 10 minutes, use a different known compatible USB drive, then restart the process.

11. The upgrade begins and the progress screen opens in about 2 minutes.

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Note: If the upgrade process screen is not displayed after 4 minutes, restart the process.

- 12. The Altboot process may take up to 60 minutes to complete. When the Altboot complete screen opens, follow the on screen instructions.
- 13. If the Altboot process fails, the Altboot failed screen opens. Follow the on screen instructions. Restart the procedure and troubleshoot as necessary.

Note: Do not switch the machine Off unless directed to on the UI.

- 14. The system may reboot several times before returning to a ready state.
- 15. Check that the software set has installed. Refer to the printed software upgrade report or press the **Status** button.
- 16. Restore the customer settings, GP 12.
- 17. When performing a Forced Altboot, select the **Device** icon, then **Tools > General > Revert to previous settings**.



CAUTION: The DISABLE\_DATA\_BACKUP intentionally prevents backup of the data on the machine. There is nothing for the Revert to previous settings operation to restore. A Forced Altboot enables the Revert to previous settings feature to display. This feature restores machine-specific information, IF, the DISABLE\_DATA\_BACKUP flag is used, all machine-specific information will be lost.

#### **PWS Altboot Procedure**

PWS-Altboot function is to perform full functional recovery of an MFP or printer with damaged SW and other recovery methods had failed. Also, it is used to provide a viable solution for customers that do not allow thumb drives and/or internet connectivity to perform software upgrades.

Before beginning the procedure perform the following:

- 1. Go to GSN Library 17823, then download the following items:
  - VersaLink\_X415X\_Family\_Altboot\_Tool\_PWS
  - Altboot\_SW\_and\_support\_files\_VersaLink\_X415X\_system\_sw. Download the version for the machine you are working on and store it in a folder named Altboot\_SW\_and\_support\_files on the PWS. The support files are paired with the software version. The support files will only work for that specific software version.
- 2. Connect an Ethernet crossover cable to the PWS Ethernet port and to the printer Ethernet port.
- 3. Install the Altboot tool downloaded in Step 1 on the PWS. Use the instructions in the Readme file included with the tool.

Note: Before loading system software, the system should be fully operational and the UI control panel fully operational. If possible, clear any active faults or jams before starting this procedure.

- 1. Perform an NVM Save, dC361.
- 2. Back up customer settings, GP 22.
- 3. Print a Configuration Report, GP 14.
- 4. If possible, complete or delete all pending print jobs. If jobs cannot be deleted, warn the customer that all pending jobs will be lost.
- 5. If the machine is equipped with a Wireless Network Interface, enter Tools mode using CSE Tools (Service Copy Mode), Service Copy (Tools) Mode, disable wireless, then Switch OFF and Switch ON the Machine, GP 10.
- 6. Use these steps to configure a PWS LAN connection so the PWS can communicate with the system Network Controller. Once established, settings remain in effect until changed.



CAUTION: Record the original data for every place you make a change. You may or may not need to reset the IP address, depending on PWS usage and local network practice.

- a. Right click on the My Network Places icon.
- b. Select Properties to bring up the Network and Dial-up Connections window.
- c. Right click on Local Area Connection and select Properties.
- d. Select the General tab and scroll down to Internet Protocol (TCP/IP). Highlight TCP/IP and select Properties.
- e. Select the Use the following IP address radio button.
- f. Enter the IP address 192.168.0.2.
- g. Enter 255.255.255.0 for Subnet mask.
- h. Select OK to close the TCP/IP Properties window
- i. Select **OK** to close the **Local Area Connection Properties** window.
- j. You may need to reboot the PWS to load the settings.
- 7. Disable the customer's WiFi network connection if enabled.
- 8. Connect the PWS to the printer Ethernet port using an Ethernet crossover cable.
- 9. Start the PWS Altboot tool on the PWS and follow the instruction in the file AltaLink-PWS-Altboot-Instructions.pdf to configure the Altboot tool. The file is in the Altboot tool package that was downloaded at the beginning of the PWS Altboot Procedure.
- 10. Switch on the machine using the Main Power Switch. After approximately 10 seconds, the transfer of the uImage and uboot files begins.
- 11. After file transfer, the settings menu appears in the terminal window. Check that the 'Received packet' line is displayed and that the IP address is set one digit away from the packet was received from address.
  - Press Y at the prompt and continue. If the valid netmask is not set, press n and change it to 255.255.255.0
- 12. From the next menu, select 5 > Install SBC software.
- 13. At the **Proceed?** prompt, select **Y**.
- 14. At the second **Proceed?** prompt, select **Y**.
- 15. From the next menu, select 4 > Continue.
- 16. A list will display the .DLM file in the directory identified in step 2, select the DLM file to download to the machine. A transfer progress window will then open.
- 17. After the DLM file has been downloaded to the machine, the Software Upgrade start screen will display on the UI.
- 18. After approximately 1 minute the upgrade will begin and the Software Upgrade in progress screen will open. If the upgrade process screen is not displayed after 2 minutes, restart the process.
- 19. The Altboot process should complete after approximately 5 minutes, and the Upgrade Complete screen will open. Ignore the instruction to remove the USB flash drive, only press 0 to continue.
- 20. The machine will reboot several times before returning to a ready state. During the reboot, the Hard Disk Drive is encrypted. Switching off the machine can cause only partial encryption of the Hard Disk's partitions. The Altboot process may need to be re-run if power is removed at this step. The UI displays the Data Encryption/Decryption in Progress screen.
- 21. After the reboots have finished the machine will come to ready. In the SBC-AlternateBoot window on the PWS should display SBC System is OPERATIONAL.

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- 22. Disconnect the crossover Ethernet cable from the PWS network and the machine.
- 23. Connect the customer's network cable to the machine or re-enable the WiFi card adapter if installed.
- 24. Compare the configuration report printed at the start of the procedure to the software version in the [Device] UI control panel settings to verify the software upgrade is successful.
- 25. Perform an NVM Restore, dC361.
- 26. Restore the customer settings, GP 22.

Note: If the screen displays the message the device is in a non-customer mode, perform GP 33 Restoring Customer Mode.

#### **Additional Tools**

- Troubleshooting
- Fleet Orchestrator

## **Troubleshooting**

Listed below are possible problems that may stop Altboot software loading:

Possible causes and solutions are:

- Incompatible/or not working USB drive. Change the USB drive to a known good USB drive, or, use a Xerox approved model of USB drive.
- Corrupt.dlm file. Install a new .dlm file.
- Incorrect spelling of the \altboot directory on USB drive. Correct the spelling of the \altboot folder.
- Altboot and upgrade folders on the USB drive.
- Bad data connection to the optional hard disk drive. Reseat the optional hard disk drive harnesses.
- Hard disk drive corruption or failure.
- USB port or cable damage. Use a different USB port or cable.
- UI failure. Troubleshoot the UI control panel failure to resolve.
- Controller PWB failure. Troubleshoot the controller PWB.
- Check the +5V supply to the USB ports on the controller PWB. Troubleshoot the controller PWB.
- Failure to disable wireless networking when using a PWS. Disable the WiFi card.
- Pound [#] signs missing from the .dlm file name. Correct the .dlm file name.

#### Fleet Orchestrator

The Fleet Orchestrator feature allows you to configure many devices in similar ways, automatically. After you configure one device, you can distribute any of the configuration settings to other devices, as needed. You can set up schedules to share configuration settings regularly and automatically. The Fleet Orchestrator feature enables you to share the following types of configuration files

- Software upgrade files: A software upgrade file contains the latest firmware for the device. Xerox releases upgrades when needed. Refer to the System Administrator Guide
- Clone files: A clone file contains configuration settings from a device. When you install a clone file on another device, the clone file changes the configuration settings to match the settings on the cloned device. Refer to the System Administrator Guide

• 1-Touch Add-On files: A 1-Touch Add-On file adds workflows to a device without overwriting existing apps or workflows. Refer to the System Administrator Guide

Software Upgrade Files: When Xerox releases a new version of software for the device, Fleet Orchestrator can be used to install the software upgrade file. Software upgrade files do not overwrite printer configuration settings.

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# **GP 5 Miscellaneous Checks**

#### Purpose

To indicate which types of problems to look for when checking or inspecting parts of the machine.

#### **Procedure**

- 1. Assess the fault. Check if the part is broken, too loose or too tight. Check if it needs cleaning or lubricating.
- 2. Check the components that follow as appropriate:
  - Actuators
  - Bearings
  - Drive Belts
  - Gears
  - Gravity Fingers and Stripper Fingers
  - Harnesses and Wiring
  - Rollers
  - Shafts

#### Actuators

- Free movement.
- Damage
- Contamination.

#### Bearings

- Wear.
- Damage.
- Contamination.

#### **Drive Belts**

- Wear.
- Damaged teeth.
- · Correct tension.
- Contamination of tension rollers and support shafts.

#### Gears

· Contamination.

- Chips or cracks.
- Wear.
- Misalignment.

#### **Gravity Fingers and Stripper Fingers**

- Free movement.
- · Missing fingers.
- Damage.
- Contamination on the fingers, rollers or on the pivot shaft.

### Harnesses and Wiring

- · Continuity.
- Short circuits caused by physical damage or contamination of conductors, terminals or connectors.
- Overheated insulation.
- Damaged insulation near moving parts and sharp edges.
- Pin and receptacle damage on connectors.

#### Rollers

- Flats.
- Tears.
- Contamination.
- Secure E-clips and other retainers.

#### Shafts

- · Contamination.
- Misalignment.
- Rotates without binding.

# GP 6 How to Check a Motor

This procedure describes how to check a motor:

#### **Initial Actions**



**WARNING:** Isolate the machine from the electrical supply while performing tasks that do not need electricity. Refer to GP 10. Electricity can cause death or injury. Moving parts can cause injury.

- 1. Check that the motor is free to rotate.
- 2. Check that all the motors mechanisms are clean, free to move and lubricated correctly.
- 3. Enable 24V with chain-link 041-001 and test motor operability using dC330. Run the motor for 30 seconds, if the motor shows signs of or can be heard to slow down, the motor is defective. Install a new motor.
- 4. Perform the appropriate procedure:
  - Two Wire DC Motor
  - DC Motor with Integral Encoder
  - Four Wire Stepper Motor

**Note:** The voltages, PJ numbers, pin numbers and PWB names shown are an example only. Go to the wiring diagram associated with the RAP for the correct information.

**Note:** In cases where the motor may be driven forward or backward, the same two feed wires are used, but the voltages on them are reversed, to reverse the motor direction. Such motors may have two component control codes, for forward and reverse. A typical application is a tray lift motor with a tray-up and a tray-down direction.

- 1. Check the drive voltage when the component control code for the motor is entered. If the drive voltage is present at the motor, but the motor does not turn, install a new motor. If the drive voltage is not present, go to step 2.
- 2. Check that the drive voltage is correct at the driver output pins of the PWB when the component control code for the motor is entered. If the drive voltage is present, check the wiring and connectors to the motor. If the drive voltage is not present, check the power to the driver PWB. If the power to the PWB is good, install a new driver PWB.

**Note:** This type of motor has the normal drive voltages for a DC motor, plus the +3.3VDC and 0V lines for the encoder. The encoder has two outputs, A and B, producing pulses when the motor is on. When the motor is running in one direction, the encoder A pulses lead the encoder B pulses. In the other direction, encoder B pulses lead encoder A pulses. In this way the controller can detect that the motor is running in the correct direction.

Check the operation of the motor as follows:

- 1. Check the drive voltage when the component control code for the motor is entered. If the drive voltage is present at the motor, but the motor does not turn, install a new motor. If the drive voltage is not present, go to step 2.
- 2. Check that the drive voltage is correct at the output pins of the driver PWB when the component control code for the motor is entered. If the drive voltage is present, check the wiring and connectors to the motor. If the drive voltage is not present, check the power to the driver PWB. If the power to the PWB is good, install a new driver PWB.

**Note:** When checking for pulses, use a standard digital multimeter. Using the DC volts range, or the AC volts range, expect to obtain a reading greater than 1V and less than 4 volts, while the motor is running. The actual value depends on the meter's reaction to square waves and to the particular frequency of the pulses. It is common to obtain a reading of 2 to 3 volts. If the meter has a minimum and maximum recording facility, expect a maximum value of around +4.9 volts DC, and a minimum value of around +0.2 volts DC.

Check the operation of the encoder as follows:

Check for pulses when the motor is running. If pulses are present at the motor, but not present at the PWB, check the wiring to the motor and repair or install new wiring. If pulses are present at the PWB, but there is still an error indicating that the motor is failing, install a new driver PWB.

**Note:** A stepper motor with an internal open circuit may appear to be fully functional under dC330 component control. However, under normal operation it will run with intermittent failure. Use the multimeter to check stepper motor coil resistance.

- 1. Refer to Figure 1 as an example. Disconnect PJ111. Check the +24VDC supply and the phase pulses to GND when the component control code for the motor is entered. If the supply and pulses are present, install a new motor.
- 2. Check the connectors and wiring to the motor. Repair or install new wiring, as necessary.
- 3. Disconnect PJ11. Check the +24VDC. If +24VDC is not present, check the power to the PWB. If the power is good, install a new PWB. Check the phase pulses at the PWB. If the phase pulses are not present at the PWB, install a new PWB.

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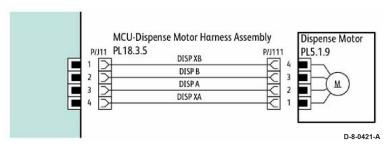


Figure 1 Motor wiring diagram

# GP 7 How to Check a Switch

Use this procedure to check the operation of a switch.

**Note:** Figure 1 shows an interlock switch actuated by the closing of a door.

#### **Initial Actions**



**WARNING:** Isolate the machine from the electrical supply while performing tasks that do not need electricity. Refer to **GP 10**. Electricity can cause death or injury. Moving parts can cause injury.

Manually check that the switch operates. Ensure that the magnet or other actuator has enough mechanical movement to operate the switch.

**Note:** The voltages, PJ numbers, pin numbers and PWB names shown are an example only. Go to the wiring diagram associated with the RAP for the correct information.

#### Procedure

- 1. Enter Diagnostics, GP 1, then dC330 to enable the switch to test. Actuate the switch. If the display changes, the switch operates correctly. If the display does not change, perform the following steps.
- 2. Inspect the mechanism intended to actuate the switch. Adjust, repair or install a new part as needed if it is not actuating the switch.
- 3. Disconnect the switch and measure the resistance between the two connector pins. If it does not change from infinite to 0 ohms as the switch is actuated, install a new switch. If the resistance changes correctly, go to the next step.
- 4. Check the continuity of the wire harness between the switch and its control PWB. If open, repair or install a new harness.
- 5. If the switch and wire harness have tested good, install a new PWB that the switch is connected to.

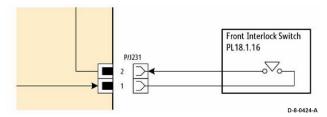


Figure 1 Switch wiring diagram

# GP 8 How to Check a Solenoid or Clutch

Use this procedure to check a clutch or solenoid.

#### **Initial Actions**



**WARNING:** Isolate the machine from the electrical supply while performing tasks that do not need electricity. Refer to GP 10. Electricity can cause death or injury. Moving parts can cause injury.

- 1. For a clutch, check that the shafts, gears, rolls etc., associated with the clutch are free to rotate, clean and lubricated where applicable.
- 2. For a solenoid, check that the solenoid is free to actuate and that the mechanisms associated with the solenoid are free to move.

#### Procedure

**Note:** The voltages, PJ numbers, pin numbers and PWB names shown are an example only. Go to the wiring diagram associated with the RAP for the correct information.

**Note:** When a solenoid is energized in diagnostics, movement is seen. When a clutch is energized in diagnostics, the sound of the clutch action is heard. If possible, run the motor connected to the clutch to confirm when the clutch is energized.

- 1. Enter the dC330 output code for the clutch or solenoid. If the clutch or solenoid does not energize, continue with step 2.
- 2. Refer to Figure 1 (as an example). Disconnect PJ17, check for +24VDC at pin 1 on the wiring side of the connector, If the voltage is correct, install a new solenoid or clutch.
- 3. Reconnect PJ17, enter the dC330 output code for the clutch or solenoid, while measuring the voltage between pin 1 and ground. If the voltage does not change when the code is entered, install a new PWB.
- 4. If the fault is intermittent, perform the actions that follow:
  - a. Check the wiring. Repair or replace as necessary.
  - b. Operate the clutch or solenoid under normal running conditions. If the clutch or solenoid operates intermittently or with hesitation, install new parts.
  - c. Check that the clutch or solenoid has enough drive to operate the mechanism to which it is attached; if necessary, install a new clutch or solenoid.

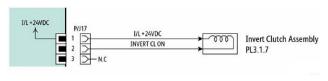


Figure 1 Clutch wiring diagram

D-8-0423-A

### GP 9 How to Check a Sensor

Use this procedure to check the operation of all types of sensors.

**Note:** Some sensors have a resistor within the sensor and other sensors require a resistor on the PWB. The resistor limits the current through the LED. The voltage to the sensor LED with an external resistor, is typically 1.2V

**Note:** The voltages, PJ numbers, pin numbers and PWB names shown are an example only. Go to the wiring diagram associated with the RAP for the correct information.

**Note:** In some cases, two sensors are used to form an interruptible beam of light. In these cases, the LED of one sensor and the sensing element of the other sensor are used. Treat the two sensors as if they were housed in the same body for diagnostic purposes, ignoring the unused part of each sensor. If the combined sensors do not operate correctly and the beam path is clear of obstruction, it may be necessary to install both new sensors.

#### **Quick Sensor Check**

Enter the component control code for the sensor, refer to dC330. Actuate the sensor. If the display changes, the sensor operates correctly. If the display does not change, perform the procedure.

#### Procedure



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**WARNING:** Isolate the machine from the electrical supply while performing tasks that do not need electricity. Refer to GP 10. Electricity can cause death or injury. Moving parts can cause injury.

For the sensor in the example wiring diagram shown in Figure 1:

- 1. Actuate the sensor and check for a change in voltage at PJ27, pin 3. If the voltage changes, install a new PWB. If the voltage does not change, continue to the next step.
- Disconnect PJ271 at the sensor. Check for +3.3VDC and 0V (GND) on the harness (between pins 2 and 3). If the voltage is correct, install a new sensor. If voltage is not present, go to the next step.
- 3. Disconnect PJ27 and PJ271. Check the harness and the connectors for continuity. Repair or install a new harness if continuity test indicates an open wire. If harness is good, go to the next step.
- 4. Check for +3.3VDC and 0V (GND) between pins 2 and 3. If voltage is not correct, install a new PWB



Figure 1 Sensor wiring diagram

# GP 10 How to Switch Off the Machine or Switch On the Machine

## Purpose

To properly instruct the user how to switch off or switch on the machine. The following procedures will provide the greatest security of customer data and prevent damage to the machine.

#### Refer to:

- Switch Off Procedure
- Power Off Procedure
- Restart
- Switch On Procedure
- Sleep Mode

#### **Switch Off Procedure**

- Press and hold the power button on the UI control panel for 5 seconds, then release the power button.
- 2. After 5 seconds from releasing the power button, the machine will switch OFF automatically

#### **Power Off Procedure**

**Note:** Do not disconnect the power cord or interrupt the electricity supply before the power down is complete unless advised. The data and software can become damaged.

- 1. Press then release the **power button** on the UI control panel.
- 2. Touch Power Off.
- 3. When the power button stops blinking and is fully dark, remove the power cord from the customer's power supply outlet.

#### Restart

- 1. Press the **power button** once on the UI control panel.
- 2. Touch Restart from the power down options window.

Note: The machine will restart within 2–3 minutes.

#### **Switch On Procedure**

#### Note:

- After the machine has been switched off, wait a minimum of 2 minutes before the machine is switched on.
- After a service call, ensure that all service tools are removed from the machine.

- 1. Connect the power cord from the customer's power supply outlet to the machine.
- 2. Press the **power button** on the UI control panel.
- 3. The machine will perform a power on self test (POST) as it comes to Ready.

### Sleep Mode

- 1. Press the **power button** on the UI control panel.
- 2. Touch Sleep to enter sleep mode.

Note: When sleep is touched, the machine should immediately enter sleep mode.

Note: Issues that may cause the machine to not enter sleep mode:

- 1. There is an active fault or status needing attention. Check the UI for a page up arrow are UI fault log for active faults.
- 2. The system is busy doing something in the back ground (e.g. a data push, or there is a software bug and some process is hung).
- 3. An active job is in process of completion. Check the UI Jobs for activity.
- 4. Check the DADF for paper in the feeder and remove if found.

# GP 11 How to Safely Lift or Move Heavy Modules

# **Purpose**

Use this procedure when lifting or moving heavy modules.

#### Procedure

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When removing heavy modules from the machine, the instructions that follow must be observed:

1. Ensure that a suitable stable surface to support the module after removal is located in close proximity to the machine.

Note: Other parts of the machine are not a suitable stable surface.

- 2. Ensure that the height of the support surface is between 750mm and 1000mm (30 inches and 39 inches).
- 3. Ensure that there are no hazards or obstacles between the machine and the support surface.
- 4. If instructed to remove the module toward the rear of the machine and only 1 person is available, the module must be removed while standing at the rear of the machine. If 2 people are available, the module may be removed while standing at the front of the machine.
- 5. Two people are required if the module is to be lifted on to the floor or lifted from the floor.

### **GP 12 Machine Lubrication**

### **Purpose**

To give information on the use of lubricants.

### **Procedure**



**WARNING:** Switch off the electricity to the machine, **GP 10.** Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause the death or injury. Moving components can cause the injury.



**CAUTION**: Only use lubricants as directed. Incorrect use of lubricants could seriously affect the performance of the machine.

Take the precautions that follow when performing machine lubrication:

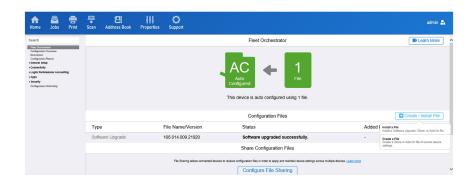
- Wear disposable gloves.
- Only use lubricants that are specified in the Parts List.
- Only lubricate parts of the machine as directed in the relevant RAPs, Repairs, Adjustments and General Procedures.
- Apply only the smallest amount of lubricant, sufficient to lubricate the parts. To prevent contamination, remove any surplus lubricant before the machine is run.
- Take great care not to contaminate other parts of the machine with the lubricant.

# **GP 13 Cloning**

Use this procedure to create or install a clone file in order to duplicate one machine setting's configuration to other machines or restore settings following Forced AltBoot using the DISABLE\_DATA\_BACKUP flag.

#### Create a Clone File

- 1. Open a web browser
- 2. Enter the machine's IP address in the Address line.
- 3. The Embedded Web Server window opens to the **Home** screen.
- 4. Select the **Properties** tab.
- 5. Login as **admin** at the prompt.
- 6. The **Fleet Orchestrator** screen opens, Figure 1.
- 7. Click the + Create/Install File button, then select Create a File from the drop down list.



Q-1-0018-A

Figure 1 Fleet Orchestrator Screen

8. The Create Configuration File screen opens. Select Clone File, Figure 2.



Q-1-0019-A

#### Figure 2 Clone File

9. The **Configuration Settings**, Figure 3, allows the user to turn off, or on, those settings required for the clone file.

**Note:** Click the **(Details...)** link next to each selectable component to view the data within that component.



Q-1-0020-A

Figure 3 Features and Feature Details

- 10. Click the **Create** button at the bottom right corner of the screen.
- 11. Click the file name link to dowload into the Downloads folder on the computer.

Note: It may take several minutes to create the cloning.dlm file. Do not make any changes or attempt to do anything with the machine such as power off until the process is complete.

Note: After the clone file has been created, do not attempt to open the clone file as it may corrupt it.

12. Click on **Close** to return to the Fleet Orchestrator screen.

## Installing a Clone file

Note: This procedure can be done from ANY PC connected to the network or the PWS connected to the machine using a crossover Ethernet cable. The only requirement is an Internet browser.

- 1. Open a web browser.
- 2. Enter the machine's IP address in the Address line.
- 3. The Embedded Web Server window opens to the **Home** screen.
- 4. Select the **Properties** tab.

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- 5. Login as **admin** at the prompt.
- 6. The Fleet Orchestrator screen opens.
- 7. Click the + Create/Install File button, then select Create a File from the drop down list.
- 8. On the Install Configuration File screen, select Clone File, Figure 4.



#### Figure 4 Clone File Selection

9. Click the **Browse** button, then navigate to the clone file, Figure 5.



Q-1-0022-A

#### Figure 5 Browse to the Clone File

Click the Install button.

Note: If the machine does not reboot after five minutes, switch off, then switch on the machine, GP 10.

10. Print a Configuration Report GP 14, then verify the clone file installation is successful.

Q-1-0021-A

# **GP 14 Printing Reports and Information Pages**

Reports and Information can be printed or viewed by two methods:

- 1. The Embedded Web Server.
- 2. The UI Control Panel.

### **Embedded Web Server (EWS)**

The EWS Configuration Report.

- 1. Enter the machine IP address found at the top of the UI Control Panel.
- 2. At the **Home** screen, click on the **Properties** tab.
- 3. Enter the username and password for **admin** access at the prompt.
- 4. On the left menu, click **Configuration Report**.
- 5. The Configuration Report is listed on screen, can be downloaded to the computer's Downloads folder, or printed to the printer output bin.

#### The UI Control Panel:

Note: Depending on policy setting, you may have to enter SA mode to print reports.

- Basic Configuration Report
- Detailed Configuration Report
- Billing Summary
- Getting Started
- Troubleshooting Print Quality
- Supplies Usage Page
- Graphics Demo Page
- PCL Font List
- PostScript Font List
- 1. At the UI panel Home screen:
- 2. Touch the **Device** icon on the UI.
- 3. Touch Information Pages.
- 4. Touch the Configuration Report or Information Page required, then press Print.

# Available Reports and Information in the UI Control Panel

#### **Basic Configuration Report**

Lists the current state of pertinent system configuration parameters including installed options and network settings.

#### **Detailed Configuration Report**

Details the current state of all system configuration parameters including installed options and network settings.

#### **Billing Summary**

Lists Billing Meter impression counters (for customers on billing meter supplies plans only) and Sheet Count by Paper Type.

#### **Getting Started**

Provides steps and information to basic settings for printer operation.

#### **Troubleshooting Print Quality**

Provides steps to resolve print quality issues.

#### Supplies Usage Page

Includes the current status of printer consumable and routine maintenance items. Installation dates and replacement part numbers are listed.

#### **Graphics Demo Page**

Shows a brief synopsis of the device graphics capabilities.

### **PCL Font List**

This report provides a list of the installed PCL fonts.

#### PostScript Font List

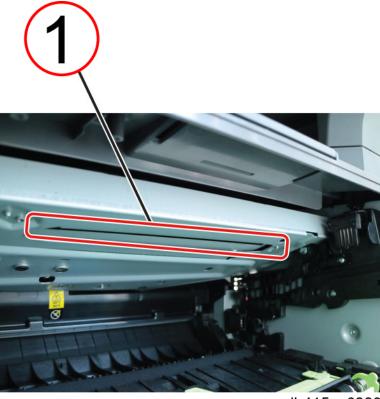
This report provides a list of the installed PostScript fonts.

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# GP 15 Cleaning the Printhead Lense

# Cleaning the Printhead Lense

- 1. Open the front door.
- 2. Remove the toner cartridge and imaging unit.
- 3. From the printhead access opening (1) in the top of the frame at the front of the printer, locate the printhead mirror.



vlb415s\_6003

### Figure 1 Printhead lenses

- 4. Insert a soft, lint-free cloth in the opening, and gently move the cloth back and forth along the surface of the mirror to clean it.
- 5. Repeat step 4.
- 6. Reinstall the imaging unit and toner cartridge.
- 7. Close the front door.

# **GP 16 Installation Space Requirements**

Outline the general space requirements to enable safe use and adequate access for service.



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



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

### Machine Height

Mαchine Configuration	Height
IOT + DADF (lowered)	514mm (20.2 inches)
IOT + DADF (raised)	810.3mm (31.9 inches)
IOT + DADF + Optional 550-sheet tray 2, DADF (lowered)	622.3mm (24.5 inches)
IOT + DADF + Optional 550-sheet tray 2, DADF (raised)	731.5mm (36.5 inches)
IOT + DADF + 550-sheet tray 2/3, DADF (lowered)	838.2mm (33 inches)
IOT + DADF + 550-sheet tray 2/3/4, DADF (raised)	1335mm (52.6 inches)
IOT + DADF + Optional + 550-sheet tray 2/3/4 + Adjustable Stand, DADF (lowered)	1012mm (39.8 inches)

# Machine Weight

Machine Configuration	Weight
IOT + DADF	27.1kg (47.9lb)
IOT + DADF + Optional 550-sheet tray 2	31.8kg (58.3lb)

Mαchine Configuration	Weight
IOT + DADF + Optional 550-sheet tray 2/3/4	41.2kg (79lb)
IOT + DADF + Optional + 550-sheet tray 2/3/4 + Adjustable Stand	72.4kg (159.6lb)

### **Paper Trays**

Configuration	Weight
Optional 550-sheet tray	4.7kg (10.36lb)
Optional 550-sheet lockable tray	4.8kg (10.58lb)

# Minimum Clearance Requirements

The minimum clearance requirements are for the minimum safety work space around the machine. To acquire this minimum safety work space, it may be necessary to move the machine within the area specified. A gap of 100mm (3.94 inches) is required at the rear for airflow to fans. This is also sufficient for the DADF when raised. Refer to, Table 1, Minimum Clearance Requirements.

#### **Table 1 Minimum Clearance Requirements**

Area	Dimensions
Тор	305mm/12 inches
Left Side	65mm/12 inches
Right Side	110mm/4.33 inches
Rear	100mm/3.94 inches
Front	305mm/12 inches

**Note:** These clearance values are for the most compact operating configuration of the product. Additional clearance (especially from the front) may be needed for clearing misfeeds or for replacement of the toner cartridges and imaging unit.

# **Installation Space Requirements**

The table and figures below provide the recommended minimum installation space requirements by machine configuration. Following these recommended minimums with ensure safe operation of the machine. Refer to, Table 2 Minimum Installation Space Requirements.

Table 2 Minimum Installation Space Requirements

Configuration	Machine Width	Machine Depth	Mαchine Height
IOT + DADF (raised) Figure 1	987mm / 38.9 inches	1165mm / 45.8 inches	1314mm / 51.7 inches
IOT + DADF + Op- tional 550–Sheet Tray 2/3/4 Figure 2	987mm / 38.9 inches	1165mm / 45.8inches	1638mm / 64.5 inches
IOT + DADF + Op- tional 550–Sheet Tray 2/3/4 + Ad- justable Stand Fig- ure 3	987mm / 38.9 inches	1165mm / 45.8 inches	2135mm / 84.1 inches

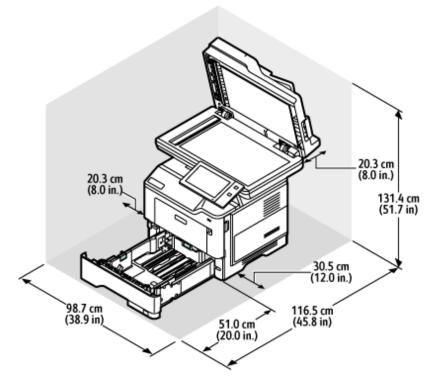


Figure 1 IOT + DADF

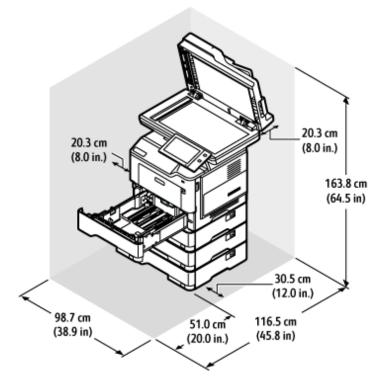


Figure 2 IOT + DADF + Optional 550-Sheet Tray 2/3/4

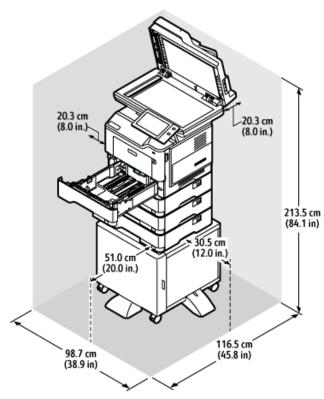


Figure 3 IOT + DADF + Optional 550-Sheet Tray 2/3/4 + Adjustable Stand

# **GP 17 Electrical Power Requirements**

# List of Tables:

- 1. Table 1, Electrical Power Usage
- 2. Table 2, Power Modes, supports up to six (6) power modes.
- 3. Table 3, Operation Modes

# Power Usage

# Table 1 Power Usage

State	Watts
Off (W)	0.1
Sleep State (W)	1.6
Ready Low Power State - Tier 2 (W)	17
Ready State - Tier 1/ first ~5 min (W)	1.6
Simplex Printing (W)	644
Duplex Printing (W)	407
Typical Electricity Consumption (kwh) Default Mode	0.71
Average Current While Operating 100-110V (A)	8.5
Average Current While Operating 110-127V (A)	7.3
Average Current While Operating 220-240V (A)	3.7
Rated (Maximum) Current 100-110V (A)	9.8
Rated (Maximum) Current 110-127V (A)	8.4
Rated (Maximum) Current 220-240V (A)	4.2

# **Power Modes**

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# Table 2 Operation modes

Mode	State			
Active Mode: Machine producing output.	<ul> <li>Power Used: Varies with job and includes maximum AC power.</li> <li>Active Mode Entry: From Ready or Sleep Modes upon receipt of a print or scan job.</li> <li>Active Mode Exit:Upon job complete.</li> <li>UI state: By default the UI is active with backlight on and indicator light blinking blue.</li> </ul>			
Ready Mode: Machine can respond to jobs with minimal delay.	<ul> <li>Ready Mode Entry</li> <li>From Active Mode on job completion.</li> <li>From Sleep Mode upon wake event.*</li> <li>From Hibernate Mode upon scheduled wake or touch of Power Button.</li> <li>From Off Mode via touch of Power Button.</li> <li>Ready Mode Exit</li> <li>To Sleep Mode upon Power Button touch.</li> <li>Sleep timeout of scheduled Sleep event.</li> <li>To Hibernate Mode upon scheduled event.</li> <li>To Off Mode via a 5 second press of the Power Button.</li> <li>UI State: At home screen by default with the indicator light illuminated blue.</li> </ul>			
Sleep Mode: Primary power saving mode. UI is dark. Machine can re- spond to jobs with some delay.	<ul> <li>Sleep Mode Entry</li> <li>From Ready Mode only via Sleep mode timeout, power button press, or scheduled day/time.</li> <li>Sleep Mode Exit</li> <li>To Ready Mode via wake events* or cycling AC power.</li> <li>To Deep Sleep Mode via a 6 minute timeout from entering Sleep mode</li> <li>To Hibernate Mode via scheduled Hibernate, or Hibernate inactivity timeout.</li> <li>To Off Mode via a 5 second press of the Power Button.</li> <li>UI State</li> <li>Indicator light is lit solid amber with panel dark.</li> <li>Touch screen is active in Sleep</li> </ul>			
Deep Sleep Mode: Enhanced power saving mode. UI is dark. Machine can respond to jobs with some delay.	<ul> <li>Deep Sleep Mode Entry</li> <li>From Sleep Mode only via 6-minute timeout after entering Sleep Mode.</li> <li>Deep Sleep Mode Exit</li> <li>To Ready Mode via wake events* or cycling AC power.</li> <li>To Hibernate Mode via scheduled Hibernate or Hibernate inactivity timeout.</li> <li>To Off Mode via a 5 second press of the Power Button.</li> <li>UI State</li> <li>Indicator light blinks amber with panel dark.</li> <li>Touch screen is active in Deep Sleep.</li> </ul>			
Hibernate Mode: Panel not lit. Touch not active. Minimal wake events recognized. MACHINE IS NOT RESPONSIVE	Hibernate Mode Entry Via scheduled date/time. Via inactivity timeout. adays by default.			

Mode	State
TO PRINT OR FAX JOBS IN THE HIBERNATE STATE. Supports ultralow power, via scheduled times when printer is not being actively used.	<ul> <li>By default, the inactivity timer is disabled if the machine is connected via network, USB, or FAX.</li> <li>Hibernate Mode Exit</li> <li>Press of the Power Button.</li> <li>Scheduled Wake.</li> <li>Cycling AC power.</li> <li>UI State: The indicator light will pulse amber otherwise the machine appears to be unpowered.</li> </ul>
Off (Soft Off) Mode: Lowest Power machine state. MACHINE IS NOT RESPONSIVE TO PRINT OR FAX JOBS IN THE OFF MODE.	<ul> <li>Off Mode Entry:         <ul> <li>Via a 5-second press of the Power (Soft-Off) Button.</li> </ul> </li> <li>If the machine is in Off Mode, and AC power is cycled.         <ul> <li>Machine will return to Off Mode.</li> <li>The Power Button LED will pulse for 30 seconds after AC power is reapplied before the machine re-enters Off Mode.</li> </ul> </li> <li>Off Mode Exit to Ready state:         <ul> <li>Via Power (Soft-Off) Button touch.</li> </ul> </li> <li>UI State:         <ul> <li>Panel buttons and all lights are off in Off Mode.</li> <li>The machine appears to be unpowered.</li> </ul> </li> </ul>
Wake:	Device may transition to a Wake state upon:
<ul> <li>The device is in the Wake state during printing, scanning, copying, or any time the display is active.</li> <li>Responsiveness and performance are most important in Wake, thus fewer power savings features are</li> <li>enabled in this state.</li> </ul>	<ul> <li>Physical activity:</li> <li>Wake sources vary depending on prior state, but may include</li> <li>Cover/Door open</li> <li>Touch Screen Press</li> <li>Power Button Press: always active</li> <li>Print or Scan Jobs initiated via USB, Ethernet, WiFi, FAX</li> <li>Note that some devices support ISP's (Internal Solutions Ports) to provide IEEE 1284 Parallel Port, Serial, and Fiber. These would also remain active during Sleep and wake the machine upon job receipt.</li> </ul>

#### Table 3 IOT states

Sub-System	Run Mode	Ready Mode	Low Power Mode	Sleep Mode	Sub Power Off Mode
Fuser	Maintaining operating temperature	Maintaining standby tempera- ture	Maintaining low temperature	Off	Off
Xerograph- ics	Operating state	Off	Off	Off	Off
Print Head Assembly	Operating state	Off	Off	Off	Off
Fusing Fan	Temperature controlled slow or fast rotation	Tempera- ture control in stop or rotate (slow)	Temperature control in stop or rotate (slow)	Off	Off
Marking Fan	Temperature controlled, ei- ther stopped or slow or fast rotation	Tempera- ture control led either stop or slow rotation	Temperature control led ei- ther stop or slow rotation	Off	Off
ESS (Reference only)	Operating state	Standby	Standby	Ready to receive	Inactive

# GP 18 Cleaning the Scanner

# Procedure

1. Lift the scanner cover, Figure 1.



VLC625S\_1001

# Figure 1 DADF

- 2. Using a damp, soft, lint-free cloth, wipe the following areas:
  - DADF glass pad, Figure 2.



VLC625S\_1002

# Figure 2 DADF glass pad

• Scanner glass pad, Figure 3.



VLC625S\_1003

Figure 3 Scanner glass pad

• DADF glass, Figure 4.



VLC625S\_1004

# Figure 4 DADF glass

• Scanner glass, Figure 5.



VLC625S\_1005

# Figure 5 Scanner glass

- 3. Close the scanner cover.
- 4. Open door C.
- 5. Using a damp, soft, lint-free cloth, wipe the following areas:
  - DADF glass pad in door C, Figure 6.



VLC625S\_1006

Figure 6 DADF glass pad in door C

• DADF glass in door C, Figure 7.



VLC625S\_1007

Figure 7 DADF glass in door C

6. Close door C.

# GP 19 Obtaining Audit and Device Logs

### Purpose

To obtain then download device data for analysis by 2nd level support. The machine needs to be out of Diagnostics GP 1, if you need to enable HTTPS or you will get an error.

**Note:** It may not be possible to obtain a device log if the device executed a reboot after an error occurred. To enable the device log collection enter Diagnostics, enter dC131, then set the NVM chain-link code 700-530 value to 0. Repeat the device log procedure then reset the NVM chain-link code 700-530 value back to 1.

#### **Initial Actions**

- Print a configuration report, GP 14 Printing Reports, to locate the machine's IPv4 address.
- The machine IPv4 address is also located at the top of the UI screen.

#### **Procedure**

#### User Panel (UI) on the Machine

- 1. Login as Admin.
- 2. Touch, Device > Tools > Network Settings > Advanced Network Settings > HTTP Settings.
- 3. Verify HTTP is [Enabled].

#### **Audit Log**

• Enter the **IPv4 address** from the Configuration Report, into the address line in a web browser, then press **Enter** on the keyboard to access the WebUI.

**Note:** The computer accessing the WebUI must be on the same TCP/IP network address as the machine.

- Within the WebUI, login to admin mode, GP 23 Customer Administration Tools.
- 1. Click the tab, [Properties], at the top of the screen.
- 2. On the left side of the screen click, Connectivity > Setup.
- 3. Scroll down to [Protocol], then [HTTP], verify the [Enabled] box is checked.

#### If unchecked:

- a. Click [Edit], to open the HTTP settings.
- b. In the [Configuration] section, click [Enabled].
- c. Enter the port number, [80] is the default.
- d. [Force Traffic over Secure Connection (HTTPS)], check [Yes], port number [443] is default.
- e. Click [Save] to save settings.

- 1. Within EWS, click the tab, [Properties], at the top of the screen.
- 2. On the left side of the screen, open the **Security** menu.
- 3. Open the [Logs] menu, then click [Audit Log].
  - a. Click the Export Audit Log radio button.
  - b. Click the **Download Log** link. A file named [UQA188055\_2022-12-28T15\_46-0800\_auditfile.zip], **example**, is downloaded to the **Downloads folder** on the computer.

**Note:** The instructions state to **Right click on the link to download**. This is a typo and should be ignored. Left click the link to download the log file.

c. Extract the zip file, then find the file named "auditfile.txt".

**Note:** To view the file, open with a text editor such as; Notepad, Notepad ++, Wordpad, or other text editing/viewing application.

- 4. If uploading to the SFTP Transfer Server, check the box to enable [Automatic Log Transfer].
  - a. Enter the [Log Transfer SFTP Server]:
    - [IPv4 Address], [xxx][xxx][xxx][xxx] and port :[xxxx].

or

- [Host Name], [xxx.xxx.xxx.xxx]:[xxxx].
- b. [Path], enter the HTTPS server address, if known.
- c. [Authentication], select the appropriate method.
- d. Enter the [Login Name] and [Password].
- e. Click, [Apply].

#### Support Logs

- Obtain the machine's IP address by printing a configuration report. Refer to GP 14 Printing Reports.
- 2. Access the web UI by entering the IP address into a web browser on a PC on the same network as the machine.
- 3. Log in to the web UI as an administrator. Refer to GP 23 Customer Administration Tools.
- 4. Click **Properties**, at the top of the screen.
- 5. On the left side screen menu, click **Security > Logs > Support Logs**.
- 6. Click Start Download.

- 7. Click **Download File Now**. A file named [UMQ000530\_20230208\_153932.zip], **example** is downloaded to the **Downloads** folder on the computer.
- 8. Support Logs can also be downloaded to a USB drive by using the Control Panel (UI):
  - a. Login as admin.
  - b. At the Control Panel (UI), Touch; Device > Tools > Network Settings > Support Logs > Download Log Files.

**Note:** If a USB drive is not detected, the **USB Drive Not Found** screen appears. Insert a USB drive or remove, then insert the USB drive again. Select **OK**, the download will begin to the USB drive.

# GP 20 First Copy/Print Out Time and Power On Time

# Time to Ready and Time to First Print

**Ready State**: The printer's "Ready State" is when all Op-Panel, Engine, and RIP functions are "Active", and the printer is ready to print.

**Hibernate State:** The printer's "Hibernate State" is an ultra-low power state that only "Wakes" (comes out of a low power state or off) the printer for programmed "Wake Events" or a Soft Off button press.

Table 1 Power On, FPOT, and FCOT Specifications

Process	Туре	Time In Seconds	
Power On		136.2	
F: + D	Mono – PS	5.65	
First Page Out Time (FPOT)	Mono – PCL	6.56	
First Copy Out Time (FCOT)	Mono	5.7	

# GP 21 Restriction of Hazardous Substances (RoHS)

# **Purpose**

To provide information on the RoHS Directive.

The RoHS Directive restricts the use of certain hazardous substances in electrical and electronic equipment. It applies to equipment placed in the European Union (EU) market. The directive takes effect from 1st July 2006.

**Note:** Currently these restrictions are only for the European Union (EU) market and some associated countries. For more information go to www.Xerox.com. However, Xerox has mandated that all Xerox® VersaLink® machines must be maintained as RoHS compliant.

The hazardous substances are:

- Lead (Pb)
- Mercury (Hg)
- Cadmium (Cd)
- Hexavalent Chromium (Cr 6+, Cr [VI])
- Polybrominated Diphenyl Ethers (PBDEs)
- Polybrominated Biphenyls (PBBs)

# Identification of a RoHS Compliant Machine

Xerox will maintain a central list of RoHS compliant machines.

All Xerox® VersaLink® machines are RoHS compliant at time of manufacture.

#### Procedure



**CAUTION**: Failure to comply with RoHS guidelines can result in product recalls, imprisonment, fines or penalties.

Use only spares that are listed in the Xerox® VersaLink® Spare Parts List. Do not use spare parts from other similar machines, even if the parts look identical. All Xerox® VersaLink® machines are RoHS compliant at time of manufacture and must be maintained as RoHS compliant.

# **GP 22 Backup & Restore Settings**

The Backup & Restore feature takes a snapshot of your device's settings and saves them as a backup file to the device itself. Xerox recommends backing up your device settings when the device is operating as desired. This practice is useful for restoring (applying settings) to your device, such as when the settings have changed in error. Note that settings contained in the Daily backup file will be reapplied after a software upgrade. Updating this file before upgrading software will maintain your device's most recent settings.



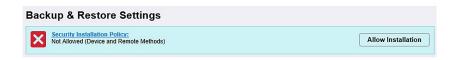
**CAUTION**: Before starting the procedure, inform the system administrator when any service procedure may result in the loss of saved customer settings.

### Setting the Security Installation Policy for Backup & Restore

- 1. Open a web browser, then enter the machine IP address in the browser address line.
- 2. When EWS loads, click on **Login** in the upper right of the screen.
- 3. Enter the username **admin** and password to log in as admin.

**Note:** The default Password is the **device serial number**. If the admin password is changed, contact the owner for the admin password or follow the instructions in, GP 28, Resetting the System Administrator Password. If changed during the service call, make sure the admin password is set back to the owner created password, before performing, SCP 5, Final Actions.

- 4. Click Properties > Security > Installation Policies.
- Backup & Restore is the first policy listed. Check the box, then click <u>Take me there...</u>, to the right.
- 6. The first line, highlighted in blue, lists the active Security Installation Policy.
  - Figure 1, shows backup and restore as not allowed. Click the Allow Installation button to allow installation.



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Figure 1 Allow Installation

# Setting the Security Installation Policy for Backup & Restore (continued)

 Figure 2, shows backup and restore as allowed. Click the Restrict Installation button to not allow installation.



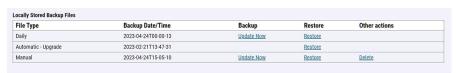
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Figure 2 Restrict Installation

#### **Locally Stored Backup Files**

Backup files stored in the machine's memory are listed by, Figure 3:

- File Type
  - Daily File is a backup file that is created automatically every day around midnight. This file
    can not be deleted, but it will be overwritten by a new file.
  - Automatic Upgrade File is a backup file that is created when a SW upgrade is performed.
     This file can not be deleted, but it will be overwritten by a new file.
  - Manual File is a File that the customer can choose to create at any time.
- Backup Date/Time
- Action
  - Backup: backup/update files immediately.
  - Restore: restore files immediately.
  - Other Actions: delete Manual backups immediately.



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#### Figure 3 Locally Stored Backup Files and Actions

#### Import & Restore Backup File

1. In the Embedded Web Server, click Properties > General Setup > Backup & Restore Settings.

### Import & Restore Backup File (continued)

- 2. Click **Browse**, then navigate to the file to be restored. The file name appears in the **[Choose File]** window.
- 3. Click the Import & Restore button to restore the machine settings from the selected file.

# Create & Export Backup File Creating and Downloading a Backup File

- 1. In the Embedded Web Server, click **Properties > General Setup > Backup & Restore Settings**.
- 2. Click Create and Export.
- The Backup Instructions page appears with a checked box stating The backup file has been successfully created.
- To download the new backup file, click the file name link [2023-04-24T15-47-49\_UPQ100574.
   bkup] example. The file begins downloading to the computer's Downloads folder.

### **GP 23 Customer Administration Tools**

#### Purpose

To gain access to Customer Administration Tools in the UI control panel or to login as an administrator via the Embedded Web Server (EWS).

Refer to the relevant procedure:

- How to Enter Customer Administration Tools
- How to Enter Admin Mode via the EWS

#### **How to Enter Customer Administration Tools**

- 1. Switch on the machine. GP 10.
- 2. When the machine completes startup to ready, touch Log In in the top left corner of the UI.
- 3. Touch the keys in the UI to type the user name, **admin**, in the box.
- 4. Touch Next.
- 5. Enter the password.

Note: The default password is the machine serial number (case sensitive). If the machine serial number does not work, request the customer created password for admin user. Be sure to change the password back to the customer created password if the password is changed during the service call.

Note: A new device will have a default password of the device Serial Number (case sensitive). Refer to, GP 28 Resetting the System Administrator Password.

- 6. Touch Done.
- 7. The user **Admin** is displayed in the top left corner of the UI control panel.

# Admin User Logout

- 1. Touch Admin in the top left corner of the UI control panel.
- 2. Touch **Log Out**, then at the next screen touch:
  - a. Cancel to remain in admin mode.
  - b. Log Out to exit admin mode.

#### How to Enter Admin Mode via the EWS

1. Type the device IP address into a web browser.

Note: The machine IP address can be found:

- At the top center of the UI control panel.
- · The EWS Home Screen.
- The machine Configuration Report, refer to GP 14 Printing Reports.
- 2. Select Login at the top right corner.
- 3. The **Login** screen is displayed:
  - a. In the User ID box enter admin.
  - b. Enter the password.

Note: The default password is the machine serial number (case sensitive). If the machine serial number does not work, request the customer created password for admin user. Be sure to change the password back to the customer created password if the password is changed during the service call.

Note: A new device will have a default password of the device Serial Number (case sensitive).

Refer to, GP 28 Resetting the System Administrator Password.

- c. Click Login.
- 4. The user admin is displayed in the top right corner of the EWS screen.

### Admin User Logout

- 1. Select admin in the top right corner of the UI control panel.
- 2. Select **Logout** from the pull down menu.

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# GP 24 How to Set the Date and Time

### Purpose

To set the machine's date and time.

#### Procedure

Perform the steps that follow:

- 1. Enter Customer Administration Tools, GP 23.
- 2. Touch Device.
- 3. Touch General.

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- 4. Touch Date & Time.
- 5. Again, touch Date & Time.
- 6. Correctly set the date and time. Touch OK.
- 7. Log out of Customer Administration Tools.

# **GP 25 Ethernet Crossover Cable Setup**

### **Purpose**

To connect and then configure the PWS to communicate with a device via a ethernet crossover cable (600T02252).

#### Procedure



**WARNING:** Switch off the electricity to the machine, **GP 10**. Disconnect the power lead from the customer supply while performing tasks that do not need electricity. Electricity can cause death or injury. Moving components can cause injury.

- 1. Print a configuration report, GP 14.
- 2. Ensure that Windows firewall and wireless network connectivity on the PWS are turned off.
- 3. Record the IP address and Subnet Mask of the PWS.



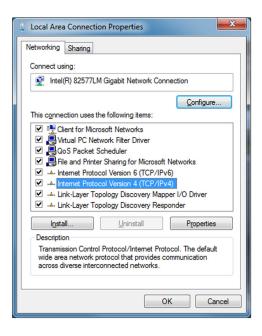
**CAUTION:** Before changing the value of a setting ensure the original value is recorded. All the original values will need to be restored to the PWS at the end of the procedure.

- a. Open a command window on the PWS:
  - Select **Start** and in the Search box above the Start button, type **CMD**, then press **Enter**.
- Type ipconfig at the command prompt, then record the Local Area Connection: IPv4 Address and Subnet Mask.
- 4. Configure the LAN connection of the PWS to enable communication with the device. Go to the relevant procedure:
  - Windows 7.
  - Windows 10.

#### Windows 7

Perform the steps that follow:

- 1. Select the Windows Start button, then Control Panel, then Network and Sharing Center.
- 2. From the left pane, select Change adapter settings .
- 3. Right-click on the **Local Area Connection icon** . Select **Properties**. The Local Area Connection Properties window will open.
- 4. Select **Internet Protocol Version 4 (TCP/IPv4)** . Select **Properties**, Figure 1. The Internet Protocol Version 4 (TCP/IPv4) Properties window will open.



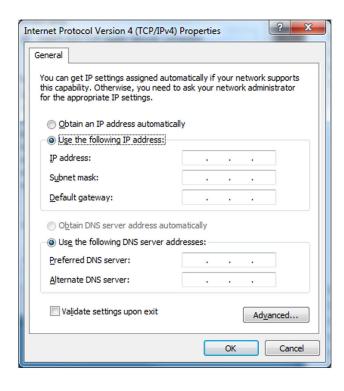
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### Figure 1 Properties window

- 5. Double-click the entry Internet Protocol Version 4 (TCP/IPv4).
- 6. Select Use the following IP address, then enter the IP address and subnet mask.

Refer to the configuration report then:

- Set the IP address of the laptop one number higher than the device. For example, if the IP address of the device is 192.168.196.112, set the IP address of the laptop to 192.168.196.113.
- Set the Subnet mask of the laptop to the same as the Subnet mask of the device, Figure 2.



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#### Figure 2 Properties window

- Click on OK to close the properties dialog box, then OK to close the second properties dialog box.
- 8. Close the Local Area Connection Status dialog box.
- 9. Connect the ethernet crossover cable to the device, then continue with your procedure.

#### Windows 10

Perform the steps that follow:

- 1. Select the Windows **Start** button, then select **Settings**.
- 2. Select Network & Internet.
- 3. Under Related settings select **Network and Sharing Center**, then from the task list on the left of the screen select **Change adapter settings**.
- 4. Right click on Local Area Connection (Ethernet), then select Properties.

- Select Internet Protocol Version 4(TCP/IPv4), then select Properties. The Internet Protocol Version 4 (TCP/IPv4) Properties window will open.
- 6. Select Use the following IP address, then enter the IP address and subnet mask.

Refer to the configuration report then:

- Set the IP address of the laptop one number higher than the device. For example, if the IP address of the device is 192.168.196.112, set the IP address of the laptop to 192.168.196.113.
- Set the Subnet mask of the laptop to the same as the Subnet mask of the device.
- 7. Select **OK** to close the properties dialog box, then **OK** to close the second properties dialog box.
- 8. Close the Local Area Connection Status dialog box.
- 9. Connect the ethernet crossover cable to the device, then continue with your procedure.

# **GP 26 Supplies Plan Activation**

To assist in activation of a new or changed Supplies Plan (formerly known as PagePack).

#### Introduction

The machine is typically shipped with a Neutral and Factory supplies plan coded CRUM in the toner cartridge. Refer to, Table 1, Supplies Plan Variables and Regional Differentiations. When the first replacement toner cartridge is installed, the Regional Differentiation Code and Toner Cartridge Type in the machine settings are automatically changed to the same settings as the cartridge.

**Note:** Factory Learning Mode is Service Plan = **Neutral** and Regional Differentiation = **Factory**. It is also possible on this product to be in Regional Learning Mode, where a Service Plan = Sold or Metered and the Region = Factory.

**Note:** US devices will automatically set to metered without a PIN entry when a metered toner is inserted as the first toner after SWE.

**Note:** When a device has been set to sold, possibly upon a Sold cartridge inserted as the first toner after SWE, then any metered toner should be disallowed. Once Sold is set, only a Supplies Plan (formerly known as PagePack) PIN or a Plan Conversion, GP 37, can be used to set Metered/Supplies Plan (formerly known as PagePack).

There are four service Plan Variables and six Regional Differentiations:

#### Plan Variables

- Neutral as shipped
- Sold
- Metered
- Supplies Plan (formerly known as PagePack)

### Regional Differentiations

- NA
- XE
- NAXE
- DMO
- Metered
- Factory as shipped

Note: Refer to, PL 26.05 for part numbers.

### Verify the Current Machine Supplies Plan (formerly known as PagePack) Plan Configuration

At the machine UI:

- 1. Print a Configuration Report GP 14.
- 2. The supplies plan is shown on the configuration report under the General Setup heading.

#### In EWS:

- 1. Open a web browser.
- 2. Enter the machine IP address.
- 3. On the **Home** screen scroll to the bottom and select **Configuration Report**.
- 4. The screen displays the configuration report in alphabetical order. Select **General Setup**.
- 5. The **Service Plan** is shown in the list. Typical **as shipped** service Supplies Plan is **Neutral**.

**Note:** Do not attempt to change the NVM settings in Table 1, they are for reference only.

Table 1 Supplies Plan Variables and Regional Differentiations

Device Configu- ration (all pos- sible) Xerox NVM				Xerox Toner			
Plan Varia- bles: Neutral Sold Metered Supplies Plan (for- merly known as Page- Pack)* Regional Differen- tiation: NA XE NAXE DMO WW Factory	SWE (starter toner) (Sold_ WW)	Me- tered_ WW	Sold_NA	Sold_XE	Sold_ DMO	Sold_ NAXE	Sold_ WW
Me- tered_ WW  Me- tered_ NA Me- tered_XE Me- tered_ NA/XE	Y	Y	Y	Y	Y	Υ	Y

Device Configu- ration (all pos- sible) Xerox NVM				Xerox Toner			
Me- tered_ DMO							
Sold_NA	Y	Ν	Y	Ν	Ν	Y	Υ
Sold_XE	Υ	N	N	Υ	N	Υ	Υ
Sold_ DMO	Υ	N	N	N	Υ	N	Υ
Sold_ WW	Υ	N	Υ	Υ	Υ	Υ	Υ
Sold_ NA/XE	Υ	N	Υ	Υ	N	Υ	Υ

\*Supplies Plan (formerly known as PagePack) and Metered configurations have the same behavior

**Note:** If a problem occurs after several toner replacements, the customer may have received the wrong toner in a consumable order; either because the wrong part number was ordered, or the shipment did not match the order. Resolution in this case is simple; the customer should exchange the toner for the correct part.

**Note:** If an incorrect toner cartridge was installed at the first toner replacement after install, or if the machine's configuration changed due to software or NVM corruption, resolve the issue, then perform the following procedure:

#### Note: 220VAC machines:

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- May ask for a Supplies Plan (formerly known as PagePack) Activation Code with a courtesy print time.
- This may happen when a metered toner is inserted into a neutral machine still running on SWE toner.
- This will appear automatically in Europe.
- A Supplies Plan (formerly known as PagePack) Activation Code can also be entered at any time
  by navigating through the following procedures.

#### Obtaining a Supplies Plan (formerly known as PagePack) Activation Code

- XE: Contact: office.europe.page.pack.pin@xerox.com.
- NA: Follow Local Process.

**Note:** The machine Serial Number and the Supplies Plan (formerly known as PagePack) Sequence number are required.

#### Supplies Plan (formerly known as PagePack) Activation via Web UI (EWS)

- 1. In the Embedded Web Server window, enter the machine IP address, then login as [admin].
- 2. Select the [Properties] tab, then in the left column select [General Setup].
- 3. Select [Supplies Plan Activation Code].



**CAUTION:** Compare the serial number on the screen with the serial number on the configuration report to ensure the correct machine is being changed.

4. Enter the 6-character Supplies Plan (formerly known as PagePack) Activation Code provided above, in [Supplies Plan Activation Code], then select [Apply].

The Geographic Differentiation Code and Toner Cartridge Type will be reset to the values of the customer's agreed-to supplies plan.

#### Supplies Plan (formerly known as PagePack) Activation via Remote Control Panel (RPC)

- 1. Open a browser window, then enter the machine IP address to open Embedded Web Server.
- Scroll down to remote control panel and start remote session, then login at the admin login screen.
- 3. At the [Home] screen, select [Device].
- 4. Select [Tools].
- Select [Device Settings].
- 6. Scroll down, touch [Supplies], then select [Enter Supplies Plan Activation Code].



**CAUTION:** Compare the serial number on the screen with the serial number on the configuration report to ensure the correct machine is being changed.

- 7. Enter the 6-character Supplies Plan Activation Code provided.
- 8. Select [OK].

The Geographic Differentiation Code and Toner Cartridge Type will be reset to the values of the customer's agreed-to supplies plan.

#### Supplies Plan Activation via Machine UI

- 1. At the [Home] screen, (Log In to Admin mode is not required).
- 2. Touch [Device] on the UI, touch [Tools].
- 3. Touch [Device Settings].
- 4. Scroll down, touch [Supplies], then touch [Enter Supplies Plan Activation Code].



**CAUTION:** Compare the serial number on the screen with the serial number on the configuration report to ensure the correct machine is being changed.

- 5. Enter the 6-character Supplies Plan Activation Code provided in step above.
- 6. Touch [OK].

The Geographic Differentiation Code and Toner Cartridge Type will be reset to the values of the customer's agreed-to supplies plan.

### **GP 27 Intermittent or Noise Problem**

### **Purpose**

The purpose of this RAP is to provide guidance for resolving an intermittent or noise 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 or noise problem.

#### Procedure

- 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. Noise problems may be due to improper installation. Check for packing materials that have not been removed. Check for loose or missing hardware.
- 3. 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.
- 4. 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, maladjusted, 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
- 5. 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 referred to 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

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- 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.
- 6. 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.
- 7. Check that the AC and DC power are within specification.
- 8. Get technical advice or assistance when it is appropriate. This will depend upon the situation and the established local procedures.
- 9. 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, maladjusted, 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
- 10. 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
- 11. 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.
- 12. 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.

13. 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 28 System Administrator Password Reset**

When the customer has forgotten the administrator password and so needs a new one, the customer must call the Welcome Center and request an administrator password reset.

**Note:** Check to see if the machine password is set at the default. The default password is the Serial Number and is case sensitive.

- 1. The Welcome Center will request the machine serial number and current total impressions.
- 2. The Welcome Center generates a Feature Installation Key number.
- 3. Press the **Device** icon, then select **Tools**.
- 4. If necessary, select **Device Settings**, then select **General > Feature Installation**.

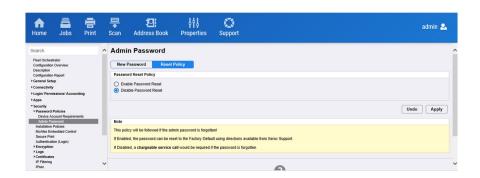
**Note:** The UI control panel **Feature Installation** menu is accessible without logging in to the admin account.

- 5. Enter the Feature Key on the Feature Installation Key screen to reset the admin log in credentials to the values **admin** and **1111**.
  - a. Test the credentials by trying to log in and the Control Panel or EWS.



**CAUTION:** The next step calls for a Forced AltBoot procedure to be performed. In this case, **DO NOT** back up or restore customer settings using, GP 22. Doing so will relock the administrator password. Instead, tell the customer that the settings will need to be restored manually. Ask the customer to record all appropriate settings so that they can restore them after the procedure is complete.

6. If, after performing Steps 1–5 above, the password is not reset, check EWS to verify the password reset has been disabled by the customer, Figure 1. The password can only be reset by a CSE arriving on site and performing a **Forced AltBoot**. Refer to, GP 4 Software Upgrade.



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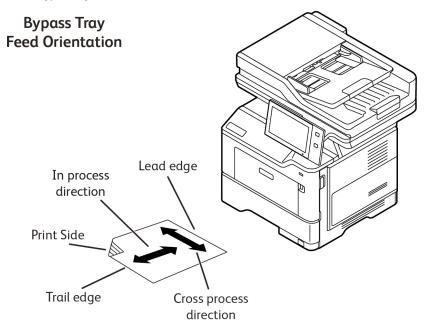
Figure 1 Disable Password Reset EWS screen

# **GP 29 Print/Copy Orientation Definitions**

To describe print/copy orientation definitions.

### **Definitions**

- Lead-edge the edge of the paper first entering the paper path.
- Trail-edge, the edge of the paper last entering the paper path.
- In process direction can also be described as the slow scan direction.
- Cross process direction can also be described as the fast scan direction.
- 1. Figure 1, Bypass Tray Feed Orientation, depicts the correct orientation for simplex printing from the bypass tray.



vlb415s6004

### Figure 1 Bypass Tray Feed Orientation

2. Figure 2,Tray Feed Orientation, depicts the correct orientation for simplex printing from tray 1, 2, 3, or 4.

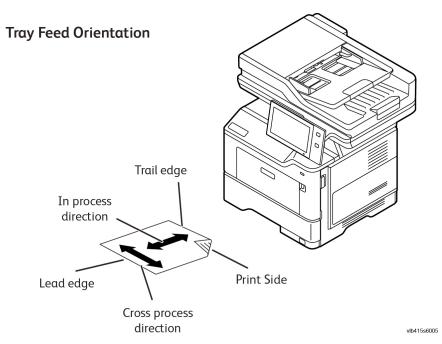


Figure 2 Tray Feed Orientation

# GP 30 Paper and Media Size Specifications

# **Purpose**

As a reference of Xerox supported I/O media capacities, media types, media sizes, and media bonds and weights.

# Specifications

Note: Check that the paper tray settings match the paper size in the tray.

Refer to the tables that follow:

- Table 1 Input/Output Media Capacities.
- Table 2 Media Sizes.
- Table 3 Media Bonds and Weights.

### Table 1 Input/Output Media Capacities

Input/Output Capacity by Media and Source						
Source	Media	Stack Height	Approximate Reference Capacity			
	Input					

Input/Output Capacity by Media and Source							
550 1 1 42	Plain Paper <sup>1</sup>		550 sheets (75 g/m²)				
550 – sheet Tray 1 <sup>2</sup>	Labels	59 mm	200 labels (131 gm) <sup>3</sup>				
Optional 550 – sheet Tray 2/	Plain Paper <sup>1</sup>		550 sheets (75 g/m²)				
3/42	Labels	59 mm	200 lαbels (131 gm) <sup>3</sup>				
Don ves Town?	Plain Paper <sup>1</sup>	44	100 sheets (75 g/m²)				
Bypass Tray <sup>2</sup>	Envelopes, Other	11 mm	Various quantities <sup>4</sup>				
Output							
Center Tray <sup>1, 2</sup>	Plain Paper	~ 44 mm	250 sheets (75 g/m²)				

<sup>&</sup>lt;sup>1</sup> 20 lb. xerographic paper at ambient environment.

<sup>&</sup>lt;sup>2</sup> Capacity may vary and is subject to media specifications and printer operating environment.

<sup>&</sup>lt;sup>3</sup> Capacity will vary with label material and construction.

<sup>&</sup>lt;sup>4</sup> Capacity will vary depending on weight and type of media.

### Table 2 Media Sizes

Name	Duplex	550 – sheet Tray 1	Optional 550 – sheet Tray 2/3/4	Bypass Tray	Center Tray	DADF Detection	Platen Detection
Letter (8.5 x 11") 215.9mm x 279.4mm	•	•	•	•	•	•	•1
Legal (8.5 x 14") 215.9mm x 355.6mm	•	•	•	•	•	•	•2
Postcard (4 x 6") 101.6mm x 152.4mm				•	•		
5 x 7" 127.0mm x 177.8mm		•	•	•	•		
Statement (5.5 x 8.5") 139.7mm x 215.9mm		•	•	•	•	•	
Executive (7.25 x 10.5") 187.2mm x 266.7mm		•	•	•	•		
8 x 10" 202.3mm x 254.0mm		•	•	•	•		
8.5 x 13" 215.9mm x 330.2mm		•	•	•	•	•	•2
8.5 x 13.4" 215.9mm x 340.2mm	•	•	•	•	•	•	•2
A4 (210 x 297 mm)	•	•	•	•	•	•	•1
A5 SEF(148 x 210 mm)		•	•	•	•	•1	
A5 LEF(148 x 210 mm)		•	•	•	•		
A6 (105 x 148 mm)		•	•	•	•		
B5 (176 x 250 mm)		•	•	•	•		
JIS B5 (182 x 257 mm)		•	•	•	•		
215 x 315 mm	•	•	•	•	•		•2
C5 Envelope (162 x 229 mm)				•	•		
C6 Envelope (114 x 162 mm)				•	•		

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Name	Duplex	550 – sheet Tray 1	Optional 550 – sheet Tray 2/3/4	Bypass Tray	Center Tray	DADF Detection	Platen Detection	
DL Envelope (110 x 220 mm)				•	•			
Envelope (6 x 9") 152.4mm x 228.6mm				•	•			
Monarch Envelope (3.9 x 7.5") 98.4mm x 190.5mm				•	•			
No. 9 Envelope (3.9 x 8.9") 98.4mm x 225.4mm				•	•			
No. 10 Envelope (4.1 x 9.5") 104.8mm x 241.3mm				•	•			
Note: These constraints apply only to size. In respect of Envelopes, the size may be able to be duplex or invert, where the type may not. To fully understand the constraint for a given media, both size and type must be taken into account.							The size detected will be based on the Paper Size Preference setting  The size detected will be based on the	

2 The size detected will be based on the Default Legal Size setting.

Table 3 Media Bonds and Weights.

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Media Types	Weight Range	Duplex	550 – sheet Tray 1	Optional 550 – sheet Tray 2/3/4	Bypass Tray	Center Tray	DADF
Plain	75 - 90 gsm	•	•	•	•	•	•
Hole Punched	75 - 90 gsm	•	•	•	•	•	•
Letterhead	75 - 105 gsm	•	•	•	•	•	•
Lightweight Cardstock	120 - 162 gsm				•	•	
Cardstock	163 - 216 gsm				•	•	
Recycled	75 - 90 gsm	•	•	•	•	•	•
Bond	75 - 105 gsm	•	•	•	•	•	•
Labels	75 - 131 gsm		•	•	•	•	
Pre-Printed	75 - 90 gsm	•	•	•	•	•	•
Envelope	60 - 105 gsm				•	•	
Lightweight	60 - 74 gsm	•	•	•	•	•	•
Custom Type 1	75 - 90 gsm	•	•	•	•	•	
Custom Type 2	75 - 90 gsm	•	•	•	•	•	
Custom Type 3	75 - 90 gsm	•	•	•	•	•	
Custom Type 4	75 - 90 gsm	•	•	•	•	•	
Custom Type 5	75 - 90 gsm	•	•	•	•	•	
Custom Type 6	75 - 90 gsm	•	•	•	•	•	

Media Types	Weight Range	Duplex	550 – sheet Tray 1	Optional 550 – sheet Tray 2/3/4	Bypass Tray	Center Tray	DADF
Custom Type 7	75 - 90 gsm	•	•	•	•	•	
	nts apply only to type. In n size and type must be t	•	s, the size may be able to	be duplex or invert, where the type m	nay not. To fully unders	stand the constraint	Note: The weight range supported in the DADF shall be from 52–120 gsm and must be non-coated media.

Revised Update

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# GP 31 Environmental Data

# **Operating Environment**

Table 1Temperature and Humidity, lists the minimum and maximum range of temperature and humidity limitations during normal operation of the machine.

Table 1 Temperature and Humidity

Environment	Specifications
Operating Temperature and Relative Humidity <sup>a</sup>	10 to 32.2°C (50 to 90°F) and 15 to 80 % RH 15.6 to 32.2°C (60 to 90°F) and 8 to 80 % RH Maximum wet-bulb temperature (2): 22.8°C (73°F), non-condensing environment.
Operating Altitude Altitude – Packaged	0 – 2,896 meters (0 - 9,500 ft.) 0 - 10,363 meters (0 - 34,000 ft.)
Printer / Cartridge / IU Long-Term Storage <sup>b</sup>	15.6 to 32.2°C (60 to 90°F) and 8 to 80% RH Maximum wet-bulb temperature (2): 22.8°C (73°F)
Printer / Cartridge / IU Short-Term Shipping	-40 to 40°C (-40 to 104°F)

 $<sup>^{</sup>lpha}$  In some cases performance specifications (such as paper OCF, EP cartridge usage) are specified to be measured at an Lab Ambient condition.

### Noise

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- Table 2 Sound Pressure Levels, contains the maximum sound pressure in decibels.
- Table 3 Sound Power Levels, contains the maximum audible power in decibels during operation.

**Table 2 Sound Pressure Levels** 

Sound Pressure Levels	dB Value
Idle	15
Simplex Print	55
Duplex Print	54
Quiet Mode Print (Simplex)	51
Scan to file	52
DADF Copy	57

#### **Table 3 Sound Power Levels**

Sound Power Levels	dB Value
Idle	3.1
Simplex Print	7.1
Duplex Print	6.9
Quiet Mode Print (Simplex)	6.6
DADF Scan to file	3.1
DADF Copy	6.9

<sup>&</sup>lt;sup>b</sup> Supplies shelf-life is approximately 2 years. This shelf-life estimate is based on storage in standard office environment at 720 F (22.20 C) and 45 % humidity.

<sup>&</sup>lt;sup>c</sup> Wet-bulb temperature is determined by the air temperature and the relative humidity.

# **GP 32 Device Specification**

Provide an over view of the The Xerox® VersaLink® B415 Mono Multifunction Printer standard features and available options.

# **MFP/IOT Standard Features**

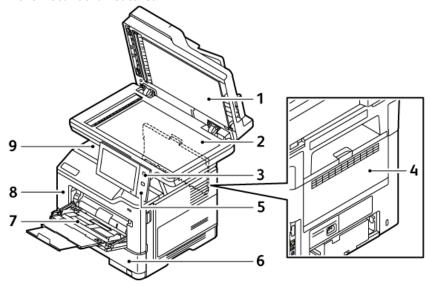


Figure 1 Machine Features Identification

- 1. DADF
- 2. Flatbed Scanner
- 3. Power Button
- 4. Rear Door
- 5. NFC Sensor
- 6. Tray 1
- 7. Bypass Tray
- 8. Front Cover
- 9. Center Tray

### Accessories

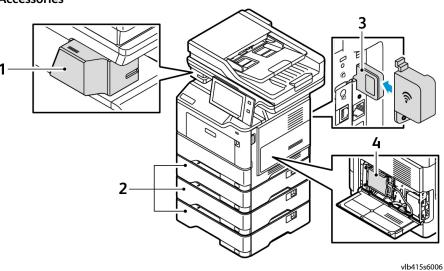


Figure 2 VLB415 Optional Accessories

- 1. Convenience stapler, PL 25.05 item 3
- 2. Optional 550 Sheet trays 2/3/4, PL 25.05 item 9.
- 3. Wifi Network Adapter, PL 25.05 item 1.
- 4. 500+GB Hard Disk, PL 25.05 item 2.

# **GP 33 Restoring Customer Mode**

## **Purpose**

This procedure provides a method to restore normal customer mode in the event that a procedure such as a software load, or NVM initialization has reset NVM 616-014 system install phase to the default value of 0 (non-customer mode).



**CAUTION:** NEVER change the controller PWB, control panel display, or start the machine with the black toner cartridge out of the machine while NVM 616-014 is set to 0, as three-way synchronization is not performed.

#### Overview

During some service procedures, NVM 616-014 may be set to the default value of 0. When this occurs, the screen will display the message **The device is in a non-customer mode**, Figure 1.



Figure 1 UI Display

The EWS UI screen will show no serial number, Figure 2.

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Figure 2 EWS UI Screen

When the NVM value is reset to 2, using the procedure listed below, it will cause the machine to restart in Install Wizard mode. Re-running the Install Wizard will restore other customer data that also may have been lost.

After the Install Wizard completes, the value of NVM 616-014 is automatically set to 4.



**CAUTION:** POSU will NOT run if the machine is in non-customer mode, even though it may appear that SW load has completed successfully. For some SW upgrades, it is necessary for POSU to run to finish installing upgrades in all platforms.

#### **Procedure**

- 1. Enter Diagnostics, GP 1.
- 2. Select Adjustments.
- 3. Select dC131.
- 4. Enter 616-014 and select Read.
- 5. Set the NVM value to 2. Figure 3.

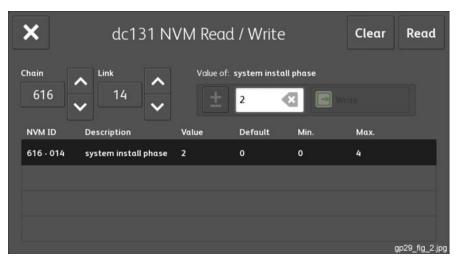


Figure 3 NVM 616-014 set to 2

- 6. Touch Write.
- 7. Touch the X to close, then select the Call Closeout button.
- 8. Select Exit & Reboot.

When the machine completes rebooting the Install Wizard will prompt to enter the initial settings. Follow the instructions on the screen to enter appropriate values as required. When the Install Wizard process completes the machine will reboot and the value of **NVM 616-014** will automatically be set to 4 (customer mode). During this reboot, if POSU is required, it will be performed.

**Note:** There is no indication on the screen when the machine is in customer mode. The only time any indication appears on the UI screen is when the machine is in non-customer mode.

# GP 34 How to Re-Enter Optional Feature Installation Keys

## **Purpose**

To explain how to re-enter optional feature installation keys.

#### Procedure

Perform the following:

- 1. Obtain the valid Feature Installation key(s) by either:
  - a. Asking the customer.
  - b. Logging into the SWAP portal, https://www.xeroxlicensing.xerox.com/fik/.
    - From the Welcome screen, select Find and existing key.
    - Enter the machine serial number in the window, then select **Next**.
  - Contacting the Licensing Admin Centre (USSG/XCL) or the Xerox sales representative (XE/DMO).
- 2. Enter the Feature Installation keys(s). Perform the following:
  - a. Select the Device icon on the UI.
  - b. Select Tools.
  - c. Select Device Settings > General.
  - d. Select **Feature Installation**. Enter the Feature Installation key, then select **OK**. If necessary, enter the second Feature Installation key.
  - e. Feature Installation Keys can also be entered via the EWS. Properties / General / Feature Installation.

# **GP 35 Serial Number Synchronization Procedure**

#### Purpose

This procedure is used to maintain serial number and billing data integrity when certain part items must be replaced. This data is stored at three locations; controller PWB, control panel display, and the black (K) toner cartridge. This procedure instructs how the data in all three locations is synchronized when one or more of the part items is replaced, or when data corruption associated when the 322–352-00 Serial Number Missing From Memory fault occurs.

#### **Initial Actions**

If possible, print a Configuration Report. Refer to, GP 14 Printing Reports.

**Note:** Compare the serial number displayed on the control panel display with the serial number on the configuration report and the serial number on the data plate inside the front cover If the serial numbers do not match, contact next level support.

### Procedure



**CAUTION:** Check the machine is in **Customer Mode** before removing the controller PWB, control panel display, or the black toner cartridge. Refer to, GP 33.

**Note:** To maintain the integrity of the serial number and billing data, never install all three part items listed below in the same task.

- Control panel display, PL 2.05 item 2.
- Controller PWB, PL 3.05 item 1.
- Black (K) Toner Cartridge.

Install **ONE ITEM AT A TIME**, as per the following procedure steps.



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CAUTION: Installing all three part items in the same task will cause unrecoverable NVM corruption. After installing one of the new part items, restart the machine, GP 10, then check the machine for the fault cleared. If the fault persists, reinstall the original part item, restart the machine, GP 10, then if required re-enter the serial number, dC132 Machine Serial Number, before attempting installation of the next part item.

### **Controller PWB Replacement Precautions**



**CAUTION:** Spare controller PWBs are shipped in Manufacturing Mode NVM **616–14**, value = **0**.

- 1. When a machine is in Manufacturing Mode, three way sync is inhibited.
  - a. During the install phase, NVM 616-14 is Saved and Restored, as long as, dC361
    is performed restoring from the USB drive backup immediately after installing a
    new controller PWB.
  - b. The install phase should return to Customer Mode, NVM 616-14 = 4.
  - c. the system will sync thereafter.
- 2. In the case that a new controller PWB was installed:
  - a. An immediate machine startup and dC361 must immediately be performed for the NVM change to take affect and cause a sync to occur.
- 3. In the event that a machine is found in such a condition that an NVM Save cannot be performed before any work on the machine is done, then a manual NVM write to **616-14** = **4** will be necessary following the installation of a new controller PWB. Refer to, dC131 NVM Read/Write.
- Check the fault log on the control panel display, PL 2.05 item 2, if available, for any active faults.
   Resolve all faults possible before removing the controller PWB, control panel display, or black toner cartridge, as required in the corresponding RAP.



### **CAUTION:**

- a. When fault code 322–352–00 is active, reinstall the **original** controller PWB, control panel display, black toner cartridge, or any combination of these as required, then restart the machine to allow synchronization.
- b. if the fault persists, continue this procedure as outlined below.
- 2. Enter Diagnostics, GP 1. Enter, dC361 NVM Save and Restore, then touch **Machine NVM** to save all device platform settings to the hard drive.
- 3. While still in dC361, click on each file listed, then select each device platform setting and **Copy** to **USB device** as a second backup.
- 4. Exit Diagnostics, GP 1.
- 5. Shutdown the machine, GP 10.
- 6. Remove the suspect failed part, then install the new part in the machine.



CAUTION: Mark the original part item removed from the machine, if replaced.

- 7. Install the first suspected failed item, switch ON the machine, GP 10, then check the machine for the fault cleared.
- 8. If the installation is successful and no fault remains, compare the serial number displayed on the control panel display with the serial number on the configuration report and the serial number on the data plate inside the front cover.

Note: When any one of the following conditions occurs, escalate the call to next level support:

- The serial number displayed on the control panel display does not match the data plate inside the front cover of the machine.
- The serial number displayed on the control panel display does not match the configuration report printed in, Initial Actions.
- Fault code 322–365–00 is raised.
- 9. If the fault persists, or, the fault code 322–365–00 is raised, reinstall the original part item, restart the machine, GP 10, then if required, re-enter the serial number, dC132 Machine Serial Number, before attempting installation of the next part item.

Fault code 322–365–00 may flag when the device platform settings restore is unsuccessful or the

Note: When any one of the following conditions occurs, escalate the call to next level support:

- The serial number displayed on the control panel display does not match the data plate inside the front cover of the machine.
- The serial number displayed on the control panel display does not match the configuration report printed in, Initial Actions.
- Fault code 322–365–00 is raised.

After contacting next level support, perform, dC132 Machine Serial Number.

# **GP 36 Xerox Wireless Printing Troubleshooting**

Use this troubleshooting guide when the customer reports wireless network failures when using the Xerox wireless print kit.

### **Initial Actions**

Consult your manager before troubleshooting the customer's network, as the policy varies according to region.

Perform the following:

- 1. Check that the wireless network adapter is properly installed in the machine.
- 2. Print a configuration report.
  - a. Check with the customer that printing of configuration reports is enabled. If necessary, ask
    the customer to enable printing of the configuration report.
- 3. Ensure that the machine is configured for wireless printing.
  - a. Check the configuration report under the heading Connectivity Physical Connections.
  - b. If wireless is disabled, ask the customer to enable wireless printing. Or enter Customer Administration Tools:
    - 1. Touch Network Settings.
    - 2. Touch Network Connectivity.
    - 3. Touch Wireless.
    - 4. Touch OK.
  - c. Check the network name listed next to SSID on the configuration report.
  - d. If the network name does not match the customer's wireless network, ask the customer to configure the wireless network setup before continuing.
  - e. Check the network name under the heading Connectivity Protocols.
  - f. If an IP address is not listed under TCP/IPv4 or TCP/IPv6, ask the customer to configure the wireless network setup before continuing.
- 4. Confirm that the customer's wireless network can be detected at the machine's location.
  - a. Ask the customer to confirm that the wireless network is switched on and can be received at the machine's location. Use the PWS/laptop or a smartphone to detect the customer's wireless network.

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- 5. If the wireless network signal strength is weak, try repositioning the device away from walls/obstructions or temporarily removing/opening covers near the wireless adapter. To view the signal strength, enter System Administration Tools and perform the following:
  - a. Touch Network Settings.
  - b. Touch Network Connectivity.
  - c. Touch Wireless.
  - d. The signal strength is displayed in the text frame.
- 6. Install a new wireless network adapter.

# **GP 37 Supplies Plan Conversion**

# **Purpose**

The procedure explains how to convert the Supplies Plan (formerly known as PagePack) from Sold to Metered or Metered to Sold.

### Introduction

Unless special ordered, machines are shipped with Factory-Neutral toner cartridges. The machine supplies plan is set by the toner cartridges. When toner cartridges are first replaced, the Geographic Differentiation Code and Toner Cartridge Type in NVM are automatically changed to the same settings as the replacement cartridge. Once these NVM are set, the toner configuration can only be changed with a Supplies Plan Conversion PIN

Table 1 Supplies Plan Variables and Regional Differentiations

Device Configu- ration (all pos- sible) Xerox NVM				Xerox Toner			
Plan Varia- bles: Neutral Sold Metered Supplies Plan (former- ly known as Page- Pack)* Region- al Dif- ferentia- tion: NA XE NAXE DMO Factory	SWE (Starter toner) Sold_ WW	Me- tered_ WW	Sold_NA	Sold_XE	Sold_ DMO	Sold_ NAXE	Sold_ WW
Me- tered_ WW Me- tered_ NA Me- tered_ XE	Y	Y	Y	Y	Y	Y	Y

Device Configu- ration (all pos- sible) Xerox NVM				Xerox Toner			
Me- tered_ NA/XE Me- tered_ DMO							
Sold_NA	Υ	N	Υ	N	N	Υ	Υ
Sold_XE	Υ	N	N	Υ	N	Υ	Υ
Sold_ DMO	Υ	N	N	N	Υ	N	Υ
Sold_ WW	Υ	N	Υ	Υ	Υ	Υ	Υ
Sold_ NA/XE	Υ	N	Υ	Υ	N	Υ	Υ

\*Supplies Plan (formerly known as PagePack) and Metered configurations have the same behavior

Check the current Supply Plan:

### At the Machine UI:

- 1. Print Configuration Report GP 14.
- 2. The supplies plan is shown on the configuration report under the **General Setup** heading.

#### At the Web UI:

- 1. Enter the machine IP address.
- 2. On the **Home** screen scroll to the bottom and select **Configuration Report**.
- 3. The screen displays the configuration report in alphabetical order. Select **General Setup**.
- 4. The **Supplies Plan** is shown in the list. Typical **as shipped** supplies plan is **Neutral**.

# **Obtain the Supplies Plan Conversion PIN**

1. Press the **Device** icon on the UI and select **About**.

- 2. Record the Serial Number.
- 3. Select X
- 4. Select **Billing/Usage** and record the number of Total Impressions
- Contact the relevant OPCO, provide the machine Serial Number and the number of Total Impressions.
  - US: Call Xerox Corporate Licensing Systems (XDSS) directly on 1-800-890-3260 or 1-800-635-8054 prompt 8 (license strings) for toner conversions. Provide the machine serial number and the number of total impressions.
  - Xerox Business Solution (XBS): All requests for such conversions must be approved by the
    XBS Headquarter VP of Service. Technicians should request that their field service manager
    contact their XBS Company VP of Service for directions. The XBS Core Company VP of Service will require authorization to convert the machine from sold to metered and provide a status of your request. Do not call field engineering to obtain a Service Plan Conversion PIN.
  - US Authorized Service Provider (ASP): Call PageConnect at 1-888-892-6483 or send an
    email to pageconnectprogram@xerox.com requesting a PIN. Provide the machine serial
    number and the total number of impressions.
  - Canada: Call the Customer Delivery Organization (CDO) field support number 1-800-647-1331 prompt 8 (license strings) for a Supplies Plan Conversion PIN. Provide the machine serial number and the total number of impressions.
  - LATAM (Latin America): Follow Local Process.
- 6. You will be given a 6-character Supplies Plan Conversion PIN.

**Note:** The Supplies Plan Conversion PIN must be entered within 500 Total Impressions counts of when it was issued, or it will not be valid.

#### Supplies Plan Conversion via Machine UI

- 1. Log in to **Admin** mode.
- 2. At the Home screen touch Device > Tools > Device Settings > Supplies.
- 3. Touch Enter Plan Conversion.

Note: The current Service Plan and Supplies Plan Number are listed.

- 4. Touch + Convert Supplies Plan.
- 5. Enter the 6-character **Convert Supplies Plan** PIN provided.
- 6. Select OK.

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The Geographic Differentiation Code and Toner Cartridge Type will be reset to the values of the customer's agreed-to supplies plan.

#### Supplies Plan Conversion via Remote Control Panel

- 1. Open a web browser then enter the machine IP in the address bar.
- 2. At the EWS Home screen, click on Support > Remote Control Panel > Start Remote Session.
- 3. Log in to **Admin** mode.
- 4. At the Home screen touch Device > Tools > Device Settings > Supplies.
- 5. Touch Enter Plan Conversion.

Note: The current Service Plan and Supplies Plan Number are listed.

- 6. Touch + Convert Supplies Plan.
- 7. Enter the 6-character Convert Supplies Plan PIN provided.
- 8. Select OK.

The Geographic Differentiation Code and Toner Cartridge Type will be reset to the values of the customer's agreed-to supplies plan.

# GP 40 Glossary of Terms, Acronyms and Abbreviations

Where possible unit designations as appear in ISO 1000 (International Organization for Standardization) and Xerox Standard MN2-905 have been used. All measurements appear in ISO units followed by any conversionin brackets e.g.; 22.5mm (0.885 inches)

Refer to Table 1.

**Table 1 Abbreviations** 

Term	Description
1TM	One Tray Module
3ТМ	Three Tray Module
AAA	Authentication, Authorisation and Accounting
ABS	Automatic Background Suppression.
AC	Alternating Current
ACAST	Anti Counterfeiting Activities Support/Strategy Team
ACL	Alternating Current Live
ACN	Alternating Current Neutral
AGC	Automatic Gain Control
АНА	Advanced Hardware Architecture
AMPV	Average Monthly Print Volume
ANSAM	Answer Tone, Amplitude Modulated
APS	Auto Paper Selection
ARP	Address Resolution Protocol. Converts an IP address to a MAC address. See RARP.
ASIC	Application Specific Integrated Circuit
В	Bels (applies to sound power level units)
Binding	Part of the communication between modules.
ВМ	Booklet Maker
BootP	Boot Protocol. AN IP protocol for automatically assigning IP addresses.
BPS	Bits Per Second
BS	Behavior Specification

Term	Description
ВТ	Busy Tone
BCR	Bias Charge Roll
BTR	Bias Transfer Roll
С	Celsius
CAT	Customer Admin Tool
СВС	Customer Business Center
CCD	Charged Coupled Device
ССМ	Copy Controller Module
CCS	Copy Controller Service
CentreWare	CentreWare internet services is the embedded HTTP server application that is available on network enabled machines. It enables access to printing, faxing and scanning over the internet.
CIPS	Common Image Path Software
CIS	Contact Image Sensor
CL	Copy Lighter. A copy density setting
CQ	Copy Quality
CRC	Cyclic Redundancy Check
CRU	Customer Replaceable Unit
CRUM	Customer Replaceable Unit Monitor
CSE	Customer Service Engineer
CVT	Constant Velocity Transport
CWIS	CentreWare Internet Services (also known as Web UI)
DADF	Dual Auto Document Feeder
dB	Decibel (applies to sound pressure level units)
dC	Diagnostic code
DC	Device Controller, generic term for any module that acts as a image handling device e.g., SIP. Digital Copier
DC	Direct Current
DCN	Disconnect

Term	Description
DCS	Digital Command Signal
DDNS	Dynamic Domain Name System
DH	Document Handler
DHCP	Dynamic Host Config Protocol (similar to BootP)
DIMM	Dual In-line Memory Module
DIP	Dual In-line Package (switch)
DIS	Digital Identification Signal
DLM	Dynamically Loadable Module
DM	Document Manager
DMA	Direct Memory Access
DMO	Developing Markets Operations
DMO-E	Developing Markets Operations East
DMO-W	Developing Markets Operations West
DPI	Dots per inch
DRAM	Dynamic Random Access Memory
DST	Daylight Saving Time
DT	Dial Tone
DTMF	Dual Tone Multiple Frequency
DTS	Detack Saw
Dust Off	Routine to return machine to pre-install state
DVMA	Direct Virtual Memory Access
EH&S	Environmental Health and Safety
EJS	Easy Java Simulation
ELT	Extract, Load, Transform
Embedded Fax	A fax system included in a system device
EMC	Electromagnetic Compatibility
EME	Electromagnetic Emission

Term	Description
ENS	Event Notification Service. Used by a software module to alert another module of an event.
ЕОМ	End Of Message
EOP	End Of Procedure
EOR	End Of Retransmission
EPA	Environmental Protection Agency
EPC	Electronic Page Collation (memory dedicated to temporary retention of images captured from the scanner and network controller)
EPROM	Erasable / Programmable Read Only Memory
ERR	End Retransmission Response
ERU	Engineer Replaceable Unit
ESD	Electrostatic Discharge
ESS	Electronic Sub-System (equivalent to NC)
EU	European Union
EUR	Europe
FAR	Fully Active Retard feeder
Fax	Facsimile
FCOT	First Copy Out Time
FDI	Foreign Device Interface
FIFO	First In First Out
Firmware	Software in a ROM
FLASH	On board erasable and re-programmable non volatile memory
FOIP	Fax Over Internet Protocol
FPGA	Field Programmable Gate Array
FPOT	First Print Out Time
FRU	Field Replaceable Unit
FRU	Fuser Replacement Unit
FTP	File Transfer Protocol

Term	Description
FX	Fuji Xerox
G3	Group 3
GMT	Greenwich Mean Time
GND	Ground
GSM	Grams per square metre
GUI	Graphical User Interface
HCF	High Capacity Feeder
HDD	Hard Disk Drive
HFSI	High Frequency Service Intervals
НТТР	Hyper Text Transfer Protocol
HVPS	High Voltage Power Supply
Hz	Hertz
I/O	Input/Output
I2C-bus	Inter Integrated Circuit bus. This provides a simple bidirectional 2-wire bus for efficient inter-IC control. All I2C-bus compatible devices incorporate an interface which allows them to communicate directly with each other via the I2C-bus.
ID	Identification
IDG	Inter document gap
IFax	Internet Fax
IIT	Image Input Terminal
Intlk	Interlock
ioctl	input/output control
IOT	Image Output Terminal
IP	Internet Protocol
IPA	Image Processing Accelerator. Used by the machine scanning services to convert scanned images to a standard format e.g. for scan to file / scan to E-mail for network transmission.
IPS	Image Processing Service
IPSec	Internet Protocol Security

Term	Description
IPX	Internetwork Protocol eXchange
IQ	Image Quality
IQS	Image Quality Specification
IR	Intelligent Ready
ISDN	Integrated Services Digital Network / International Standard Data Network
ISO	International Standards Organization
ITP	Internal Test Pattern
JBA	Job Based Accounting (Network Accounting)
JIS	Japanese Industrial Standards
kg	kilogram
kHz	kilohertz
Kill All	Routine to return all NVM, including protected NVM, to a virgin state. Factory use only
ко	Key Operator
LAN	Local Area Network
LCD	Liquid Crystal Display
LCSS	Low Capacity Stapler Stacker
LDAP	Lightweight Directory Access Protocol (allows sharing of corporate phone book information)
LE	Lead edge
LED	Light Emitting Diode
LEF	Long Edge Feed
LOA	Load Object Attributes
LPD	Line Printer Daemon
LPH	LED Print Head. An LED array in close proximity to and the same width as the photoreceptor. Individual LEDs are switched on/off to develop the image on the xerographic drum.
lpi	Lines per inch
LVF BM	Low Volume Finisher Booklet maker

Term	Description
LVDS	Low Voltage Differential Signal
LVPS	Low Voltage Power Supply
LUI	Local user Interface
m	metre
MAC Address	Media Access Code. This is the basic, unique identifier of a networked device. An incoming message is analysed and an address in another form, such as an IP address, is resolved by a lookup table to a MAC address. The message is then directed to, and accepted by the equipment thus identified. It is the burnt-in, hardware address of a NIC.
Mark Service	Mark Service is the software module that tells the hardware to put toner on paper.
МВ	Megabyte (one MB = 1,048,576 bytes = 1024 kilobytes). Mail Box
Mb	Megα bit (one million bits)
MCF	Message Confirmation
MF	Multifunction
mm	millimeter
Modem	MOdulator/DEModulator. Hardware unit that converts the 'one' and 'zero' binary values from the computer to 2 frequencies for transmission over the public telephone network (modulation). It also converts the 2 frequencies received from the telephone network to the binary values for the computer (demodulation).
Moire	Image quality defect caused by interference between patterned originals and the digital imaging process. Moire patterns are repetitive and visible as bands, plaids or other texture.
MSG	Management Steering Group
ms	millisecond
N	Newton
NA	North America
NC	Network Controller (equivalent to ESS)
NC	Normal Contrast. Copy contrast setting
NCR	No Copying Required
NetBIOS	Network Basic Input / Output System. Software developed by IBM that provides the interface between the PC operating system, the I/O bus, and the network. Since its design, NetBIOS has become a de facto standard.

Term	Description
Nm	Newton metre
NOHAD	Noise, Ozone, Heat, Airflow and Dust
NTP	Network Time Protocol
NVM	Non-Volatile Memory
OA	Open Architecture
ОСТ	Offsetting Catch Tray
ODIO	On Demand Image Overwrite
ОЕМ	Original Equipment Manufacturer
ОРС	Organic Photo Conductor
ОрСо	Operating Company
os	Operating System
P/R	Photoreceptor
PABX	Private Automatic Branch Exchange
PC	Personal Computer
PC Fax	Personal Computer Fax
PCI	Peripheral Component Interface
PCL	Printer Control Language
PDF	Adobe Acrobat Portable Document Format
PFM	Paper Feed Module
PIN	Procedural Interrupt Negative
PIN	Personal Identification Number
ping	Packet InterNet Groper. Tool to test connections between nodes by sending and returning test data.
PME	Power Management Event
РОРО	Power Off Power On
POO or P of O	Principles of Operation
POST	Power On Self Test

Term	Description
POTS	Plain Old Telephone System
PPM	Prints per minute / Parts Per Million
PR	Photo-Receptor
Process Death	A process has stopped working.
PS	Post Script
PS	Power Supply
PSTN	Private Switched Telephone Network
PSW	Portable Service Workstation
Pthread	Process Thread. A very low level operating system concept for code execution.
PWB	Printed Wiring Board
PWBA	Printed Wiring Board Assembly
PWM	Pulse-Width Modulation
PWS	Portable Work Station
RAM	Random Access Memory
RARP	Reverse Address Resolution. Reverse of ARP. Converts a MAC address to an IP address. The document centre resolves its address using RARP. See also MAC, NIC and ARP.
RDT	Remote Data Transfer
Reg	Registration
Registration Service	Monitors when RPC services go on and offline.
RF	Radio Frequency
RFID	Radio Frequency Identification
RPC	Remote Procedure Call. How the device communicates internally between software modules.
RH	Relative humidity
RMS	Root Mean Square (AC effective voltage)
RNR	Receive Not Ready
RoHS	Restriction of Hazardous Substances

Term	Description
ROM	Read Only Memory
RR	Receive Ready
RS-232, RS-423, RS-422, RS-485	Series of standards for serial communication of data by wire. RS-232 operates at 20kbits/s, RS-423 operates at 100kbits/s, RS-422 and RS-485 operate at 10Mbits/s. See FireWire and USB.
RTC	Real Time Clock
Rx	Receive
S2F	Scan-to-File
SA	Systems Administration
SAKO	Systems Administration Key Operator
SAR	Semi-Active Retard feeder
SBC	Single board controller. Copy, print and UI controllers all on one PWB within the image processing module.
SCD	Software Compatibility Database
SD	Secure Digital, memory card format
Server Fax	A fax system that uses a remote Fax server. Faxes transmit as a Scan to File job sent to the server. Fax receive as print jobs submitted to the Connection Device.
SEF	Short Edge Feed
Semaphore	A variable or abstract data type.
SESS	Strategic Electronic Sub-System
SH	Staple Head
SIM	Subscriber Identity Module (also known as a SOK-Software Option Key)
SIM	Scanner Input Module
SIP	Scanning and Image Processing
SIR	Standard Image Reference
SLP	Service Location Protocol (finds servers)
SM	Scheduled Maintenance
SMART	Systematic Material Acquisition Release Technique
SMB	Server Message Block. Microsoft Server / Client Communications protocol

Term	Description
SMP	Service Maintenance Pack (contains a software package)
SNMP	Simple Network Management Protocol
Snr	Sensor
SOK	Software Option Key (also known as a SOIM-Subscriber Identity Module)
SPAR	Software Problem Action Request
spi	Spots per inch
SPI	Service Provider Interface. Steps to process a job.
SR	Service Representative
SRS	Service Registry Service
SS or S/S	Sub System
SSDP	Simple Service Discovery Protocol
SSID	Service Set Identifier (wireless network name)
STM	Single Tray Module
SU	Staple Unit
SW	Switch
SW or S/W	Software
sync	synchronize
TAR	Take Away Roll
TAR or tar	An archive file format, derived from Tape ARchive
ТВС	To Be Confirmed
TBD	To Be Defined
TC	Toner Concentration
TCF	Training Check Field
TC0	Thermal Cutout
TCP/IP	Transmission Control Protocol/Internet Protocol
TE	Trail Edge
Template	A collection of Scan to File attributes that can be conveniently re-used.

Term	Description	
TIFF	Tagged Image File Format	
TP	Test Point	
TRC	Toner Reproduction Curve	
ТТМ	Tandem Tray Module	
TTY	Teletype Terminal	
Tx	Transmit	
UART	Universal Asynchronous Receiver Transmitter	
U-boot	Universal Boot Loader	
UI	User Interface (display screen)	
UK	United Kingdom	
UM	Unscheduled Maintenance	
USB	Universal Serial Bus.  High speed successor to parallel port for local device communications. Operates at 12Mbits/s. See FireWire and RS-232.	
USCO	United States Customer Operations	
USSG	United States Solutions Group	
V.17 / V.29 / V.34	Modem standards	
VOIP	Voice Over Internet Protocol	
WC	WorkCentre	
WEB UI	CentreWare Internet Services	
XCL	Xerox Canada Limited	
XE	Xerox Europe	
XEIP	Xerox Extensible Interface Platform	
XLA	Xerox Latin America	
XML	eXtensible Markup Language	
XPS	XML Paper Specification (printing format)	
XRU	Xerographic Replacement Unit	
XSA	Xerox Standard Accounting	

# Service Copy (Tools) Mode

# **Service Copy Mode**

Service copy mode provides access to the machine that is greater than that of a user, but less than that of the System Administrator. This mode allows the CSE to perform a number of checks and run copies without compromising the customer's security settings. This mode can be used if the Administrator user name and passcode are not at the default, and the Administrator is not available to enter the admin passcode. Perform the steps that follow:

- Press and hold the Home button for 7 seconds. The passcode screen will display when the button is released.
- 2. Enter the passcode 2732. press the **OK** button on the UI.

Note: Five incorrect entries cause the entry screen to lock for 3 minutes.

3. The Log In button will change to display CSE.

**Note:** The tools available in this mode are a subset of those available in Administrator mode. CSE service copy mode remains active until the **login/CSE** button is pressed again. When finished with always log out of service copy mode by pressing the **CSE** button and confirming log out.

# dC104 Usage Counters

## **Purpose**

Displays a history of system usage.

### Procedure

- 1. Enter GP 1.
- 2. Select Service Information.
- 3. Select dc104 Usage Counters.
- 4. Touch the **Diagnostic Counters** button to filter the results:
  - Diagnostic Counters lists sheet counters for service operations and tray totals.
  - Impression Counters lists all impressions, categorized by B/W, Color, Large, Small, Print, Copy.
  - Sheet Counters Color and B/W for copied and printed sheets.
  - Images Sent Counters Server Fax, Internet Fax, E-mail images, and Network Scan.
  - **Fax Impressions Counters** If Fax is enabled, lists the number of received Faxes that were printed.
  - All Usage Counters all the above.

Press the **Update** button for the most current count.

# dC108 Software Version

## **Purpose**

Displays the installed software versions for the various modules installed in the system.

### **Procedure**

- 1. Enter GP 1.
- 2. Select Service Information.
- 3. Select **dc108 Software Version**. Depending on installed options, software version information appears for these modules:
  - Software Upgrade
  - · Copy Controller
  - Copy Controller OS
  - UI Panel Firmware
  - Fax
  - Imaging Output Terminal
  - Network Controller
  - Image Input Terminal
  - · Document Feeder
  - User Interface
  - XUI Language Version
  - Finisher

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# dC122 Fault History

## Purpose

Displays the Last 40 faults.

### Note:

- 1. Faults detected while in Service Mode are not counted.
- 2. An Interlock open while the machine is stopped is not counted.
- 3. If multiple faults occurred in the machine, the primary fault is recorded.

#### Procedure

- 1. Enter GP 1.
- 2. Select Service Information.
- 3. Select dc122 Fault History.

**Note:** In dC122 Fault History, you can print in the right upper corner depending on software release 105.xxx.009.34422.

- 4. A five-column table will appear, listing the Fault Name, Code, Date/Time, Total Impression, and Size of the last 40 machine faults.
- 5. To clear the fault history, select **Reset Counters** on the **Call Closeout** screen.

# dC126 Paper Registration

## **Purpose**

This procedure is used to align the Lead Edge and Side Edge of the developed image with media fed from the various paper trays.

For instructions, refer to ADJ 60.2.

# dC131 NVM Read/Write

Note: NVM values are listed in the procedures where they are called out.

To access the complete VCL415 and VLB415 NVM Tables.

### Procedure

- 1. Enter Diagnostics, GP 1.
- 2. Select Adjustments.
- 3. Select dc131 NVM Read/Write.
- 4. Enter the NVM Chain and Link in the **Chain** and **Link** windows.

**Note:** It is not necessary to re-enter NVM locations that have already been entered. You can select previously entered locations by touching the row in the table where that location is listed. If more than four NVM locations are entered, a scroll bar will appear on the right side of the table.

5. Select the **Read** button.

**Note:** When an NVM is displayed in the table, it will remain displayed until **Clear** is selected. The **Clear** button only clears the table display, not an NVM value.

6. Touch the **Value of:** window and use the keypad to enter the new NVM Value. Use the **+/-** button to enter negative numbers.

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7. Select Write to load the new value.

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## dC132 Machine Serial Number

### Purpose

This procedure synchronizes the serial number information on the components where it is stored.

Serial number information is stored at these locations:

- Controller PWB. PL 3.05.
- Drive PWB, PL 1.05.



**CAUTION:** When installing a new Controller PWB and Drive PWB in the same call, each must be installed independently, then the machine restarted to see if the fault persists. The new component's serial number data will synchronize automatically with the data on the other components. In such instances, dC132 need not be performed. When both PWBs are installed at the same time, then the machine restarted, serial number missmatch and machine inoperability will occur, and dC132 must be performed.

#### **Initial Action**

Check dC122 for Communications faults (Chain 303 and 316). These faults can prevent serial number synchronization. Resolve these faults before continuing. Please obtain a serial number re-synchronization request form from GSN Library 15053.

#### **Procedure**

### Part 1 - Notify service support.

Note: It may take up to 24 – 72 hours to receive a password from A-CAST.

- 1. Enter GP 1.
- 2. Select Maintenance.
- 3. Select dc132 Machine Serial Number.
- 4. Select Generate New Identifier Code. Record the Unique Machine Identifier.



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**CAUTION:** After the Unique Machine Identifier is generated, **DO NOT** touch the **Generate New Identifier Code** button a second time, as this will invalidate the Password that will be provided.

5. Contact service support for instructions on how to complete the form.

**Note:** Follow all instructions included in the form. You must complete the form, print it, obtain required signatures and data, then scan it. There is a cost for this service.

Have the National Technical Specialist (NTS, RSE or FE) forward a copy of service log and proof
of the location of the machine to A-CAST. This information must indicate machine location, customer name and address.

The proof must be a screen capture of the NTS/FE/RSE customer support database (account management database), FWSS, ICSS, DFM BT, VQMS, VALE, STPR, eSAP, etc. The information on the proof must match the information on the form.

### Part 2 - Re-serialize machine

- 1. Enter Diagnostics, GP 1.
- 2. Select Maintenance.
- 3. Select dc132 Machine Serial Number.
- 4. Select Enter Passcode.
- 5. Enter the Passcode received from A-CAST in the box named **Enter Passcode**.
- 6. Select OK.
- Please verify UI screen indicated Serial Number Verification Complete, Your machine serial number has been verified.
- 8. Exit Diagnostic mode and select Reboot.
- 9. Print a configuration report and verify that the serial number is corrected. The serial numbers are now synchronized.

# dC135 HFSI Counters

### Purpose

This routine displays the percentage of service life remaining for periodic replacement parts.

### Procedure

- 1. Enter Diagnostics, GP 1.
- 2. Select Maintenance.
- 3. Select dc135 CRU/HFSI.
- 4. The CRU/HFSI screen lists the serviceable items and displays Estimated Pages Remaining.
- 5. Refer to SCP 4 Subsystem Maintenance. Perform the listed Service Action for all HFSI counters that are at or near end of life.
- To reset the count after replacing the parts, select the appropriate HFSI item, then select Reset Counter.

### dC301 NVM Initialization

## **Purpose**

This procedure may be needed when the machine cannot recover for some unknown reason, including problems such as producing blank copies/prints, continuously declaring system faults, etc.



**CAUTION:** Before Initializing NVM on any subsystem, perform dC361 NVM Save and Restore. Performing NVM Initialization on any subsystem may cause damage or degradation of machine performance.

### **Initial Actions**

- Disconnect any Foreign Interface devices.
- Obtain all of the following information:
  - Save Machine Settings, if possible.
  - NVM value factory setting report (typically it is located in the Tray 1 pocket).
  - Any customer setting Auditron account from the system administrator.
  - Any setting changes (specifically NVM settings) shown on the machine's service log.
  - Any customer settings in the Tools mode.
- If possible, perform dC361 NVM Save and Restore.

#### Procedure

- 1. Enter Diagnostics, GP 1.
- 2. Select Adjustments.
- 3. Select dC301 NVM Initialization.
- 4. Select the desired **Controller** and **NVM Data** using the features on the UI screen.
- 5. Select Initialize to run the routine. Select the [X] button to exit the routine without running it.
- 6. When prompted by the message Are you sure you want to initialize NVM?, select Initialize.

**Note:** If the screen displays the message **The device is in a non-customer mode** after completing this step, perform dC361 to restore the machine to customer mode.

7. After the initialization is complete, the machine will restart into the Startup Wizard.

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## dC312 Network Echo Tests

### Purpose

Tests the machine's ability to communicate on the network.

### Procedure

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- 1. Enter Diagnostics, GP 1.
- 2. Select Diagnostics.
- Select dC312 Network Echo Test.
- 4. Select the **Protocol** to be tested.

Note: Protocals not available will be greyed out.

5. Select the **Start Network Echo Test** button. The test will run. A message will be displayed on the UI indicating whether the test was successful.

# dC330 Component Control

## **Purpose**

To show the status of input components e.g. sensors, and to run or energize output components e.g. motors, solenoids.

### Description

Output and input component codes are entered into the Component Control Table on the UI, and then checked individually or in permitted groups. The codes in the tables are grouped in function chain order. Refer to GP 2 Fault Codes and History Files.

Go to the appropriate procedure:

- Input Components
- Output Components

#### **Input Components**

Component control codes are not used with the VLB415 dC330 procedures. Direct access to components are listed in the dC330 procedures of the Control Panel interface.

The displayed status of the input component can be changed by causing the component status to change, e.g. operating a sensor with a sheet of paper.

#### **Output Components**

Component control codes are not used with the VLB415 dC330 procedures. Direct access to components are listed in the dC330 procedures of the Control Panel interface.

#### **Procedure**

- 1. Enter Diagnostics, GP 1.
- 2. Touch Diagnostics.
- 3. Touch:
  - a. dC330 Component Control (Fax Engine).
  - b. dC330 Component Control (Print Engine).
  - c. dC330 Component Control (Scan Engine).
- 1. Touch the dC330 component control list desired.
- 2. Scroll the list for the component to be checked.
- 3. Touch the component name.
- 4. Touch Start.

### Note:

- Some motors require automatic deactivation in order to avoid secondary issues such as possible damage and contamination.
- Some tests require a special action to activate a motor such as removing a major component.
- If the motor fails, the test failure may not indicate a failed motor. Further troubleshooting may be required. Check PWBs and cables for possible issues.
- The component status.
- The component change state.
- Operation counter.
- 5. Toggle Cyclic Motion to repeat the operation.
- 6. Touch Stop All to stop component operation.
- 7. Touch Close to return to the Diagnostics screen.
- 8. Exit diagnostics, GP 1.

# **Fax Engine Tests**

## Table 1 Fax Engine Tests

Test	Sub Menu	Sub Menu	Action	General
Agency Test				
	Go Off-Hook		Start	
	Ring Detect		Touch Start	
	Generate Tones	Generate GNC Tone 1100 Hz	Touch To Open Tones Menu	
		Generate ANS Tone 2100 Hz		
		Generate ANSam Tone		
		Generate DTMF Tone 0–9, *, #		
	Generate Modulations	V.21 300 bps	Touch To Open Modulations Menu	

Test	Sub Menu	Sub Menu	Action	General
		V.22 1200 bps ORG		
		V.22 1200 bps ANS		
		V.27ter 2400 bps		
		V.27ter 4800 bps		
		V.29 7200 bps		
		V.29 9600 bps		
		V.17 7200 bps		
		V.17 9600 bps		
		V.17 12000 bps		
		V.17 14400 bps		
		V.22 1200 bps org		
		V.22 1200 bps ans		
		V.34 2400 bps		
		V.34 4800 bps		
		V.34 7200 bps		
		V.34 9600 bps		
		V.34 12000 bps		
		V.34 14400 bps		
		V.34 16800 bps		
		V.34 19200 bps		
		V.34 21600 bps		
		V.34 24000 bps		
		V.34 26400 bps		
		V.34 28800 bps		

Test	Sub Menu	Sub Menu	Action	General
		V.34 31200 bps		
		V.34 33600 bps		
Fax Settings				
	General User Settings		Touch to Open	
		Behind PABX	Enable/Disable	
		Single Ring	Enable/Disable	
		Double Ring	Enable/Disable	
		Triple Ring	Enable/Disable	
		Enable Line Connection Detection	Enable/Disable	
		Enable Line In Wrong Jack Detection	Enable/Disable	
		Enable Extension Support	Enable/Disable	
	Homologation General Settings		Touch to Open	
		Detect EOLs	Increase/Decrease: Range 0 – 6	
		Dial Wait Time	Increase/Decrease: Range -255 – 255	
		Pause Timeout	Increase/Decrease: Range 0 – 255	
		Pulse Dial Type	Normal/One Pulse/ Ten Mins	
		Caller ID Pattern	None/DTAS_FSK/ RPAS_FSK/LR_FSK/	

Test	Sub Menu	Sub Menu	Action	General
			NTT/FSK/LR_DTFM/ DTFM	
		Fax Low Power	Auto/DisableSleep/ PermitSleep	
		JBIG	Enable/Disable	
		JBIG2	Enable/Disable	
		MMR	Enable/Disable	
		MR	Enable/Disable	
		Fax Image Confirmation	Enable/Disable	
		Partial Page Heartbeat	Enable/Disable	
		Partial Page Heart- beat Interval		
		Fax Image Width		
		Fax Receive Resolutions		
		Disable Sending CRP		
		Send Max Speed		
		Send - Allow V.34		
		Send - Allow V.17		
		Send - Allow V.29		
		Send - Allow V.27		
		Receive Max Speed		
		Receive - Allow V.34		
		Receive - Allow V.17		
		Receive - Allow V.29		

Test	Sub Menu	Sub Menu	Action	General
		Receive - Allow V.27		
	Homologation Con- exant Settings	Dial Tone Timeout	Touch to Open	
		Max Busy Check		
		Positive Twist Control		
		Negative Twist Control		
		ARA EQM Bias		
		Pulse Interdigit Delay		
		Enable CEQ		
		Disable V.17 TX Filter		
		Digital Line Guard		
		Digital Line Threshold		
		Off Hook Line Settle TIme		
		Volume Level Low		
		Volume Level Medium		
		Volume Level High		
		Dial Timeout		
		Transmit Level		
		Receive Threshold		
		DTMF Low Power Level		
		DTMF Hight Power Level		

Test	Sub Menu	Sub Menu	Action	General
		Progress Threshold		
		Dial Tone Threshold		
		Adjust Power FSK		
		DC Characteristics		
		Impedance		
		High Ring Impedance		
		Pulse Make Time		
		Pulse Break Time		
		Pulse Fall Time		
		Busy Tone - Cycles		
		Busy Tone - Min On Time		
		Busy Tone - Max On Time		
		Busy Tone - Min Off Time		
		Busy Tone - Max Off Time		
		Congest Tone - Cycles		
		Congest Tone - Min On Time		
		Congest Tone - Max On Time		
		Congest Tone - Min Off Time		
		Congest Tone - Max Off Time		
Reset Fax Settings	Reset Fax User Settings			

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Test	Sub Menu	Sub Menu	Action	General
	Reset Fax Modem Settings			
	Reset All Fax Settings			
	Reset to Compatibility Mode			
Fax Logs	Clear All T.30 Logs			
	Clear All T.30 Error Logs			
	Clear Fax Call Log			
	Clear Caller ID Log			

## **Print Engine Tests**

## **Table 2 Print Engine Tests**

Test	Sub Menu	Action	Sub Menu	General
Sen- sor Tests				
	MPF Media Present			
	Pick Roller Index (tray 1)			
	Tray 1 Media Out			
	Tray 1 pick			
	Tray 1 Pass- through			
	Input			
	Narrow media			

Test	Sub Menu	Action	Sub Menu	General
	Fuser exit			
	Duplex path			
	Duplex interlock			
	Output bin full			
	Front door interlock			
	Rear door interlock			
	Media size (tray 1) switch 1			
	Media size (tray 1) switch 2			
	Media size (tray 1) switch 3			
	Media size (tray 1) switch 4			
Ad- di- tio- nal Tray- s Sen- sor Tests				
	Tray 2 pick roller index			
	Tray 2 media out			

Test	Sub Menu	Action	Sub Menu	General
	Tray 2 pass- through			
	Tray 2 media size switch 1			
	Tray 2 media size switch 2			
	Tray 2 media size switch 3			
	Tray 2 media size switch 4			
Mo- tor Tests				
	MPF pick			
	Pick (tray 1) picking			
	Pick (tray 1) lifting			
	Fuser (fusing)			
	Fuser (retracing)			
	Redrive (forward)			
	Redrive (reverse)			
	Imaging unit			
	K toner add			
	Fan (main)			

Test	Sub Menu	Action	Sub Menu	General
	Fan (cartridge)			
Ad-				
di- tio-				
nal				
Tray-				
s				
Мо-				
tor				
Tests				
	Pick (tray 2) picking			
	Pick (tray 2) lifting			
	Pass-through (tray 2)			

## **Scanner Diagnostics**

## Table 3 Scanner diagnostics

Test	Sub Menu	Sub Menu	Action	General
Sen-				
sor			Start	
Tests				
Мо-				
tor				
	Flatbed scanner		Start	
	ADF Transport			

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Test	Sub Menu	Sub Menu	Action	General
		Run DADF trans- port forward	Start	
		Run DADF trans- port backward	Start	
		DADF stop transport	Start	
	DADF Pick		Start	
	DADF Tray Lift			
		Raise DADF Tray	Start	
		Lower DADF Tray	Start	
	DADF Deskew			
		DADF Deskew On	Start	
		DADF Deskew Off	Start	
	DADF Calibration		Start	
Feed				
	Select paper size			
	Feed test			

Test	Sub Menu	Sub Menu	Action	General
DA-				
DF				
Roll-				
ing				
Cle-			Start	
an-				
ing				
Cy-				
cle				

# Fax Diagnostics

## Table 4 Fax Diagnostics

Test	Sub Menu	Sub Menu	Action	General
Agency Test				
	Go Off Hook		Start	
	Ring Detect		Start	
	Generate Tones			
	Modulations			
FAX Settings				

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Test	Sub Menu	Sub Menu	Action	General
	Fax Modulations			
	Miscellaneous Settings			
	Reset Fax Settings			
Modem Settings				
	Caller ID Pattern			
	Note: Chang- ing the value of this setting also changes the val- ue of the Caller			
	ID setting in the Fax Settings.			
	Pulse Dial Type			
	Disable Sending CRP			
Reboot System	N/A			

## dC361 NVM Save and Restore

#### **Purpose**

- 1. To capture the state of NVM to a file stored on the machine's controller PWB.
- 2. Copy the selected NVM to a USB device or restore NVM back to the device when required.

This routine supports the save and restore of the following NVM platforms:

- Print Engine
- Fax
- Fax Engine
- Scan Engine
- Copy Controller

#### Procedure



**CAUTION:** In this procedure it is important to follow the steps in order, read and understand all notes, and perform all actions correctly for each step. Failure to do so may result in saving an old and/or incorrect NVM file, then inadvertently reloading it when NVM is restored.

#### Note:

- NVM data files are first saved to the controller PWB.
   Saved NVM platforms can be copied to a USB device by selecting the saved platform, then selecting [Copy to USB Device].
- When an AltBoot or Forced AltBoot is performed, the files are first copied to the controller PWB from the USB drive, then written to the machine.

**Note:** Always save NVM data to a USB drive before performing an AltBoot or Forced AltBoot. Performing an AltBoot or Forced AltBoot deletes all data from the controller PWB.

#### To Save NVM

- 1. Enter Diagnostics, GP 1.
- 2. If you are saving NVM to a USB device, connect the USB device to one of the USB ports on the machine.
- 3. Select [Adjustments].
- 4. Select [dc361 NVM Save and Restore].

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**Note:** The top line represents the NVM data stored in the various locations in the machine. Subsequent lines represent the NVM platform saved in the controller PWB. Each time NVM is saved to the controller PWB a new file is created on the controller PWB. Each file displays as a separate line in the window with a unique date and time. Upon controller PWB replacement or a AltBoot or Forced AltBoot is performed, these files persist each time dc361 is accessed. When inserted, the USB device files are listed at the bottom.

- 5. Touch the [Machine NVM] line. A popup menu will open.
- 6. Select [Save To Hard Drive] from the popup menu.

A screen with a progress bar will display and the NVM data will be saved to the HDD/SSD immediately. No confirmation popup displays.

- 7. New line(s) are added to the screen in date and time order.
- 8. If it is necessary to copy the NVM files to a USB drive, touch the **[Hard Drive]** line from the save you just made. A popup menu displays.
- 9. Select [Copy To USB Device] from the popup menu.

A screen with a progress bar will display and the NVM data will be saved to the USB device immediately. No confirmation popup displays.

#### To Restore NVM

- 1. Enter Diagnostics, GP 1.
- 2. If restoring NVM from a USB drive, connect the USB Drive to a USB port on the machine.
- 3. Select [Adjustments].
- 4. Select [dc361 NVM Save and Restore].

Note: The top line represents the NVM data stored in the various locations in the machine. Subsequent lines represent the data stored on the controller PWB and USB drive. Each time NVM is saved to the controller PWB a new file is created on the controller PWB. Each file displays as a separate line in the window with a unique date and time. Unless the controller PWB is replaced, or an AltBoot or Forced AltBoot is performed, these files persist each time dc361 is accessed. The USB Device files are always listed at the bottom.

- 5. Touch the [Hard Drive] line corresponding to either the save made previously or to the copy just made from the USB drive.
- Select [Restore Machine NVM].

Note: You must switch OFF, then switch ON the machine, GP 10.

#### dC612 Print Test Patterns

#### **Purpose**

Prints the built-in test patterns to help identify Image Quality problems, Table 1.

#### **Procedure**

- 1. Enter Diagnostics, GP 1.
- 2. Select Diagnostics.
- 3. Select dc612 Print Test Patterns.
- 4. Select [Start] from the [Advanced Print Quality Samples] menu.

#### **Table 1 Test Patterns**

#	Description	Paper Size	Color Mode
1	Vertically repeating defects - [Print Cartridges]	8.5x11/A4	Y, M, C, K
2	Vertically repeating defects - [Transfer Module]	8.5x11/A4	Y, M, C, K
3	PQTEST-A	8.5x11/A4	Y, M, C, K
4	PQTEST-B	8.5x11/A4	С
5	PQTEST-C	8.5x11/A4	М
6	PQTEST-D	8.5x11/A4	Υ
7	PQTEST-E	8.5x11/A4	K
8	PQTEST-F	8.5x11/A4	Blank
9	PQTEST-G	8.5x11/A4	Y, M, C, K
10	PQTEST-H	8.5x11/A4	Y, M, C, K
11	PQTEST-I	8.5x11/A4	Y, M, C, K
12	PQTEST-J	8.5x11/A4	Y, M, C, K

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## dC727 Tray Quick Print Tests

## **Purpose**

Performs a single or continuous Quick Print Test.

#### Procedure

- 1. Enter Diagnostics, GP 1.
- 2. Touch [Diagnostics] to open the diagnostics procedures menu.
- 3. Touch [dc727 Tray Quick Print Tests].
- 4. Select the desired test from one of the three available options:
  - a. Touch **>Duplex**, to open the Duplex Quick Print Test menu.
    - 1. [Paper size], touch the button to change the paper size.
      - · Letter (default).
      - A4
    - 2. Two quick print test options are available:
      - [Single], prints a single page.
      - [Continuous], prints a minimum of 20 continuous pages.

**Note:** Load the MPF tray with a minimum of 20 sheets of the desired paper size, [Letter] or [A4], before touching [Start].

- 3. **[Single]**, touch **[Start]** to print a single quick print test page.
- 4. [Continuous], touch [Start] to print continuous quick print test pages.
- 1. Two quick print test options are available:
  - [Single], prints a single page.
  - [Continuous], prints a minimum of 20 pages.

**Note:** Load Tray 1 with a minimum of 20 sheets of the desired paper size, **[Letter]** or **[A4]**, before touching **[Start]**.

- 2. [Single], touch [Start] to print a single quick print test page.
- 3. [Continuous], touch [Start] to print continuous quick print test pages.
- b. Touch >MPF Tray, to open the MPF Tray tests:
  - 1. [Paper size], touch the button to change the paper size.
    - Letter (default).

- A4
- 2. Two quick print test options are available:
  - [Single], prints a single page.
  - [Continuous], prints a minimum of 20 continuous pages.

**Note:** Load the MPF tray with a minimum of 20 sheets of the desired paper size, [Letter] or [A4], before touching [Start].

- 3. [Single], touch [Start] to print a single quick print test page.
- 4. [Continuous], touch [Start] to print continuous quick print test pages.
- c. Touch >Tray 1, to open the Tray 1 tests:
  - 1. Two quick print test options are available:
    - [Single], prints a single page.
    - [Continuous], prints a minimum of 20 continuous pages.

**Note:** Load Tray 1 with a minimum of 20 sheets of the desired paper size, **[Letter]** or **[A4]**, before touching **[Start]**.

- 2. [Single], touch [Start] to print a single quick print test page.
- 3. [Continuous], touch [Start] to print continuous quick print test pages.

6 General Procedures and Information Revised Update

# dC925 Printer Setup

#### Purpose

Adjusts the EP settings of the printer and calibrates the waste tone sensor for optimal accuracy.

#### Procedure

Three adjustments can be performed in dC925 Printer Setup:

- 1. Enter Diagnostics, GP 1.
- Scroll to [Adjustments > dc925 Printer Setup], then touch [dc925 Printer Setup] to open the menu.
- 3. Touch the adjustment required:
  - a. Engine Settings: Not Used.
  - b. **EP Setup**: increase or reduce bias voltage on the drum from the bias charge roll.

Two settings are available for either [Charge Adjust] or [Developer Adjust]:

- Charge Adjust:
  - 1. Black (DC bias votage)
    - 1) Touch the button to change the black bias voltage as required:
      - [Low]
      - [Normal] (default)
      - [High]
    - 2) Touch [Save] to set the change active.
  - 2. Color (DC bias votage)
    - 1) Touch the button to change the color bias voltage as required:
      - [Low]
      - [Normal] (default)
      - [High]
    - 2) Touch [Save] to set the change active.
- Developer Adjust:

365

- 1. Black (DC bias votage)
  - 1) Touch the button to change the black bias voltage as required:

- [Low]
- [Normal] (default)
- [High]
- 2) Touch [Save] to set the change active.
- 2. Color (DC bias votage)
  - 1) Touch the button to change the color bias voltage as required:
    - [Low]
    - [Normal] (default)
    - [High]
  - 2) Touch [Save] to set the change active.
- waste toner sensor calibration: calibrates the waste toner sensor, ensuring the accuracy of
  the waste toner level detection.
  - 1. Touch [Start] to begin the sensor calibration.
- 4. Exit Diagnostics, GP 1.

Revised Update 6 General Procedures and Information

## dC945 IIT Calibration

#### **Purpose**

The purpose of this procedure is to calibrate the optics in the IIT for optimal performance.

This procedure provides two functions:

- 1. Scanner Calibration Reset
- 2. Controller Calibration

#### Procedure

- 1. Enter Diagnostics, GP 1.
- 2. Touch the desired operation, then touch [Start] to begin.
- 3. Exit Diagnostics, GP 1, when complete.

## **Change Tags**

## **Change Tag Introduction**

This section describes tags associated with the printer, as well as multinational applicability, classification codes, and permanent or temporary modification information. Important modifications to the printer are identified by a tag number which is recorded on a tag matrix inside the front door.

#### Classification Codes

A tag number may be required to identify differences between parts that cannot be interchanged, or differences in diagnostic, repair, installation, or adjustment procedures.

A tag number may also be required to identify the presence of optional hardware, special non-volatile memory programming, or whether mandatory modifications have been installed. Each tag number is given a classification code to identify the type of change that the tag has made. The classification codes and their descriptions are listed in Table 1.

Table 1 Classification codes

Classification Code	Description
М	Mandatory tag.
N	Tag not installed in the field.
0	Optional tag.
R	Repair tag.

7 Wiring Data

## Revised Update

# 7 Wiring Data

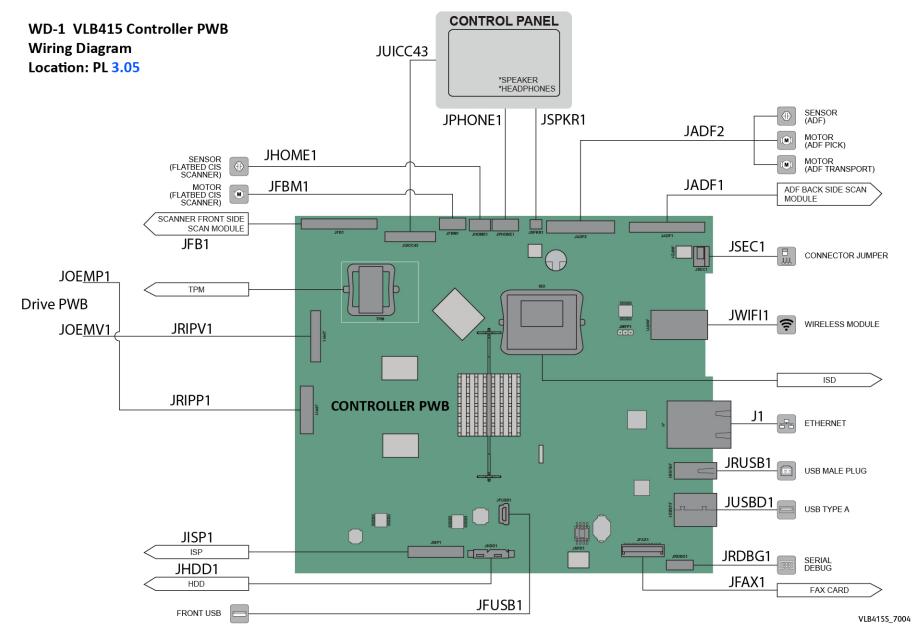
Wiring Diagrams	368
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7 Wiring Data Revised Update

# VLB415 Wiring Diagrams

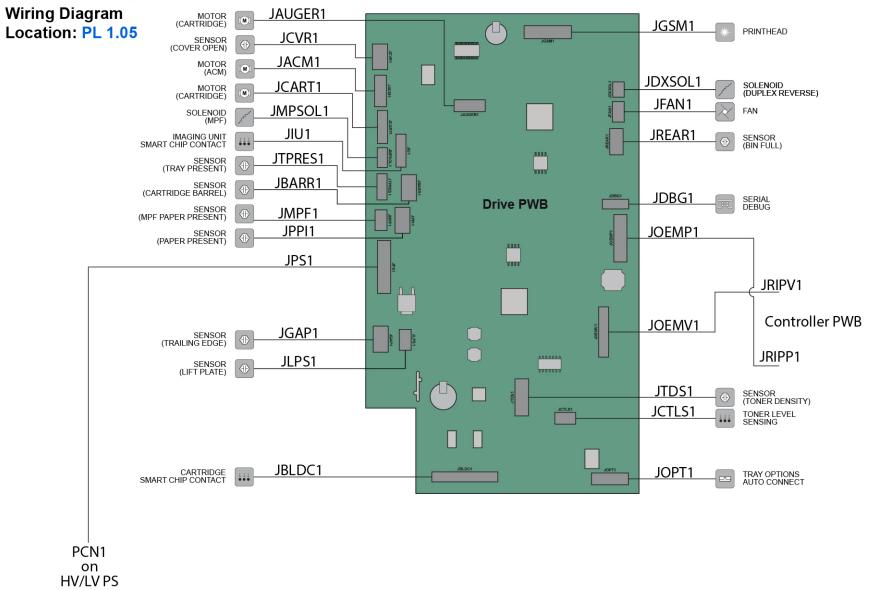
## WD1 VLB415 Controller PWB Wiring Diagram



Revised Update 7 Wiring Data

## WD2 VLB415 Drive PWB Wiring Diagram

## WD-2 VLC415 Drive PWB



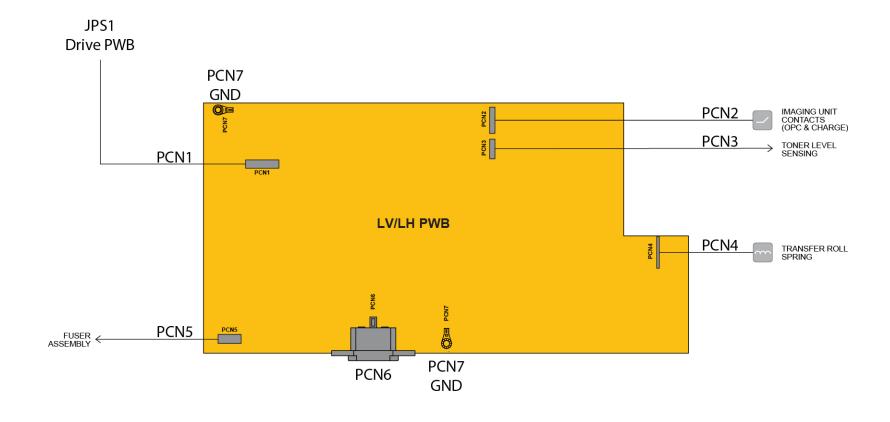
VLC415S\_7003

7 Wiring Data Revised Update

## WD3 VLB415 LV/HV PS Wiring Diagram

## WD-3 VLB415 LV/LH PWB

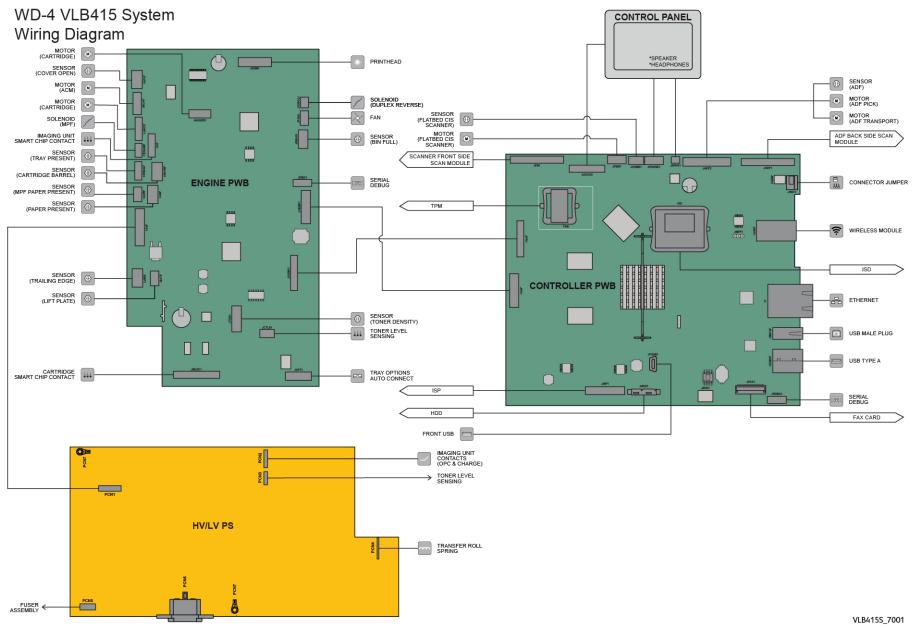
Wiring Diagram Location: PL 1.05



VLC415S\_7002

Revised Update 7 Wiring Data

## WD4 VLB415 System Wiring Diagram



# 8 Product Technical Overview

Product Technical Overview	
POR Sequence	
Printer Control	
Xerographics	
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Printer Paper Path Sensors	
DADF and Scanner Operation	
Flatbed Scanner Drive	
DADF Paper Path Rollers	
DADF Paper Path Sensors	
DADF Pick and Feed Drive	
DADF Transport and Scan Drive	
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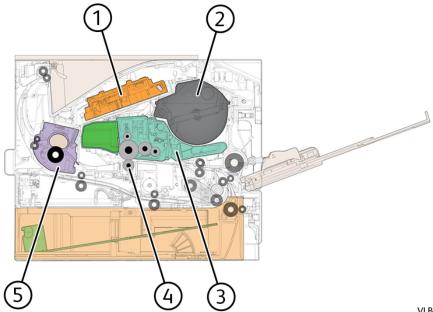
# **POR Sequence**

As the printer is turned on, the engine code goes through a series of tests to verify hardware integrity. If a hardware failure is detected, then it is reported to the printer. If the POR sequence cannot be completed successfully, then the printer may post an error message. The message states that service may be needed.

## **Printer Control**

The printer uses two boards, each with its own processor. The controller board handles system responsibilities such as PC connection, LAN, ISP attachments, and bitmap generation. The engine board performs tasks related to the operation of the electrical and mechanical device systems such as motors, lasers, power supplies, and fusers. There is an NVRAM device on each board to store system settings. Data on the NVRAM devices mirror each other automatically when one of the boards is replaced and printer is rebooted—if both boards are replaced together, critical data will be lost.

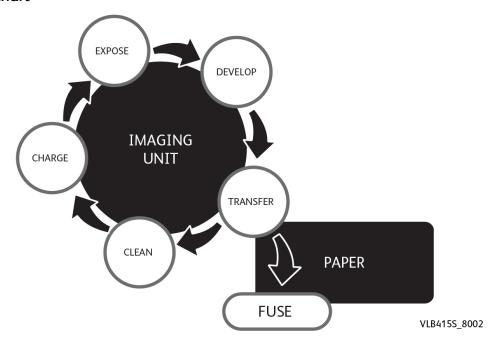
# Print Engine Layout



VLB415S\_8001

Item Number	Description
1	Printhead
2	Toner Cartridge
3	Imaging Unit
4	Transfer Roller
5	Fuser

# Flowchart



## **EP Process**

## Charge



VLB415S 8003

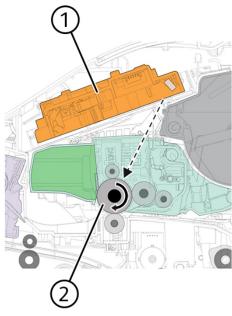
Item Number	Description
1	Charge Roller
2	Photoconductor Drum

The charge roller applies a uniform negative electrical charge to the surface of the photoconductor drum. The photoconductor drum, because of its photoconductive properties, holds the charge as long as it is not exposed to light.

#### Service Tips

- If the surface of the charge roller is damaged, such as having a nick or pit, then the charge on the photoconductor drum is uneven. A repeating mark may appear on the printed page. For more information, IQ9
- If the charge roller is severely damaged, then the surface of the photoconductor drum is not properly charged. Excessive amounts of toner particles are deposited on the photoconductor drum. The printed page becomes saturated with 100% of the color from the supply with the defective charge roller. The affected imaging unit or kit must be replaced immediately.

## **Expose**



VLB415S\_8004

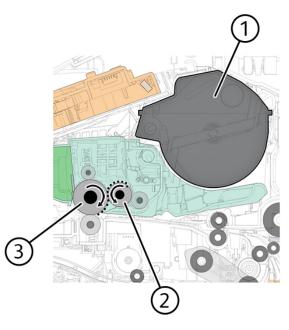
Item Number	Description1
1	Printhead
2	Photoconductor Drum

The printhead laser emits the light that contacts the surface of the photoconductor drum. An invisible image, called digital latent image, is written as the light turns on or off. The light causes areas of the photoconductor drum surface to lose charge, resulting in a relative opposite polarity.

#### Service Tips

- Do not touch the surface of the photoconductor drum with your bare hand. The oil from your skin may cause a charge disparity on the surface, and the toner may no longer stick properly. The result can be repeating blotches or voids on the printed page or patches of light print. The affected imaging unit or kit may need to be replaced.
- The surface of the photoconductor drum is coated with an organic substance that makes it sensitive to light. Make sure to cover the photoconductor drum when you are working on the printer. If it is exposed to light for too long, then light or dark print quality problems may occur. The imaging unit or imaging kit may need to be replaced.
- Toner particles or dirt that get stuck on the printhead lens may obstruct the path of the laser beam. The result can be vertical light streaks on the printed page. If cleaning is not possible, then the printhead may need to be replaced.

#### Develop



VLB415S\_8005

Item Number	Description
1	Toner Cartridge
2	Developer Roller
3	Photoconductor Drum

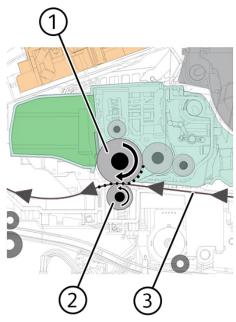
The developer roller applies the toner from the toner cartridge to the photoconductor drum. The relative opposite polarity in charge causes the toner particles to attract to the photoconductor drum areas which were exposed to light.

This process is similar to using glue to write on a can, and then rolling the can over glitter. The glitter sticks to the glue but does not stick to the rest of the can.

#### Service Tips

- Do not touch the surface of the developer roller with your bare hand. The oil from your skin may cause a charge disparity on the surface, and the toner may no longer stick properly. The result can be repeating blotches or voids on the printed page or patches of light print. The affected cartridge may need to be replaced.
- If the developer roller is damaged, then it cannot contact the surface of the photoconductor drum properly. The result can be repeating marks, thin vertical voids, or thin vertical lines of color on the printed page. Check the surface of the developer roller for damage. For more information, IQ9

#### Transfer



VLB415S 8006

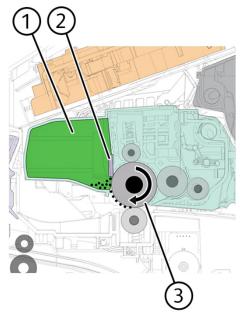
Item Number	Description
1	Photoconductor Drum
2	Transfer Roller
3	Paper

The transfer roller applies a positive charge to the paper, which is pressed between the transfer roller and the photoconductor drum. The charge on the paper received from the transfer roller is positive. The charge on the photoconductor drum received from the charge roller is negative. The relative opposite polarities between the two charges result in the charge attracting the toner onto the paper.

#### Service Tips

- Do not touch the surface of the transfer roller with your bare hand. The oil from your skin may cause a charge disparity on the surface, and the toner may no longer stick properly. The result can be repeating blotches or voids on the printed page or patches of light print. The transfer roller may need to be replaced. For more information, IQ9
- Do not use solvents or other cleaners to clean the transfer roller surface. Their chemicals may result to scratches or charge disparities. Voids on the printed page or blotches of light print may occur. The transfer roller may need to be replaced.
- Sharp and hard objects can damage the transfer roller surface. Be careful when using a screwdriver or prying tool near the transfer roller. If the transfer roller has tears or cracks, then the transfer roller may need to be replaced.

## Clean

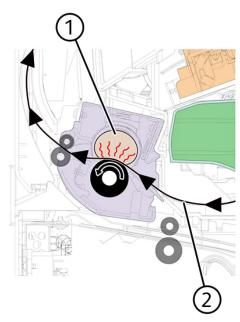


VLB415S\_8007

Item Number	Description
1	Waste Toner Bottle
2	Cleaning Blade
3	Photoconductor Drum

The cleaning blade removes the toner residue from the photoconductor drum. The cycle (charge, expose, develop, transfer, and clean) repeats until the whole image is transferred to the paper.

#### Fuse



VLB415S\_8008

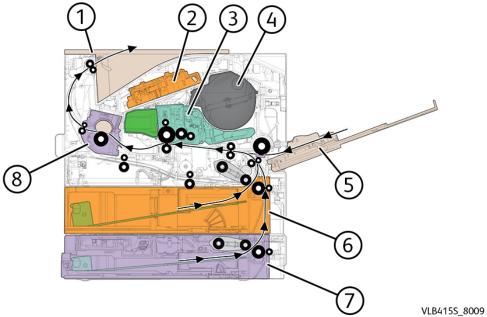
Item Number	Description
1	Fuser
2	Paper

Even if the toner image is already on the paper, the toner particles are not yet permanently bonded to the surface. Paper is transported from the transfer roller to the fuser where heat and pressure are applied to it. As a result, the toner particles melt and permanently fuse with the paper, completing the print process. The cycle repeats for the succeeding pages.

#### Service Tips

- If the fuser is damaged, then the toner may rub off the page. Paper jams may also occur.
- Toner rubbing off a printed page indicates a malfunctioning fuser or an incorrect paper type setting. Always check the paper type setting before replacing the fuser. A common mistake is to print on heavier paper, such as card stock, with the paper type set to plain paper.
- If possible, never pull paper with unfused toner through the fuser. Try to pull out the jammed paper from the fuser in the opposite direction it was traveling.

# **Printer Sections**

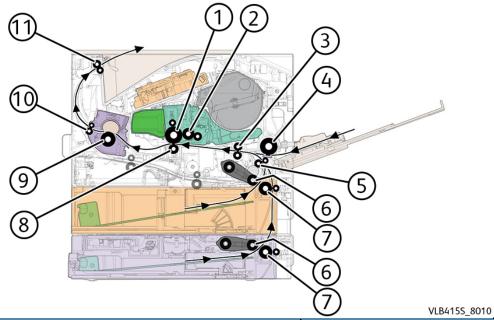


Descriptio

Item Number	Description
1	Bin
2	Printhead
3	Imaging Unit
4	Toner Cartridge
5	МРГ
6	Standard Tray
7	Optional Tray
8	Fuser

# **Printer Paper Path Rollers**

## **One-sided Print Job**



Item Number	Description
1	Photoconductor Drum
2	Developer Roller
3	First Input Roller
4	MPF Pick Roller
5	Second Input Roller
6	Pick Roller
7	Separator Roller
8	Transfer Roller
9	Fuser Roller

Item Number	Description
10	Fuser Exit Roller
11	Paper Exit Roller

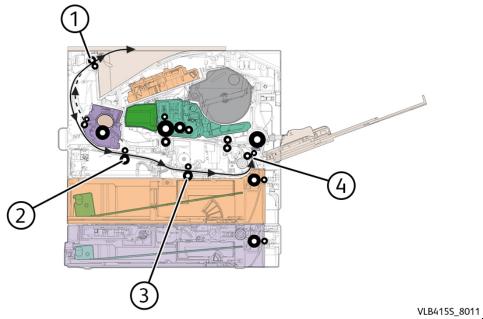
The pick roller picks and feeds the paper to the separator roller. The separator roller feeds the paper to the second input roller, which feeds it to the first input roller. For MPF print jobs, the MPF pick roller picks and feeds the paper to the first input roller.

The first input roller feeds the paper to the transfer roller. At the transfer roller, the photoconductor drum transfers the developed image to the paper to create the printed image.

As the paper passes the fuser, heat and pressure are applied to permanently bond the toner to the paper.

After printing, the printer ejects the paper by the paper exit roller.

## **Duplex Print Job**



Item Number	Description
1	Paper Exit Roller
2	Duplex Rear Roller

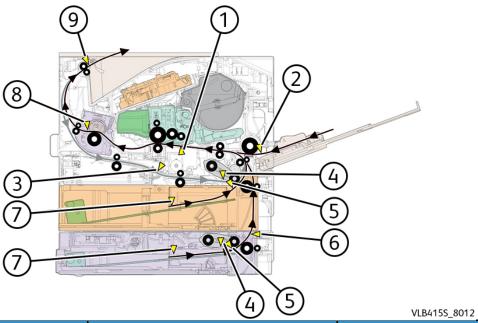
Item Number	Description
3	Duplex Front Roller
4	Second Input Roller

After the first side is printed, the paper reverses direction to get its opposite page printed.

The paper travels along the duplex path until it reenters the second input roller. From there, the paper continues its path until the print job is done.

Note: While the sheet is being transported through the duplex unit, it is the only sheet of paper being processed by the print engine. A user should not attempt to insert a sheet of paper into the manual paper feed while a duplex job is being processed to avoid a paper jam.

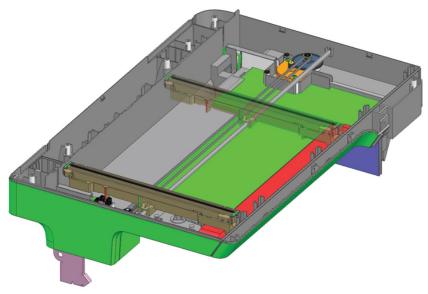
# Printer Paper Path Sensors



Item Number	Sensor	Function
1	Sensor (Input)	Detects the paper traveling between the first input roller and the transfer roller.
2	Sensor (MPF Paper Present)	Detects paper presence in the MPF tray.
3	Sensor (Duplex)	Detects the paper traveling along the duplex path.
4	Sensor (Index)	Detects if the pick roller is at the correct height to pick paper from the tray.
		Note: The sensor in the standard tray is supported only in some printer models.
5	Sensor (Trailing Edge)	Detects the trailing edge of the paper fed from the tray.
6	Sensor (Pass-Through)	Detects paper that is fed from tray 2.
7	Sensor (Media Present)	Detects if paper is in the tray.
		Note: The sensor in the standard tray is supported only in some printer models.

Item Number	Sensor	Function
8	Sensor (Fuser Exit)	Detects the paper that is exiting the fuser
9	Sensor (Narrow Media/Bin Full)	Detects if the paper is narrow and if the the bin is full

## Flatbed Scanner Drive



VLB415S 8013

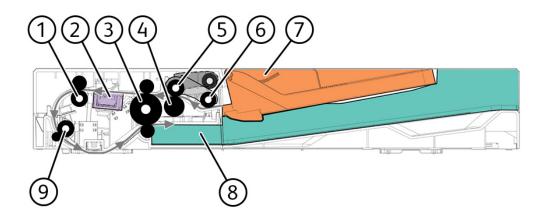
Item Number	Description
1	Scanner Glass Area
2	Motor (Flatbed CIS Scanner)
3	Calibration Reference Strip
4	DADF Glass Area
5	Flatbed CIS Scanner
6	Sensor (Flatbed CIS Scanner)

The flatbed scanner has a contact image sensor (CIS) scan module that illuminates the surface of the document. The reflections produced are detected by the CIS scanner to create the scan image.

For flatbed scan jobs, the CIS scanner moves across the scanner glass area to scan the front side of the document (facedown). The motor (flatbed CIS scanner) controls the CIS scanner position. The CIS scanner is detected at its home position by the sensor (flatbed CIS scanner). The position of the CIS scanner is also detected based on the computed distance relative to the calibration reference strip. To maintain the correct shading levels if needed, the CIS scanner scans the white surface of the calibration reference strip.

During DADF scan jobs, the CIS scanner stays at the DADF glass area to scan the front side of the document.

# **DADF Paper Path Rollers**



VLC415S\_8016

Item Number	Description
1	DADF Transport Roller
2	DADF CIS Scanner
3	DADF Feed/Exit Roller
4	DADF Separator Roller
5	DADF Feed Roller
6	DADF Pick Roller
7	DADF Tray
8	DADF Bin
9	DADF Scan Roller

Paper from the DADF tray enters the DADF through the pick roller, feed roller, and separator roller.

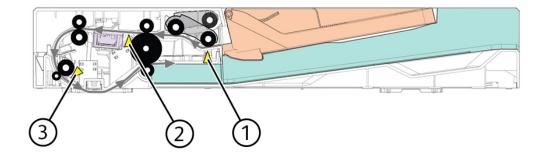
Revised Update 8 Product Technical Overview

The back side of the paper is scanned after the paper passes the DADF feed/exit roller. The front side of the paper is scanned after the paper passes the DADF scan roller.

After the paper is scanned, it is ejected by the feed/exit roller to the DADF bin.

8 Product Technical Overview Revised Update

## **DADF Paper Path Sensors**

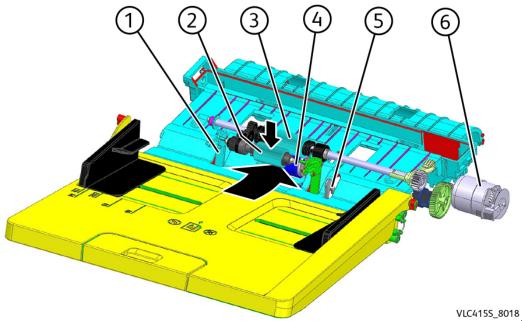


#### VLC415S\_8017

Item Number	Sensor	Function					
1	Sensor (DADF paper present)	Detects paper presence in the DADF tray					
2	Sensor (DADF scan 2)	Detects the paper that is about to be scanned at its back side					
3	Sensor (DADF scan 1)	Detects the paper that is about to be scanned at its front side					

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#### DADF Pick and Feed Drive



Item Number	Description
1	Paper Stop
2	DADF Pick Roller
3	DADF Feed Roller
4	DADF Separator Roller
5	Sensor (DADF Paper Present)
6	Motor (DADF Pick)

The sensor (DADF paper present) detects if paper is loaded in the DADF tray. When the scan job command is signaled, the pick roller lowers to pick the paper from the DADF tray.

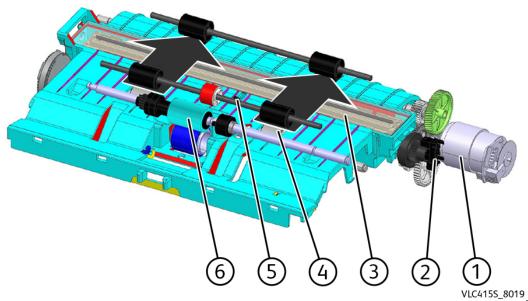
**Note:** When the pick roller is raised, the leading edges of the paper in the tray are aligned by the paper stops.

When paper reaches the feed roller, the resistance of the separator roller allows only the topmost sheet to feed.

The motor (DADF pick) drives the DADF pick and feed rollers.

8 Product Technical Overview Revised Update

## **DADF Transport and Scan Drive**



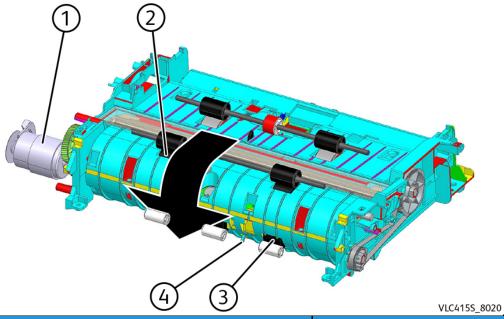
Item Number	Description
1	Motor (DADF Transport)
2	Sensor (DADF Calibration)
3	DADF CIS Scanner
4	DADF Feed/Exit Roller
5	Sensor (DADF Scan 2)
6	DADF Feed Roller

As paper enters the DADF, the DADF feed/exit roller receives it. The sensor (DADF scan 2) detects the paper to start the scan. The DADF CIS scanner scans the back side of the document.

The motor (DADF transport) drives the DADF feed/exit roller.

**Note:** If needed, calibration for the DADF CIS scanner occurs automatically before a job to adjust shading levels. During calibration, the DADF CIS scanner moves laterally to scan a reference white surface on the opposite side. The DADF CIS scanner is detected at its home position by the sensor (DADF calibration).

Revised Update 8 Product Technical Overview



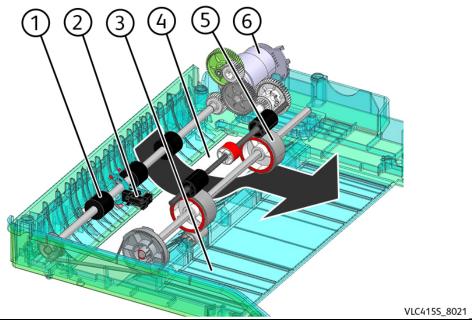
Item Number	Description
1	Motor (DADF Transport)
2	DADF Transport Roller
3	DADF Scan Roller
4	Sensor (DADF Scan 1)

After the back side is scanned, the DADF transport roller transports paper to the DADF scan roller.

The motor (DADF transport) drives the DADF transport and scan rollers.

8 Product Technical Overview Revised Update

### **DADF Exit Drive**



Item Number	Description
1	DADF Scan Roller
2	Sensor (DADF Scan 1)
3	DADF Bin
4	DADF Glass
5	DADF Feed/Exit Roller
6	Motor (DADF Transport)

Paper is fed to the DADF scan roller for front-side scanning. At the DADF glass area, the flatbed scanner does the scan. The DADF feed/exit roller ejects the scanned document to the DADF bin.

The motor (DADF transport) drives the scan and exit rollers. The sensor (DADF scan 1) detects the paper entering the DADF glass area.

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	Tools										
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<b>≥</b> <u>ŏ</u>			[ <mark>호</mark>				Software		<u>S</u>	Configure	Is part of Diagnostics
NVMII	Description	Setting Information	lë	dc131 Display Name	Category	Type	installation	External Reference	\ <u>e</u>		Database?
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600-015	Fault Counter 19-750-00:		RVV	Ram Size Mismatch FaultFC	NVMFaultCounter	shortNatural	No	Fault Counter:19-750-	1.813		
	VideoEPCSizeMisMatchCntr							00:			
	Fault Counter 19-754-00:		RW	Disk Mode Mismatch FaultFC	NVMFaultCounter	shortNatural	No	Fault Counter:19-754-	1.813		
	VideoDiskMismatchCntr							00:			
	Fault Counter 19-401-00: Out of Memory		RW	Out Memory Fault - StrNC docFC	NVMFaultCounter	shortNatural	No	Fault Counter:19-401-	1.153		
1	Fault - Stress Document						1	00: Out of Memory			
							1	Fault - Stress			
600-018	Fault Counter 19-402-00:		RW	Compressor DVMA Timeout FaultFC	NVMFaultCounter	shortNatural	No	Fault Counter:19-402-	1.153		
	FaultVideoDVMSTimeOutFault			·				00:			
	Fault Counter 22-300-10: AHA End of		RW	AHA End of Record Fault	NVMFaultCounter	shortNatural	No	Fault Counter:22-300-	1.000		
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	Toner Coverage Plane1-2				NVMSystemUsageCounter		No	System Usage			
	Toner Coverage Plane1-3			<u> </u>	NVMSystemUsageCounter		No	System Usage	1.813		
	Toner Coverage Plane1-4				NVMSystemUsageCounter	longNatural	No	System Usage	1.813		
	Toner Coverage Plane1-14		RO	Ÿ	NVMSystemUsageCounter	longNatural	No	System Usage	1.813		
600-073	Toner Coverage Plane1-16		RO	Toner Coverage Plane1-16	NVMSystemUsageCounter	longNatural	No	System Usage	1.813		
								Counter:226: Black			
600-074	Toner Coverage Plane1-17		RO	Toner Coverage Plane1-17	NVMSystemUsageCounter	longNatural	No	System Usage	1.813		
								Counter:227: Black			
600-076	Toner Coverage Plane1-19		RO	Toner Coverage Plane1-19	NVMSystemUsageCounter	longNatural	No	System Usage	1.813		
	-			-	-			Counter:229: Black			
								>90 to 100% Area			
								Coverage Impressions			
600-117	Toner Coverage Plane4-3		RO	Toner Coverage Plane4-3	NVMSystemUsageCounter	longNatural	No		1.813		
	Trener coverage rianer o		``	Tener ceverage riane re	Transference age counter	longitatara		Counter:278: Yellow >2	1.0.0		
								to 3% Area Coverage			
600 200	Fault Counter 19-420: Image Processing	no. of faults	DW	Fault Counter 19-420	NVMFaultCounter	shortNatural	No	Fault Counter:19-420-	1.660		
	Fault Counter 19-420: Image Processing	no of faults			NVMFaultCounter		No	Fault Counter: 19-420-	1.660		
	Fault Counter 19-422: Image Processing Fault Counter 19-424: Image Processing	no of faults			NVMFaultCounter		No	Fault Counter: 19-424-	1.660	+	
	Fault Counter 19-424: Image Processing Fault Counter 19-426: Image Processing	no of faults							1.663	+	
	ÿ ÿ				NVMFaultCounter		No	Fault Counter: 19-426-			
	Fault Counter 19-410-14: Scan Output	no of faults			NVMFaultCounter		No	Fault Counter:19-410-	1.668		
	Fault Counter 19-340 :SIC Crash	no of faults			NVMFaultCounter		No	Fault Counter:19-340-	1.813		
	Determines whether APS requires input to			·	NVMSAKOSetting	boolean	No	D'III O : 10	1.000		
	Counter-COPYLargeSheets		ND		NVMBillingCounter	byteArray	No	Billing Counter:16:	1.799		
603-041	Counter-COPYLargeColorSheets		ND		NVMBillingCounter	byteArray	No	Billing Counter:19:	1.799		
1							1	Color Copied Large			
								Sheets			
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604-025	Counter-CollatedSheets		ND		NVMSystemUsageCounter	byteArray	No	System Usage	1.799		
					_		1	Counter:186: All			
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604 029	Counter-DualStaples		ND I	NIV/MS votom Loago Counter	byto Arroy	INo	System Usage	1.799
604-028	Counter-DualStaples		ND	NVMSystemUsageCounter	byteArray	No	Counter:192: All dual staples	11.799
604-037	Counter-PunchedSheets		ND	NVMSystemUsageCounter	byteArray	No	System Usage Counter:187: All punched sheets	1.799
604-046	Counter-StapledSheets		ND	NVMSystemUsageCounter	byteArray	No	System Usage Counter:189: All stapled sheets	1.799
604-055	Counter-All Uncollated Stapled sheets		ND	NVMSystemUsageCounter	byteArray	No	System Usage Counter:188: All uncollated stapled sheets	1.799
	Counter-DualPitchImages		ND	NVMSystemUsageCounter	byteArray	No	System Usage Counter:56: Number of developed dual-pitch images	1.799
	Counter-Stapled2_15		ND	NVMSystemUsageCounter	byteArray	No	System Usage Counter:180: Number of stapled output sets with 2 to 15 sheets	1.799
	Counter-Stapled16_30		ND	NVMSystemUsageCounter	byteArray	No	System Usage Counter:181: Number of stapled output sets with 16 to 30 sheets	1.799
604-090	-Images During Service Call		ND	NVMDiagCounter	byteArray	No	Diagnostic Counter:299: Images During Service	1.799
604-092	-Images Between Service Calls		ND	NVMDiagCounter	byteArray	No	Diagnostic Counter:300: Images Between Service	1.000
	Fault Counter 22-310- 04:PageTKTSOutofOrder (SheetsOutOfSequence)	no. of faults	ND	NVMFaultCounter	byteArray	No	Fault Counter:22-310- 04: PageTKTSOutofOrder	1.153
	Fault Counter 22-314-04: ModuleRegistrationError	no. of faults	ND	NVMFaultCounter	byteArray	No	Fault Counter:22-314- 04: ModuleRegistrationErr or	1.000
604-101	Fault Counter 22-315-04: NoCompletionsError	no. of faults	ND	NVMFaultCounter	byteArray	No	Fault Counter:22-315- 04: NoCompletionsError	1.143
604-105	Fault Counter 22-701-04: CompletionWhileIdle	no. of faults	ND	NVMFaultCounter	byteArray	No	Fault Counter:22-701- 04: CompletionWhileIdle	1.000

604-107	Fault Counter 22-316-04: trayDoesnotExist	no. of faults	ND		NVMFaultCounter	byteArray	No	Fault Counter:22-316- 04: trayDoesnotExist	1.000
604-109	Fault Counter 22-317-04: noFinisherCapabilityFound	no. of faults	ND		NVMFaultCounter	byteArray	No	Fault Counter:22-317- 04: noFinisherCapabilityFo und	1.000
604-111	Fault Counter 22-318-04: noIOTCapabilityFound	no. of faults	ND		NVMFaultCounter	byteArray	No	Fault Counter:22-318- 04: noIOTCapabilityFound	1.000
604-127	Enable Offset policy	Enable Offset policy 0=Off 1=On	RW I	MSOffsetEnabledPolicy	NVMSAKOSetting	boolean	No		1.754
604-132	ProdCfgNvm	Northwood	RW F	ProdCfgNvm	NVMConfiguration	shortNatural	No		1.266
604-132	ProdCfgNvm	Burgundy	RW F	ProdCfgNvm	NVMConfiguration	shortNatural	No		1.507
604-132	ProdCfgNvm	Barolo	RW F	ProdCfgNvm	NVMConfiguration	shortNatural	No		1.507
604-135	Counter-Stapled31_50		ND		NVMSystemUsageCounter	byteArray	No	System Usage Counter:182: Number of stapled output sets with 31 to 50 sheets	1.799
604-136	Counter-Stapled51_100		ND		NVMSystemUsageCounter	byteArray	No	System Usage Counter:183: Number of stapled output sets with 51 to 100 sheets	1.799
604-160	Fault Counter 03-316: CCMCannotCommunicateWithIotFC		RW (	CCMCannotCommunicateWithIotFC	NVMFaultCounter	shortNatural	No	Fault Counter:03-316- 00: CCMCannotCommunic ateWithIotFC	1.813
604-161	Fault Counter 10-311: FuserHeatRollStsDisconnectFailCountFC		RW F	FuserHeatRollStsDisconnectFC	NVMFaultCounter	shortNatural	No	Fault Counter:10-311- 00: FuserHeatRollStsDisco nnectFailCountFC	1.159
604-162	Fault Counter 10-319: FuserNcSnrDifferentialFailCountFC		RW F	FuserNcSnrDifferentialFC	NVMFaultCounter	shortNatural	No	Fault Counter:10-319- 00: FuserNcSnrDifferential FailCountFC	1.159
604-163	Fault Counter 10-320: HeatRolloverTempFailCountFC		RW I	HeatRolloverTempFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:10-320- 00: HeatRolloverTempFail CountFC	1.159
604-164	Fault Counter 10-321: FuserNipFailCountFC		RW F	FuserNipFailCountFC	NVMFaultCounter	shortNatural	No		1.159

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604-165	Fault Counter 10-323: FuserRearNcSnrDisconnectFailCountFC	RW	FuserRearNcSnrDisconnectFC	NVMFaultCounter	shortNatural	No	00: FuserRearNcSnrDisco	1.159
004 400	5 40 004	514	- N - 10 - 150	100 d			nnectFailCountFC	1.450
604-166	Fault Counter 10-324: FuserNvmFailCountFC	RW	FuserNvmFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:10-324- 00: FuserNvmFailCountFC	1.159
604-167	Fault Counter 10-326: WaitHeatRollFuserOnTimeFailCountFC	RW	WaitHeatRollFuserOnTimeFC	NVMFaultCounter	shortNatural	No	Fault Counter:10-326- 00: WaitHeatRollFuserOnT imeFailCountFC	1.159
604-168	Fault Counter 10-327: StandbyHeatRollFuserOnTimeFailCountF C	RW	StandbyHeatRollFuserOnTimeFC	NVMFaultCounter	shortNatural	No	Fault Counter:10-327- 00: StandbyHeatRollFuser OnTimeFailCountFC	1.159
604-169	Fault Counter 10-330: FuserMotorFailFC	RW	FuserMotorFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:10-330- 00: FuserMotorFailFC	1.813
604-170	Fault Counter 12-112: HxportEntSnrOnJamFaultCountFC	RW	HxportEntSnrOnJamFaultCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-112- 00: HxportEntSnrOnJamF aultCountFC	1.813
604-171	Fault Counter 12-113: BookletInSnrOnJamFaultCountFC	RW	BookletInSnrOnJamFaultCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-113- 00: BookletInSnrOnJamFa ultCountFC	1.813
604-172	Fault Counter 12-114: BookletInSnrOffJamFaultCountFC	RW	BookletInSnrOffJamFaultCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-114- 00: BookletInSnrOffJamFa ultCountFC	1.813
604-173	Fault Counter 12-115: BookletFolderRollExitSnrOnJamFaultCountFC	RW	BookletFolderRollExitSnrOnJamFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-115- 00: BookletFolderRollExitS nrOnJamFaultCountFC	
604-174	Fault Counter 12-125: GateSnrOnJamFaultCountFC	RW	GateSnrOnJamFaultCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-125- 00: GateSnrOnJamFaultC ountFC	1.521
604-175	Fault Counter 12-132: XportEntSnrOnJamFaultCountFC	RW	XportEntSnrOnJamFaultCountFC	NVMFaultCounter	shortNatural	No		1.813
604-176	Fault Counter 12-142: BufferPathSnrOnJamFaultCountFC	RW	BufferPathSnrOnJamFaultCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-142- 00: BufferPathSnrOnJamF aultCountFC	1.521
604-177	Fault Counter 12-151: CompileExitSnrOffJamFaultCountFC	RW	CompileExitSnrOffJamFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-151- 00: CompileExitSnrOffJam FaultCountFC	1.813

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604-178	Fault Counter 12-152: CompileExitSnrOnJamFaultCountFC	RW	CompileExitSnrOnJamFaultCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-152- 00: CompileExitSnrOnJam	1.813
							FaultCountFC	
604-179	Fault Counter 12-161: SetEjectJamFaultCountFC	RW	SetEjectJamFaultCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-161- 00: SetEjectJamFaultCoun tFC	1.813
604-180	Fault Counter 12-162: HxportExitSnrOnJamFaultCountFC	RW	HxportExitSnrOnJamFaultCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-162- 00: HxportExitSnrOnJamF aultCountFC	1.521
604-181	Fault Counter 12-171: TopTrayExitSnrOnJamFaultCountFC	RW	TopTrayExitSnrOnJamFaultCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-171- 00: TopTrayExitSnrOnJam FaultCountFC	1.813
604-182	Fault Counter 12-172: TopTrayExitSnrOffJamFaultCountFC	RW	TopTrayExitSnrOffJamFaultCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-172- 00: TopTrayExitSnrOffJam FaultCountFC	1.813
604-183	Fault Counter 12-180: BookletFolderRollExitSnrOffJamFaultCountFC	RW	BookletFolderRollExitSnrOffJamFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-180- 00: BookletFolderRollExitS nrOffJamFaultCountFC	1.813
604-184	Fault Counter 12-211: StackerTrayFailFaultCountFC	RW	StackerTrayFailFaultCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-211- 00: StackerTrayFailFaultC ountFC	1.813
604-185	Fault Counter 12-212: StackerUpperLimitFailFaultCountFC	RW	StackerUpperLimitFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-212- 00: StackerUpperLimitFail FaultCountFC	1.813
604-186	Fault Counter 12-213: StackerLowerLimitFailFaultCountFC	RW	StackerLowerLimitFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-213- 00: StackerLowerLimitFail FaultCountFC	1.813
604-187	Fault Counter 12-221: FrontTamperHomeSnrOnFailFaultCountF C	RW	FrontTamperHomeSnrOnFailFC	NVMFaultCounter	shortNatural	No		1.813
604-188	Fault Counter 12-223: FrontTamperHomeSnrOffFailFaultCountF C	RW	FrontTamperHomeSnrOffFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-223- 00: FrontTamperHomeSnr OffFailFaultCountFC	1.813
	Fault Counter 12-224: RearTamperHomeSnrOffFailFaultCountF C	RW	RearTamperHomeSnrOffFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-224- 00: RearTamperHomeSnr OffFailFaultCountFC	1.813
604-190	Fault Counter 12-225: BookletTamperFHomeSnrOnFailFaultCountFC	RW	BookletTamperFHomeSnrOnFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-225- 00: BookletTamperFHome SnrOnFailFaultCountF	1.813

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68-133 Fault Counter 12-225: 68-1431								BookletEndGuideHom	
BookerTandSuiderTanneStrOnFailFaultCounter   Schrift-StaperFailFounter   Schrift-Sta	604-193	Fault Counter 12-228:	RW	BookletEndGuideHomeSnrOnFailFC	NVMFaultCounter	shortNatural	No		1.813
Booklet   Fault Counter   12-225   Booklet TamperRivernos Principal Formack Princi		BookletEndGuideHomeSnrOnFailFaultCou						00:	
Gold-196   Fault Counter 12-229:   Gold-197   Fault Counter 12-229:   Gold-197   Fault Counter 12-229:   Gold-197   Gol		ntFC							
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mFC  604-155 Fault Counter 12-230. Booklet TamperR*Home SmOffFailFC  NVMFaultCounter  604-176 Fault Counter 12-230. Booklet TamperR*Home SmOffFailFC  NVMFaultCounter  604-176 Fault Counter 12-243. Booklet Grapher R*Home SmOffFailFC  NVMFaultCounter  604-177 Fault Counter 12-243. Booklet Grapher R*Home SmOffFailFC  NVMFaultCounter  604-178 Fault Counter 12-245. Booklet Grapher R*Home SmOffFailFC  NVMFaultCounter  604-179 Fault Counter 12-246. Booklet Stapler FailCountFC  804-188 Fault Counter 12-247 Fault Counter 12-248 Fault Cou	604-194		RW	BookletTamperRHomeSnrOnFailFC	NVMFaultCounter	shortNatural	No		1.521
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South   Sout		Intec							
BookletTamperRHomeSmOffFailFaultCounter   2-243   BookletKnifeHomeSmOfnFailFaultCounter   ShortNatural   No   Fault Counter   2-244   5-251   BookletKnifeHomeSmOfnFailFaultCounter   ShortNatural   No   Fault Counter   2-245   5-251   BookletKnifeHomeSmOfnFailFaultCounter   ShortNatural   No   Fault Counter   2-246   1.813   BookletStaplerFailCountFC   ShortNatural   No   Fault Counter   2-247   1.813   BookletStaplerFailCountFC   ShortNatural   No   Fault Counter   2-260   1.813   BookletStaplerFailCountFC   ShortNatural   No   Fault Counter   2-260   1.813   BookletStaplerFailCountFC   ShortNatural   No   Fault Counter   2-261   1.521   BookletStaplerFailCountFC   ShortNatural   No   Fault Counter   2-263   1.813   BookletDrawerBrokenFailFaultCountFC   ShortNatural   No   Fault Counter   2-264   1.813   BookletDrawerBrokenFailFC   NVMFaultCounter   ShortNatural   No   Fault Counter   2-264   1.813   BookletDrawerBrokenFailFC   NVMFaultCounter   ShortNatural   No   Fault Counter   2-265   1.813   BookletDrawerBrokenFailFountFC   ShortNatural   No   Fault Counter   2-265   1.813   BookletDrawerBrokenFailFountFC   ShortNatural   No   Fault Counter   2-265   1.813   BookletDrawerBrokenFailFountFC   ShortNatural   No   Fault Cou	604-195	Fault Counter 12-230:	RW	BookletTamperRHomeSnrOffFailFC	NVMFaultCounter	shortNatural	Nο		1 521
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BookletKnifetomsSmrOnFallFaultCountFC   RW   BookletStaplerFailCountFC   RW   BookletStaplerFailCountFC   RW   BookletStaplerFailCountFC   RW   BookletStaplerFailCountFC   RW   BookletStaplerFailCountFC   RW   SideRegiSmrOftFailFaultCountFC   SideRegiSmrOftFailFaultCountFC   SideRegiSmrOftFailFaultCountFC   RW   SideRegiSmrOftFailFaultCountFC   RW   SideRegiSmrOftFailFaultCountFC   SideRegiSmrOftFailFaultCountFC   SideRegiSmrOftFailFaultCountFC   RW   SideRegiSmrOftFailFaultCountFC   RW   SideRegiSmrOftFailFC   NVMFaultCounter   ShortNatural   No   Fault Counter:12-260   1.813   00:   Septical Register   SideRegiSmrOftFailFaultCountFC   ShortNatural   No   Fault Counter:12-260   1.813   00:   Septical Register   ShortNatural   No   ShortNatural   No   Fault Counter:12-261   1.521   00:   ShortNatural   No									
Fault Counter 12-246   BookletStaplerFailCountFC   RW   BookletStaplerFailCountFC   RW   BookletStaplerFailCountFC   RW   BookletStaplerFailCountFC   RW   SideRegiSnr0ffFailFaultCountFC   RW   SideRegiSnr0ffFailFC   RW   SideRegiSnr			RW	BookletKnifeHomeSnrOnFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-243-	1.521
BookletStaplerFailCountFC  604-198 Fault Counter 12-247. SideRegiSnrOffFailFaultCountFC  604-198 Fault Counter 12-247. SideRegiSnrOffFailFaultCountFC  604-199 Fault Counter 12-247. SideRegiSnrOffFailFaultCountFC  604-199 Fault Counter 12-240. EjectClampHomeSnrOnFailFaultCountFC  604-199 Fault Counter 12-260. EjectClampHomeSnrOnFailFaultCountFC  604-200 Fault Counter 12-261: BookletKnifeFoldingSnrFailFaultCountFC  604-201 Fault Counter 12-261: BookletKnifeFoldingSnrFailFaultCountFC  604-202 Fault Counter 12-263: RearTsmperHomeSnrOnFailFaultCountFC  604-203 Fault Counter 12-263: RearTsmperHomeSnrOnFailFaultCountFC  604-204 Fault Counter 12-264: BookletCnripeFoldingSnrFailFaultCountFC  604-205 Fault Counter 12-264: BookletDrawerBrokenFailFaultCountFC  604-206 Fault Counter 12-264: BookletDrawerBrokenFailFaultCountFC  604-207 Fault Counter 12-264: BookletDrawerBrokenFailFaultCountFC  604-208 Fault Counter 12-264: BookletDrawerBrokenFailFaultCountFC  604-208 Fault Counter 12-265: BookletDrawerBrokenFailFaultCountFC  604-209 Fault Counter 12-265: BookletDrawerBrokenFailFaultCountFC  604-207 Fault Counter 12-265: BookletDrawerBrokenFailFaultCountFC  604-208 Fault Counter 12-265: BookletDrawerBrokenFailFaultCountFC  604-209 Fault Counter 12-265: BookletDrawerBrokenFailFaultCountFC  604-207 Fault Counter 12-265: BookletDrawerBrokenFailFaultCountFC  604-208 Fault Counter 12-265: BookletDrawerBrokenFailFaultCountFC  604-209 Fault Counter 12-265: BookletDrawerBrokenFailFaultCountFC  604-207 Fault Counter 12-265: BookletDrawerBrokenFailFaultCountFC  604-208 Fault Counter 12-265: BookletDrawerBrokenFailFaultCountFC  604-209 Fault Counter 12-265: BookletCompilerNoPaperSnrFailFaultCountFC  604-207 Fault Counter 12-270: BookletDrawerBrokenFailFaultCountFC  604-208 Fault Counter 12-270: BookletDrawerBrokenFailFaultCountFC  604-209 Fault Counter 12-270: BookletDrawerBrokenFailFaultCountFC  604-209 Fault Counter 12-270: BookletDrawerBrokenFailFaultCountFC  604-200 Fault Counter 12-270: BookletDrawerBrokenFailFaultCountFC  604-200			IDW.	D 11 101 1 1 1 10 11 1 1 1 1 1 1 1 1 1 1	ND (ME - HO		N.I.	00:	4.040
BookletStaplerFailCountrC	604-197		Rvv	BookletStaplerFallCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-246-	1.813
Booklet Natural   No   Fault Counter 12-247:   1.813		BookletStaplerFallCountrC						BookletStanlerFailCou	
Fault Counter 12-247-   1.813   SideRegiSm/OffFailFaultCountFC   NVMFaultCounter   ShortNatural   No   Fault Counter 12-247-   1.813								•	
SideRegiSmOffFailFaultCounter   2-261	604-198	Fault Counter 12-247:	RW	SideRegiSnrOffFailFaultCountFC	NVMFaultCounter	shortNatural	No	_	1.813
EjectClampHomeSnrOnFailFaultCountFC    EjectClampHomeSnrOnFailFaultCountFC   EjectClampHomeSnrOnFailCountFC   EjectClampHomeSnrOnFailCoun				,				00:	
EjectClampHomeSnrC   Fault Counter 12-261:   RW   BookletKnifeFoldingSnrFailFC   NVMFaultCounter   ShortNatural   No   Fault Counter 12-261:   1.521   0.0:   BookletKnifeFoldingSnrFailFC   NVMFaultCounter   ShortNatural   No   Fault Counter 12-261:   1.521   0.0:   BookletKnifeFoldingSn   FailFaultCountFC   RW   RearTsmperHomeSnrOnFailFC   NVMFaultCounter   ShortNatural   No   Fault Counter 12-263:   RearTsmperHomeSnrOnFailFaultCountFC   RearTsmperHomeSnrOnFailFaultCountFC   RearTsmperHomeSnr   NVMFaultCounter   ShortNatural   No   Fault Counter 12-264:   RearTsmperHomeSnr   On-FailFaultCountFC   ShortNatural   No   Fault Counter 12-264:   SookletDrawerBrokenFailFaultCountFC   ShortNatural   No   Fault Counter 12-264:   SookletDrawerBrokenFailFaultCountFC   ShortNatural   No   Fault Counter 12-265:   SookletDrawerBrokenFailFaultCountFC   ShortNatural   No   Fault Counter 12-265:   SookletDrawerBrokenFailFaultCountFC   ShortNatural   No   Fault Counter 12-266:   SookletCounter   ShortNatural   No   SookletCounter   ShortNatural   ShortNatural   No   SookletCounter   ShortNatural	604-199		RW	EjectClampHomeSnrOnFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-260-	1.813
Fault Counter 12-261:   BookletKnifeFoldingSnrFailFaultCountFC   RW BookletKnifeFoldingSnrFailFC   NVMFaultCounter   ShortNatural   No   Fault Counter 12-261   1.521   00:   BookletKnifeFoldingSn   FailfaultCountFC   BookletKnifeFoldingSn   FailfaultCountFC   ShortNatural   No   Fault Counter 12-263   1.521   00:   RearTsmperHomeSnrOnFailFaultCountFC   RW RearTsmperHomeSnrOnFailFC   NVMFaultCounter   ShortNatural   No   Fault Counter 12-263   1.813   00:   RearTsmperHomeSnr OnFailFaultCountFC   RearTsmperHomeSnr OnFailFaultCountFC   RearTsmperHomeSnr OnFailFaultCountFC   ShortNatural   No   Fault Counter 12-264   1.521   00:   RearTsmperHomeSnr OnFailFaultCountFC   RW BookletDrawerBrokenFailFC   NVMFaultCounter   ShortNatural   No   Fault Counter 12-264   1.521   00:   BookletDrawerBrokenFailFaultCountFC   RW BookletKnifeHomeSnrOffFailFC   NVMFaultCounter   ShortNatural   No   Fault Counter 12-265   1.813   00:   RockletCompilerNoPaperSnrFailFaultCountFC   RW BookletCompilerNoPaperSnrFailFC   NVMFaultCounter   ShortNatural   No   Fault Counter 12-266   1.813   00:   BookletCompilerNoPaperSnrFailFaultCountFC   RW BookletCompilerNoPaperSnrFailFaultCounter   ShortNatural   No   Fault Counter 12-266   1.813   00:   BookletCompilerNoPaperSnrFailFaultCountFC   RW TopOffsetHomeSnrOnFailCountFC   NVMFaultCounter   ShortNatural   No   Fault Counter 12-266   1.813   00:   RW TopOffsetHomeSnrOnFailCountFC   NVMFaultCounter   ShortNatural   No   FaultCounter 12-270:   RW TopOffsetHomeSnrOnFailCountFC   NVMFaultCounter   ShortNatural   No   FaultCounter 12-270:   1.810   00:   NVMFaultCounter   ShortNatural   No   FaultCounter 12-270:   1.810   00:   NVMFaultCounter   ShortNatural   NVMFaultCounter		EjectClampHomeSnrOnFailFaultCountFC						00:	
Fault Counter 12-261: BookletKnifeFoldingSnrFailFaultCountFC  RW BookletKnifeFoldingSnrFailFC  RW RearTsmperHomeSnrOnFailFC  RW RearTsmperHomeSnrOnFailFC  RW RearTsmperHomeSnrOnFailFC  RW RearTsmperHomeSnrOnFailFC  RW RearTsmperHomeSnrOnFailFC  RW RearTsmperHomeSnrOnFailFC  RW BookletDrawerBrokenFailFC  R									
BookletKnifeFoldingSnrFailFaultCountFC    BookletKnifeFoldingSn   BookletKnifeFoldingSn   Failf   Fault Counter   12-263	604 200	Fault Counter 12 261:	DW.	BookletKnifeFoldingSnrFailEC	NV/MEaultCounter	shortNatural	No		1 521
BookletKnifeFoldingSn   FalltCounter 12-263:   RearTsmperHomeSnrOnFailFC   RearTsmperHomeSnrOnFailFC   RearTsmperHomeSnrOnFailFC   RearTsmperHomeSnrOnFailFC   RearTsmperHomeSnrOnFailFC   RearTsmperHomeSnrOnFailFC   RearTsmperHomeSnr   RearTsmpe	004-200		IXVV	Bookietkilliel oldingolili alli C	INVIVII auticountei	Siloitivaturai	INO		1.521
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RearTsmperHomeSnr   OnFailFaultCountFC   RW   BookletDrawerBrokenFailFC   NVMFaultCounter   ShortNatural   No   Fault Counter:12-264-   1.521   On-FailFaultCountFC   ShortNatural   No   Fault Counter:12-264-   1.521   On-FailFaultCountFC   ShortNatural   No   Fault Counter:12-264-   1.521   On-FailFaultCountFC   ShortNatural   ShortNatural   No   Fault Counter:12-265-   1.813   On-FailFaultCountFC   ShortNatural   No   Fault Counter:12-265-   1.813   On-FailFaultCountFC   ShortNatural   No   Fault Counter:12-265-   1.813   On-FailFaultCountFC   ShortNatural   ShortNatural   ShortNatural   No   Fault Counter:12-266-   1.813   On-FailFaultCountFC   ShortNatural   ShortNatu			RW	RearTsmperHomeSnrOnFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-263-	1.813
Fault Counter 12-264: BookletDrawerBrokenFailFaultCountFC  Fault Counter 12-264: BookletDrawerBrokenFailFaultCountFC  Fault Counter 12-265: BookletKnifeHomeSnrOffFailFC  BookletKnifeHomeSnrOffFailFC  Fault Counter 12-266: BookletCompilerNoPaperSnrFailFaultCountFC  Fault Counter 12-270: TopOffsetHomeSnrOnFailCountFC  NVMFaultCounter  ShortNatural No Fault Counter:12-270- Pault Co		RearTsmperHomeSnrOnFailFaultCountFC						00:	
Fault Counter 12-264: BookletDrawerBrokenFailFaultCountFC  RW BookletDrawerBrokenFailFC  RW BookletDrawerBrokenFailFC  RW BookletDrawerBrokenFailFC  RW BookletKnifeHomeSnrOffFailFC  RW BookletKnifeHomeSnrOffFailFC  RW BookletKnifeHomeSnrOffFailFC  RW BookletKnifeHomeSnrOffFailFC  RW BookletKnifeHomeSnrOffFailFC  RW BookletKnifeHomeSnrOffFailFC  RW BookletCompilerNoPaperSnrFailFC  RW Book									
BookletDrawerBrokenFailFaultCountFC  604-203 Fault Counter 12-265: BookletKnifeHomeSnrOffFailFC  RW BookletKnifeHomeSnrOffFailFC  RW BookletCompilerNoPaperSnrFailFC  RW Fault Counter 12-266- BookletCompilerNoPaperSnrFailFaultCountFC  Fault Counter 12-270- TopOffsetHomeSnrOnFailCountFC  RW TopOffsetHomeSnrOnFailCountFC	604 202	Foult Counter 12 264	DW	Packlet Drower Proken Fail CC	NIV/ME quitCounter	ab art Natural	No		4.504
BookletDrawerBrokenF ailFaultCountFC  604-203 Fault Counter 12-265: BookletKnifeHomeSnrOffFailFaultCountFC  604-204 Fault Counter 12-266: BookletCompilerNoPaperSnrFailFC  RW TopOffsetHomeSnrOnFailCountFC	004-202		RVV	BookietDrawerBrokenFallFC	INVIVIFAUILCOUNTEI	Shortivaturai	INO	nn.	1.521
Second Content of the Counter 12-265:   Second Counter 12-266:   Seco		BookietDrawerBrokerii aiii aultCouriti C						BookletDrawerBrokenF	
Fault Counter 12-265: BookletKnifeHomeSnrOffFailFaultCounter  Fault Counter 12-265: BookletKnifeHomeSnrOffFailFaultCounter  Fault Counter 12-266: BookletCompilerNoPaperSnrFailFaultCounter  Fault Counter 12-270: TopOffsetHomeSnrOnFailCountFC  RW BookletCompilerNoPaperSnrFailFC  NVMFaultCounter  ShortNatural  No Fault Counter:12-266- 00: BookletCompilerNoPaperSnrFailFaultCountFC  NVMFaultCounter  ShortNatural  No Fault Counter:12-270- 1.810 00:									
Fault Counter 12-266: BookletCompilerNoPaperSnrFailFaultCounter  Boo	604-203	Fault Counter 12-265:	RW	BookletKnifeHomeSnrOffFailFC	NVMFaultCounter	shortNatural	No		1.813
BookletCompilerNoPaperSnrFailFaultCountFC  htFC  604-205 Fault Counter 12-270: TopOffsetHomeSnrOnFailCountFC  RW TopOffsetHomeSnrOnFailCountFC  RW TopOffsetHomeSnrOnFailCountFC  NVMFaultCounter  NVMFaultCounter  ShortNatural No Fault Counter:12-270- 00:  00:  Fault Counter:12-270- 00:								00:	
ntFC   ntFC   BookletCompilerNoPap   erSnrFailFaultCountFC			RW	BookletCompilerNoPaperSnrFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-266-	1.813
Fault Counter 12-270:   RW   TopOffsetHomeSnrOnFailCountFC   NVMFaultCounter   ShortNatural   No   Fault Counter:12-270-   1.810   1		· · · · · · · · · · · · · · · · · · ·						00:	
604-205 Fault Counter 12-270: TopOffsetHomeSnrOnFailCountFC RW TopOffsetHomeSnrOnFailCountFC NVMFaultCounter shortNatural No Fault Counter:12-270- 1.810 00:		Intec							
TopOffsetHomeSnrOnFailCountFC 00:	604-205	Fault Counter 12-270:	RW	TopOffsetHomeSprOnFailCountFC	NVMFaultCounter	shortNatural	No		1 810
	304.200		1774		TAVIVII GGILOOGIILOI	Siloitivatalal		00:	
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FailCountFC							<u> </u>	·	

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604-205	Fault Counter 12-601: TopOffsetHomeSnrOnFailCountFC	RW	TopOffsetHomeSnrOnFailCountFC	NVMFaultCounter	shortNatural	No	00: TopOffsetHomeSnrOn	1.813	
							FailCountFC		
604-206	Fault Counter 12-271: TopOffsetHomeSnrOffFailCountFC	RW	TopOffsetHomeSnrOffFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-271- 00: TopOffsetHomeSnrOff FailCountFC	1.810	
604-206	Fault Counter 12-602: TopOffsetHomeSnrOffFailCountFC	RW	TopOffsetHomeSnrOffFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-602- 00: TopOffsetHomeSnrOff FailCountFC	1.813	
604-207	Fault Counter 12-282: EjectClampHomeSnrOffFailFaultCountFC	RW	EjectClampHomeSnrOffFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-282- 00: EjectClampHomeSnrO ffFailFaultCountFC	1.813	
604-208	Fault Counter 12-283: SetClampHomeSnrOnFailFaultCountFC	RW	SetClampHomeSnrOnFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-283- 00: SetClampHomeSnrOn FailFaultCountFC	1.813	
604-209	Fault Counter 12-284: SetClampHomeSnrOffFailFaultCountFC	RW	SetClampHomeSnrOffFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-284- 00: SetClampHomeSnrOff FailFaultCountFC	1.813	
604-210	Fault Counter 12-291: StapleFailCountFC	RW	StapleFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-291- 00: StapleFailCountFC	1.813	
604-211	Fault Counter 12-295: StaplerMovePositionSnrOnFailFaultCount FC	RW	StaplerMovePositionSnrOnFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-295- 00: StaplerMovePositionSn rOnFailFaultCountFC	1.813	
604-212	Fault Counter 12-296: StaplerMovePositionSnrOffFailFaultCount FC	RW	StaplerMovePositionSnrOffFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-296- 00: StaplerMovePositionSn rOffFailFaultCountFC	1.813	
604-213	Fault Counter 12-320: PunchHomeSnrOnFailFaultCountFC	RW	PunchHomeSnrOnFailFaultCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-320- 00: PunchHomeSnrOnFail FaultCountFC	1.813	
604-214	Fault Counter 12-321: PunchHomeSnrOffFailFaultCountFC	RW	PunchHomeSnrOffFailFaultCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-321- 00: PunchHomeSnrOffFail FaultCountFC	1.813	
	Fault Counter 12-322: PuncherMoveHomeSnrOffFailFaultCountF C	RW	PuncherMoveHomeSnrOffFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-322- 00: PuncherMoveHomeSnr OffFailFaultCountFC	1.813	
604-216	Fault Counter 12-323: PuncherMoveHomeSnrOnFailFaultCountF C	RW	PuncherMoveHomeSnrOnFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-323- 00: PuncherMoveHomeSnr OnFailFaultCountFC	1.813	

	I	11		T			T= 2	T T	
604-217	Fault Counter 12-330:	RW	DeculerHomeSnrOffFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-330-	1.521	!
	DeculerHomeSnrOffFailFaultCountFC						00:		!
							DeculerHomeSnrOffFa		!
							ilFaultCountFC		!
604 040	Fault Countain 10, 222	DW		NIV/NAC avoide Cavordan	a b a wtN l a tu u a l	Nie		4 504	
604-218	Fault Counter 12-332:	RW	DecurlerHomeSnrOnFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-332-	1.521	<u> </u>
	DecurlerHomeSnrOnFailFaultCountFC						00:		<u> </u>
							DecurlerHomeSnrOnF		<u> </u>
							ailFaultCountFC		!
604 210	Fault Counter 12-334:	D\//	FinisherDownLoadFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-334-	1.813	<del> </del>
004-219		IXVV	i illisherbownLoadi aliCoditti C	INVIVII auticountei	Siloitivaturai	INO	auit Couriter. 12-334-	1.013	!
	FinisherDownLoadFailCountFC						00:		<u> </u>
							FinisherDownLoadFail		<u> </u>
							CountFC		<u> </u>
604-220	SPARE ( was Fault Counter 12-335:	RW	SPARE 604-220	NVMFaultCounter	shortNatural	No	Fault Counter:12-335-	1.687	
001220	BookletSubCpuCommFailFaultCountFC)	' '	01 7 H (2 00 1 220	TVVIVII danocarnoi	onorti tatarar	110	00.	1	, , , , , , , , , , , , , , , , , , ,
	BookietSubCpuCommraiirauitCountrC)						00.		<u> </u>
							BookletSubCpuComm		, , , , , , , , , , , , , , , , , , ,
							FailFaultCountFC		<u> </u>
604-221	Fault Counter 13-902:	RW	PaperAtBookletCompileNoPaperSnF	NVMFaultCounter	shortNatural	No	Fault Counter:13-902-	1.159	
	PaperRemainAtBookletCompileNoPaperS		C				00:		<u> </u>
			C				Den an Denne sin At De aldet		<u> </u>
	nrFaultCountFC						PaperRemainAtBooklet	•	<u> </u>
							CompileNoPaperSnrFa		
604-222	Fault Counter 13-903:	RW	PaperAtBookletFolderRollExitSnFC	NVMFaultCounter	shortNatural	No	Fault Counter:13-903-	1.159	<u> </u>
	PaperRemainAtBookletFolderRollExitSnrF		·				00.		<u> </u>
	aultCountFC						PaperRemainAtBooklet		<u> </u>
							•	•	, , , , , , , , , , , , , , , , , , ,
							FolderRollExitSnrFault		
604-223	Fault Counter 42-313:	RW	RearCoolingFanFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:42-313-	1.159	!
	RearCoolingFanFailCountFC						00:		, , , , , , , , , , , , , , , , , , ,
							RearCoolingFanFailCo		<u> </u>
							untFC		!
004 004	FIt Ot 10 200:	DW	D	NIV /N AFT = 1.14C = 1.144 = 11	- l 1	NI-	Fault Counter:42-320-	1.813	
604-224	Fault Counter 42-320:	Rvv	DrumMotorYFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:42-320-	1.813	<u> </u>
	DrumMotorYFailCountFC						00:		<u> </u>
							DrumMotorYFailCount		<u> </u>
							FC		!
604 225	Fault Counter 42-321:	D\M	DrumMotorMFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:42-321-	1 7/13	
004-223		lixvv	Didiffiviolofivii alicodifii C	INVIVII auticountei	Siloitivaturai	INO	r aut Counter.42-321-	1.743	<u> </u>
	DrumMotorMFailCountFC						00:		<u> </u>
							DrumMotorMFailCount		, , , , , , , , , , , , , , , , , , ,
							FC		!
604-226	Fault Counter 42-322:	RW	DrumMotorCFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:42-322-	1.743	
001220	DrumMotorCFailCountFC	' '		TVVIVII danocarnoi	onor a tatarar		00:		<u> </u>
	Drumwotorcrancountro						00.		<u> </u>
							DrumMotorCFailCount		<u> </u>
							FC		
604-227	Fault Counter 42-323:	RW	DrumMotorKFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:42-323-	1.813	
	DrumMotorKFailCountFC	[]					00.		
	Brannwotorn anodanti o						Driver Mataril/FailCavent		<u> </u>
							DrumMotorKFailCount		<u> </u>
							FC		
604-228	Fault Counter 42-324:	RW	IBTDriveMotorFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:42-324-	1.813	
	IBTDriveMotorFailCountFC						00:		
							IBTDriveMotorFailCou		
									<u> </u>
				1.00-00-00-00-00-00-00-00-00-00-00-00-00-		ļ	ntFC	1.2/-	
604-229	Fault Counter 42-325:	RW	MainMotorFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:42-325-	1.813	· · · · · · · · · · · · · · · · · · ·
	MainMotorFailCountFC						00:		
							MainMotorFailCountFC		

604-230	Fault Counter 42-326:	RW	BeltHomePositionTooLongCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:42-326-	1.159	
	BeltHomePositionTooLongCountFC				0.131414444		00:		
							BeltHomePositionTooL		
							ongCountFC		
604-231	Fault Counter 42-327:	RW	BeltPositionFailCountFC	NVMFaultCounter	shortNatural	No		1.159	
	BeltPositionFailCountFC						00:		
							BeltPositionFailCountF		
							С		
604-232	Fault Counter 42-328: BeltEdgeSnrFailFC	RW	BeltEdgeSnrFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:42-328-	1.159	
							00: BeltEdgeSnrFailFC		
604-233	Fault Counter 42-330:	DW	FuserExhaustFanFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:42-330-	1.813	
004-233	FuserExhaustFanFailCountFC	INVV	FuserExtraustranicountro	INVIVIFAUILCOUNTEI	SHOLLINALUIAI	NO	nn·	1.013	
	l de Extiadeti atti allocutti o						FuserExhaustFanFailC		
							ountFC		
604-234	Fault Counter 42-331:	RW	BlowerMotorFanFailCountFC	NVMFaultCounter	shortNatural	No		1.159	
	BlowerMotorFanFailCountFC						00:		
							BlowerMotorFanFailCo		
							untFC		
604-235	Fault Counter 42-600:	RW	BeltWalkFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:42-600-	1.159	
	BeltWalkFailCountFC						00:		
							BeltWalkFailCountFC		
604 236	Fault Counter 42-601:	DW	BeltEdgeLearnFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:42-601-	1.159	
004-230	BeltEdgeLearnFailCountFC	IXVV	BeitEugeLearni alloounti C	INVIVII auticountei	SHOITINATUIAI	INO	00.	1.139	
	Deiteugelearm anoounti o						BeltEdgeLearnFailCou		
604-237	Fault Counter 42-602:	RW	BeltEdgeCheckFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:42-602-	1.159	
	BeltEdgeCheckFailCountFC		3				00:		
							BeltEdgeCheckFailCou		
							ntFC		
604-238	Fault Counter 42-603:	RW	SuctionFilterLifeFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:42-603-	1.159	
	SuctionFilterLifeFailCountFC						00:		
							SuctionFilterLifeFailCo		
604-239	Fault Counter 45-310:	DW	ImageReadyNgCountFC	NVMFaultCounter	shortNatural	No	untFC Fault Counter:45-310-	1.813	
004-239	ImageReadyNgCountFC	INVV	IlliageNeadyNgCountrC	INVIVIFAUILCOUTILE	SHOLLINALUIAI	NO	00:	1.013	
	Imager readying Country C						ImageReadyNgCountF		
							C		
604-240	Fault Counter 45-311:	RW	ControllerCommFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:45-311-	1.813	
	ControllerCommFailCountFC						00:		
	Fault Counter 47-210:		OctOffsetFailCountFC	NVMFaultCounter	shortNatural			1.153	
604-241	Fault Counter 12-701:	RW	OctOffsetFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-701-	1.521	
	OctOffsetFailCountFC						00:		
							OutputFinisherCommF		
604.040	Foult Counter 47 240:	DW	OutputEinioherCommE=!!C=:::=+EC	NI\/MEquitCourter	ah arthi atomal	No	ailCountFC	1 012	
004-242	Fault Counter 47-310: OutputFinisherCommFailCountFC	IKW	OutputFinisherCommFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:47-310-	1.813	
	Outputi-IIIISHELOOHIIIIFAIIOOUHEC						OutputFinisherCommF		
							ailCountFC		
604-243	Fault Counter 61-600:	RW	RosDataYFailCountFC	NVMFaultCounter	shortNatural	No		1.766	
1	RosDataYFailCountFC				2		00:		
							RosDataYFailCountFC		

604.044	Fault Country C4 CO4:	DW DeeDeteM	TailCauntCC	NIV/ME avide aviatar	labartNlatural	INIa	Fault Countain 64 604	14.700	
604-244	Fault Counter 61-601:	RW RosDataMI	rallCountrC	NVMFaultCounter	shortNatural	No	Fault Counter:61-601-	1.700	
	RosDataYFailCountFC						00:		
							RosDataMFailCountFC		
604-245	Fault Counter 61-602:	RW RosDataCF	FailCountEC	NVMFaultCounter	shortNatural	No	Fault Counter:61-602-	1.766	
004-240	RosDataCFailCountFC	TW Trosbataon		14 VIVII dultocultei	Shortivatural	140	00.	1.700	
	1103BataOf allocarti O						RosDataCFailCountFC		
							103BataOf allocartif O		
604-246	Fault Counter 61-603:	RW RosDataKF	FailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:61-603-	1.159	
	RosDataKFailCountFC						00:		
							RosDataKFailCountFC		
604-247	Fault Counter 61-310:	RW Clapper1Fa	ailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:61-310-	1.159	
	Clapper1FailCountFC						00:		
							Clapper1FailCountFC		
604-248	Fault Counter 61-311:	RW Clapper2Fa	ailCountEC	NVMFaultCounter	shortNatural	No	Fault Counter:61-311-	1 150	
004-240	Clapper2FailCountFC	KW Clappel2F3	allCourlifC	NVIVIFAUICOUNTEI	SHOLLINALUIAI	INO	nn.	1.139	
	Ciapperzi alicounti C						Clapper2FailCountFC		
							Clapper21 all Counti C		
604-249	Fault Counter 61-313:	RW SOSLongN	1FailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:61-313-	1.159	
	SOSLongMFailCountFC			-			00:		
							SOSLongMFailCountF		
							c		
604-250	Fault Counter 61-315:	RW SOSLongK	FailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:61-315-	1.159	
	SOSLongKFailCountFC						00:		
							SOSLongKFailCountF		
604-251	Fault Counter 61-317:	RW SOSShortN	//FailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:61-317-	1.159	
	SOSShortMFailCountFC						00:		
							SOSShortMFailCountF		
604.252	Foult Counter 61, 210:	RW SOSShorth	(FailCountFC	NIV/ME quitCounter	ob ort Notural	No	C Foult Counter 61 310	1 150	
004-252	Fault Counter 61-319: SOSShortKFailCountFC	RVV SUSSHORE	KrallCountrC	NVMFaultCounter	shortNatural	No	Fault Counter:61-319-	1.159	
	30331101tkFallCountrC						SOSShortKFailCountF		
							C.		
604-253	Fault Counter 61-320:	RW PolygonMo	tor1FailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:61-320-	1.159	
00 1 200	PolygonMotor1FailCountFC	Title I siygenine	tor ir anocaria o	Trrim danceding.	or ior ii vatarar		00:		
	l sygenmeter in amounts						PolygonMotor1FailCou		
							ntFC		
604-254	Fault Counter 61-321:	RW PolygonMo	tor2FailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:61-321-	1.159	
	PolygonMotor2FailCountFC						00:		
							PolygonMotor2FailCou		
							ntFC		
604-255	Fault Counter 61-323:	RW NoSOSMF	ailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:61-323-	1.159	
	NoSOSMFailCountFC						00:		
							NoSOSMFailCountFC		
604.256	Fault Counter 61-325:	RW NoSOSKF	ailCountEC	NV/MEquitCounter	shortNatural	No	Fault Counter:61-325-	1 150	
004-250	NoSOSKFailCountFC	RVV INOSUSKE	allCountre	NVMFaultCounter	Shortivatural	INO		1.159	
	INOSOSICEAIIGUUITEE						00: NoSOSKFailCountFC		
							INCOCORT AIRCOUNTER		
						I			

604-257	Fault Counter 61-326:	RW ROSConnectYFailCountFC	NVMFaultCounter	shortNatural No	6 Fault Counter	61-326- 1.766	
004-237	ROSConnectYFailCountFC	100000meet 11 alloounti C	NVIVII aditoddritei	31101tivaturai 110		01-320-   1.700	
	10000illect i allouditi o				ROSConnect\	/FailCou	
					ntFC	ralicou	
					Inter-C		
604.050	Foult Country C4 207	DW DOCCompostMEsilCountEC	NIV /NAC avult Cavuntar	abantNatural Ni	Fault Causter	64 207 4 766	
604-258	Fault Counter 61-327:	RW ROSConnectMFailCountFC	NVMFaultCounter	shortNatural No	io Fault Counter:	61-327- 1.766	
	ROSConnectMFailCountFC				00:		
					ROSConnect		
604-259	Fault Counter 61-328:	RW ROSConnectCFailCountFC	NVMFaultCounter	shortNatural No		61-328- 1.766	
	ROSConnectCFailCountFC			1	00:		
					ROSConnectO		
604-260	Fault Counter 61-329:	RW ROSConnectKFailCountFC	NVMFaultCounter	shortNatural No	o Fault Counter:	61-329- 1.159	
	ROSConnectKFailCountFC				00:		
					ROSConnecth	(FailCou	
604-261	Fault Counter 61-334:	RW ROSYMVddFailCountFC	NVMFaultCounter	shortNatural No			
	ROSYMVddFailCountFC		1		00:		
604-262	Fault Counter 61-335:	RW ROSCKVddFailCountFC	NVMFaultCounter	shortNatural No	o Fault Counter:	61-335- 1.159	<del>                                     </del>
337 202	ROSCKVddFailCountFC	The solved anodality of	Transcounter	January IV	00:	1.109	
1	TOOSITY dat alloodiffit O				ROSCKVddFa	oilCountE	
604 262	Fault Counter 61-336:	RW ROSYMVddDownFailCountFC	NVMFaultCounter	shortNatural No		61-336- 1.159	
004-203		IVA IVOS IMAGOMILEGIO O INTERPORTA INTERPORT	INVIVICAUITOUITEI	SHOLINGIUIAI IN		01-330-  1.139	
	ROSYMVddDownFailCountFC				UU:	E-:IO	
					ROSYMVddD	ownFallC	
-			1, 1, 2, 2, 2, 2	1	ountFC		
604-264	Fault Counter 61-337:	RW ROSCKVddDownFailCountFC	NVMFaultCounter	shortNatural No		61-337- 1.159	
	ROSCKVddDownFailCountFC			1	00:		
				1	ROSCKVddDo	ownFailC	
					ountFC		
-					•		

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604-265	Fault Counter 61-338: SOSStopMFailCountFC	RW	SOSStopMFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:61-338- 00: SOSStopMFailCountF	1.159
604-266	Fault Counter 61-339: SOSStopKFailCountFC	RW	SOSStopKFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:61-339- 00: SOSStopKFailCountF C	1.159
604-267	Fault Counter 61-604: LDAlarmYCountFC	RW	LDAlarmYCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:61-604- 00: LDAlarmYCountFC	1.766
604-268	Fault Counter 61-605: LDAlarmMCountFC	RW	LDAlarmMCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:61-605- 00: LDAlarmMCountFC	1.766
604-269	Fault Counter 61-606: LDAlarmCCountFC	RW	LDAlarmCCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:61-606- 00: LDAlarmCCountFC	1.766
604-270	Fault Counter 61-607: LDAlarmKCountFC	RW	LDAlarmKCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:61-607- 00: LDAlarmKCountFC	1.159
604-271	Fault Counter 71-101: Tray1MisfeedJamCountFC	RW	Tray1MisfeedJamCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:71-101- 00: Tray1MisfeedJamCoun	1.159
604-272	Fault Counter 71-104: Tray1PreRegiSnrOnJamCountFC	RW	Tray1PreRegiSnrOnJamCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:71-104- 00:	1.159
604-273	Fault Counter 71-105: Tray1RegiSnrOnJamCountFC	RW	Tray1RegiSnrOnJamCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:71-105- 00: Tray1RegiSnrOnJamC ountFC	1.813
604-274	Fault Counter 71-210: Tray1LiftUpFailCountFC	RW	Tray1LiftUpFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:71-210- 00: Tray1LiftUpFailCountF	1.813
604-275	Fault Counter 72-101:	RW	Tray2MisfeedJamCountFC	NVMFaultCounter	shortNatural	No		1.810
	Fault Counter 72-102: Tray2FeedOutSnr1OnJamCountFC		Tray2FeedOutSnr1OnJamCountFC		shortNatural		Fault Counter:72-102- 00: Tray2FeedOutSnr1OnJ	
604-277	Fault Counter 72-104:	RW	Tray2PreRegiSnrOnJamCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:72-104-	1.159
	Fault Counter 72-105:			NVMFaultCounter	shortNatural	No		1.159
604-279	Fault Counter 72-210: Tray2LiftUpFailCountFC	RW	Tray2LiftUpFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:72-210- 00: Tray2LiftUpFailCountF C	1.813
604-280	Fault Counter 73-101:	RW	Tray3MisfeedJamCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:73-101-	1.813
	Fault Counter 73-102:		,	NVMFaultCounter		No		1.813
	Fault Counter 73-104:		,	NVMFaultCounter		No	Fault Counter:73-104-	1.159
	Fault Counter 73-105:		, ,	NVMFaultCounter		No	Fault Counter:73-105-	1.159
	Fault Counter 73-210:			NVMFaultCounter		No	Fault Counter:73-210-	1.813
	Fault Counter 74-101:			NVMFaultCounter		No	Fault Counter:74-101-	1.813
	Fault Counter 74-102:		Tray4FeedOutSnr1OnJamCountFC			No	Fault Counter:74-102-	1.159
604-287	Fault Counter 74-103:	RW	Tray4FeedOutSnr3OnJamCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:74-103-	1.159
		<b>I</b>	•	•	•	•	•	

604-288	Fault Counter 74-104:	IDW/	Tray4PreRegiSnrOnJamCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:74-104-	1 150	
004-200		KVV	Tray4FreRegioniOnJamCountre	INVIVIFAUICOUNIEI	SHOLLINALUIAI	INO	Pauli Courilei.74-104-	1.159	
	Tray4PreRegiSnrOnJamCountFC						00: TransADranDaniCranOralla		
							Tray4PreRegiSnrOnJa mCountFC		
604-289	Fault Counter 74-105:	RW	Tray4RegiSnrOnJamCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:74-105-	1.159	
004-203	Tray4RegiSnrOnJamCountFC	1744	Tray+regioni Ondaniodanii O	INVIVII aditocultei	Shortivatarar		100-	1.100	
	Tray+rragioni ondaniodanti o						Tray4RegiSnrOnJamC		
							ountFC		
604-290	Fault Counter 74-210:	RW	Tray4LiftUpFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:74-210-	1.813	
	Tray4LiftUpFailCountFC						00:		
							Tray4LiftUpFailCountF		
604-291	Fault Counter 75-100:	D\A/	MSIMisfeedJamCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:75-100-	1.813	
	Fault Counter 75-100:		MSIPreRegiSnrOnJamCountFC	NVMFaultCounter		No	Fault Counter:75-109-	1.159	
	Fault Counter 75-105:		MSIRegiSnrOnJamCountFC	NVMFaultCounter		No	Fault Counter:75-135-	1.813	
604-294	Fault Counter 75-210:		MSILiftUpFailCountFC	NVMFaultCounter		No	Fault Counter:75-210-	1.159	
004-234	MSILiftUpFailCountFC	1744	WolEntopi anocunti o	14VIVII aditOodiftei	Shortivatarar		00.	1.100	
604-295	Fault Counter 75-211:	RW	MSILiftDownFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:75-211-	1.159	
	Fault Counter 77-103:		FuserExitSnrOffJamStraightFC	NVMFaultCounter		No	Fault Counter:77-103-	1.159	
	FuserExitSnrOffJamStraightCountFC		·g				00:		
							FuserExitSnrOffJamStr		
							aightCountFC		
604-297	Fault Counter 77-106:	RW	FuserExitSnrOnJamCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:77-106-	1.159	
	FuserExitSnrOnJamCountFC						00:		
							FuserExitSnrOnJamCo		
							untFC		
604-298	Fault Counter 77-107:	RW	FuserExitSnrOffJamInvertCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:77-107-	1.159	
004-230	FuserExitSnrOffJamInvertCountFC	1744	T decreation on damin vertocular o	INVIVII aditocultei	Shortivatarar		100.	1.100	
	T doct Exiterii Ondamii vertoodiiti O						FuserExitSnrOffJamInv		
							ertCountFC		
604-299	Fault Counter 77-109:	RW	IOTExitSnrOnJamStraightCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:77-109-	1.813	
	IOTExitSnrOnJamStraightCountFC						00:		
							IOTExitSnrOnJamStrai		
							ghtCountFC		
604-300	Fault Counter 77-111:	RW	IOTExitSnrOnJamInvertCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:77-111-	1 159	
	IOTExitSnrOnJamInvertCountFC			aditodinto	55144.44.41		00:		
							IOTExitSnrOnJamInver		
							tCountFC		
604-301	Fault Counter 77-113:	D/V/	IOTExitSnrOffJamStraightCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:77-113-	1 159	
100-1-001	IOTExitSnrOffJamStraightCountFC	I NVV		INVIVII AUILOUUIILEI	Shorthatulal		000 1000 1000 1000 1000 1000 1000 1000	1.100	
	TO I Extra mondamonal grito out in O						IOTExitSnrOffJamStrai		
							ghtCountFC		
							9.11.0041111		

604-302	Fault Counter 77-115:	RW	IOTExitSnrOffJamInvertCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:77-115-	1.159	
	IOTExitSnrOffJamInvertCountFC						00:		
							IOTExitSnrOffJamInver		
							tCountFC		
604-303	Fault Counter 77-118:	RW	PreRegiSnrOnDuplexJamCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:77-118-	1.159	
	Fault Counter 77-120:		Post2ndBTRSnrOnJamCountFC	NVMFaultCounter		No	Fault Counter:77-120-	1.159	
	Post2ndBTRSnrOnJamCountFC						00:		
							Post2ndBTRSnrOnJa		
204.005	F 11.0 1 77.400	I D.W.	D :0 0 D   1 0 150	N. / A / E / ( )		<b>.</b>	mCountFC	4.450	
604-305	Fault Counter 77-123: RegiSnrOnDuplexJamCountFC	RW	RegiSnrOnDuplexJamCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:77-123-	1.159	
604-306	Fault Counter 77-129:	RW	DuplexInSnrOnJamCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:77-129-	1.159	
	Fault Counter 77-130:		DuplexOutSnrOnJamCountFC	NVMFaultCounter		No		1.813	
	DuplexOutSnrOnJamCountFC						00:		
	·						DuplexOutSnrOnJamC		
604-308	Fault Counter 77-312:	RW	FeederCommFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:77-312-	1.813	
004.000	FeederCommFailCountFC	DW	10704 (5.1	NIV /N /F		N.L.	00:	4.450	
604-309	Fault Counter 77-909: IOTStaticJamCountFC	Rvv	IOTStaticJamCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:77-909-	1.159	
604-310	Fault Counter 78-100:	RW	HCF1PreRegiSnrOnJamCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:78-100-	1.159	
004 010	HCF1PreRegiSnrOnJamCountFC	1777	There is reneglerice incum each in eac	TVVIVII dallocaritor	Shortivatarar	140	00:	1.100	
604-311	Fault Counter 78-101:	RW	HCF1FeedOutSnr1OnJamCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:78-101-	1.159	
	HCF1FeedOutSnr1OnJamCountFC						00:		
							HCF1FeedOutSnr1On		
604-312	Fault Counter 78-102:	RW	HCF1RegiSnrOnJamCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:78-102-	1.159	
604 212	HCF1RegiSnrOnJamCountFC Fault Counter 78-151:	DW	HCF1FeedOutSnrOnJamCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:78-151-	1.813	
004-313	HCF1FeedOutSnrOnJamCountFC	Kvv		INVIVIFAUILCOUTILET	Shorthaturai	INO	nn·	1.013	
	The H code die H chical hours countil o						HCF1FeedOutSnrOnJ		
604-314	Fault Counter 78-250:	RW	HCF1TrayLiftUpFailCountFC	NVMFaultCounter	shortNatural	No		1.813	
	HCF1TrayLiftUpFailCountFC						00:		
604-315	Fault Counter 78-901:	RW	HCF1FeedOutSnrStaticJamFC	NVMFaultCounter	shortNatural	No		1.813	
	HCF1FeedOutSnrStaticJamFC						00:		
604-316	Fault Counter 89-600:	DW	RCSampleLateralFailA1CountFC	NVMFaultCounter	shortNatural	No	HCF1FeedOutSnrStati Fault Counter:89-600-	1.813	
004-310	RCSampleLateralFailA1CountFC		TroodinpleLaterali aliA roodinii o	INVIVII aditCodifici	Shortivatural	140	00·	1.013	
							RCSampleLateralFailA		
604-317	Fault Counter 89-601:	RW	RCSampleBlockFailA1InCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:89-601-	1.813	
	RCSampleBlockFailA1InCountFC						00:		
							RCSampleBlockFailA1I		
604 249	Fault Counter 89-602:	DW	RCSampleBlockFailA1CntCountFC	NVMFaultCounter	shortNatural	No	nCountFC Fault Counter:89-602-	1.159	
004-310	RCSampleBlockFailA1CntCountFC	KVV	RCSampleBlockFallATChtCountFC	INVIVIFAUILCOUTILEI	Shortivaturai	INO	nn·	1.159	
604-319	Fault Counter 89-603:	RW	RCSampleBlockFailA1OutCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:89-603-	1.813	
	RCSampleBlockFailA1OutCountFC						00:		
604-320	Fault Counter 89-604:	RW	RCSampleBlockFailB1InCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:89-604-	1.813	
	RCSampleBlockFailB1InCountFC						00:		
604-321	Fault Counter 89-605:	RW	RCSampleBlockFailB1CntCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:89-605-	1.159	
604 322	RCSampleBlockFailB1CntCountFC Fault Counter 89-606:	DIVI	RCSampleBlockFailB1OutCountFC	NVMFaultCounter	shortNatural	No	00: Fault Counter:89-606-	1.813	
004-322	RCSampleBlockFailB1OutCountFC	IZAA		IN VIVIE AUILOUITIEI	ราบเทลเนเสเ	INU	00:	1.013	
<u> </u>	r to campioblooki alib routoouriti o	L	I .	L	<u> </u>	I.	<sub>1</sub> 00.		

604 202	Fault Counter 89-607:	IDW.	DCCommisDissisDairCountCC	INIVATE CONTACT	labantNlatural	INIa	Fault Caustania 607	4.040
604-323		KVV	RCSampleBlockFailB2InCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:89-607-	1.813
	RCSampleBlockFailB2InCountFC						00:	
							RCSampleBlockFailB2I	
604-324	Fault Counter 89-608:	RW	RCSampleBlockFailB2CntCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:89-608-	1.159
	RCSampleBlockFailB2CntCountFC						00:	
							RCSampleBlockFailB2	
604-325	Fault Counter 89-609:	RW	RCSampleBlockFailB2OutCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:89-609-	1.813
	RCSampleBlockFailB2OutCountFC		•				00:	
604-326	Fault Counter 89-610:	RW	RCSampleBlockFailB3InCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:89-610-	1.813
004 020	RCSampleBlockFailB3InCountFC		Trocampioblocki diiboiiroddiii o	144 Wil dallocaritor	Shortivatarar	110	nn:	1.010
	1100ampleblocki alibomoduliti C						RCSampleBlockFailB3I	
004 007	FIt Ot 00 C44.	DIM	DOC	NI) /A 45 140	- I +N I - + I	NI-		4.450
604-327	Fault Counter 89-611:	Rvv	RCSampleBlockFailB3CntCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:89-611-	1.159
	RCSampleBlockFailB3CntCountFC						00:	
							RCSampleBlockFailB3	
							CntCountFC	
604-328	Fault Counter 89-612:	RW	RCSampleBlockFailB3OutCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:89-612-	1.813
	RCSampleBlockFailB3OutCountFC						00:	
							RCSampleBlockFailB3	
604-329	Fault Counter 89-613:	RW	RCSampleBlockFailB4InCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:89-613-	1.813
	RCSampleBlockFailB4InCountFC						00:	
	·						RCSampleBlockFailB4I	
604-330	Fault Counter 89-614:	RW	RCSampleBlockFailB4CntCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:89-614-	1.159
	RCSampleBlockFailB4CntCountFC		TreedinpleBlesin and remesant s		onor in tataran	10	00.	
	Trocampioblooki alibaolita o						RCSampleBlockFailB4	
							CntCountFC	
004.004	F It O t 00 045	DIA	D00   D1	NIV /A AF TO LICE TO STATE OF THE STATE OF T		N.		1.040
604-331	Fault Counter 89-615:	RW	RCSampleBlockFailB4OutCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:89-615-	1.813
	RCSampleBlockFailB4OutCountFC						00:	
							RCSampleBlockFailB4	
							OutCountFC	
604-332	Fault Counter 89-616:	RW	RCDataOverFlowFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:89-616-	1.813
	RCDataOverFlowFailCountFC						00:	
							RCDataOverFlowFailC	
							ountFC	
604-333	Fault Counter 89-617:	RW	RCDataOverRangeFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:89-617-	1.813
	RCDataOverRangeFailCountFC						00.	
	To be a series of the series						RCDataOverRangeFail	
							CountFC	
604 334	Fault Counter 91-311:	DW	BCRCCCleanerMotorFailCountFC	NVMFaultCounter	shortNatural	No		1.159
004-334	BCRCCCleanerMotorFailCountFC	IXVV	BONGGGIEARIERWOLORI AIIGGGIRLI G	INVIVII aditCodriter	SHOLLNALUIAI	INO	no.	1.139
	BCRCCClearler Motor Fall Countre						00.	
224 225		D144	0011 5 1 5 10 150	100		1	BCRCCCleanerMotorF	1.150
604-335	Fault Counter 91-312:	RW	CCHvpsBrokenFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:91-312-	1.159
	CCHvpsBrokenFailCountFC						00:	
							CCHvpsBrokenFailCou	
	Fault Counter 91-313:		CrumAsicCommFailCountFC	NVMFaultCounter		No	Fault Counter:91-313-	1.813
	Fault Counter 91-320:		CCWireCutFailCountFC	NVMFaultCounter		No	Fault Counter:91-320-	1.159
	Fault Counter 91-914:		DrumKCrumCommFailCountFC	NVMFaultCounter		No	Fault Counter:91-914-	1.813
604-339	Fault Counter 91-917:	RW	DrumYCrumCommFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:91-917-	1.813
	DrumYCrumCommFailCountFC						00:	
604-340	Fault Counter 91-918:	RW	DrumMCrumCommFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:91-918-	1.813
604-341	Fault Counter 91-919:	RW	DrumCCrumCommFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:91-919-	1.813
	Fault Counter 92-649:		ADCShutterOpenFailCountFC	NVMFaultCounter		No	Fault Counter:92-649-	1.813
	ADCShutterOpenFailCountFC		· ·				00:	
							ADCShutterOpenFailC	
							- · · · ·	
604-343	Fault Counter 92-650:	RW	ADCShutterCloseFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:92-650-	1.813

004.044	I	DW	AD00	NIV /NAT ILO L	. 1 4 N 1 . 4 1	INT.	E	14 040
	Fault Counter 92-651:			NVMFaultCounter		No		1.813
	Fault Counter 92-652:			NVMFaultCounter		No	Fault Counter:92-652-	1.159
	Fault Counter 92-653:		·	NVMFaultCounter		No	Fault Counter:92-653-	1.766
	Fault Counter 92-654:		·	NVMFaultCounter		No	Fault Counter:92-654-	1.766
	Fault Counter 92-655:			NVMFaultCounter		No	Fault Counter:92-655-	1.766
	Fault Counter 92-656:			NVMFaultCounter		No	Fault Counter:92-656-	1.159
	Fault Counter 92-657:	_	ATCSensorYAmplitudeFailCountFC			No	Fault Counter:92-657-	1.766
	Fault Counter 92-658:		ATCSensorMAmplitudeFailCountFC			No	Fault Counter:92-658-	1.766
	Fault Counter 92-659:		ATCSensorCAmplitudeFailCountFC			No	Fault Counter:92-659-	1.766
	Fault Counter 92-660:	RW	ATCSensorKAmplitudeFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:92-660-	1.813
604-354	Fault Counter 92-661:		EnvironTemperatureSnrFailCountFC		shortNatural	No	Fault Counter:92-661-	1.813
604-355	Fault Counter 92-662:	RW	EnvironHumiditySensorFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:92-662-	1.813
604-356	Fault Counter 92-663:	RW	MiniSetupADCFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:92-663-	1.159
604-357	Fault Counter 94-320:	RW	FistBTRRetractFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:94-320-	1.159
604-358	Fault Counter 94-321:	RW	FirstBTRContactFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:94-321-	1.159
604-359	Fault Counter 94-322:	RW	SecondBTRRetractFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:94-322-	1.159
604-360	Fault Counter 94-323:	RW	SecondBTRContactFailCountFC	NVMFaultCounter	shortNatural	No	Fault Counter:94-323-	1.159
	Fault Counter 12-100:	_		NVMFaultCounter		No	Fault Counter:12-100-	1.521
	Fault Counter 12-101:			NVMFaultCounter		No	Fault Counter:12-101-	1.521
	Fault Counter 12-102:			NVMFaultCounter		No	Fault Counter:12-102-	1.521
	Fault Counter 12-103:			NVMFaultCounter		No	Fault Counter:12-103-	1.521
	Fault Counter 12-104:		DFinInterposeFeedOutSnrOnJamFC			No	Fault Counter:12-104-	1.521
	Fault Counter 12-108:			NVMFaultCounter		No	Fault Counter:12-108-	1.813
	Fault Counter 12-109:		DFinInterposerFeedOutSnrOffJamF			No	Fault Counter:12-109-	1.521
	Fault Counter 12-109.			NVMFaultCounter		No		1.813
	Fault Counter 12-117:			NVMFaultCounter		No	Fault Counter:12-118-	1.813
004-309		ILVV		NVIVIFAUICOUNTEI	SHOLLINALUIAI	NO	no.	1.013
	DFinFolderPathSnr2OnJamFC						DE: E . L L . D . # 0 00	
							DFinFolderPathSnr2O	
004.070	F	DW	DE: F-14D-#-020 1E0	NIV /NAT = 1.140 = 1.154 = 11	- l + N   - 4	NI-	nJamFC	4 040
604-370	Fault Counter 12-119: DFi	KVV	DFi FolderPathSnr3OnJamFC	NVMFaultCounter	shortNatural	No		1.813
	FolderPathSnr3OnJamFC						00: DFi	
							FolderPathSnr3OnJam	
							FC	
604-371	Fault Counter 12-120:	RW	DFinFolderPathSnr4OnJamFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-120-	1.813
	DFinFolderPathSnr4OnJamFC						00:	
							DFinFolderPathSnr4O	
							nJamFC	
604-372	Fault Counter 12-141:	RW	DFinBufferPathSnrOffJam FC	NVMFaultCounter	shortNatural	No	Fault Counter:12-141-	1.521
	DFinBufferPathSnrOffJam FC						00:	
							DFinBufferPathSnrOffJ	
604-373	Fault Counter 12-159:	RW	DFinEjectSnrOnJamFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-159-	1.521
	DFinEjectSnrOnJamFC		•				00:	
	·						DFinEjectSnrOnJamF	
							lc ´	
604-374	Fault Counter 12-160:	RW	DFinEjectSnrOffJamFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-160-	1.521
	Fault Counter 12-214:			NVMFaultCounter		No		
	DFinEndWallHomeSnrOffFailFC						00:	
							DFinEndWallHomeSnr	
							OffFailFC	
604-376	Fault Counter 12-215:	RW	DFinEndWallOpenSnrOnFailFC	NVMFaultCounter	shortNatural	No		1.521
	DFinEndWallOpenSnrOnFailFC	` ` ` ` `	Di inchavaliopenoni oni alii o	TV WIT GUILOGUILLET	Siloi li valui ai		100.	
							DFinEndWallOpenSnr	
1							•	
1							OnFailFC	

604-377	Fault Counter 12-216: DFinEndWallHomeSnrOnFailFC	RW	DFinEndWallHomeSnrOnFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-216- 00: DFinEndWallHomeSnr OnFailFC	1.521	
604-378	Fault Counter 12-217: DFinEndWallOpenSnrOffFailFC	RW	DFinEndWallOpenSnrOffFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-217- 00: DFinEndWallOpenSnr OffFailFC	1.521	
604-379	Fault Counter 12-218: DFinShelfHomeSnrOnFailFC	RW	DFinShelfHomeSnrOnFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-218- 00: DFinShelfHomeSnrOn FailFC	1.521	
604-380	Fault Counter 12-219: DFinShelfHomeSnrOffFailFC	RW	DFinShelfHomeSnrOffFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-219- 00: DFinShelfHomeSnrOff FailFC	1.521	
604-381	Fault Counter 12-235: DFinStapleMoveHomeSnrOffFailFC	RW	DFinStapleMoveHomeSnrOffFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-235- 00: DFinStapleMoveHome SnrOffFailFC	1.521	
604-382	Fault Counter 12-236: DFinStapleMoveHomeSnrOnFailFC	RW	DFinStapleMoveHomeSnrOnFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-236- 00: DFinStapleMoveHome SnrOnFailFC	1.521	
604-383	Fault Counter 12-237: DFinStapleCenterPositionSnrOnFailFC	RW	DFinStapleCenterPositionSnrOnFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-237- 00: DFinStapleCenterPositi onSnrOnFailFC	1.521	
604-384	Fault Counter 12-238: DFinStapleCenterPositionSnrOffFailFC	RW	DFinStapleCenterPositionSnrOffFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-238- 00: DFinStapleCenterPositi onSnrOffFailFC	1.521	
604-385	Fault Counter 12-239: DFinSubPaddleHomeSnrOnFailFC	RW	DFinSubPaddleHomeSnrOnFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-239- 00: DFinSubPaddleHomeS nrOnFailFC	1.521	
604-386	Fault Counter 12-240: DFinSubPaddleHomeSnrOffFailFC	RW	DFinSubPaddleHomeSnrOffFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-240- 00: DFinSubPaddleHomeS nrOffFailFC	1.521	
604-387	Fault Counter 12-241: DFinBookletKnifeFoldingSnrFailFC	RW	DFinBookletKnifeFoldingSnrFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-241- 00: DFinBookletKnifeFoldi ngSnrFailFC	1.521	
604-388	Fault Counter 12-248: DFinCompileStackerTrayOffsetFailFC	RW	DFinCompileStackTrayOffsetFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-248- 00: DFinCompileStackerTr ayOffsetFailFC	1.521	
604-389	Fault Counter 12-250: DFinEndGuideMot1StartFailFC	RW	DFinEndGuideMot1StartFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-250- 00: DFinEndGuideMot1Sta rtFailFC	1.521	
604-390	Fault Counter 12-251: DFinEndGuideMot2StartFailFC	RW	DFinEndGuideMot2StartFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-251- 00: DFinEndGuideMot2Sta	1.521	

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604-391	Fault Counter 12-252: DFinEndGuideMot1HomeFailFC	RW	DFinEndGuideMot1HomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-252- 00: DFinEndGuideMot1Ho meFailFC	1.521	
604-392	Fault Counter 12-253: DFinEndGuideMot2HomeFailFC	RW	DFinEndGuideMot2HomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-253- 00:	1.521	
604-393	Fault Counter 12-254: DFinEnvelopeFolderTrayBrokenFC	RW	DFinEnvelopeFolderTrayBrokenFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-254- 00: DFinEnvelopeFolderTr ayBrokenFC	1.813	
604-394	Fault Counter 12-255: DFinInterposerTrayUpFailFC	RW	DFinInterposerTrayUpFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-255- 00: DFinInterposerTrayUp FailFC	1.521	
604-395	Fault Counter 12-324: DFinSideRegiHomeSnrOffFailFC	RW	DFinSideRegiHomeSnrOffFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-324- 00: DFinSideRegiHomeSnr OffFailFC	1.521	
604-396	Fault Counter 12-325: DFinSideRegiHomeSnrOnFailFC	RW	DFinSideRegiHomeSnrOnFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-325- 00: DFinSideRegiHomeSnr OnFailFC	1.521	
604-402	KnownJamsinFinishingdevicesC31-KnownJamsinFinishingdevicesC31	ND		NVMBillingCounter	byteArray	No	Billing Counter:302: Known Jams in Finishing Devices	1.799	
604-403	AllsheetsfedfromTray1- AllsheetsfedfromTray1	ND		NVMDiagCounter	byteArray	No	Diagnostic Counter:59: All sheets fed from Tray #1	1.799	
604-404	AllsheetsfedfromTray2- AllsheetsfedfromTray2	ND		NVMDiagCounter	byteArray	No	Diagnostic Counter:60: All sheets fed from Tray #2	1.799	
604-405	AllsheetsfedfromTray3- AllsheetsfedfromTray3	ND		NVMDiagCounter	byteArray	No	Diagnostic Counter:61: All sheets fed from Tray #3	1.799	
604-406	AllsheetsfedfromTray4- AllsheetsfedfromTray4	ND		NVMDiagCounter	byteArray	No	Diagnostic Counter:62: All sheets fed from Tray #4	1.810	
604-407	AllsheetsfedfromBypassTray- AllsheetsfedfromBypassTray	ND		NVMDiagCounter	byteArray	No	Diagnostic Counter:41: All sheets fed from MSI		
604-408	TotalSheetsside1-TotalSheetsside1	ND		NVMDiagCounter	byteArray	No	Diagnostic Counter:184: Total Sheets (Side 1)	1.799	

604-409	TotalSheetsside1and2-		ND		NVMDiagCounter	byteArray	No	Diagnostic	1.799	
004-403	TotalSheetsside1and2				14VIVIDIAGOOGIIICI	bytoArray	140	Counter:185: Total	1.755	
	TotalStreetsside ratid2							Sheets (Side 1 and 2)		
								Sheets (Side 1 and 2)		
604-415	# of bins		RW	MSDefaultPrintBin	NVMSAKOSetting	shortNatural	No		1.260	
604-415	# of bins		RW	MSDefaultPrintBin	NVMSAKOSetting	shortNatural	No		1.416	
604-416	# of bins		RW	MSDefaultCopyBin	NVMSAKOSetting	shortNatural	No		1.260	
	III OI DIIIO		\	Wie Beraum Gepy Bill	TVVIVIO/ II COOKING	onor a tatarar	140		1.200	
604-416	# of hine		D\//	MSDefaultCopyBin	NVMSAKOSetting	shortNatural	No		1.416	
004-410	# Of Dills		IK V V	морегації Сорувії і	NVIVISAROSetting	SHOLLINALUIAI	INO		1.410	
									. == .	
604-416	# of bins		RW	MSDefaultCopyBin	NVMSAKOSetting	shortNatural	No		1.574	
604-417	# of bins		RW	MSDefaultFaxBin	NVMSAKOSetting	shortNatural	No		1.260	
604-417	# of bins		RW	MSDefaultFaxBin	NVMSAKOSetting	shortNatural	No		1.802	
					3					
604-418	# of bins		D\//	MSDefaultOtherBin	NVMSAKOSetting	shortNatural	No		1.260	
004-410	THE OF BILLS		1700	Moderautotrierbiir	INVINOAROSELLING	Shortivatural	INO		1.200	
004 440	H. Fl.:		DW	MOD of collocal Disc	NIV /N 4O A LCOO - HC		NI.		4 440	
604-418	# of dins		RVV	MSDefaultOtherBin	NVMSAKOSetting	shortNatural	No		1.416	
			1				<u> </u>	<u> </u>		
	-OCT Total Sheets		ND		NVMSystemUsageCounter	byteArray	No	System Usage	1.799	
	1 Tiered billing (Traditional):	Stores the count of all	ND		NVMBillingCounter	byteArray	No	Billing Counter:8: Black		
	TOTAL MARK COUNTER: Tier 1	TOTAL MARK	ND		NVMBillingCounter	byteArray	No	Billing Counter:10:	1.000	
604-442	Media Order Group	1 = MSGXc	RW	MSMediaSizeGroup	NVMSAKOSetting	shortNatural	No		1.796	
		2 = MSGXe								
		3 = MSGFx								
		4 = MSGFxap								
		5 = MSGGco								
604-444	Conditional Finisher Offset Policy OFF /	0=Off (No conditional	RW	ConditionalFinisherOffsetPolicy	NVMSAKOSetting	boolean	No		1.799	
		no. of faults		PaddleHomeFC	NVMFaultCounter		No	Fault Counter:12-024-	1.521	
		no. of faults		PaddleMoveFC	NVMFaultCounter		No	Fault Counter:12-025-	1.521	
	Fault Counter 12-023. Fault Wove Fault Fault Counter 12-043: Hole Punch Motor	no. of faults		PunchMotorMoveFC	NVMFaultCounter		No	Fault Counter:12-043-	1.521	
004-000		ino. Oi iaulio	1700	and involution of the control of the	TAVIVII auttouritei	SHOLLINGLUIDI	INO	00: Hole Punch Motor	1.021	
	Move Fault							100. Hole Pulich Motor		

604-836	Fault Counter 12-044: Hole Punch Head	no. of faults	RW PunchHeadHomeFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-044-	1.521
604-837	Fault Counter 12-045: Hole Punch Head	no. of faults	RW PunchHeadMoveFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-045-	1.521
	Move Fault						00: Hole Punch Head	
604-838	Fault Counter 12-046: Hole Punch Motor	no. of faults	RW PunchMotorHomeFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-046-	1.521
	Home Fault						00: Hole Punch Motor	
604-839	Fault Counter 12-047: Punch Unit Move	no. of faults	RW PunchUnitMoveFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-047-	1.521
004-009		ilo. Oi laults	1 dictionalistovel C	INVIVII aditoddittei	Siloitivaturai	INO		1.521
	Fault						00: Punch Unit Move	
604-840	Fault Counter 12-056: Inserter Bottom	no. of faults	RW InserterBottPltHomeFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-056-	1.521
	Plate Home Fault						00: Inserter Bottom	
604-841	Fault Counter 12-057: Inserter Bottom	no. of faults	RW InserterBottPltLiftFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-057-	1.521
	Plate Lift Fault			-			00: Inserter Bottom	
604 942	Fault Counter 12-061: Crease Blade Move	no of faulto	RW CreaseBladeMoveFFC	NVMFaultCounter	shortNatural	No		1.521
						No	Fault Counter:12-061-	
			RW CreaseRollMotorFailFC	NVMFaultCounter		No	Fault Counter:12-062-	1.521
604-844	Fault Counter 12-063: Booklet Maker	no. of faults	RW BMStaplerMoveFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-063-	1.521
604-845	Fault Counter 12-065: Back Stop Motor	no. of faults	RW BackStopMotorMoveFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-065-	1.521
	Fault Counter 12-066: Tamper Move Fault	no of faults	RW TampermoveFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-066-	1.521
001010	l dak coantor 12 000. Fampor Weve Faak	no. or radice	Tamponnovoi o	Trvivii daitocaritor	onor a vacarar	110	00: Tamper Move Fault	
004.047	F 11 0 1 10 000 B B 1 14 1		DW D D IM ( 0) II IFO	N /N /E // /	1 (5)	<b>.</b> .		4.504
604-847	Fault Counter 12-083: Paper Pusher Motor	no. of faults	RW PaperPushMotorStalledFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-083-	1.521
	Stalled						00: Paper Pusher	
604-848	Fault Counter 12-126: Entrance Sensor	no. of faults	RW EntSnsOfJamFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-126-	1.521
	OFF Jam						00: Entrance Sensor	
604-849		no. of faults	RW PunchSnrOnJamFC	NVMFaultCounter	shortNatural	No		1.521
004-049		ilo. Oi laults	TWV   Full Clistific Clistific C	INVIVII aditCodifice	Siloitivaturai	INO		1.521
	Jam						00: Punch Sensor ON	
604-850	Fault Counter 12-157: Buffer Point Sensor	no. of faults	RW BuffPointSnsOnJamFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-157-	1.521
	ON Jam						00: Buffer Point Sensor	·
604-851	Fault Counter 12-158: Buffer Point Sensor	no. of faults	RW BuffPointSnsOffJamFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-158-	1.521
	OFF Jam						00: Buffer Point Sensor	.
604.952		no. of faults	DW BooklotCompEvitConOff IomEC	NV/ME quitCounter	abartNlatural	No		1.521
604-852	Fault Counter 12-166: Booklet Compiler	no. or rauns	RW BookletCompExitSenOffJamFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-166-	1.521
	Exit Sensor OFF Jam						00: Booklet Compiler	
604-853	Fault Counter 12-181: Booklet Maker Exit	no. of faults	RW BMExitSnrOnJamFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-181-	1.521
604-854	Fault Counter 12-182: Booklet Maker Exit	no. of faults	RW BMExitSnrOffJamFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-182-	1.521
	Sensor OFF Jam						00: Booklet Maker Exit	
604-855	Fault Counter 12-183: Booklet Maker	no. of faults	RW BMUnexpectedSheetFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-183-	1.678
604-856	Fault Counter 12-184: Booklet Maker Stray	no. of faults	RW BMStraySheetFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-184-	1.678
	Sheet						00: BMStraySheet	
604-857	Fault Counter 12-185: Trifold Exit Sensor	no. of faults	RW TrifoldExitSnrOnJFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-185-	1.521
	ON Jam						00: Trifold Exit Sensor	
604-858		no. of faults	RW TrifoldExitSnrOffJFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-186-	1.521
004-030	OFF Jam	ilo. Oi laults	TWV THIOIDEXILORION C	INVIVII aditoddittei	Siloitivaturai	INO		1.921
							00: Trifold Exit Sensor	
604-859	Fault Counter 12-187: Trifold Assist	no. of faults	RW TrifoldAssistSnrOnJFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-187-	1.521
	Sensor ON Jam						00: Trifold Assist	
604-860	Fault Counter 12-190: Sheet late to BB	no. of faults	RW LELateBBEntrySnrFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-190-	1.521
	Fault Counter 12-191: Lead edge late to			NVMFaultCounter		No	Fault Counter:12-191-	1.521
			RW TELatefromBBentrySFC	NVMFaultCounter		No	Fault Counter:12-192-	1.521
			· · · · · · · · · · · · · · · · · · ·					
	· · · · · · · · · · · · · · · · · · ·		RW TELateInserterTabSnrFC	NVMFaultCounter		No	Fault Counter:12-193-	1.521
604-864	Fault Counter 12-194: Lead edge late to	no. of faults	RW LeadedgelatetoInserterPickUpSFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-194-	1.521
	Inserter Pick Up Sensor						00: Lead edge late to	
604-865	Fault Counter 12-196: Trail edge late from	no. of faults	RW TELatefromInserterPickUpSFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-196-	1.521
	Inserter Tray Pick Up Sensor			1			00: Trail edge late from	
604.966		no. of faults	DW FinStrayShootEC	NV/ME quitCounter	obortNlatural	No		1.521
604-866	Fault Counter 12-198: Stray sheet is	no. or rauits	RW FinStraySheetFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-198-	1.021
	detected after jam clearance						00: Stray sheet is	
604-867	Fault Counter 12-199: Unexpected Sheet	no. of faults	RW UnexpectedSheetatFinEntFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-199-	1.521
	at Finisher Entry						00: Unexpected Sheet	
604-868	Fault Counter 12-273: Offset Unit Init Fault	no of faults	RW OffsetUnitInitFC	NVMFaultCounter	shortNatural	No		1.521
100.000	and Journal 12 270. Office Office filler dute	no. or radito		Transition delicounter	Janor II Talara		00: Offset Unit Init	
	<u>l</u>		1	1	]		Joo. Onset Offit IIIIt	

004 000 Fault Carreta 40 074 Offe at Heit Hama		DW 10#411-411	NIV /NAC = IAO =	TalaantNiatuusi INIa	Fault County and 0.074   14.504
604-869 Fault Counter 12-274: Offset Unit Home	no. of faults	RW OffsetUnitHomeFC	NVMFaultCounter	shortNatural No	Fault Counter:12-274- 1.521
Fault					00: Offset Unit Home
604-870 Fault Counter 12-275: Offset Unit Home	no. of faults	RW OffsetUnitHomeMvFC	NVMFaultCounter	shortNatural No	Fault Counter:12-275- 1.521
604-871 Fault Counter 12-276: Offset Unit Away	no. of faults	RW OffsetUnitAwayHomeFC	NVMFaultCounter	shortNatural No	Fault Counter:12-276- 1.521
604-872 Fault Counter 12-277: Offset Unit Away	no. of faults	RW OffsetUnitAwayHomeMvFC	NVMFaultCounter	shortNatural No	Fault Counter:12-277- 1.521
604-873 Fault Counter 12-288: Nip Split Failure	no. of faults	RW NipSplitFC	NVMFaultCounter	shortNatural No	Fault Counter:12-288-   1.521
604-874 Fault Counter 12-289: Nip Home Failure	no. of faults	RW NipHomeFC	NVMFaultCounter	shortNatural No	Fault Counter:12-289-   1.521
604-875 Fault Counter 12-310: Finisher Undocked	no. of faults	RW FinUndockedDuringRFC	NVMFaultCounter	shortNatural No	Fault Counter:12-310-   1.521
604-876 Fault Counter 12-312: Top Cover Open in	no. of faults	RW TopCoverOpeninRFC	NVMFaultCounter	shortNatural No	Fault Counter:12-312- 1.521
Run					00: Top Cover Open in
604-877 Fault Counter 12-313: Finisher Door Open	no. of faults	RW FinDoorOpenInRFC	NVMFaultCounter	shortNatural No	Fault Counter:12-313- 1.521
604-878 Fault Counter 12-316: Inserter Top Cover	no. of faults	RW InserterTopCoverOpenInRFC	NVMFaultCounter	shortNatural No	Fault Counter:12-316- 1.521
604-879 Fault Counter 12-317: Trifold Cover Open	no. of faults	RW TrifoldCoverOpenInRFC	NVMFaultCounter	shortNatural No	Fault Counter:12-317- 1.521
In Run		'			00: Trifold Cover Open
604-880 Fault Counter 12-318: Trifold Front Door	no. of faults	RW TrifoldFDoorOpenInRFC	NVMFaultCounter	shortNatural No	Fault Counter:12-318- 1.521
Open In Run					00: Trifold Front Door
	no. of faults	RW InserterHandDoorOpenInrFC	NVMFaultCounter	shortNatural No	Fault Counter:12-319- 1.521
Open In run	no. or radio	Trev International Constitution	TVVIVII dance dance	onorti tatarar	00: Inserter Hand Door
604-882 Fault Counter 12-340: Compiler Home	no. of faults	RW CompHomeFC	NVMFaultCounter	shortNatural No	Fault Counter:12-340- 1.521
Fault	no. or lauto	Trev   Gompriomer G	TVVIVII duitoountei	Shortivatarar 140	00: Compiler Home
604-883 Fault Counter 12-341: Compiler Out Fault	no. of faults	RW CompOutFC	NVMFaultCounter	shortNatural No	Fault Counter:12-341- 1.521
604-884 Fault Counter 12-341: Compiler Move	no. of faults	RW CompMvFC	NVMFaultCounter	shortNatural No	Fault Counter:12-342- 1.521
604-885 Fault Counter 12-371: Stapler Move Fault	no. of faults	RW StapleMvFC	NVMFaultCounter	shortNatural No	Fault Counter:12-371-   1.521
604-886 Fault Counter 12-372: Stapler Home Fault	no. of faults	RW StapleHomeFC	NVMFaultCounter	shortNatural No	Fault Counter:12-372- 1.521
					00: Stapler Home Fault
604-887 Fault Counter 12-373: Stapler Middle	no. of faults	RW StapleMiddleHomeFC	NVMFaultCounter	shortNatural No	Fault Counter:12-373- 1.521
604-888 Fault Counter 12-374: Stapler Middle	no. of faults	RW StapleMiddleMvFC	NVMFaultCounter	shortNatural No	Fault Counter:12-374- 1.521
604-889 Fault Counter 12-375: Stapler Jaw Home	no. of faults	RW StapleJawHomeFC	NVMFaultCounter	shortNatural No	Fault Counter:12-375- 1.521
604-890 Fault Counter 12-376: Stapler Jaw Move	no. of faults	RW StapleJawMvFC	NVMFaultCounter	shortNatural No	Fault Counter:12-376- 1.521
604-891 Fault Counter 12-377: Stapler Priming	no. of faults	RW StaplePrimingFC	NVMFaultCounter	shortNatural No	Fault Counter:12-377- 1.521
Fault					00: Stapler Priming
604-892 Fault Counter 12-378: LCSS Stapler index	no. of faults	RW LCSSStapleIndexFC	NVMFaultCounter	shortNatural No	Fault Counter:12-378- 1.521
604-893 Fault Counter 12-380: Punch Unit Side	no. of faults	RW PunchUnitSideEdgeDetectFC	NVMFaultCounter	shortNatural No	Fault Counter:12-380- 1.521
604-894 Fault Counter 12-383: Back Stop Home	no. of faults	RW BackStopHomeFFC	NVMFaultCounter	shortNatural No	Fault Counter:12-383- 1.521
604-895 Fault Counter 12-384: Tamper Home Fault		RW TampHomeFC	NVMFaultCounter	shortNatural No	Fault Counter:12-384- 1.521
604-896 Fault Counter 12-392: Front Tamper Move		RW FTampMvFC	NVMFaultCounter	shortNatural No	Fault Counter:12-392- 1.521
604-897 Fault Counter 12-393: Front Tamper	no. of faults	RW FTampHomeFC	NVMFaultCounter	shortNatural No	Fault Counter:12-393- 1.521
604-898 Fault Counter 12-394: Front Tamper Away		RW FTampAwayFromHomeFC	NVMFaultCounter	shortNatural No	Fault Counter:12-394- 1.521
604-899 Fault Counter 12-395: Front Tamper Away		RW FTampAwayFromHomeMvFC	NVMFaultCounter	shortNatural No	Fault Counter:12-395- 1.521
604-900 Fault Counter 12-395: Front Famper Move		RW RTampMvFC	NVMFaultCounter	shortNatural No	Fault Counter:12-396- 1.521
604-901 Fault Counter 12-390: Real Tamper Home		RW RTampHomeFC	NVMFaultCounter	shortNatural No	Fault Counter:12-390- 1.521 Fault Counter:12-397- 1.521
		RW RTamphomerc RW RTampAwayFromHomeMvFC	NVMFaultCounter	shortNatural No	Fault Counter:12-398-   1.521
604-902 Fault Counter 12-398: Rear Tamper Away					
604-903 Fault Counter 12-399: Rear Tamper Away			NVMFaultCounter	shortNatural No	Fault Counter:12-399- 1.521
604-904 Fault Counter 12-403: Booklet Staple	no. of faults	RW BMStapleHead2MvFC	NVMFaultCounter	shortNatural No	Fault Counter:12-403- 1.521
604-905 Fault Counter 12-411: Booklet Stapler	no. of faults	RW BMStapleHomeFC	NVMFaultCounter	shortNatural No	Fault Counter:12-411- 1.521
604-906 Fault Counter 12-413: Booklet Staple	no. of faults	RW BMStapleHead2HomeFC	NVMFaultCounter	shortNatural No	Fault Counter:12-413- 1.521
	no. of faults	RW BMStapleNotHomeForInFC	NVMFaultCounter	shortNatural No	Fault Counter:12-414- 1.521
604-908 Fault Counter 12-415: Roll Gate Home	no. of faults	RW RollGateHomeFC	NVMFaultCounter	shortNatural No	Fault Counter:12-415- 1.521
604-909 Fault Counter 12-416: Crease Blade Home	Ino of faults	RW CreaseBladeHomeFC	NVMFaultCounter	shortNatural No	Fault Counter:12-416-   1.521
	The or laune	ITTY   Orcaseblader former o			
Fault					00: Crease Blade
604-910 Fault Counter 12-417: Booklet Maker	no. of faults	RW BMFlapperHomeFC	NVMFaultCounter	shortNatural No	Fault Counter:12-417- 1.521
604-910 Fault Counter 12-417: Booklet Maker 604-911 Fault Counter 12-418: Booklet Maker			NVMFaultCounter NVMFaultCounter		Fault Counter:12-417- 1.521 Fault Counter:12-418- 1.521
604-910 Fault Counter 12-417: Booklet Maker	no. of faults	RW BMFlapperHomeFC		shortNatural No	Fault Counter:12-417- 1.521

604-013	Fault Counter 12-420: Booklet Maker	no. of faults	RW F	BMTamp2MvFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-420-	1.521	
	Fault Counter 12-440: Paper Pusher				NVMFaultCounter		No	Fault Counter: 12-440-	1.521	
	Fault Counter 12-440: Paper Pusher				NVMFaultCounter		No		1.521	
	·								1.521	
				,	NVMFaultCounter		No			
	Fault Counter 12-443: Paper Pusher Away			, ,	NVMFaultCounter		No	Fault Counter:12-443-	1.521	
	Fault Counter 12-450: Ejector Module				NVMFaultCounter		No	Fault Counter:12-450-	1.521	
	-				NVMFaultCounter		No		1.521	
	Fault Counter 12-452: Ejector Plate Home			1	NVMFaultCounter		No	Fault Counter:12-452-	1.521	
	-			1	NVMFaultCounter		No	Fault Counter:12-453-	1.521	
	Fault Counter 12-454: Lower Paddle Home				NVMFaultCounter		No	Fault Counter:12-454-	1.521	
	Fault Counter 12-455: Lower Paddle Move				NVMFaultCounter		No	Fault Counter:12-455-	1.521	
604-924	Fault Counter 12-456: Ejector Module	no. of faults	RW E	ejectModHomeFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-456-	1.521	
	Home Fault							00: Ejector Module		
								Home Fault		
604-925	Fault Counter 12-457: Ejector Module	no. of faults	RW E	jectModHomeMvFC	NVMFaultCounter	shortNatural	No	Fault Counter: 12-457-	1.521	
	Home Move Fault			•				00: Ejector Module		
604-926	Fault Counter 12-458: Ejector Module Out	no, of faults	RW E	iectModOutPosFC	NVMFaultCounter	shortNatural	No	,	1.521	
	Fault Counter 12-459: Ejector Module Out			,	NVMFaultCounter		No	Fault Counter:12-459-	1.521	
	Position Move Fault			-,				00: Ejector Module		
604-928	Fault Counter 12-460: Stacker Bin 1	no. of faults	RW S	StackBin1MotorStallFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-460-	1.521	
004 020	Motor Stall	no. or radito	\	oldon Birri Motor Gtain G	144 Wil dail Counter	onorti vatarai	140	00: Stacker Bin 1	1.021	
604-929	Fault Counter 12-461: Stacker Bin 1 Level	no of faults	D\M S	StackBin1LevelFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-461-	1 521	
004-929	Fault	no. or radits		Stackbill Levell C	INVIVII auticounter	Siloitivaturai	INO	00: Stacker Bin 1Level	1.521	
	li auit							Fault		
604-930	Fault Counter 12-462: Stacker Bin 1	no. of faults	DW C	StackBin1ElevatorFC	NVMFaultCounter	shortNatural	No		1.521	
604-930		no. or raults	KVV S	Stackbill Televatore	NymrauliCounter	Shortivaturai	INO	00: Stacker Bin 1	1.521	
	Elevator Failure									
004.004	Fools Occurred AD ADD Booklet Males		D)4/ E	NAD N - (D (EQ	AD /A A F and A Community of the Communi		N.I.	Elevator Failure	4.504	
604-931	Fault Counter 12-463: Booklet Maker	no. of faults	KVV E	BMPwrNotPresentFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-463-	1.521	
204.000	Power Not Present Fault	6.6 11	D)4/	NAD 50	ND // AF 1/O /		N.1	00: Booklet Maker	1.504	
604-932		no. of faults	KW F	BMPwrFC	NVMFaultCounter	shortNatural		Fault Counter:12-464-	1.521	
	Power Fault							00: Booklet Maker		
604-933	Fault Counter 12-465: Paddle Upper	no. of faults	RW F	PaddUpprPosFC	NVMFaultCounter	shortNatural	No		1.521	
	Position Fault							00: Paddle Upper		
604-934	Fault Counter 12-466: Paddle Upper	no. of faults	RW F	PaddUpprPosMvFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-466-	1.521	
	Position Move Fault							00: Paddle Upper		
604-935	Fault Counter 12-467: Paddle Lower	no. of faults	RW F	PaddLwrPosFC	NVMFaultCounter	shortNatural	No		1.521	
	Position Fault							00: Paddle Lower		
604-936	Fault Counter 12-468: Paddle Lower	no. of faults	RW F	PaddLwrPosMvFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-468-	1.521	
	Position Move Fault							00: Paddle Lower		
604-937	Fault Counter 12-469: Curl Suppressor	no. of faults	RW C	CurlSupprHomeFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-469-	1.521	
	Home Fault							00: Curl Suppressor		
604-938	Fault Counter 12-470: Curl Suppressor	no. of faults	RW C	CurlSupprMvFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-470-	1.521	
	Move Fault		<u>                                     </u>					00: Curl Suppressor		
604-939	Fault Counter 12-471: Curl Suppressor	no. of faults	RW C	CurlSupprAwayPosFC	NVMFaultCounter	shortNatural	No		1.521	
	Fault Counter 12-472: Curl Suppressor				NVMFaultCounter	shortNatural	No	Fault Counter:12-472-	1.521	
	Fault Counter 12-473: Pressing Motor Init	no. of faults	RW F	PressMotorInitFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-473-	1.521	
	Fault Counter 12-474: Pressing Motor Init				NVMFaultCounter		No	Fault Counter:12-474-	1.521	
	Fault Counter 12-475: Pressing Motor				NVMFaultCounter		No		1.521	
	Home Fault			-				00: Pressing Motor		
<u> </u>	1		<u>.                                    </u>			1				

604-944	Fault Counter 12-476: Pressing Motor Home Move Fault	no. of faults	PressMotorHomeMvFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-476- 00: Pressing Motor	1.521
604-945	Fault Counter 12-477: Pressing Motor Out Position Fault	no. of faults	PressMotorOutPosFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-477- 00: Pressing Motor Out	1.521
604-946	Fault Counter 12-478: Pressing Motor Out Position Move Fault	no. of faults RW	PressMtrOutPosMvFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-478- 00: Pressing Motor Out	1.521
604-947	Short	no. of faults	InsShtTooShortFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-479- 00: Insert Sheet Too	1.521
604-951		Stores the count when ND		NVMBillingCounter	byteArray	No		1.810
604-952		Stores the count when ND		NVMBillingCounter		No		1.810
604-953	+ Print Sheets , including Blank and Banner Sheets	Stores the count when ND traditional billing		NVMBillingCounter	, ,	No		1.810
604-954	Successfully Sent and Scanned Image using Platen	Stores the count when ND traditional billing		NVMBillingCounter		No		1.810
604-979	Finisher Hole Punch Configuration		HolePunchConfiguration	NVMConfiguration		No		1.299
604-979	J	finisher NVM 763-605	9	NVMConfiguration		No		1.769
604-980	communicate with finisher.		ImeFinCommsFailFC	NVMFaultCounter		No	Fault Counter:12-762- 00: Cannot communicate with	1.521
604-981	present.	no. of faults	ImeFinMissingFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-764- 00: Finisher is not present.	1.521
604-995	Fault Counter 12-492-00: CDI communications failure with finisher.	no. of faults RW	FINISHERCDICOMMSFAILFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-492- 00: CDI communications failure	1.521
604-996	Fault Counter 12-493-00: Finisher failure to Cycle Up in time	no. of faults RW	FINISHERFAILCYCLEUPFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-493- 00: Finisher failure to Cycle Up in time	1.521
604-997	Fault Counter 12-494-00: Finisher failure to return prep time	no. of faults RW	FINISHERFAILPREPTIMEFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-494- 00: Finisher failure to	1.521
604-998	Entry Sensor		,	NVMFaultCounter	shortNatural	No	Fault Counter:12-100- 00: Finisher Late to	1.521
604-999	Fault Counter 12-102-00: Late IME Exit	no. of faults	DfFnlinkLateImeExit	NVMFaultCounter	shortNatural	No	Fault Counter:12-102- 00: Late IME Exit	1.521
605-011	Counter-MFPRINTLargeSheets	ND		NVMBillingCounter	byteArray	No	Billing Counter:31: Black Printed Large Sheets	1.799
605-015	Counter-PrintlFAXJobs	ND		NVMSystemUsageCounter	byteArray	No	System Usage Counter:48: Total	1.799
605-025	Counter-MFPRINTLargeColorSheets	ND		NVMBillingCounter	byteArray	No	Billing Counter:34: Color Printed Large	1.799
605-027	Counter- MFPRINTSuccessfullFaxImagesReceived	ND		NVMBillingCounter	byteArray	No	Billing Counter:12: Internet Fax	1.799
606-003	Tray 1 Media Weight	RW	Tray 1 Media Weight	NVMSAKOSetting	shortNatural	No		1.042
606-005	Tray 1 Priority	RW	Tray 1 Priority	NVMSAKOSetting	shortNatural	No		1.730
				NVMSAKOSetting	natural	No		1.333
		Range and default size in RW	Tray 1 Width	NVMSAKOSetting	natural	No		1.380
	Tray 1 Width	Range and default size in RW	Tray 1 Width	NVMSAKOSetting	natural	No		1.488
606-006	Tray 1 Width	Range and default size in RW	Tray 1 Width	NVMSAKOSetting	natural	No		1.495
606-006	Tray 1 Width	Range and default size in RW	Tray 1 Width	NVMSAKOSetting	natural	No		1.696

606-007	Tray 1 Length	Range and default size in	RW	Tray 1 Length	NVMSAKOSetting	natural	No	1.333	
	Tray 1 Length	Range and default size in	RW	Tray 1 Length	NVMSAKOSetting	natural	No	1.380	
	Tray 1 Length	Range and default size in			NVMSAKOSetting	natural	No	1.629	
		mm							
									1
									1
									1
									1
									1
									1
									1
606-007	Tray 1 Length	Range and default size in	RW	Tray 1 Length	NVMSAKOSetting	natural	No	1.495	
	Tray 1 Length	Range and default size in			NVMSAKOSetting	natural	No	1.568	
	Tray 1 Length	Range and default size in			NVMSAKOSetting	natural	No	1.696	
	Tray 1 Length	Range and default size in			NVMSAKOSetting	natural	No No	1.787	
	Tray 1 Length	Range and default size in			NVMSAKOSetting			1.804	
	Tray 2 Media Weight			Tray 2 Media Weight	NVMSAKOSetting			1.042	
	Tray 2 Priority			Tray 2 Priority	NVMSAKOSetting			1.730	
	Tray 2 Width			Tray 2 Width	NVMSAKOSetting	natural	No No	1.730	
	Tray 2 Width	Range and default size in			NVMSAKOSetting	natural		1.380	
	Tray 2 Width	Range and default size in			NVMSAKOSetting	natural	No No	1.640	
	Tray 2 Width			Tray 2 Width	NVMSAKOSetting	natural		1.495	
				Tray 2 Width			No No	1.495	
	Tray 2 Width Tray 2 Width	Range and default size in			NVMSAKOSetting NVMSAKOSetting	natural		1.787	
						natural	No No	1.767	
	Tray 2 Length	Range and default size in			NVMSAKOSetting	natural	No No		
000-027	Tray 2 Length	Range and default size in	KVV	Tray 2 Length	NVMSAKOSetting	natural	No	1.380	1
		mm							
606 027	Troy 2.1 andth	Range and default size in	DW	Troy 2 Langth	NV/MCAKOCatting	notural	No	1 640	
	Tray 2 Length Tray 2 Length	Range and default size in			NVMSAKOSetting NVMSAKOSetting		No No	1.640 1.495	
	, <u> </u>	Range and default size in			NVMSAKOSetting	natural	No No	1.495	
	Tray 2 Length Tray 2 Length	Range and default size in			NVMSAKOSetting	natural		1.696	
	Tray 2 Length	Range and default size in			NVMSAKOSetting	natural natural		1.787	
000-027	Tray 2 Lerigin	"	ΓVV	rray 2 Lerigiii	INVINISAROSetting	naturai	INO	1.707	1
		mm							1
606 027	Tray 2 Length	Range and default size in	D\\/	Tray 2 Langth	NVMSAKOSetting	natural	No	1.804	
000-027	Tray 2 Lerigui	mm	IXVV	Tray 2 Lengur	INVINISAROSetting	Haturai	INO	1.004	1
606 032	Tray 2 Usage: Standard Tray / Envelope	specialMaterials = 0,	D\//	Tray 2 Usage:Standard/Envelope	NVMSAKOSetting	shortNatural	No	1.524	
	Tray 3 Media Weight			Tray 3 Media Weight	NVMSAKOSetting		No	1.042	
	Tray 3 Priority			Tray 3 Priority	NVMSAKOSetting			1.730	
	Tray 3 Priority			Tray 3 Priority	NVMSAKOSetting			1.462	
000-045	Tray 3 Frionty		1744	rray 3 Friority	INVIVIOAR COEMING	SHURINALUIAI		1.402	1
606.045	Tray 3 Priority		D\\/	Tray 3 Priority	NVMSAKOSetting	shortNatural	No	1.507	
000-043	Hay 5 FIIOHILY		LVVV	riay 3 Filolity	INVIVISAROSEIIIII	อกบานขอเนาสโ	INU	1.507	
606.045	Tray 3 Priority		D/V/	Tray 3 Priority	NVMSAKOSetting	shortNatural	No	1.561	
000-045	Hay 5 FIIOHILY		LVVV	rray 3 Friority	INVIVISANOSEIIIII	อกบาแพลเนเสเ	INU	1.501	
606.046	Tray 3 Width	Range and default size in	D/V/	Tray 3 Width	NVMSAKOSetting	natural	No	1.042	
000-040	i i ay 3 vviuui	mm	LVVV	riay 3 vvidir	INVIVISANOSEIIIII	แลเนเสเ	INU	1.042	<u> </u>
606.046	Tray 3 Width	Range and default size in	D\\/	Troy 3 Width	NVMSAKOSetting	natural	No	1.380	Voc
	Tray 3 Width	Range and default size in			NVMSAKOSetting			1.495	169
000-040	Hay 3 Wiulii	manye anu ueraur size m	LVV	rray 3 vviuir	Invivioanoseming	maturai	INO	1.490	

606-046	Tray 3 Width	Range and default size in	RW	Tray 3 Width	NVMSAKOSetting	natural	No	1.787	
	Tray 3 Length	Range and default size in			NVMSAKOSetting	natural	No	1.615	
	Tray 3 Length	Range and default size in			NVMSAKOSetting	natural	No	1.380	Yes
	Tray 3 Length	Range and default size in			NVMSAKOSetting	natural	No	1.495	
	Tray 3 Length	Range and default size in			NVMSAKOSetting	natural		1.787	
	Tray 3 Length	Range and default size in			NVMSAKOSetting	natural	No	1.804	
	Tray 3 User Type	0 = TAFixed		, ,	NVMSAKOSetting	shortNatural	No	1.448	+ + + + + + + + + + + + + + + + + + + +
000-049	Triay 5 Oser Type	1 = TAAdjustableAll	1	Tray 5 Oser Type	INVINIOARCOCKING	Siloitivaturai		1.440	
606-063	Tray 4 Media Weight	i – i Andjustablenii	RW/	Tray 4 Media Weight	NVMSAKOSetting	shortNatural	No	1.042	<del>                                     </del>
	Tray 4 Priority				NVMSAKOSetting		No	1.730	+ + + + + + + + + + + + + + + + + + + +
	Tray 4 Priority			<u> </u>	NVMSAKOSetting		No	1.462	
	Tray 4 Priority				NVMSAKOSetting		No	1.507	
		Donne and default size in			NVMSAKOSetting			1.042	
	Tray 4 Width	Range and default size in			·	natural			V
	Tray 4 Width	Range and default size in			NVMSAKOSetting	natural	No		Yes
	Tray 4 Width	Range and default size in			NVMSAKOSetting	natural		1.495	
	Tray 4 Width	Range and default size in			NVMSAKOSetting	natural		1.787	
606-067	Tray 4 Length	Range and default size in	RW	Tray 4 Length	NVMSAKOSetting	natural	No	1.615	
		mm							
	Tray 4 Length	Range and default size in			NVMSAKOSetting	natural	No	1.380	Yes
606-067	Tray 4 Length	Range and default size in	RW	Tray 4 Length	NVMSAKOSetting	natural	No	1.495	
		mm							
606-067	Tray 4 Length	Range and default size in	RW	Tray 4 Length	NVMSAKOSetting	natural	No	1.787	
		mm							
606-067	Tray 4 Length	Range and default size in	RW	Tray 4 Length	NVMSAKOSetting	natural	No	1.804	
		mm							
606-069	Tray 4 User Type	0 = TAFixed	RW	Tray 4 User Type	NVMSAKOSetting	shortNatural	No	1.380	
		1 = TAAdjustableAll		,					
606-083	Tray 5 Media Weight	17 t tajaotabier iii	RW	Tray 5 Media Weight	NVMSAKOSetting	shortNatural	No	1.042	
000 000	Tray o Modia Wolgin			Tray o Modia Wolgin		onor a vatarar		1.012	
606-084	Tray 5 Direct Select	TSDirectOnly = 0,	R/W	Tray 5 Direct Select	NVMSAKOSetting	shortNatural	No	1.380	
000-004	Tray 5 Direct Select	TSDirectAndAuto = 1	1 \ V V	Tray 5 Direct Select	TV WOAROOELING	Siloitivaturai	140	1.500	
606-085	Tray 5 Priority	13DirectAridAdio = 1	D\\/	Tray 5 Priority	NVMSAKOSetting	shortNatural	No	1.793	<del> </del>
000-065	Tray 5 Phoney		ΓVV	rray 5 Phoney	INVINISAROSetting	Shortivaturai	INO	1.793	
000 005	Tana E Dairaita		DW	Trans E Dela vita	NIVANCA KOO - #:	- l + N   - 4	NI-	4 04 4	
	Tray 5 Priority		ΚVV	Tray 5 Priority	NVMSAKOSetting	shortNatural	No	1.814	
	Note: Tray 5 is manual feed slot on		D) 4 /	T 5 147 10	N (140 A140 O 41)		N.	4.000	<del>                                     </del>
606-086	Tray 5 Width	Range and default size in	RW	Tray 5 Width	NVMSAKOSetting	natural	No	1.332	
		mm							
606-086	Tray 5 Width	Range and default size in	RW	Tray 5 Width	NVMSAKOSetting	natural	No	1.380	
		mm							
	Tray 5 Width	Range and default size in			NVMSAKOSetting	natural		1.495	
	Tray 5 Width	Range and default size in			NVMSAKOSetting	natural	No	1.629	
606-086	Tray 5 Width	Range and default size in			NVMSAKOSetting	natural	No	1.629	
606-086	Tray 5 Width	Range and default size in	RW	Tray 5 Width	NVMSAKOSetting	natural	No	1.700	
		mm							
606-086	Tray 5 Width	Range and default size in	RW	Tray 5 Width	NVMSAKOSetting	natural	No	1.793	
		mm		•					
606-087	Tray 5 Length	Range and default size in	RW	Tray 5 Length	NVMSAKOSetting	natural	No	1.332	
	'	lmm S		, ,	I				
606-087	Tray 5 Length	Range and default size in	RW	Tray 5 Length	NVMSAKOSetting	natural	No	1.380	
		lmm		· · · · · · · · · · · · · · · · · · ·					
606-087	Tray 5 Length	Range and default size in	R\//	Tray 5 Length	NVMSAKOSetting	natural	No	1.495	+ +
000-001	Triay o Longin	mm	1 . v v	Tray o Longar	14 VIVIOAI COGEIIII I I I I I I I I I I I I I I I I I	liaturai		1.700	
606 097	Tray 5 Length	Range and default size in	D\//	Tray 5 Length	NVMSAKOSetting	natural	No	1.629	+ +
000-007	Tray 5 Length		LVVV	Tray 5 Length	IN VIVIOAN OBEILING	natural	INO	1.029	
		mm			l				

606-087	Tray 5 Length	Range and default size in RW mm	Tray 5 Length	NVMSAKOSetting	natural	No I	1.675
606-087	Tray 5 Length	Range and default size in RW	Tray 5 Length	NVMSAKOSetting	natural	No r	1.793
		mm					
606-088	Tray 5 Percent Full	RW	Tray 5 Percent Full	NVMSAKOSetting	shortNatural	No r	1.016
606-089	Tray 5 User Type	TAFixed = 0, RW	Tray 5 User Type	NVMSAKOSetting	shortNatural	No '	1.793
606-103	Tray 6 Media Weight			NVMSAKOSetting	shortNatural	No	1.042
606-104	Tray 6 Direct Select	TSDirectOnly = 0, RW	Tray 6 Direct Select	NVMSAKOSetting	shortNatural	No ·	1.340
	Tray 6 Priority			NVMSAKOSetting	shortNatural		1.793
	Tray 6 Priority			NVMSAKOSetting			1.380
		Range and default size in RW		NVMSAKOSetting	natural	No	1.253
		Range and default size in RW		NVMSAKOSetting	natural		1.610 Yes
000 100		mm		i vi	natarai		1.010
606-106	Tray 6 Width	Range and default size in RW	Tray 6 Width	NVMSAKOSetting	natural	No '	1.610 Yes
606-106	Tray 6 Width	Range and default size in RW	Tray 6 Width	NVMSAKOSetting	natural	No	1.793
	Note: In Melody tray 6 is Optional HCF 2	mm		_			
606-107	Tray 6 Length	Range and default size in RW	Tray 6 Length	NVMSAKOSetting	natural	No ·	1.042
		Range and default size in RW		NVMSAKOSetting	natural		1.610 Yes
	, ,	mm					
606-107	Tray 6 Length	Range and default size in RW	Tray 6 Length	NVMSAKOSetting	natural	No r	1.610 Yes
		mm		_			
606-107	Tray 6 Length	Range and default size in RW	Tray 6 Length	NVMSAKOSetting	natural	No ·	1.793
		TAFixed = 0, RW	Tray 6 User Type	NVMSAKOSetting	shortNatural	No	1.793
				NVMSAKOSetting	shortNatural	No	1.268
	Tray 6 User Type			NVMSAKOSetting			1.610
				NVMSAKOSetting			1.670
	, ,			NVMSAKOSetting			1.670
	Tray 7 Media Weight			NVMSAKOSetting		No	1.268
	Tray 7 Media Weight			NVMSAKOSetting			1.670
	Tray 7 Direct Select			NVMSAKOSetting			1.793
	Tray 7 Priority		Tray 7 Priority	NVMSAKOSetting			1.380
000-123	Tray 7 Thomby	IXVV	Tray / Trionity	TWWOARCOELLING	Siloitivatulai		1.500
606-125	Tray 7 Priority	RW	Tray 7 Priority	NVMSAKOSetting	shortNatural	No '	1.670
	Tray 7 Priority		Tray 7 Priority	NVMSAKOSetting		No	1.793
				NVMSAKOSetting	natural	No	1.380
120	,	mm	Tray / Triadir		natara:		
606-126		Range and default size in RW	Tray 7 Width	NVMSAKOSetting	natural	No	1.670
000 120		mm	Tray / Triadir		l latarai		
606-126		Range and default size in RW	Tray 7 Width	NVMSAKOSetting	natural	No '	1.696
		Range and default size in RW		NVMSAKOSetting	natural		1.793
		Range and default size in RW		NVMSAKOSetting	natural		1.380
606-127		Range and default size in RW		NVMSAKOSetting			1.670
		mm	Tray / Lengur	IN VIVIOAR COEMING	illaturai		1.070
		Range and default size in RW	Tray 7 Length	NVMSAKOSetting	natural	No f	1.696
000-121	, ,	mm	Triay / Longui	TAVINOARCOGERING	naturai		1.000
	used by 3TM tray config for Tray 3 setting.						
606 127		Range and default size in RW	Tray 7 Longth	NVMSAKOSetting	natural	No '	1.793
	Note : In Melody, tray 7 is Optional HCF 3	•	Triay / Length	INVIVISAROSEMING	naturai	INU	1.795
	Inote . In Melouy, tray / IS Optional HCF 3	IIIII		l .			

606-128	Tray 7 Percent Full Note: In FX product, this Tray 7 NVM's is used by 3TM tray config for Tray 3 setting. TTM tray config will use the Tray 3 NVM similar to other products.	RW	Tray 7 Percent Full	NVMSAKOSetting	shortNatural	No		1.670
606-129	Tray 7 User Type	TAFixed = 0, RW TAAdjustableAll = 1,	Tray 7 User Type	NVMSAKOSetting	shortNatural	No		1.380
606-129	Tray 7 User Type		Tray 7 User Type	NVMSAKOSetting	shortNatural	No		1.793
	Tray 7 Modulus Note : In FX product, this Tray 7 NVM's is	RW	Tray 7 Modulus	NVMSAKOSetting	shortNatural	No		1.670
606-131	Tray 7 Modulus Position Note : In FX product, this Tray 7 NVM's is	RW	Tray 7 Modulus Position	NVMSAKOSetting	shortNatural	No		1.670
			Tray 8 Media Type	NVMSAKOSetting		No		1.670
	Note: In FX product, this Tray 8 NVM's is	MCGreen = 1,	Tray 8 Media Color	NVMSAKOSetting	shortNatural	No		1.670
	Tray 8 Media Weight Note : In FX product, this Tray 8 NVM's is		Tray 8 Media Weight	NVMSAKOSetting		No		1.670
	Note : In FX product, this Tray 8 NVM's is	TSDirectAndAuto = 1	Tray 8 Direct Select	NVMSAKOSetting		No		1.793
	Tray 8 Priority		Tray 8 Priority	NVMSAKOSetting		No		1.670
606-145	Tray 8 Priority Note : In Melody, Tray 8 is Optional HCF 4	RW	Tray 8 Priority	NVMSAKOSetting	shortNatural	No		1.793
606-146	Tray 8 Width	Range and default size in RW	Tray 8 Width	NVMSAKOSetting	natural	No		1.670
606-146	Tray 8 Width	Range and default size in RW	Tray 8 Width	NVMSAKOSetting	natural	No		1.696
606-146	Tray 8 Width Note : In Melody, Tray 8 is Optional HCF 4	Range and default size in RW mm	Tray 8 Width	NVMSAKOSetting	natural	No		1.793
606-147	Note : In FX product, this Tray 8 NVM's is	Range and default size in RW mm		NVMSAKOSetting	natural	No		1.670
	Note : In FX product, this Tray 8 NVM's is	Range and default size in RW mm	,	NVMSAKOSetting	natural	No		1.696
			Tray 8 Length	NVMSAKOSetting		No		1.793
	Tray 8 Percent Full Note: In FX product, this Tray 8 NVM's is used by 3TM tray config for Tray 4 setting. TTM tray config will use the Tray 4 NVM similar to other products.		Tray 8 Percent Full	NVMSAKOSetting		No		1.670
	2 23		Tray 8 User Type	NVMSAKOSetting	shortNatural			1.793
	Tray 8 Modulus Note : In FX product, this Tray 8 NVM's is		Tray 8 Modulus	NVMSAKOSetting		No		1.670
606-151	Tray 8 Modulus Position Note : In FX product, this Tray 8 NVM's is		Tray 8 Modulus Position	NVMSAKOSetting		No		1.670
606-190	Total of large size Plain media sheets since activation date numLargePlainMedia	Plain Large Sheets Used Total of large size Plain media sheets since activation date numLargePlainMedia	Plain Large Sheets Used	NVMSystemUsageCounter	byteArray	No	System Usage Counter:98: Plain Large Sheets Used	1.799
606-191	Total of large size Bond media sheets	Bond Large Sheets Used ND Total of large size Bond media sheets since	Bond Large Sheets Used	NVMSystemUsageCounter	byteArray	No	System Usage Counter:99: Bond Large Sheets Used	1.799

606-192	LetterHead Large Sheets Used Total of large size Leterhead media sheets	· ·	ND	LetterHead Large Sheets Used	NVMSystemUsageCounter	byteArray	No	System Usage Counter:100:	1.799		
606-193	Pre-Printed Large Sheets Used		ND	Pre-Printed Large Sheets Used	NVMSystemUsageCounter	byteArray	No	System Usage	1.799		
		Used						Counter:101: Pre-			
606-199	5 5	0 0	ND	Gloss Coating Large Sheets Used	NVMSystemUsageCounter	byteArray	No	System Usage	1.799		
	Ü	Sheets Used						Counter:108: Gloss			
606-205	, ,	•	ND	Recycled Large Sheets Used	NVMSystemUsageCounter	byteArray	No	System Usage	1.799		
	,	Used						Counter:114: Recycled			
606-206	1	)	ND	Hole Punched Large Sheets Used	NVMSystemUsageCounter	byteArray	No	System Usage	1.799		
	<u> </u>	Sheets Used						Counter:115: Punched			
606-207		Other Paper Type Large Sheets Used	ND	Other Paper Type Large Sheets	NVMSystemUsageCounter	byteArray	No	System Usage Counter:116: Other	1.799		
606-209	Tabloid (11 x 17") Sheets Used	Tabloid (11 x 17") Sheets	ND	Tabloid Sheets Used	NVMSystemUsageCounter	byteArray	No	System Usage	1.799		
	,	Used						Counter:118: Tabloid	00		
606-214			ND	12 x 18 Sheets Used	NVMSystemUsageCounter	byteArray	No	System Usage	1.799		
606-215				12 x 19 Sheets Used	NVMSystemUsageCounter		No	System Usage	1.799		
		Total of 12x19" sheets				-,		Counter:124: 12 x 19"			
606-218			ND	A3 Sheets Used	NVMSystemUsageCounter	byteArray	No	System Usage	1.061		
		Total of A3 sheets since				-,		Counter:127: A3			
		activation date						Sheets Used			
606-219			ND	SRA3 Sheets Used	NVMSystemUsageCounter	byteArray	No	System Usage	1.799		
				I control of the cont	NVMSystemUsageCounter		No	System Usage	1.061		
	,			All sheets fed from Tray #8	NVMSystemUsageCounter		No	System Usage	1.061		
	Service Plan (Contract - with leaning mode	,		Service Plan	NVMcontrolledAccess		No	, ,		Yes	Yes, as Text
	,	•			NVMSystemUsageCounter		No	System Usage	1.044		,
606-400		,			NVMSystemUsageCounter		No	System Usage	1.044		
606-403	-			Protocol comm faults counter	NVMSystemUsageCounter		No	System Usage	1.678		
606-483				Tray7FeedRollsLifeCount	NVMHFSICounter		No	Joseph Godge	1.426		
606-488				Tray6FeedRollsLifeCount	NVMHFSICounter	longNatural	No		1.426		
606-493				Tray7FeedRollsRepCount	NVMSystemUsageCounter	natural	No	Unknown	1.426		
		incremented when user resets life counter									
606-494	, i	Replacements - incremented when user resets life counter	RW	Tray1FeedRollsRepCount	NVMSystemUsageCounter	natural	No	Unknown	1.426		
606-495	Tray 2 Feed Rolls replacement counter	Replacements -	RW/	Tray2FeedRollsRepCount	NVMSystemUsageCounter	natural	No	Unknown	1.426		
000 400	·	incremented when user resets life counter		Trayer courtonor topocum	TVVIII O STATE	natarai		Onknown	1.420		
606-496	Tray 3 Feed Rolls replacement counter	Replacements -	D\\/	Tray3FeedRollsRepCount	NVMSystemUsageCounter	natural	No	Unknown	1.426		
000-490	, i	incremented when user resets life counter	KVV	TraysreeuRollsRepCount	INVINISystemosageCounter	Haturai	NO	UNKNOWN	1.420		
606-497	, , ,	•	RW	Tray5FeedRollsRepCount	NVMSystemUsageCounter	natural	No	Unknown	1.426		
		incremented when user				1					
606-498		incremented when user resets life counter			NVMSystemUsageCounter	natural	No	Unknown	1.426		
606-513	·	system increments counter	RO	XferRollReplacements	NVMSystemUsageCounter	natural	No	Unknown	1.265		
606-514			RO	XferBeltReplacements	NVMSystemUsageCounter	natural	No	Unknown	1.799		
606-514	·			BeltCleanerReplacements	NVMSystemUsageCounter	natural	No	Unknown	1.799		
	·	counter					_				

606-516	SPDH Feed Roll Life Expectancy	Modifiable via DC131 F	W SPDHRollLife	NVMConfiguration	IongNatural	No	1.434	
	SPDH Feed Roll Life Expectancy	Modifiable via DC131 F	W SPDHRollLife	NVMConfiguration		No	1.600	
606-516	ADF Roller- Forward Roller – Separation		W SPDHRollLife	NVMConfiguration		No	1.805	
606-517	Tray 7 (PPI) Feed Rolls Life Expectancy	Feeds - adjustable by CSE	W Tray7FeedRollsExpLife	NVMConfiguration	longNatural	No	1.434	
606-518	Tray 1 Feed Rolls life expectancy	Feeds - adjustable by FCSE	W Tray1FeedRollsExpLife	NVMConfiguration	longNatural	No	1.434	
606-518	Tray 1 Pick & Separator Roller life expectancy	Feeds - adjustable by CSE	W Tray1FeedRollsExpLife	NVMConfiguration	longNatural	No	1.805	
606-519	Tray 2 Feed Rolls life expectancy	Feeds - adjustable by CSE	W Tray2FeedRollsExpLife	NVMConfiguration	longNatural	No	1.434	
606-519	Tray 2 Pick & Separator Roller life expectancy	Feeds - adjustable by CSE	W Tray2FeedRollsExpLife	NVMConfiguration	longNatural	No	1.805	
606-520	Tray 3 Feed Rolls Life Expectancy	Feeds - adjustable by CSE	W Tray3FeedRollsExpLife	NVMConfiguration	longNatural	No	1.434	
606-520	Tray 3 Pick & Separator Roller Life Expectancy	Feeds - adjustable by CSE	W Tray3FeedRollsExpLife	NVMConfiguration	longNatural	No	1.805	
606-521	Tray 5 (MSI) Feed Rolls life expectancy	Feeds - adjustable by CSE	W Tray5FeedRollsExpLife	NVMConfiguration	longNatural	No	1.434	
606-522	Tray 6 (PFP) Feed Rolls life expectancy	Feeds - adjustable by FCSE	W Tray6FeedRollsExpLife	NVMConfiguration	longNatural	No	1.434	
606-523	Fuser Life Expectancy	Modifiable via DC131 F	W FuserLife	NVMConfiguration	longNatural	No	1.206	
606-523	Fuser Life Expectancy	Modifiable via DC131 F	W FuserLife	NVMConfiguration	longNatural	No	1.805	
606-527	Tray 7 (PPI) Feed Rolls install date	unix timedate - set when user resets count	D Tray7FeedRollsInstDate	NVMConfiguration	longNatural	No	1.667	
606-528	Tray 1 Feed Rolls install date	unix timedate - set when user resets count	D Tray1FeedRollsInstDate	NVMConfiguration	longNatural	No	1.667	
606-529	Tray 2 Feed Rolls install date	unix timedate - set when user resets count	D Tray2FeedRollsInstDate	NVMConfiguration	longNatural	No	1.667	
606-530	Tray 3 Feed Rolls install date	unix timedate - set when user resets count	D Tray3FeedRollsInstDate	NVMConfiguration	longNatural	No	1.667	
606-531	Tray 5 (MSI) Feed Rolls install date	unix timedate - set when user resets count	D Tray5FeedRollsInstDate	NVMConfiguration	longNatural	No	1.667	
606-532	Tray 6 (PFP) Feed Rolls install date	unix timedate - set when user resets count	D Tray6FeedRollsInstDate	NVMConfiguration	longNatural	No	1.667	
606-538	Label Enablement for T1 / T2	0=disabled F 1=enabled	W T1/ T2 Label Enablement	NVMConfiguration	shortNatural	No	1.510	
	i	· .		•	•		<u> </u>	

606-540	Bias Transfer Roll Install Date	Bias Transfer Roller ND installation date		NVMConfiguration	longNatural	No		1.667
606-572	Fault Counter 12-098: FinisherFlashROMFailFC	no. of faults	/ FinisherFlashROMFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-098- 00:	1.521
606-573		no. of faults RV	/ FinisherCommErrorFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-099- 00:	1.521
606-578	Fault Counter 12-480:	no. of faults RV	/ FinisherElevationDriveFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-480-	1.521
	FinisherPaperPressDriveFailFC		/ FinisherPaperPressDriveFailFC	NVMFaultCounter		No	Fault Counter:12-481- 00: FinisherPaperPressDri veFailFC	1.521
606-580	FinisherAlignPlateDriveFailFC		/ FinisherAlignPlateDriveFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-482- 00: FinisherAlignPlateDrive FailFC	
606-581	FinisherEjectRollerContactFailFC	no. of faults RV	/ FinisherEjectRollerContactFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-483- 00: FinisherEjectRollerCon tactFailFC	1.521
606-582	Fault Counter 12-484: FinisherStorageBeltContactFailFC	no. of faults RV	/ FinisherStorageBeltContactFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-484- 00: FinisherStorageBeltCo ntactFailFC	1.521
606-583	Fault Counter 12-485: FinisherBundleEjectMotorFailFC	no. of faults RV	/ FinisherBundleEjectMotorFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-485- 00: FinisherBundleEjectMo	1.521
606-604	Fault Counter 12-487: JamFinisherTransportAreaFC	no. of faults RV	/ JamFinisherTransportAreaFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-487- 00: JamFinisherTransport	1.521
606-605	Fault Counter 12-488: JamFinisherUpperOutputTrayFC	no. of faults RV	/ JamFinisherUpperOutputTrayFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-488- 00: JamFinisherUpperOutp	1.521
606-606	Fault Counter 12-489: JamFinisherStackerOutputTrayFC	no. of faults RV	/ JamFinisherStackerOutputTrayFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-489- 00: JamFinisherStackerOu	1.521
606-607	Fault Counter 12-491: StaplerJamFC	no. of faults RV	/ StaplerJamFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-491- 00: StaplerJamFC	1.521
606-629	This supports the AIF counter Color Drum Cartridge in Position R2	ND		NVMSystemUsageCounter	natural	No	System Usage Counter:342: Color Drum Cartridge in	1.799
	IOTTOTALXCRUREPLACEMENTS_M This supports the AIF counter Color Drum Cartridge in Position R3	ND		NVMSystemUsageCounter	natural	No	System Usage Counter:343: Color Drum Cartridge in	1.799
606-631	IOTTOTALXCRUREPLACEMENTS_Y This supports the AIF counter Color Drum Cartridge in Position R4	ND		NVMSystemUsageCounter	natural	No	System Usage Counter:344: Color Drum Cartridge in	1.799
	Default is the version number of the Excel		/ FS23.201 Table Version	NVMConfiguration	natural	No		1.707
	Default is the version number of the Excel		/ FS23.201 Table Version	NVMConfiguration	natural	No		1.781
606-787	table used to create the NVM	create the NVM ie V1.234 = 1234	/ FS23.201 Table Version	NVMConfiguration	natural	No		1.781
606-787		Table Version used to create the NVM ie V1.234	/ FS23.201 Table Version	NVMConfiguration	natural	No		1.781

606-787	Default is the version number of the Excel table used to create the NVM	Table Version used to create the NVM ie V1.774 = 1774	FS23.201 Table Version	NVMConfiguration	natural	No		1.800	
606-787	Default is the version number of the Excel table used to create the NVM	Table Version used to create the NVM ie V1.774 = 1774	FS23.201 Table Version	NVMConfiguration	natural	No		1.800	
606-787	table used to create the NVM	Table Version used to create the NVM ie V1.765 = 1765	FS23.201 Table Version	NVMConfiguration	natural	No		1.816	
606-787	Default is the version number of the Excel	Table Version used to RM	FS23.201 Table Version	NVMConfiguration	natural	No		1.807	
			FS23.201 Table Version	NVMConfiguration	natural	No		1.810	
606-801	Fault Counter 12-444: Paper Pusher Switch Fault	no. of faults	PapPusherSwitchFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-444- 00: Paper Pusher	1.521	
606-806	Default Staple position (HVF only)	1 = Staple head moves to RW		NVMSAKOSetting	shortNatural	No		1.189	
606-820	Number of Grams of toner in a Standard size cartridge - Burgundy	Grams	TonerGramsStd	NVMConfiguration	natural	No		1.526	
606-821	Number of Grams of toner in a High Capacity cartridge - Burgundy	Grams	TonerGramsHiCap	NVMConfiguration	natural	No		1.526	
606-821	Number of Grams of toner in a High Capacity cartridge - Barolo	Grams RW	TonerGramsHiCap	NVMConfiguration	natural	No		1.526	
606-834	B4 Sheets Used Total of B4 sheets since activation date	B4 Sheets Used ND Total of B4 sheets since	B4 Sheets Used	NVMSystemUsageCounter	byteArray	No	System Usage Counter:???: B4	1.799	
606-838			TonerGramsStdYellow	NVMConfiguration	natural	No	Counter Transfer	1.572	
606-839	Number of Grams of toner in a Standard size cartridge - Magenta	Grams RW	TonerGramsStdMagenta	NVMConfiguration	natural	No		1.572	
606-840	Number of Grams of toner in a Standard size cartridge - Cyan	Grams RW	TonerGramsStdCyan	NVMConfiguration	natural	No		1.572	
606-842	Number of Grams of toner in a High Capacity cartridge - Yellow	Grams RW	TonerGramsHiCapYellow	NVMConfiguration	natural	No		1.572	
606-843	Number of Grams of toner in a High Capacity cartridge - Magenta	Grams RW	TonerGramsHiCapMagenta	NVMConfiguration	natural	No		1.572	
	<u>L</u>		<u> </u>						

606-844	Number of Grams of toner in a High Capacity cartridge - Cyan	Grams RW	TonerGramsHiCapCyan	NVMConfiguration	natural	No	1.572	
606-845	Number of Grams of toner in a High Capacity cartridge - Black	Grams RW	TonerGramsHiCapBlack	NVMConfiguration	natural	No	1.572	
606-867		Range and default size in mm		NVMSAKOSetting		No	1.354	
606-868		Range and default size in RW mm	Tray 1 Envelopes: Length	NVMSAKOSetting	natural	No	1.354	

606.074	Fault Counter 12 250 00:	no of faulto	[FigetHemoConcerONF-:1	INIV/ME quitCounter	ob ortNlatural	INIo	Foult Counts = 40 050	1 913	
000-874		no. of faults RW	EjectHomeSensorONFail	NVMFaultCounter	shortNatural	No	Fault Counter:12-259-	1.013	
	EJECTHOMESENSORONFAILCTR						00:EJECTHOMESENS		
							ORONFAILCTR		
1									
1									
1									
1									
606-875	Fault Counter 12-280-00:	no. of faults RW	EjectHomeSensorOFFFail	NVMFaultCounter	shortNatural	No	Fault Counter:12-280-	1.813	
000-073	EJECTHOMESENSOROFFFAILCTR	no. or radits	Ljeethomeochsorom man		Siloitivatarai		00:EJECTHOMESENS	1.010	
	EJECTHOMESENSOROFFFAILCTR								
							OROFFFAILCTR		
606-876		no. of faults	StackerTrayStapleSetOverCount	NVMFaultCounter	shortNatural	No	Fault Counter:12-917-	1.521	
	STACKERTRAYSTAPLESETOVERCOUN						00:STACKERTRAYST		
606-877	Fault Counter 12-928-00:	no. of faults RW	ScratchSheetCompile	NVMFaultCounter	shortNatural	No	Fault Counter:12-928-	1.521	
606-878	Fault Counter 12-976-00: STAPLENGCTR			NVMFaultCounter	shortNatural	No	Fault Counter:12-976-	1.813	
			· ·				00:STAPLENGCTR		
1									
606-879	Fault Counter 12-977-00:	no. of faults RW	StaplerFeedReadyFail	NVMFaultCounter	shortNatural	No	Fault Counter:12-977-	1.813	
606-880	Fault Counter 12-982-00:	no. of faults RW	StackerLowerSafetyWarning	NVMFaultCounter	shortNatural	No	Fault Counter:12-982-	1.521	

606-881	Fault Counter 12-269-00:	no. of faults	RW BookletSubCPUCommFail	NVMFaultCounter	shortNatural	No	Fault Counter:12-269-	1.813	
	BOOKLETSUBCPUCOMMFAILCTR						00:BOOKLETSUBCPU		
							COMMFAILCTR		
	Fault Counter 12-111-00:	no. of faults	RW H_XportEntSnrOFFJam	NVMFaultCounter	shortNatural	No	Fault Counter:12-111-	1.521	
	H_XPORTENTSNROFFJAMCTR						00:H_XPORTENTSNR OFFJAMCTR		
							OFFJAMOTA		

606-883	Fault Counter 12-249-00: BOOKLETFRONTSTAPLERFAILCTR	no. of faults	N BookletFrontStaplerFail	NVMFaultCounter	shortNatural	No	Fault Counter:12-249- 00:BOOKLETFRONTS	
606-884		no. of faults	N BookletRearStaplerFail	NVMFaultCounter	shortNatural	No	Fault Counter:12-268- 00:BOOKLETREARST	
606-885		no. of faults R	BookletStapleMovePosi_SnrONFail	NVMFaultCounter	shortNatural	No		1.813
606-886		no. of faults	W BookletStapleMovePosi_SnrOFFFail	NVMFaultCounter	shortNatural	No		1.813
		System sets this upon N		NVMConfiguration		No	T auti Couriler. 12-2 13-	1.751
000-007		new unit detection or confirmation		TVVIII-OHINGUIALIOH	longivatural	NO		1.701
606-887		System sets this upon N		NVMConfiguration	longNatural	No		1.751
		System sets this upon N		NVMConfiguration		No		1.751
		System sets this upon N		NVMConfiguration		No		1.751
		new unit detection or confirmation		TVV MOOTHIGUICATOTI	iongradiara			
	Number of Grams of toner in a Extra High Capacity cartridge - Burgundy		N TonerGramsExtraHiCap	NVMConfiguration	natural	No		1.526
	cartridge - Burgundy		N TonerGramsPrevious	NVMConfiguration	natural	No		1.526
606-923		Grams R	V TonerGramsPreviousK	NVMConfiguration		No		1.572
606-925	Number of Grams of toner in previous Y cartridge - Barolo Default is Starter cartridge Size	Grams R	N TonerGramsPreviousY	NVMConfiguration	natural	No		1.572
606-926	Number of Grams of toner in previous M	Grams R	N TonerGramsPreviousM	NVMConfiguration	natural	No		1.572

606-927	Number of Grams of toner in previous C	Grams RW	TonerGramsPreviousC	NVMConfiguration	natural	No		1.572	
				NVMSystemUsageCounter	natural	No	System Usage	1.799	
	·	counter	· ·				Counter:???:		
							FANFILTERREPLACE		
							MENTS		
					1				
					1				
					1				
606-930	Counter-DualStapleFreeStapled	ND		NVMSystemUsageCounter	byteArray	No	System Usage Counter	1 700	
000-930		l l <sub>ND</sub>		v vivioysterii osage coulitei	byleAllay	INO	10884: All dual Staple	1.733	
606-931	Counter-StapleFreeStapledSheets	ND ND		NVMSystemUsageCounter	by to Arroy	No	Free Staples	1.799	
000-931	Counter-Stapler ree Stapled Sneets	l l <sub>MD</sub>		in vivioysternosagecounter	byteArray	No	System Usage	1.738	
606.000	Country All Lincollete - Ct	ND		NIV/AAC vata mal la a vi a C a viinta a	by da Armery	Na	Counter:10883: All	1.700	
606,000	Counter-All Uncollated StapleFreeStapled	ND		NVMSystemUsageCounter	byteArray	No	System Usage	1.799	
	Counter-StapleFreeStapled2_15	ND		NVMSystemUsageCounter	byteArray	No	System Usage	1.799	
			3xA4 Long Sheets	NVMSystemUsageCounter	byteArray	No		1.799	
		that is Larger than A3			1				
	Total of 3xA4 Long Banner Sheet Used	Total of Long 3xA4 sheets							
	since activation date	since activation date							
				NVMSystemUsageCounter	byteArray	No		1.799	
606-936	Total of 5xA4 Long Banner Sheet Used	5xA4 Long Sheets Used ND	5xA4 Long Sheets	NVMSystemUsageCounter	byteArray	No		1.799	

202 207	TT + 1 (0 A4) B OL + 11 1	lo a d l l l l l l l l l l l l l l l l l l	0 44	N. (140 )	II ( A	la i	4 700	
606-937	Total of 6xA4 Long Banner Sheet Used	6xA4 Long Sheets Used ND	6xA4 Long Sheets	NVMSystemUsageCounter	byteArray	No	1.799	
	that is Larger than A3	that is Larger than A3						
	Total of 6xA4 Long Banner Sheet Used	Total of Long 6xA4 sheets						
	since activation date	since activation date						
	Since activation date	Since activation date						
								1
606-938	Total of Extra Long Black Banner Sheet	Black Banner Sheets ND	Black Extra Long Sheets	NVMSystemUsageCounter	byteArray	No	1.799	
	made that is Larger than A3	Used that is Larger than		•	'			
		A3						
	Total of Extra Long black barrier Sheet	A3						
	made since activation date	Total of Black Banner						
		sheets since activation						
		date						
								1
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tra ExtSnrOnJamFaultCountFC NVM	/MFaultCounter sho /MFaultCounter sho /MFaultCounter sho /MFaultCounter sho /MFaultCounter sho	oortNatural No	00: Fault Counter:12-129- 00: H-tra Fault Counter:12-110- Fault Counter:12-355- 00: STAPLELESSSUBCP UDOWNLOADMODEF AILFAULTCOUNT Fault Counter:12-333- Fault Counter:12-250-	1.813 1.813 1.813 1.813 1.813 1.813	
tra ExtSnrOnJamFaultCountFC NVM  tra ExtSnrOnJamFaultCountFC NVM  TAPLELESSCPUDOWNLOADMOD NVM  JNCHCPUDOWNLOADMODEFAI NVM  JNCHSUBCPUCOMMFAILF NVM  TAPLELESSSUBCPUCOMMFAILF NVM	/MFaultCounter sho /MFaultCounter sho /MFaultCounter sho /MFaultCounter sho /MFaultCounter sho	nortNatural No nortNatural No nortNatural No nortNatural No nortNatural No nortNatural No	00: Fault Counter:12-129- 00: H-tra Fault Counter:12-110- Fault Counter:12-355- 00: STAPLELESSSUBCP UDOWNLOADMODEF AILFAULTCOUNT Fault Counter:12-333- Fault Counter:12-250-	1.813 1.813 1.813 1.813 1.813	
TAPLELESSCPUCOMMFAILF NVM  TAPLELESSCPUDOWNLOADMOD NVM  JNCHCPUDOWNLOADMODEFAI NVM  JNCHSUBCPUCOMMFAILFAULT NVM  TAPLELESSSUBCPUCOMMFAILF NVM	/MFaultCounter sho /MFaultCounter sho /MFaultCounter sho /MFaultCounter sho	nortNatural No nortNatural No nortNatural No nortNatural No nortNatural No	00: H-tra Fault Counter:12-110- Fault Counter:12-355- 00: STAPLELESSSUBCP UDOWNLOADMODEF AILFAULTCOUNT Fault Counter:12-333- Fault Counter:12-250-	1.813 1.813 1.813 1.813	
JNCHCPUDOWNLOADMODEFAI NVM JNCHSUBCPUCOMMFAILFAULT NVM TAPLELESSSUBCPUCOMMFAILF	/MFaultCounter sho /MFaultCounter sho /MFaultCounter sho	ortNatural No ortNatural No ortNatural No	Fault Counter:12-110- Fault Counter:12-355- 00: STAPLELESSSUBCP UDOWNLOADMODEF AILFAULTCOUNT Fault Counter:12-333- Fault Counter:12-250-	1.813 1.813 1.813	
JNCHCPUDOWNLOADMODEFAI NVM JNCHSUBCPUCOMMFAILFAULT NVM TAPLELESSSUBCPUCOMMFAILF	/MFaultCounter sho /MFaultCounter sho /MFaultCounter sho	ortNatural No ortNatural No ortNatural No	Fault Counter:12-355- 00: STAPLELESSSUBCP UDOWNLOADMODEF AILFAULTCOUNT Fault Counter:12-333- Fault Counter:12-250-	1.813 1.813 1.813	
JNCHSUBCPUCOMMFAILFAULT NVM FAPLELESSSUBCPUCOMMFAILF NVM	/MFaultCounter sho	ortNatural No	Fault Counter:12-250-	1.813	
TAPLELESSSUBCPUCOMMFAILF NVM					
	/MFaultCounter sho	ortNatural No	Fault Counter:12-991-	1 813	
			00: STAPLELESSUBCP UCOMMUNICATIONF AILFAULT		

606 047	Foult Counter 12 000 00:	no of times foult assumed	D\^/	LINICTADI EEAH EAH TOOLINIT	NIV/ME quite queter	abortNist	INIo	Fault Countari 40 000	1 012	<del>                                     </del>	$\neg$
606-947	Fault Counter 12-990-00: HNSTAPLEFAILFAULTCOUNT	ino.or umes lauit occurred	KW	HNSTAPLEFAILFAULTCOUNT	NVMFaultCounter	shortNatural	No	Fault Counter:12-990-	1.813		
	INSTAFLEFAILFAULTCOUNT							HNSTAPLEFAILFAUL			
								T			
								1			
606.049	Fault Counter 13-210-00:	no of times foult accurred	D\\/	L BOOKLETSTAPLEMOVEPOSSNRC	NVME aultCounter	shortNatural	No	Fault Counter:13-210-	1.813		4
000-946	BOOKLETSTAPLEMOVEPOSITIONSNR	lio.or times fault occurred	IK V V	NFAILFC	INVINIFAUILCOUTILET	Shortivaturai	INO	nn.	1.013		
	ONFAILFAULTCOUNT			INI AILI C				BOOKLETSTAPLEMO			
	ON ALL AGETOGON							VEPOSITIONSNRONF			
								AILFAULT			
606-949	Fault Counter 13-211-00:	no.of times fault occurred	RW	BOOKLETSTAPLEMOVEPOSSNRC	NVMFaultCounter	shortNatural	No	Fault Counter:13-210-	1.813	<del>                                     </del>	$\dashv$
	BOOKLETSTAPLEMOVEPOSITIONSNR			FFFAILFC				00:			
	OFFFAILFAULTCOUNT							BOOKLETSTAPLEMO			
								VEPOSITIONSNROFF			
								FAILFAULT			
606-950	Fault Counter 12-992-00: HN Stacker	no.of times fault occurred	RW	HNSTACKERSTAPLEMOVEPOSSN	NVMFaultCounter	shortNatural	No	Fault Counter:12-992-	1.813		
	Stapler Move Position SNR ON Fail			RONFC				00:			
								HNSTACKERSTAPLE			
								MOVEPOSSNRONFA			
000.054	F It O 40 000 00 01 1 01		D\4′	OTA OVEROTARI EN OVEROSSINO	N / M F II O	ala and N. C. C.	N.L.	ULT	4.040		4
606-951	Fault Counter 12-993-00: Stacker Stapler	no.of times fault occurred		STACKERSTAPLEMOVEPOSSNRC	INVMFaultCounter	shortNatural	INO	Fault Counter:12-993-	1.813		
	Move Position SNR OFF Fail			FFFC				UU:			
								STACKERSTAPLEMO VEPOSSNROFFFAUL			
								T T T T T T T T T T T T T T T T T T T			
						<u> </u>		[ <sup>1</sup>		1	

606-952	No. of Print calibration attempts	RW	Print Calibration attempts	NVMSystemUsageCounter	natural	No	1.808		
			·						
606-953	No. of Copy calibration attempts	RW	Copy Calibration attempts	NVMSystemUsageCounter	natural	No	1.808		
000 000	Tro. or copy dampitation attempts			- Transition of the state of th	natarai		1.000		
1									
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606-954	Toner Darkness Control for Alexandra Mono Engines	1 (Lightest) to 10 R (Darkest) Default = 8	W TonerDarknessCtrl	NVMSAKOSetting	shortNatural	No		1.797
606-959	Bias Transfer Roller (BTR) Life Counter	Feeds - counted by R system	W BTRLifeCount	NVMHFSICounter	longNatural	No		1.813
606-960	Bias Transfer Roller (BTR) Life Expectancy	Modifiable via DC131 R	W BTRExpLife	NVMConfiguration	longNatural	No		1.805
608-411	Fault Counter 12-370-00: Stapler End Home Failure	no. of faults	N Stapler End Home Failure	NVMFaultCounter	shortNatural	No	Fault Counter:12-370- 00: Stapler End Home	1.521
608-412	Fault Counter 12-369-00: Stapler Return End Home Failure	no. of faults	W Stapler Return End Home Failure	NVMFaultCounter	shortNatural	No	Fault Counter:12-369- 00: Stapler Return End Home Failure	1.521
608-413	Fault Counter 12-368-00: Punch Unit paper side edge 2 detecting failure	no. of faults R	W Punch - side edge2 detect fail	NVMFaultCounter	shortNatural	No	Fault Counter:12-368- 00: Punch Unit paper side edge 2 detecting failure	1.521
608-414	Fault Counter 12-367-00: Punch Unit paper side edge 3 detecting failure	no. of faults	W Punch - side edge3 detect fail	NVMFaultCounter	shortNatural	No	Fault Counter:12-367- 00: Punch Unit paper side edge 3 detecting failure	1.521
608-565	Fault Counter 45-321-00:MK Panel NG	no. of faults R	W MK Panel NG	NVMFaultCounter	shortNatural	No	Fault Counter:45-321-	1.254
608-566	Fault Counter 45-322-00:MK Pitch NG		W MK Pitch NG	NVMFaultCounter		No	Fault Counter:45-322-	1.254
	Fault Counter 45-331- 00:MK_MKIF_MSG_Reject		W MK_MKIF_MSG_Reject	NVMFaultCounter		No	Fault Counter:45-331- 00: MK_MKIF_MSG_Reject	1.254
608-568	Fault Counter 45-332- 00:MK MMIF MSG Reject	no. of faults	W MK_MMIF_MSG_Reject	NVMFaultCounter	shortNatural	No	Fault Counter:45-332- 00:	1.254
608-569	Fault Counter 45-350- 00:MK Emergency Over Wait	no. of faults	W MK_Emergency_Over_Wait	NVMFaultCounter	shortNatural	No	Fault Counter:45-350- 00:	1.254
608-570	Fault Counter 45-351- 00:MK Emergency No Timer	no. of faults	W MK_Emergency_No_Timer	NVMFaultCounter	shortNatural	No	Fault Counter:45-351- 00:	1.254
608-571	Fault Counter 45-352- 00:MK Emergency Enforced Stop	no. of faults	W MK_Emergency_Enforced_Stop	NVMFaultCounter	shortNatural	No	Fault Counter:45-352- 00:	1.254
608-572	Fault Counter 45-313- 00:ENG LOGIC FAIL	no. of faults R	W ENG_LOGIC_FAIL	NVMFaultCounter	shortNatural	No	Fault Counter:45-313- 00: ENG_LOGIC_FAIL	1.254
	Fault Counter 72-108-00:Feed Out			NVMFaultCounter		No	Fault Counter:72-108-	1.254
	•		W Regi Sensor On Jam_Tray1-4	NVMFaultCounter		No	Fault Counter:72-109-	1.254
			W POB Sensor On Jam W Regi Sensor Off Jam	NVMFaultCounter NVMFaultCounter		No No	Fault Counter:77-200- Fault Counter:77-201- 00: Regi Sensor Off Jam	1.813
608-577	Fault Counter 77-202-00:Exit Sensor1 On	no. of faults	W Exit Sensor1 On Jam	NVMFaultCounter	shortNatural	No	Fault Counter:77-202-	1.254
	Fault Counter 77-203-00:Exit Sensor2 On		W Exit Sensor2 On Jam	NVMFaultCounter	shortNatural		Fault Counter:77-203-	1.254

608-579	Fault Counter 77-204-00:Exit Sensor1 Off	no. of faults	RW Exit Sensor1 Off Jam_Long	NVMFaultCounter	shortNatural	No	Fault Counter:77-204-	1.254	
		no. of faults		NVMFaultCounter	shortNatural		Fault Counter:77-104-	1.813	
608-581	Fault Counter 77-105-00:Exit Sensor2 Off	no. of faults	RW Exit Sensor2 Off Jam	NVMFaultCounter	shortNatural	No	Fault Counter:77-105-	1.813	
	Fault Counter 77-131-00:Duplex Path	no. of faults		NVMFaultCounter	shortNatural			1.813	
	Fault Counter 77-900-00:IOT Static Jam	no. of faults		NVMFaultCounter			Fault Counter:77-900-	1.813	
	Fault Counter 77-903-00:IOT Static Jam	no. of faults		NVMFaultCounter			Fault Counter:77-903-	1.813	
	Fault Counter 77-901-00:IOT Static Jam	no. of faults	<u> </u>	NVMFaultCounter			Fault Counter:77-901-	1.813	
	Fault Counter 77-902-00:IOT Static Jam	no. of faults		NVMFaultCounter			Fault Counter:77-902-	1.813	
	(@Exit Sensor2)						00: IOT Static Jam		
	(@_/ 0000)						(@Exit Sensor2)		
							(@2/// 00/100/2)		
608-587	Fault Counter 77-907-00:IOT Static Jam	no. of faults	RW IOT StaticJam Duplex Path Sensor	NVMFaultCounter	shortNatural	No	Fault Counter:77-907-	1.813	
000 007	(@Duplex Path Sensor)	ino. or radio	Titl Change and Baplox Faul College	Try wir dance dancer	onorti tatarar		00: IOT Static Jam	1.010	
	(WE aprox 1 attraction)						(@Duplex Path		
							Sensor)		
608-588	Fault Counter 78-214-00:TTM #2 3 Lift Up	no of faults	RW TTM #2 3 Lift Up Fail	NVMFaultCounter	shortNatural		Fault Counter:78-214-	1.254	
000-000	Fail	ino. or iduits	Trivi #2 o Ent op i an	INVIVII aditodulitei	Shortivatarai		00: TTM #2 3 Lift Up	1.254	
							Fail		
							ı alı		
608-589	Fault Counter 78-211-00:TTM #3 4 Lift Up	no of faults	RW TTM #3 4 Lift Up Fail	NVMFaultCounter	shortNatural	No	Fault Counter:78-211-	1.254	
000 000	Fail	ino. or iddito	Trivino 4 Ent op 1 dil	Try wir duite ouritor	Shorti Vatarar		00: TTM #3 4 Lift Up	1.204	
							Fail		
							ı alı		
608-590	Fault Counter 71-940-00:#1 Lift Up NG	no. of faults	RW #1 Lift Up NG	NVMFaultCounter	shortNatural	No	Fault Counter:71-940-	1.254	
000-000	dail Oddiller     1-340-00.#   Elit Op NO	ino. or iduits	TW #1 Lift Op 140	INVIVII aditodulitei	Shortivatarai		00: #1 Lift Up NG	1.254	
							00. // 1 Ent op 110		
608-591	Fault Counter 72-940-00:#2 Lift Up NG	no. of faults	RW #2 Lift Up NG	NVMFaultCounter	shortNatural	No	Fault Counter:72-940-	1.254	
000-001	duit Gouinter 12-340-00.#2 Ent op 146	ino. or iduits	TW #2 Lift Op 140	INVIVII aditodulitei	Shortivatarai		00: #2 Lift Up NG	1.254	
							00. π2 Liit Op 140		
608-592	Fault Counter 73-940-00:#3 Lift Up NG	no. of faults	RW #3 Lift Up NG	NVMFaultCounter	shortNatural	No	Fault Counter:73-940-	1.254	
000 002	T dan Godino 70 010 00://0 Em Op 110	ino. or radio	THE PROPERTY OF THE	Try wir dance dancer	onorti tatarai		00: #3 Lift Up NG	1.201	
							00. 110 Ent op 110		
608-593	Fault Counter 74-940-00:#4 Lift Up NG	no. of faults	RW #4 Lift Up NG	NVMFaultCounter	shortNatural	No	Fault Counter:74-940-	1.254	
000 000	and Souther 11 515 South Ent op 115	ino. or radio	THE SPINE	Try wir dance dancer	onorti tatarai		00: #4 Lift Up NG	1.201	
							00. II4 EII OP 110		
608-594	Fault Counter 78-945-00:TTM #2 3 Lift Up	no of faults	RW TTM #2 3 Lift Up NG	NVMFaultCounter	shortNatural	No	Fault Counter:78-945-	1.254	
000 00 1	NG	ino. or radio	Title 17 Title 17 Each op 110	Try wir dance dancer	onorti tatarar		00: TTM #2 3 Lift Up	1.201	
							NG		
608-595	Fault Counter 78-946-00:TTM #3 4 Lift Up	no, of faults	RW TTM #3 4 Lift Up NG	NVMFaultCounter	shortNatural	No	Fault Counter:78-946-	1.254	
	NG						00: TTM #3 4 Lift Up		
							NG		
608-596	Fault Counter 47-211-00:Exit1 OCT Home	no, of faults	RW Exit1 OCT Home Fail	NVMFaultCounter	shortNatural	No	Fault Counter:47-211-	1.813	
	Fail	ino. or iddito					00: Exit1 OCT Home		
							Fail		
							1 MII		
	<u> </u>	L		1					

608-597	Fault Counter 47-212-00:Exit2 OCT Home Fail	no. of faults	Exit2 OCT Home Fail	NVMFaultCounter	shortNatural No	Fault Counter:47-212- 00: Exit2 OCT Home Fail	1.813
608-598	Fault Counter 71-212-00:TRAY1 Sensor Fail	no. of faults	TRAY1 Sensor Fail	NVMFaultCounter	shortNatural No	Fault Counter:71-212- 00: TRAY1 Sensor Fail	1.813
608-599	Fault Counter 72-212-00:TRAY2 Sensor Fail	no. of faults	TRAY2 Sensor Fail	NVMFaultCounter	shortNatural No	Fault Counter:72-212- 00: TRAY2 Sensor Fail	1.813
608-600	Fault Counter 73-212-00:TRAY3 Sensor Fail	no. of faults	TRAY3 Sensor Fail	NVMFaultCounter	shortNatural No	Fault Counter:73-212- 00: TRAY3 Sensor Fail	1.813
608-601	Fault Counter 74-212-00:TRAY4 Sensor Fail	no. of faults	TRAY4 Sensor Fail	NVMFaultCounter	shortNatural No	Fault Counter:74-212- 00: TRAY4 Sensor Fail	1.813
608-602	Fault Counter 77-214-00:P/H Module Logic Fail	no. of faults	P/H Module Logic Fail	NVMFaultCounter	shortNatural No	Fault Counter:77-214- 00: P/H Module Logic Fail	1.813
608-603	Fault Counter 77-215-00:Tray Module Comm Fail	no. of faults	Tray Module Comm Fail	NVMFaultCounter	shortNatural No	Fault Counter:77-215- 00: Tray Module Comm Fail	1.813
608-604	Fault Counter 77-602-00:OHP Sensor Fail	no. of faults	OHP Sensor Fail	NVMFaultCounter	shortNatural No	Fault Counter:77-602- 00: OHP Sensor Fail	1.813
608-605	Fault Counter 77-212-00:Tray Module Reset Fail	no. of faults	/ Tray Module Reset Fail	NVMFaultCounter	shortNatural No	o Fault Counter:77-212- 00: Tray Module Reset	1.813
608-606		no. of faults	Tray Module Logic Fail	NVMFaultCounter	shortNatural No	,	1.813
608-607	Fault Counter 77-211-00:Tray Module Kind Mismatch	no. of faults	Tray Module Kind Mismatch	NVMFaultCounter	shortNatural No	Fault Counter:77-211- 00: Tray Module Kind Mismatch	1.813
608-608	Fault Counter 78-216-00:HCF Logic Fail	no. of faults	HCF Logic Fail	NVMFaultCounter	shortNatural No	o Fault Counter:78-216- 00: HCF Logic Fail	1.813
608-609	Fault Counter 77-320-00:ALL Feed Tray Broken	no. of faults	ALL Feed Tray Broken	NVMFaultCounter	shortNatural No		1.813
608-610	Fault Counter 47-320-00:ALL Destination Tray Broken	no. of faults	ALL Destination Tray Broken	NVMFaultCounter	shortNatural No	Fault Counter:47-320- 00: ALL Destination Tray Broken	1.813

608-611	Fault Counter 94-300-00:IBT Front Cover	no. of faults	RW IBT Front Cover	NVMFaultCounter	shortNatural	No	Fault Counter:94-300- 00: IBT Front Cover	1.254
608-612	Fault Counter 78-219-00:HCF PF2 Soft Download Fail	no. of faults	RW HCF PF2 Soft Download Fail	NVMFaultCounter	shortNatural	No	Fault Counter:78-219- 00: HCF PF2 Soft Download Fail	1.813
608-613	Fault Counter 78-213-00:Finisher Kind Mismatch	no. of faults	RW Finisher Kind Mismatch	NVMFaultCounter	shortNatural	No	Fault Counter:78-213- 00: Finisher Kind Mismatch	1.813
608-614	Fault Counter 75-103-00:MSI Feed Out Sensor Off Jam	no. of faults	RW MSI Feed Out Sensor Off Jam	NVMFaultCounter	shortNatural	No	Fault Counter:75-103- 00: MSI Feed Out Sensor Off Jam	1.813
608-615	Fault Counter 94-400-00:1st BTR Contact/Retract Fail	no. of faults	RW 1st BTR Contact/Retract Fail	NVMFaultCounter	shortNatural	No	Fault Counter:94-400- 00: 1st BTR Contact/Retract Fail	1.813
608-616	Fault Counter 94-401-00:2nd BTR Contact/Retract Fail	no. of faults	RW 2nd BTR Contact/Retract Fail	NVMFaultCounter	shortNatural	No	Fault Counter:94-401- 00: 2nd BTR Contact/Retract Fail	1.254
608-617	Fault Counter 94-417-00:IBT Unit Near End Warning	no. of faults	RW IBT Unit Near End Warning	NVMFaultCounter	shortNatural	No	Fault Counter:94-417- 00: IBT Unit Near End Warning	1.254
608-618	Fault Counter 94-418-00:IBT CLN Unit Near End Warning	no. of faults	RW IBT CLN Unit Near End Warning	NVMFaultCounter	shortNatural	No	Fault Counter:94-418- 00: IBT CLN Unit Near End Warning	1.254
608-619	Fault Counter 94-419-00:2nd BTR Unit Near End Warning	no. of faults	RW 2nd BTR Unit Near End Warning	NVMFaultCounter	shortNatural	No	Fault Counter:94-419- 00: 2nd BTR Unit Near End Warning	1.254
608-620	Fault Counter 94-420-00:IBT Unit End Warning	no. of faults	RW IBT Unit End Warning	NVMFaultCounter	shortNatural	No	Fault Counter:94-420- 00: IBT Unit End Warning	1.254
608-621	Fault Counter 94-421-00:IBT CLN Unit End Warning	no. of faults	RW IBT CLN Unit End Warning	NVMFaultCounter	shortNatural	No	Fault Counter:94-421- 00: IBT CLN Unit End Warning	1.254
608-622	Fault Counter 94-422-00:2nd BTR Unit End Warning	no. of faults	RW 2nd BTR Unit End Warning	NVMFaultCounter	shortNatural	No	Fault Counter:94-422- 00: 2nd BTR Unit End Warning	1.254
608-623	Fault Counter 91-310-00:Auger Broken	no. of faults	RW Auger Broken	NVMFaultCounter	shortNatural	No	Fault Counter:91-310- 00: Auger Broken	1.254
608-624	Fault Counter 10-371-00:Heat Belt STS Center Disconnection Fail	no. of faults	RW HeatBelt STSCenterDisconnectFail	NVMFaultCounter	shortNatural	No	Fault Counter:10-371- 00: Heat Belt STS Center Disconnection Fail	1.813

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608-625	Fault Counter 10-372-00:Heat Belt STS Center Over Temperature Fail	no. of faults	RW HeatBelt STSCenterOverTempFail	NVMFaultCounter	shortNatural No	Fault Counter:10-372- 1.813 00: Heat Belt STS Center Over Temperature Fail
608-626	Fault Counter 10-375-00:Heat Belt STS Center Warm Up Time Fail	no. of faults	RW HeatBeltSTSCenterWarmUpTime Fail	NVMFaultCounter	shortNatural No	Fault Counter:10-375- 1.813 00: Heat Belt STS Center Warm Up Time Fail
608-627	Fault Counter 10-376-00:Heat Belt STS Rear Warm Up Time Fail	no. of faults	RW HeatBeltSTSRearWarmUpTimeFail	NVMFaultCounter	shortNatural No	Fault Counter:10-376- 1.813 00: Heat Belt STS Rear Warm Up Time Fail
608-628	Fault Counter 10-378-00:Heat Belt Rotation Fail	no. of faults	RW Heat Belt Rotation Fail	NVMFaultCounter	shortNatural No	Fault Counter:10-378- 00: Heat Belt Rotation Fail
608-629	Fault Counter 10-380-00:P/Roll Latch Motor Fail	no. of faults	RW P/Roll Latch Motor Fail	NVMFaultCounter	shortNatural No	Fault Counter:10-380- 00: P/Roll Latch Motor Fail
608-630	Fault Counter 10-381-00:Fuser Assy Illegal Fail	no. of faults	RW Fuser Assy Illegal Fail	NVMFaultCounter	shortNatural No	Fault Counter:10-381- 00: Fuser Assy Illegal Fail
608-631	Fault Counter 10-382-00:Fuser Thermostat Fail	no. of faults	RW Fuser Thermostat Fail	NVMFaultCounter	shortNatural No	Fault Counter:10-382- 00: Fuser Thermostat Fail
608-632	Fault Counter 61-350-00:LPH Power On Fail Y	no. of faults	RW LPH Power On Fail Y	NVMFaultCounter	shortNatural No	Fault Counter:61-350- 1.813 00: LPH Power On Fail
608-633	Fault Counter 61-351-00:LPH Power On Fail M	no. of faults	RW LPH Power On Fail M	NVMFaultCounter	shortNatural No	Fault Counter:61-351- 1.813 00: LPH Power On Fail M
608-634	Fault Counter 61-352-00:LPH Power On Fail C	no. of faults	RW LPH Power On Fail C	NVMFaultCounter	shortNatural No	Fault Counter:61-352- 00: LPH Power On Fail C
608-635	Fault Counter 61-353-00:LPH Power On Fail K	no. of faults	RW LPH Power On Fail K	NVMFaultCounter	shortNatural No	Fault Counter:61-353- 00: LPH Power On Fail K
608-636	Fault Counter 45-370-00:LPH Power On Fail Multi	no. of faults	RW LPH Power On Fail Multi	NVMFaultCounter	shortNatural No	Fault Counter:45-370- 00: LPH Power On Fail Multi

608-637	Fault Counter 61-354-00:LPH Download Data Fail Y	no. of faults	RW LPH Download Data Fail Y	NVMFaultCounter	shortNatural		Fault Counter:61-354- 00: LPH Download Data Fail Y	1.813
608-638	Fault Counter 61-355-00:LPH Download Data Fail M	no. of faults	RW LPH Download Data Fail M	NVMFaultCounter	shortNatural		Fault Counter:61-355- 00: LPH Download Data Fail M	1.813
608-639	Fault Counter 61-356-00:LPH Download Data Fail C	no. of faults	RW LPH Download Data Fail C	NVMFaultCounter	shortNatural		Fault Counter:61-356- 00: LPH Download Data Fail C	1.813
608-640	Fault Counter 61-357-00:LPH Download Data Fail K	no. of faults	RW LPH Download Data Fail K	NVMFaultCounter	shortNatural		Fault Counter:61-357- 00: LPH Download Data Fail K	1.813
608-641	Fault Counter 45-371-00:LPH Download Data Fail Multi	no. of faults	RW LPH Download Data Fail Multi	NVMFaultCounter	shortNatural	No I		1.813
608-642	Fault Counter 61-358-00:LPH Mismatch Fail Y	no. of faults	RW LPH Mismatch Fail Y	NVMFaultCounter	shortNatural		Fault Counter:61-358- 00: LPH Mismatch Fail Y	1.813
608-643	Fault Counter 61-359-00:LPH Mismatch Fail M	no. of faults	RW LPH Mismatch Fail M	NVMFaultCounter	shortNatural		Fault Counter:61-359- 00: LPH Mismatch Fail M	1.813
608-644	Fault Counter 61-360-00:LPH Mismatch Fail C	no. of faults	RW LPH Mismatch Fail C	NVMFaultCounter	shortNatural	(	Fault Counter:61-360- 00: LPH Mismatch Fail C	1.813
608-645	Fault Counter 61-361-00:LPH Mismatch Fail K	no. of faults	RW LPH Mismatch Fail K	NVMFaultCounter	shortNatural		Fault Counter:61-361- 00: LPH Mismatch Fail K	1.813
608-646	Fault Counter 45-372-00:LPH Mismatch Fail Multi	no. of faults	RW LPH Mismatch Fail Multi	NVMFaultCounter	shortNatural		Fault Counter:45-372- 00: LPH Mismatch Fail	1.813
608-647	Fault Counter 61-362-00:LPH Read Fail Y	no. of faults	RW LPH Read Fail Y	NVMFaultCounter	shortNatural	No		1.813
608-648	Fault Counter 61-363-00:LPH Read Fail M	no. of faults	RW LPH Read Fail M	NVMFaultCounter	shortNatural		Fault Counter:61-363- 00: LPH Read Fail M	1.813

608-649	Fault Counter 61-364-00:LPH Read Fail C	no. of faults	RW	LPH Read Fail C	NVMFaultCounter	shortNatural	No	Fault Counter:61-364- 00: LPH Read Fail C	1.813	
608-650	Fault Counter 61-365-00:LPH Read Fail K	no. of faults	RW	LPH Read Fail K	NVMFaultCounter	shortNatural	No	Fault Counter:61-365- 00: LPH Read Fail K	1.813	
608-651	Fault Counter 45-373-00:LPH Read Fail Multi	no. of faults	RW	LPH Read Fail Multi	NVMFaultCounter	shortNatural	No	Fault Counter:45-373- 00: LPH Read Fail Multi	1.813	
608-652	Fault Counter 61-366-00:LPH Write Fail Y	no. of faults	RW	LPH Write Fail Y	NVMFaultCounter	shortNatural	No	Fault Counter:61-366- 00: LPH Write Fail Y	1.813	
608-653	Fault Counter 61-367-00:LPH Write Fail M	no. of faults	RW	LPH Write Fail M	NVMFaultCounter	shortNatural	No	Fault Counter:61-367- 00: LPH Write Fail M	1.813	
608-654	Fault Counter 61-368-00:LPH Write Fail C	no. of faults	RW	LPH Write Fail C	NVMFaultCounter	shortNatural	No	Fault Counter:61-368- 00: LPH Write Fail C	1.813	
608-655	Fault Counter 61-369-00:LPH Write Fail K	no. of faults	RW	LPH Write Fail K	NVMFaultCounter	shortNatural	No	Fault Counter:61-369- 00: LPH Write Fail K	1.813	
608-656	Fault Counter 45-374-00:LPH Write Fail Multi	no. of faults	RW	LPH Write Fail Multi	NVMFaultCounter	shortNatural	No	Fault Counter:45-374- 00: LPH Write Fail Multi	1.813	
608-657	Fault Counter 61-370-00:LPH Act Fail Y	no. of faults	RW	LPH Act Fail Y	NVMFaultCounter	shortNatural	No	Fault Counter:61-370- 00: LPH Act Fail Y	1.813	
608-658	Fault Counter 61-371-00:LPH Act Fail M	no. of faults	RW	LPH Act Fail M	NVMFaultCounter	shortNatural	No	Fault Counter:61-371- 00: LPH Act Fail M	1.813	
608-659	Fault Counter 61-372-00:LPH Act Fail C	no. of faults	RW	LPH Act Fail C	NVMFaultCounter	shortNatural	No	Fault Counter:61-372- 00: LPH Act Fail C	1.813	
608-660	Fault Counter 61-373-00:LPH Act Fail K	no. of faults	RW	LPH Act Fail K	NVMFaultCounter	shortNatural	No	Fault Counter:61-373- 00: LPH Act Fail K	1.813	
608-661	Fault Counter 45-375-00:LPH Act Fail Multi	no. of faults	RW	LPH Act Fail Multi	NVMFaultCounter	shortNatural	No	Fault Counter:45-375- 00: LPH Act Fail Multi	1.813	
608-662	Fault Counter 61-374-00:LPH Chip Fail Y	no. of faults	RW	LPH Chip Fail Y	NVMFaultCounter	shortNatural	No	Fault Counter:61-374- 00: LPH Chip Fail Y	1.813	

608-663	Fault Counter 61-375-00:LPH Chip Fail M	no. of faults	RW	LPH Chip Fail M	NVMFaultCounter	shortNatural	No		1.813	
								00: LPH Chip Fail M		
608-664	Fault Counter 61-376-00:LPH Chip Fail C	no. of faults	RW	LPH Chip Fail C	NVMFaultCounter	shortNatural	No	Fault Counter:61-376-	1.813	-
	·			·				00: LPH Chip Fail C		
608-665	Fault Counter 61-377-00:LPH Chip Fail K	no. of faults	RW	LPH Chip Fail K	NVMFaultCounter	shortNatural	No	Fault Counter:61-377- 00: LPH Chip Fail K	1.813	
								100. LPH Chip Fall K		
608-666	Fault Counter 61-378-00:LPH Ltrg Fail Y	no. of faults	RW	LPH Ltrg Fail Y	NVMFaultCounter	shortNatural	No	Fault Counter:61-378-	1.813	
								00: LPH Ltrg Fail Y		
608-667	Fault Counter 61-379-00:LPH Ltrg Fail M	no. of faults	B/V/	LPH Ltrg Fail M	NVMFaultCounter	shortNatural	No	Fault Counter:61-379-	1.813	
	Fault Counter 61-384-00:LPH Ltrg Fail C	no. of faults		LPH Ltrg Fail C	NVMFaultCounter		No	Fault Counter:61-384-	1.813	
	Fault Counter 61-385-00:LPH Ltrg Fail K	no. of faults		LPH Ltrg Fail K	NVMFaultCounter		No	Fault Counter:61-385-	1.813	
	Fault Counter 61-386-00:LPH PLL Lock	no. of faults		LPH PLL Lock Fail Y	NVMFaultCounter	shortNatural	No	Fault Counter:61-386-	1.813	
	Fail Y							00: LPH PLL Lock Fail		
	Fault Counter 61-387-00:LPH PLL Lock	no. of faults		LPH PLL Lock Fail M	NVMFaultCounter		No		1.813	
	Fault Counter 61-388-00:LPH PLL Lock	no. of faults		LPH PLL Lock Fail C	NVMFaultCounter		No	Fault Counter:61-388-	1.813	
	Fault Counter 61-389-00:LPH PLL Lock	no. of faults		LPH PLL Lock Fail K	NVMFaultCounter		No	Fault Counter:61-389-	1.813	
	Fault Counter 45-376-00:LPH PLL Lock	no. of faults		LPH PLL Lock Fail Multi	NVMFaultCounter		No	Fault Counter:45-376-	1.813	
	Fault Counter 61-390-00:LPH FFC	no. of faults		LPH FFC Connect Posi Fail Y	NVMFaultCounter		No	Fault Counter:61-390-	1.813	
	Fault Counter 61-391-00:LPH FFC Fault Counter 61-392-00:LPH FFC	no. of faults no. of faults		LPH FFC Connect Posi Fail M	NVMFaultCounter		No No	Fault Counter:61-391-	1.813 1.813	
	Connect Posi Fail C	no. or raults	RVV	LPH FFC Connect Posi Fail C	NVMFaultCounter	shortNatural	NO	Fault Counter:61-392- 00: LPH FFC Connect	1.813	
	Fault Counter 61-393-00:LPH FFC	no. of faults	RW	LPH FFC Connect Posi Fail K	NVMFaultCounter	shortNatural	No	Fault Counter:61-393-	1.813	
000 070	Connect Posi Fail K	ino. or radito		Zi i i i o o o i i i o o i i o o i i o o i i o o i i o o i i o o i i o o i i o o i i o o i i o o i i o o i i o	144 Will dance articl	onoravatarar		00: LPH FFC Connect	1.010	
								Posi Fail K		
608-679	Fault Counter 61-394-00:LPH FFC	no. of faults	RW	LPH FFC Connect Nega Fail Y	NVMFaultCounter	shortNatural	No	Fault Counter:61-394-	1.813	
	Connect Nega Fail Y							00: LPH FFC Connect		
								Nega Fail Y		
608-680	Fault Counter 61-395-00:LPH FFC	no. of faults	RW	LPH FFC Connect Nega Fail M	NVMFaultCounter	shortNatural	No	Fault Counter:61-395-	1.813	
	Connect Nega Fail M			-				00: LPH FFC Connect		
								Nega Fail M		
608-681	Fault Counter 61-396-00:LPH FFC	no. of faults	B/V/	LPH FFC Connect Nega Fail C	NVMFaultCounter	shortNatural	No	Fault Counter:61-396-	1.813	
	Connect Nega Fail C	no. or idults	1	Li i i i o o o i i i e o i i i e o i i e o	TAVIMI GUILOUITIEI	Siloitivatural		00: LPH FFC Connect	1.010	
	Someon Noga i all o							Nega Fail C		
								1.1594 1 411 0		

608-682	Connect Nega Fail K		· ·	NVMFaultCounter		No	Fault Counter:61-397- 00: LPH FFC Connect Nega Fail K		
608-683	Fault Counter 61-398-00:BITZ1 Initialize Fail	no. of faults RW	BITZ1 Initialize Fail	NVMFaultCounter	shortNatural	No	Fault Counter:61-398- 00: BITZ1 Initialize Fail	1.813	
608-684	Fault Counter 61-399-00:BITZ2 Initialize Fail	no. of faults RW	BITZ2 Initialize Fail	NVMFaultCounter	shortNatural	No	Fault Counter:61-399- 00: BITZ2 Initialize Fail	1.813	
608-685	Fault Counter 61-610-00:Bitz1 CONTIF Fail	no. of faults RW	Bitz1 CONTIF Fail	NVMFaultCounter	shortNatural	No	Fault Counter:61-610- 00: Bitz1 CONTIF Fail	1.813	
	Fail			NVMFaultCounter		No	00: Bitz2 CONTIF Fail	1.813	
	Fault Counter 10-360-00:IH Driver Input High Voltage Fail	no. of faults RW	IH Driver Input HighVoltage Fail	NVMFaultCounter	shortNatural	No	Fault Counter:10-360- 00: IH Driver Input High Voltage Fail	1.813	
608-688	Fault Counter 10-361-00:IH Driver Input Low Voltage Fail	no. of faults RW	IH Driver Input LowVoltage Fail	NVMFaultCounter	shortNatural	No	Fault Counter:10-361- 00: IH Driver Input Low Voltage Fail	1.813	

608-689	Fault Counter 10-362-00:IH Driver Surge Fail	no. of faults	IH Driver Surge Fail	NVMFaultCounter	shortNatural No	Fault Counter:10-362- 00: IH Driver Surge Fail	1.813
608-690	Fault Counter 10-363-00:IGBT High Temperature Fail	no. of faults RW	IGBT High Temperature Fail	NVMFaultCounter	shortNatural No	00: IGBT High Temperature Fail	1.813
608-691	Fault Counter 10-0364-00:IGBT Temperature Sensor Fail	no. of faults RW	IGBT Temperature Sensor Fail	NVMFaultCounter	shortNatural No	Fault Counter:10-364- 00: IGBT temperature disconnect	1.813
608-692	Fault Counter 10-367-00:Input Low Current Fail	no. of faults RW	Input Low Current Fail	NVMFaultCounter	shortNatural No	Fault Counter:10-367- 00: Input Low Current Fail	1.813
608-693	Fault Counter 10-368-00:Encoder Pulse Fail	no. of faults RW	Encoder Pulse Fail	NVMFaultCounter	shortNatural No	Fault Counter:10-368- 00: Encoder Pulse Fail	1.813
608-694	Fault Counter 10-369-00:IH Driver Communication Fail	no. of faults RW	IH Driver Communication Fail	NVMFaultCounter	shortNatural No	Fault Counter:10-369- 00: IH Driver Communication Fail	1.813

608-695	Fault Counter 10-370-00:IH Driver Freeze Fail	no. of faults	IH Driver Freeze Fail	NVMFaultCounter	shortNatural No	Fault Counter:10-370- 00: IH Driver Freeze	1.813
						Fail	
608-696	Fault Counter 92-670-00:ADC Patch Fail [Y]	no. of faults RW	ADC Patch Fail [Y]	NVMFaultCounter	shortNatural No	Fault Counter:92-670- 00: ADC Patch Fail [Y]	1.751
608-697	Fault Counter 92-671-00:ADC Patch Fail [M]	no. of faults RW	ADC Patch Fail [M]	NVMFaultCounter	shortNatural No	Fault Counter:92-671- 00: ADC Patch Fail [M]	1.751
608-698	Fault Counter 92-672-00:ADC Patch Fail [C]	no. of faults RW	ADC Patch Fail [C]	NVMFaultCounter	shortNatural No	Fault Counter:92-672- 00: ADC Patch Fail [C]	1.751
608-699	Fault Counter 92-673-00:ADC Patch Fail [K]	no. of faults	ADC Patch Fail [K]	NVMFaultCounter	shortNatural No	Fault Counter:92-673- 00: ADC Patch Fail [K]	1.813
608-700	Fault Counter 92-675- 00:ADC_MiniSetup_Fail [Y]	no. of faults RW	ADC_MiniSetup_Fail [Y]	NVMFaultCounter	shortNatural No	Fault Counter:92-675- 00: ADC_MiniSetup_Fail	1.766
	Fault Counter 92-676- 00:ADC_MiniSetup_Fail [M]	no. of faults RW	ADC_MiniSetup_Fail [M]	NVMFaultCounter	shortNatural No	Fault Counter:92-676- 00: ADC_MiniSetup_Fail [M]	1.766
608-702	Fault Counter 92-677- 00:ADC_MiniSetup_Fail [C]	no. of faults RW	ADC_MiniSetup_Fail [C]	NVMFaultCounter	shortNatural No	Fault Counter:92-677- 00: ADC_MiniSetup_Fail [C]	1.766

608-703	Fault Counter 92-678- 00:ADC_MiniSetup_Fail [K]	no. of faults	ADC_MiniSetup_Fail [K]	NVMFaultCounter	shortNatural No	Fault Counter:92-678- 00: ADC_MiniSetup_Fail	1.813
						[K]	
608-704	Fault Counter 89-621-00:RC Temp Sensor Fail	no. of faults RW	RC Temp Sensor Fail	NVMFaultCounter	shortNatural No	Fault Counter:89-621- 00: RC Temp Sensor Fail	1.254
608-705	Fault Counter 89-622-00:RC Data Linearity Fail	no. of faults RW	RC Data Linearity Fail	NVMFaultCounter	shortNatural No	Fault Counter:89-622- 00: RC Data Linearity Fail	1.254
608-706	Fault Counter 89-624-00:PS Zphase Sensor Fail	no. of faults RW	PS Zphase Sensor Fail	NVMFaultCounter	shortNatural No	Fault Counter:89-624- 00: PS Zphase Sensor Fail	1.254
608-707	Fault Counter 89-625-00:RC Data Linearity Fail-#1	no. of faults RW	RC Data Linearity Fail-#1	NVMFaultCounter	shortNatural No	Fault Counter:89-625- 00: RC Data Linearity Fail-#1	1.813
608-708	Fault Counter 89-626-00:RC Data Linearity Fail-#2	no. of faults	RC Data Linearity Fail-#2	NVMFaultCounter	shortNatural No	Fault Counter:89-626- 00: RC Data Linearity Fail-#2	1.813
608-709	Fault Counter 89-627-00:RC Data Linearity Fail-#3	no. of faults RW	RC Data Linearity Fail-#3	NVMFaultCounter	shortNatural No	Fault Counter:89-627- 00: RC Data Linearity Fail-#3	1.813

608-710	Fault Counter 89-628-00:RC Data Linearity	no. of faults	RC Data Linearity Fail-#4	NVMFaultCounter	shortNatural	No	Fault Counter:89-628-	1.813
	Fail-#4		,				00: RC Data Linearity	
							Fail-#4	
608-711	Fault Counter 42-319-00:Drum YMC Motor	no. of faults RW	Drum YMC Motor Fail	NVMFaultCounter	shortNatural	No		1.813
	Fail						00: Drum YMC Motor	
							Fail	
608-712	Fault Counter 42-605-00:Drive Fan Fail	no. of faults RW	Drive Fan Fail	NVMFaultCounter	shortNatural	No	Fault Counter:42-605-	1.813
							00: Drive Fan Fail	
000 740	Fault Carreton 40, 224, 00 IDT Fan Fail	f f   D\A/	IDT For Foll	NIV/NAT IAO	- l + N   - +	NI -	FIt Ot40 004	4.040
008-713	Fault Counter 42-334-00:IBT Fan Fail	no. of faults	IBT Fan Fail	NVMFaultCounter	shortNatural	No	Fault Counter:42-334- 00: IBT Fan Fail	1.813
							00. IDT FAITFAII	
608-714		no. of faults RW	Process1 Fan Fail	NVMFaultCounter	shortNatural			1.813
	Fail						00: Process1 Fan Fail	
608-715	Fault Counter 42-336-00:Process2 Fan	no. of faults RW	Process2 Fan Fail	NVMFaultCounter	shortNatural	No	Fault Counter:42-336-	1.813
	Fail						00: Process2 Fan Fail	
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608-716	Fault Counter 42-343-00:Rear Bottom Fan Fail	no. of faults	RW Rear Bottom Fan Fail	NVMFaultCounter	shortNatural	(	Fault Counter:42-343- 00: Rear Bottom Fan Fail	1.813
608-717	Fault Counter 42-338-00:LVPS Exhaust Fan Fail	no. of faults	RW LVPS Exhaust Fan Fail	NVMFaultCounter	shortNatural	(	Fault Counter:42-338- 00: LVPS Exhaust Fan Fail	1.813
608-718	Fault Counter 42-340-00:Cartridge Fan Fail	no. of faults	RW Cartridge Fan Fail	NVMFaultCounter	shortNatural		Fault Counter:42-340- 00: Cartridge Fan Fail	1.813
608-719	Fault Counter 42-341-00:MHVPS Fan Fail	no. of faults	RW MHVPS Fan Fail	NVMFaultCounter	shortNatural		Fault Counter:42-341- 00: MHVPS Fan Fail	1.254
	Fault Counter 42-342-00:Suction Fan Fail Fault Counter 42-316-00:Front Fan Fail	no. of faults	RW Suction Fan Fail RW Front Fan Fail	NVMFaultCounter  NVMFaultCounter		No F	Fault Counter:42-342- 00: Suction Fan Fail Fault Counter:42-316- 00: Front Fan Fail	1.254
608-722	Fault Counter 43-344-00:C Exhaust Fan Fail	no. of faults	RW C Exhaust Fan Fail	NVMFaultCounter	shortNatural		Fault Counter:43-344- 00: C Exhaust Fan Fail	1.813
608-723	Fault Counter 42-332-00:IH INTAKE Fan Fail	no. of faults	RW IH INTAKE Fan Fail	NVMFaultCounter	shortNatural	C	Fault Counter:42-332- 00: IH INTAKE Fan Fail	1.813
608-724	Fault Counter 42-604-00:NOHAD Temperature Sensor Fail	no. of faults	RW NOHAD Temperature Sensor Fail	NVMFaultCounter	shortNatural	[0	00: NOHAD Femperature Sensor	1.813
608-725	Fault Counter 42-337-00:NOHAD Logic Fail	no. of faults	RW NOHAD Logic Fail	NVMFaultCounter	shortNatural	No F	Fail Fault Counter:42-337- 00: NOHAD Logic Fail	1.254
608-726	Fault Counter 42-609-00:B Fan Fail	no. of faults	RW B Fan Fail	NVMFaultCounter	shortNatural		Fault Counter:42-609- 00: B Fan Fail	1.254

608-727	Fault Counter 42-400-00: Fan Filter Life	no. of faults	RW	Fan Filter Life End	NVMFaultCounter	shortNatural	No	Fault Counter:42-400-	1.813	
	End							00: FANFILTEREOLCOUN T		
608-825	Tray 1 Detected Width	Tray 1 Detected Width (Custom Size Support)	RW	Tray 1 Detected Width	NVMSAKOSetting	natural	No		1.503	
608-826	Tray 1 Detected Length	Tray 1 Detected Length (Custom Size Support)	RW	Tray 1 Detected Length	NVMSAKOSetting	natural	No		1.503	
608-827	Tray 2 Detected Width	Tray 2 Detected Width (Custom Size Support)	RW	Tray 2 Detected Width	NVMSAKOSetting	natural	No		1.503	
608-828	Tray 2 Detected Length	Tray 2 Detected Length (Custom Size Support)	RW	Tray 2 Detected Length	NVMSAKOSetting	natural	No		1.503	
608-829	Tray 3 Detected Width	Tray 3 Detected Width (Custom Size Support)	RW	Tray 3 Detected Width	NVMSAKOSetting	natural	No		1.503	
608-830	Tray 3 Detected Length	Tray 3 Detected Length (Custom Size Support)	RW	Tray 3 Detected Length	NVMSAKOSetting	natural	No		1.503	
608-831	Tray 4 Detected Width	Tray 4 Detected Width (Custom Size Support)	RW	Tray 4 Detected Width	NVMSAKOSetting	natural	No		1.503	
608-832	Tray 4 Detected Length	Tray 4 Detected Length (Custom Size Support)	RW	Tray 4 Detected Length	NVMSAKOSetting	natural	No		1.503	

608-931	Fault Counter 12-765-00: Incompatible Finisher detected.	no. of faults	RW	ImeIncompatibleFinisherFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-765- 00: Incompatible Finisher detected.	1.521	
608-933	Fault Counter 12-195: Paper Detect Sensor not made Jam	no. of faults	RW	PaperDetectSensorNotMade	NVMFaultCounter	shortNatural	No	Fault Counter:12-195- 00: PaperDetectSensorNot Made	1.521	
608-934	Fault Counter 12-125: Finisher Entry Sensor not made Jam	no. of faults	RW	LELateEntrySensor	NVMFaultCounter	shortNatural	No	Fault Counter:12-125- 00: Finisher Entry Sensor not made Jam	1.521	
608-935	Fault Counter 12-101: Finisher Entry Sensor no cleared Jam	no. of faults	RW	TELateEntrySensor	NVMFaultCounter	shortNatural	No	Fault Counter:12-125- 00: Finisher Entry Sensor not made Jam	1.521	
608-936	Fault Counter 12-336: Rear Staple Door Opened in Run	no. of faults	RW	StapleDoorOpenIR	NVMFaultCounter	shortNatural	No	Fault Counter:12-125- 00: Finisher Entry Sensor not made Jam	1.521	
608-937	Fault Counter 12-283: Ejector Clamp Motor Stall Failure	no. of faults	RW	EjectorClampMotorStall	NVMFaultCounter	shortNatural	No	Fault Counter:12-125- 00: Finisher Entry Sensor not made Jam	1.521	
608-938	Fault Counter 12-284: Ejector Clamp Return Home Failure	no. of faults	RW	EjectorClampReturnHome	NVMFaultCounter	shortNatural	No	Fault Counter:12-125- 00: Finisher Entry Sensor not made Jam	1.521	

608-939	Fault Counter 12-950: Preparation time violation on finisher entry sensor	no. of faults	RW	LEEntrySensorTriggered	NVMFaultCounter	shortNatural	No	Fault Counter:12-125- 00: Finisher Entry Sensor not made Jam	1.521	
608-943	Lightweight Large Sheets Used Total of large size Lightweight media sheets since activation date numLargeLWMedia	Lightweight Large Sheets I Used Total of large size Lightweight media sheets	ND	Lightweight Large Sheets Used	NVMSystemUsageCounter	byteArray	No	System Usage Counter:909: Heavyweight Large Sheets Used	1.799	
608-951	Tray 1 Top Edge Reg Simp (FD 3.2.2)		RW	Top Edge Reg Tray 1 Simplex	NVMMachVarRegistration	natural	No		1.362	
608-951	Tray 1 Top Edge Reg Simp (FS23.604)	pixels (600 dpi)	RW	Top Edge Reg Tray 1 Simplex	NVMMachVarRegistration	natural	No		1.485	
608-952	Tray 2 Top Edge Reg Simp (FD 3.2.2)	pixels (600 dpi)	RW	Top Edge Reg Tray 2 Simplex	NVMMachVarRegistration	natural	No		1.362	
608-952	Tray 2 Top Edge Reg Simp (FS23.604)	pixels (600 dpi)	RW	Top Edge Reg Tray 2 Simplex	NVMMachVarRegistration	natural	No		1.485	
608-953	Tray 3 Top Edge Reg Simp (FD 3.2.2)	pixels (600 dpi)	RW	Top Edge Reg Tray 3 Simplex	NVMMachVarRegistration	natural	No		1.362	
608-953	Tray 3 Top Edge Reg Simp (FS23.604)	pixels (600 dpi)	RW	Top Edge Reg Tray 3 Simplex	NVMMachVarRegistration	natural	No		1.485	
608-954	Tray 4 Top Edge Reg Simp (FD 3.2.2)	pixels (600 dpi)	RW	Top Edge Reg Tray 4 Simplex	NVMMachVarRegistration	natural	No		1.362	
608-954	Tray 4 Top Edge Reg Simp (FS23.604)	pixels (600 dpi)	RW	Top Edge Reg Tray 4 Simplex	NVMMachVarRegistration	natural	No		1.485	
608-955	Tray 5 (MSI) Top Edge Reg Simp (FD 3.2.2)	pixels (600 dpi)	RW	Top Edge Reg Tray 5 Simplex	NVMMachVarRegistration	natural	No		1.438	

608-955	Tray 5 (MSI) Top Edge Reg Simp (FS23.604)	pixels (600 dpi)	RW	Top Edge Reg Tray 5 Simplex	NVMMachVarRegistration	natural	No	1.485
608-956	Tray 6 (PFP) Top Edge Reg Simp (FD 3.2.2)	pixels (600 dpi)	RW	Top Edge Reg Tray 6 Simplex	NVMMachVarRegistration	natural	No	1.438
608-956	Tray 6 (PFP) Top Edge Reg Simp (FS23.604)	pixels (600 dpi)	RW	Top Edge Reg Tray 6 Simplex	NVMMachVarRegistration	natural	No	1.485
608-957	Tray 1 Top Edge Reg Dup (FD 3.2.2)	pixels (600 dpi)	RW	Top Edge Reg Tray 1 Duplex	NVMMachVarRegistration	natural	No	1.362
608-957	Tray 1 Top Edge Reg Dup (FS23.604)	pixels (600 dpi)	RW	Top Edge Reg Tray 1 Duplex	NVMMachVarRegistration	natural	No	1.485
608-958	Tray 2 Top Edge Reg Dup (FD 3.2.2)	pixels (600 dpi)	RW	Top Edge Reg Tray 2 Duplex	NVMMachVarRegistration	natural	No	1.362
608-958	Tray 2 Top Edge Reg Dup (FS23.604)	pixels (600 dpi)	RW	Top Edge Reg Tray 2 Duplex	NVMMachVarRegistration	natural	No	1.485

000 050	T 2 T E-l D (ED 2 2 2)	-:	IDW/	T F-1 D T 2 D	NIV (NANA - ala) ( a uD a ui aturati a u	lu atrinal	TNI-	T. T.	1 000	
608-959	Tray 3 Top Edge Reg Dup (FD 3.2.2)	pixels (600 dpi)	IKVV	Top Edge Reg Tray 3 Duplex	NVMMachVarRegistration	natural	No		1.362	
608-959	Tray 3 Top Edge Reg Dup (FS23.604)	pixels (600 dpi)	RW	Top Edge Reg Tray 3 Duplex	NVMMachVarRegistration	natural	No	,	1.485	
608-960	Tray 4 Top Edge Reg Dup (FD 3.2.2)	pixels (600 dpi)	IRW	Top Edge Reg Tray 4 Duplex	NVMMachVarRegistration	natural	No		1.362	
608-960	Tray 4 Top Edge Reg Dup (FS23.604)	pixels (600 dpi)	RW	Top Edge Reg Tray 4 Duplex	NVMMachVarRegistration	natural	No	,	1.485	
608-961	Tray 5 (MSI) Top Edge Reg Dup (FD	pixels (600 dpi)	RW	Top Edge Reg Tray 5 Duplex	NVMMachVarRegistration	natural	No		1.438	
000 001	3.2.2)	pixolo (oco upi)	'``	Top Eage Hog Hay o Baplox	TV William togicalion	riatarar			1.100	
608-961	Tray 5 (MSI) Top Edge Reg Dup	pixels (600 dpi)	RW	Top Edge Reg Tray 5 Duplex	NVMMachVarRegistration	natural	No		1.485	
	(FS23.604)									
000.000	T 0 (PEP) T E L P P (FP	(000 1 :)	5)4/	T 51 D T 0D 1					4 400	
608-962	Tray 6 (PFP) Top Edge Reg Dup (FD	pixels (600 dpi)	RW	Top Edge Reg Tray 6 Duplex	NVMMachVarRegistration	natural	No		1.438	
	3.2.2)									
608-962	Tray 6 (PFP) Top Edge Reg Dup	pixels (600 dpi)	RW	Top Edge Reg Tray 6 Duplex	NVMMachVarRegistration	natural	No	<del> </del>	1.485	
	(FS23.604)		' ' ' '		- Transcrittan teglorida					

608-963	IOT Lead Edge Reg Simp (FD 23.110)	scan lines RW	IOT LE Reg Simp	NVMMachVarRegistration	natural	No		1.362	
600.063	IOT Load Edge Day Circy (EC22 C04)	and lines @600dpi	IOT I F Day Circu	NIV/MMAsshavens	n a trunci	NI-		4.405	
608-963	IOT Lead Edge Reg Simp (FS23.604)	scan lines @600dpi RW	IOT LE Reg Simp	NVMMachVarRegistration	natural	No		1.485	
608-964	IOT Lead Edge Reg Dup (FD 23.110)	scan lines RW	IOT LE Reg Dup	NVMMachVarRegistration	natural	No		1.362	
608-964	IOT Lead Edge Reg Dup (FS23.604)	scan lines @600dpi RW	IOT LE Reg Dup	NVMMachVarRegistration	natural	No		1.485	
608-976			BMENDSTOPMIDHOMESENSORN	NVMFaultCounter	shortNatural	No	Fault Counter:12-484-	1.678	
	BMENDSTOPMIDHOMESENSORNOTMA DE		OTMADE				00: BMENDSTOPMIDHO		
							MESENSORNOTMAD E		
222.27	5 11 0 10 100 00			D. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10				4.070	
	BMENDSTOPMIDHOMESENSORNOTCL	no. of faults RW	BMENDSTOPMIDHOMESENSORN OTCLEARED	NVMFaultCounter	shortNatural		Fault Counter:12-486- 00:	1.678	
	EARED						BMENDSTOPMIDHO MESENSORNOTCLE		
							ARED		
608-978	Fault Counter 12-488-00: BMSTAPLEUNITMOVETOHOMEFAULT	no. of faults RW	BMSTAPLEUNITMOVETOHOMEFA	NVMFaultCounter	shortNatural	No		1.678	
	BMSTAPLEUNITMOVETOHOMEFAULT		ULT				00: BMSTAPLEUNITMOV		
							ETOHOMEFAULT		

608-979	Fault Counter 12-490-00: BMSTAPLEUNITMOVETOAWAYFAULT	no. of faults	BMSTAPLEUNITMOVETOAWAYFA ULT	NVMFaultCounter	shortNatural	No	Fault Counter:12-490- 00: BMSTAPLEUNITMOV ETOAWAYFAULT	1.678	
608-980	Fault Counter 11-492-00: BMSTAPLEUNITNOTHOMEFAULT	no. of faults RW	Fault Counter 11-492-00	NVMFaultCounter	shortNatural	No	Fault Counter:11-492- 00: BMSTAPLEUNITNOT HOMEFAULT	1.417	
608-981		System sets this upon new unit detection or confirmation		NVMConfiguration	longNatural	No		1.417	
608-982		unix time (seconds since start of 1970)	XruInstallDate	NVMSAKOSetting	longNatural	No		1.421	
608-993		Set/changed by a tools setting. 0=disabled, 1=enabled	TonerWasteControlEnabled	NVMConfiguration	boolean	No		1.443	
608-996	Custom display names - Custom media type List initialized flag	Refer to FS 16.027	CMT List Initialized	NVMSAKOSetting	boolean	No		1.693	

608-999	Display Media Resource Screen for jobs	Refer to FS 16.020	ND		NVMSAKOSetting	shortNatural	No		.796	
	held for resources	0 = Disabled (SR3 Status, no pop-up) 1 = Enabled (SR3 Status and pop-up)			3					
609-001	Fault Counter 01-300-00: FrontCoverOpenInRunFault	no. of faults	RW	FrontCoverOpenInRunFC	NVMFaultCounter	shortNatural	No	Fault Counter:01-300- 00: FrontCoverOpenInRun Fault	.370	
609-002	Fault Counter 01-305-00: SideCoverOpenInRunFault	no. of faults	RW	SideCoverOpenInRunFC	NVMFaultCounter	shortNatural	No	Fault Counter:01-305- 00: SideCoverOpenInRunF ault	.370	
609-003	Fault Counter 10-101-00: LeadEdgeLateToPostFuserSensorSimpFa ult		RW	LELateToPostFuserSnsrSimpFC	NVMFaultCounter	shortNatural	No	Fault Counter:10-101- 00: LeadEdgeLateToPostF userSensorSimpFault	.370	
609-004	Fault Counter 10-102-00: LeadEdgeLateToPostFuserSensorDup1Fa ult		RW	LELateToPostFuserSnsrDup1FC	NVMFaultCounter	shortNatural	No	Fault Counter:10-102- 00: LeadEdgeLateToPostF userSensorDup1Fault	.370	
609-005	Fault Counter 10-103-00: LeadEdgeLateToPostFuserSensorDup2Fault		RW	LELateToPostFuserSnsrDup2FC	NVMFaultCounter	shortNatural	No	Fault Counter:10-103- 00: LeadEdgeLateToPostF userSensorDup2Fault	.370	
609-006	Fault Counter 10-107-00: TrailEdgeLateFromPostFuserSensorSimp NonInvFault	no. of faults		TELateFmPostFuseSnsrSimpNonInv FC	NVMFaultCounter	shortNatural	No	Fault Counter:10-107- 00: TrailEdgeLateFromPos tFuserSensorSimpNonI nvFault	.370	
609-007	Fault Counter 10-108-00: TrailEdgeLateFromPostFuserSensorSimpl	no. of faults	RW	TELateFmPostFuserSnsrSimpInvFC	NVMFaultCounter	shortNatural	No	Fault Counter:10-108- 00:	.370	
609-008		no. of faults	RW	TELateFmPostFuserSnsrDup1FC	NVMFaultCounter	shortNatural	No	Fault Counter:10-109-	.370	

609-009	Fault Counter 10-110-00: TrailEdgeLateFromPostFuserSensorDup2 Fault	no. of faults	RW	TELateFmPostFuserSnsrDup2FC	NVMFaultCounter	shortNatural	No	Fault Counter:10-110- 00: TrailEdgeLateFromPos tFuserSensorDup2Faul t	
609-010	Fault Counter 10-120-00: LeadEdgeLateTolotExitSensorInvFault	no. of faults	RW	LELateTolotExitSnsrInvFC	NVMFaultCounter	shortNatural	No	Fault Counter:10-120- 00: LeadEdgeLateTolotExi tSensorInvFault	1.370
609-011	Fault Counter 10-121-00: LeadEdgeLateTolotExitSensorNonInvFault	no. of faults	RW	LELateTolotExitSnsrNonInvFC	NVMFaultCounter	shortNatural	No	Fault Counter:10-121- 00: LeadEdgeLateTolotExi tSensorNonInvFault	1.370
	TrailEdgeLateFromIotExitSensorFault	no. of faults		TELateFmlotExitSnsrFC  LELateToTopExitSnsrFC	NVMFaultCounter  NVMFaultCounter		No No	Fault Counter:10-126- 00: Fault Counter:10-130-	1.370
000 0 10	LeadEdgeLateToTopExitSensorFault	no. or laune						00: LeadEdgeLateToTopE xitSensorFault	
609-014	Fault Counter 10-131-00: TrailEdgeLateFromTopExitSensorFault	no. of faults	RW	TELateFmTopExitSnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:10-131- 00: TrailEdgeLateFromTop ExitSensorFault	1.370

609-015	Fault Counter 10-132-00: LeadEdgeLateToInvertSensorSimpFault	no. of faults	LELateToInvertSnsrSimpFC	NVMFaultCounter	shortNatural		Fault Counter:10-132- 00: LeadEdgeLateToInvert SensorSimpFault	1.370	
609-016	Fault Counter 10-133-00: LeadEdgeLateToInvertSensorDup1Fault	no. of faults RW	LELateToInvertSnsrDup1FC	NVMFaultCounter	shortNatural	No	Fault Counter:10-133- 00: LeadEdgeLateToInvert SensorDup1Fault	1.370	
609-017	Fault Counter 10-134-00: LeadEdgeLateToInvertSensorDup2Fault	no. of faults RW	LELateToInvertSnsrDup2FC	NVMFaultCounter	shortNatural	No	Fault Counter:10-134- 00: LeadEdgeLateToInvert SensorDup2Fault	1.370	
609-018	Fault Counter 10-135-00: TrailEdgeLateFromInvertSensorSimpNonInvFault	no. of faults RW	TELateFmInvertSnsrSimpNonInvFC	NVMFaultCounter	shortNatural	No	Fault Counter:10-135- 00: TrailEdgeLateFromInv ertSensorSimpNonInvF ault	1.370	
	TrailEdgeLateFromInvertSensorSimpInvFault			NVMFaultCounter	shortNatural	No	Fault Counter:10-136- 00: TrailEdgeLateFromInv ertSensorSimpInvFault	1.370	
609-020	Fault Counter 10-137-00: TrailEdgeLateFromInvertSensorDup1Fault		TELateFmInvertSnsrDup1FC	NVMFaultCounter	shortNatural	No	Fault Counter:10-137- 00: TrailEdgeLateFromInv ertSensorDup1Fault	1.370	

609-021	Fault Counter 10-138-00: TrailEdgeLateFromInvertSensorDup2Fault		TELateFmInvertSnsrDup2FC	NVMFaultCounter	shortNatural		Fault Counter:10-138- 00: TrailEdgeLateFromInv ertSensorDup2Fault	1.370	
609-022	Fault Counter 10-315-00: FuserThermFaultFault	no. of faults RW	FuserThermFCFC	NVMFaultCounter	shortNatural	No	Fault Counter:10-315- 00: FuserThermFaultFault	1.370	
609-023	Fault Counter 10-320-00: FuserControlFailureFault	no. of faults RW	FuserCtrlFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:10-320- 00: FuserControlFailureFa ult	1.370	
609-024	Fault Counter 10-321-00: FuserControlFailureStandbyOverTempFau It		FuserCtrlFailStandbyOverTempFC	NVMFaultCounter	shortNatural	No	Fault Counter:10-321- 00: FuserControlFailureSta ndbyOverTempFault	1.370	
609-025	Fault Counter 10-322-00: FuserControlFailureStandbyUnderTempFault	no. of faults RW	FuserCtrlFailStandbyUnderTempFC	NVMFaultCounter	shortNatural	No	Fault Counter:10-322- 00: FuserControlFailureSta ndbyUnderTempFault	1.370	
609-026	Fault Counter 10-323-00: FuserControlFailureRunOverTempFault	no. of faults RW	FuserCtrlFailRunOverTempFC	NVMFaultCounter	shortNatural	No	Fault Counter:10-323- 00: FuserControlFailureRu nOverTempFault	1.370	

609-027	Fault Counter 10-324-00: FuserControlFailureRunUnderTempFault	no. of faults	RW F	FuserCtrlFailRunUnderTempFC	NVMFaultCounter	shortNatural	No	Fault Counter:10-324- 00: FuserControlFailureRu nUnderTempFault	1.370
609-028	Fault Counter 10-325-00:	no. of faults	RW F	FuserNotBeingCtrlledFC	NVMFaultCounter	shortNatural	No	Fault Counter:10-325-	1.370
609-029	Fault Counter 10-330-00: FuserWarmupFailureFault	no. of faults	RW F	FuserWarmupFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:10-330- 00: FuserWarmupFailureF ault	1.370
609-030	Fault Counter 10-340-00: FuserAOverTemperatureFault	no. of faults	RW F	FuserAOverTemperatureFC	NVMFaultCounter	shortNatural	No	Fault Counter:10-340- 00: FuserAOverTemperatu reFault	1.370
609-031	Fault Counter 10-350-00: FuserOverTempOrShortCircuitFault	no. of faults	RW F	FuserOverTempOrShortCircuitFC	NVMFaultCounter	shortNatural	No	Fault Counter:10-350- 00:	1.370
609-032	Fault Counter 10-360-00: FuserBOverTemperatureFault	no. of faults	RW F	FuserBOverTemperatureFC	NVMFaultCounter	shortNatural	No	FuserOverTempOrSho Fault Counter:10-360- 00: FuserBOverTemperatu reFault	1.370
609-033	Fault Counter 10-365-00: FuserCOverTemperatureFault	no. of faults	RW F	FuserCOverTemperatureFC	NVMFaultCounter	shortNatural	No	Fault Counter:10-365- 00: FuserCOverTemperatu reFault	1.370

609-034	Fault Counter 10-370-00:	no. of faults	DW	FuserPowerSaveCtrlFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:10-370-	1.370	1
009-034	FuserPowerSaveControlFailureFault	lio. Of faults	ILVV	ruserrowersavecurranirc		SHOLLINALUIAI	INO	00:	1.370	
	l user owersave controll allurer aut							FuserPowerSaveContr		
								olFailureFault		
								on anurer aut		
609-035	Fault Counter 10-380-00:	no. of faults	DW	FuserTempGradientTooHighFC	NVMFaultCounter	shortNatural	No	Fault Counter:10-380-	1.370	
009-035	FuserTempGradientTooHighFault	no. or raults	KVV	ruser rempGradient roomignrC	INVINIFAUILCOUNIEI	Shortivaturai	INO	no.	1.370	
	ruser remporadient roomignradit							FuserTempGradientTo		
								oHighFault		
								or light aut		
609-036	Fault Counter 10-399-00:	no. of faults	RW	FruAuthorisationFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:10-399-	1.370	
	FruAuthorisationFailureFault	lier or radice	` ` ` `	Trantationedation aim C		orior in vacar ar		00:		
								FruAuthorisationFailure		
								Fault		
								. 5.5		
609-037	Fault Counter 10-821-00:	no. of faults	RW	SFuserCtrlFailStandbyOverTempFC	NVMFaultCounter	shortNatural	No	Fault Counter:10-821-	1.370	
	SorFuserControlFailureStandbyOverTemp							00:		
	Fault							SorFuserControlFailure		
								StandbyOverTempFaul		
								StandbyOverTempFaul t		
								StandbyOverTempFaul t		
								StandbyOverTempFaul t		
								StandbyOverTempFaul t		
								t		
	Fault Counter 10-822-00:	no. of faults	RW	SFuserCtrlFailStandbyUnderTempF	NVMFaultCounter	shortNatural		StandbyOverTempFault  t  Fault Counter:10-822-	1.370	
	SorFuserControlFailureStandbyUnderTem		RW	SFuserCtrlFailStandbyUnderTempF C	NVMFaultCounter	shortNatural	No	Fault Counter:10-822- 00:	1.370	
			RW	SFuserCtrlFailStandbyUnderTempF C	NVMFaultCounter	shortNatural	No	t Fault Counter:10-822- 00: SorFuserControlFailure	1.370	
	SorFuserControlFailureStandbyUnderTem		RW	SFuserCtrlFailStandbyUnderTempF C	NVMFaultCounter	shortNatural	No	fault Counter:10-822- 00: SorFuserControlFailure StandbyUnderTempFa	1.370	
	SorFuserControlFailureStandbyUnderTem		RW	SFuserCtrlFailStandbyUnderTempF C	NVMFaultCounter	shortNatural	No	t Fault Counter:10-822- 00: SorFuserControlFailure	1.370	
	SorFuserControlFailureStandbyUnderTem		RW	SFuserCtrlFailStandbyUnderTempF C	NVMFaultCounter	shortNatural	No	fault Counter:10-822- 00: SorFuserControlFailure StandbyUnderTempFa	1.370	
	SorFuserControlFailureStandbyUnderTem		RW	SFuserCtrlFailStandbyUnderTempF C	NVMFaultCounter	shortNatural	No	fault Counter:10-822- 00: SorFuserControlFailure StandbyUnderTempFa	1.370	
	SorFuserControlFailureStandbyUnderTem		RW	SFuserCtrlFailStandbyUnderTempF C	NVMFaultCounter	shortNatural	No	fault Counter:10-822- 00: SorFuserControlFailure StandbyUnderTempFa	1.370	
	SorFuserControlFailureStandbyUnderTem pFault			C			No	Fault Counter:10-822- 00: SorFuserControlFailure StandbyUnderTempFa ult		
	SorFuserControlFailureStandbyUnderTem pFault  Fault Counter 41-350-00:			SFuserCtrlFailStandbyUnderTempF C	NVMFaultCounter  NVMFaultCounter	shortNatural shortNatural	No	Fault Counter:10-822- 00: SorFuserControlFailure StandbyUnderTempFa ult	1.370	
	SorFuserControlFailureStandbyUnderTem pFault			C			No	Fault Counter:10-822- 00: SorFuserControlFailure StandbyUnderTempFa ult Fault Counter:41-350- 00:		
	SorFuserControlFailureStandbyUnderTem pFault  Fault Counter 41-350-00:			C			No	Fault Counter:10-822- 00: SorFuserControlFailure StandbyUnderTempFa ult		
	SorFuserControlFailureStandbyUnderTem pFault  Fault Counter 41-350-00:			C			No	Fault Counter:10-822- 00: SorFuserControlFailure StandbyUnderTempFa ult Fault Counter:41-350- 00:		
	SorFuserControlFailureStandbyUnderTem pFault  Fault Counter 41-350-00:			C			No	Fault Counter:10-822- 00: SorFuserControlFailure StandbyUnderTempFa ult Fault Counter:41-350- 00:		
	SorFuserControlFailureStandbyUnderTem pFault  Fault Counter 41-350-00:			C			No	Fault Counter:10-822- 00: SorFuserControlFailure StandbyUnderTempFa ult Fault Counter:41-350- 00:		
609-039	SorFuserControlFailureStandbyUnderTem pFault  Fault Counter 41-350-00: PfmCommsFailureFault	no. of faults	RW	PfmCommsFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:10-822- 00: SorFuserControlFailure StandbyUnderTempFa ult  Fault Counter:41-350- 00: PfmCommsFailureFault	1.370	
609-040	SorFuserControlFailureStandbyUnderTem pFault  Fault Counter 41-350-00:		RW	PfmCommsFailFC			No No	Fault Counter:10-822- 00: SorFuserControlFailure StandbyUnderTempFa ult  Fault Counter:41-350- 00: PfmCommsFailureFault		

609-041	Fault Counter 41-354-00: PfmI2CFrameFailureFault	no. of faults	RW PfmI2CFrameFailFC	NVMFaultCounter	shortNatural No	Fault Counter:41-354- 00: PfmI2CFrameFailureF ault	1.370
	Fault Counter 41-359-00: HcfCommsFailureFault Fault Counter 03-360-00:	no. of faults	RW FinisherCommsFailFC RW FINCOMMSFAILFLT	NVMFaultCounter  NVMFaultCounter	shortNatural No	Fault Counter:41-359- 00:	1.370
609-043	FinisherCommsFailureFault	no. or raults	RW FINCOMMSFAILFL	NVMFaultCounter	shortNatural No	Fault Counter:03-360- 00: FINCOMMSFAILFLT	1.078
609-044	Fault Counter 41-363-00: FinToBmCommsFailureFault	no. of faults	RW PfpCommsFailFC	NVMFaultCounter	shortNatural No	Fault Counter:41-363- 00: FinToBmCommsFailur eFault	1.370
609-045	Fault Counter 03-350-00: PfpCommsFailureFault	no. of faults	RW FruCommsFailFC	NVMFaultCounter	shortNatural No	Fault Counter:03-350- 00: PfpCommsFailure	1.678
609-046	Fault Counter 41-371-00: FruCommsFailureFault	no. of faults	RW XruCommsFailFC	NVMFaultCounter	shortNatural No	Fault Counter:41-371- 00: FruCommsFailureFault	

609-047	Fault Counter 41-372-00: XruCommsFailureFault	no. of faults	RW IOTCycledInWithoutPrintingFC	NVMFaultCounter	shortNatural	No Fault Counter:41-372- 00: XruCommsFailureFaul	
609-048	Fault Counter 41-395-00: IOTCycledInWithoutPrintingFault	no. of faults	RW LaserOnWithoutPrTurningFC	NVMFaultCounter	shortNatural N	No Fault Counter:41-395- 00: IOTCycledInWithoutPr ntingFault	
609-049	Fault Counter 41-396-00: LaserOnWithoutPrTurningFault	no. of faults	RW MainMtrNotBeingCtrlledFC	NVMFaultCounter	shortNatural N	No Fault Counter:41-396- 00: LaserOnWithoutPrTurr ingFault	1.370
609-050	Fault Counter 41-397-00: MainMotorNotBeingControlledFault	no. of faults	RW HcfCommsFailFC	NVMFaultCounter	shortNatural	No Fault Counter:41-397- 00: MainMotorNotBeingCo ntrolledFault	
609-051	Fault Counter 41-423-00: PrintCommandLateToPageSyncSimplex3 Fault	no. of faults	RW PrintCmdLateToPageSyncSplx3FC	NVMFaultCounter	shortNatural	No Fault Counter:41-423- 00: PrintCommandLateTo PageSyncSimplex3Fau It	
609-052	Fault Counter 41-480-00: Failure24VFault	no. of faults	RW Fail24VFC	NVMFaultCounter	shortNatural	No Fault Counter:41-480- 00: Failure24VFault	1.370

609-053	Fault Counter 41-805-00: IgnorestatFault	no. of faults	IgnorestatFC	NVMFaultCounter	shortNatural	No	Fault Counter:41-805- 00: IgnorestatFault	1.370	
	Fault Counter 41-852-00: OutOfTimersFault	no. of faults RW	OutOfTmrsFC	NVMFaultCounter	shortNatural	No	Fault Counter:41-852- 00: OutOfTimersFault	1.370	
609-055	Fault Counter 91-365-00: IOTRelativeHumiditySensorFault	no. of faults RW	IOTRelativeHumiditySnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:91-365- 00: FAULT9_365	1.678	
609-056	Fault Counter 91-375-00: IOTAmbientTemperatureSensorFault	no. of faults RW	IOTAmbientTemperatureSnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:91-375- 00: FAULT9_375	1.678	
609-057	Fault Counter 46-060-00: HighVoltagePowerSupplyFailureFault	no. of faults RW	HighVoltagePowerSupplyFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:46-060- 00: HighVoltagePowerSup plyFailureFault	1.370	

600 059	Fault Counter 61-020-00:	no. of faults	RW RosMtrFailFC	NVMFaultCounter	shortNatural	INo	Fault Counter:61-020-	1 270	
009-000	RosMotorFailureFault	ino. Or raunts		IN VIVIFAUILOUITILEI	อกบานขอนเป	INO		1.370	
	Rosiviolorraliurerault						00:		
							RosMotorFailureFault		
609-059	Fault Counter 61-340-00:	no. of faults	RW RosSystemFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:61-340-	1.370	
	RosSystemFailureFault		-				00:		
							RosSystemFailureFault		
1									
1									
600 060	Fault Counter 61-350-00:	no. of faults	RW RosLaserNotBeingCtrlledFC	NVMFaultCounter	shortNatural	No	Fault Counter:61-350-	1.370	
009-000		Tio. or laults	NostasemolbeingClilledFC	INVIVIFAUICOUNTEI	Shortivaturai	INO		1.370	
	RosLaserNotBeingControlledFault						00:		
							RosLaserNotBeingCon		
							trolledFault		
		no. of faults	XW XruAuthorisationFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:92-399-	1.370	
	XruAuthorisationFailureFault						00:		
							XruAuthorisationFailur		
							eFault		
I		1							

609-062	Fault Counter 93-310-00: ReplenisherLevelSensorFailureFault	no. of faults RW	ReplenisherLevelSnsrFailFC	NVMFaultCounter	shortNatural		Fault Counter:93-310- 00: ReplenisherLevelSens orFailureFault	1.370	
609-063	Fault Counter 93-360-00: TonerConcentrationSensorFailureFault	no. of faults	TonerConcSnsrFailFC	NVMFaultCounter	shortNatural	No	00:	1.370	
							TonerConcentrationSe nsorFailureFault		
609-064	Fault Counter 93-361-00: TonerConcentrationControlFailureLowFault		TonerConcCtrlFailLowFC	NVMFaultCounter	shortNatural	No	Fault Counter:93-361- 00: TonerConcentrationCo ntrolFailureLowFault	1.370	
609-065	Fault Counter 93-362-00: TonerConcentrationControlFailureHighFau It	no. of faults RW	TonerConcCtrlFailHighFC	NVMFaultCounter	shortNatural	No	Fault Counter:93-362- 00: TonerConcentrationCo ntrolFailureHighFault	1.370	

609-066	Fault Counter 93-363-00: TonerConcentrationIsolatedControlFailLow Fault		TonerConclsolatedCtrlFailLowFC	NVMFaultCounter	shortNatural		Fault Counter:93-363- 00: TonerConcentrationIsol atedControlFailLowFau It	1.370	
609-067	Fault Counter 93-380-00: WasteTonerBottleMissingFault	no. of faults RW	WasteTonerBottleMissingFC	NVMFaultCounter	shortNatural		Fault Counter:93-380- 00: WasteTonerBottleMissi ngFault	1.370	
609-068	Fault Counter 93-390-00: TonerCartridgeEmptyFault	no. of faults RW	TonerCartridgeEmptyFC	NVMFaultCounter	shortNatural	No	Fault Counter:93-390- 00: TonerCartridgeEmptyF ault	1.370	
609-069	Fault Counter 94-341-00: ScorotronCleaningFailedFault	no. of faults RW	ScorotronCleaningFailedFC	NVMFaultCounter	shortNatural		Fault Counter:94-341- 00: ScorotronCleaningFail edFault	1.370	

222 272	TE 11 0 1 01 010 00	I com	To	langer up	1	 <u> </u>	4.070
609-070	Fault Counter 94-342-00: ScorotronCleanngWarningFault	no. of faults	ScorotronCleanngWarningFC	NVMFaultCounter	shortNatural	Fault Counter:94-342- 00: ScorotronCleanngWar ningFault	1.370
609-071	Fault Counter 94-345-00: TransferDetackCleaningFailedFault	no. of faults RW	TransferDetackCleaningFailedFC	NVMFaultCounter	shortNatural	Fault Counter:94-345- 00: TransferDetackCleanin gFailedFault	1.370
609-072	Fault Counter 94-346-00: TransferDetackCleanngWarningFault	no. of faults RW	TransferDetackCleanngWarningFC	NVMFaultCounter	shortNatural	Fault Counter:94-346- 00: TransferDetackCleann gWarningFault	1.370
609-073	Fault Counter 94-350-00: PhotoreceptorEraseLampFailureFault	no. of faults RW	PhotoreceptorEraseLampFailFC	NVMFaultCounter	shortNatural	Fault Counter:94-350- 00: PhotoreceptorEraseLa mpFailureFault	1.370
609-074	Fault Counter 94-370-00: IOTDeveloperTemperatureSensorFault	no. of faults RW	IOTDeveloperTemperatureSnsrFC	NVMFaultCounter	shortNatural	Fault Counter:94-370- 00: IOTDeveloperTempera tureSensorFault	1.370
609-075	Fault Counter 81-100-00: LeadEdgeLateToPfmWaitPointSensorFaul t		LELateToPfmWaitPointSnsrFC	NVMFaultCounter	shortNatural	Fault Counter:81-100- 00: LeadEdgeLateToPfm WaitPointSensorFault	1.374
609-076	Fault Counter 81-101-00: LeadEdgeLateToTray1FeedSensorFault	no. of faults RW	LELateToTray1FeedSnsrFC	NVMFaultCounter	shortNatural	Fault Counter:81-101- 00: LeadEdgeLateToTray1 FeedSensorFault	1.374
609-077	Fault Counter 81-102-00: LeadEdgeLateToTray2FeedSensorFault	no. of faults RW	LELateToTray2FeedSnsrFC	NVMFaultCounter	shortNatural	Fault Counter:81-102- 00:	1.374

609-078	Fault Counter 81-103-00: LeadEdgeLateToTray3FeedSensorFault	no. of faults	V LELateToTray3FeedSnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:81-103- 00:	1.374
							LeadEdgeLateToTray3	
609-079	Fault Counter 81-104-00: LeadEdgeLateToTray4FeedSensorFault	no. of faults	V LELateToTray4FeedSnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:81-104- 00: LeadEdgeLateToTray4	1.374
609-080	Fault Counter 81-106-00: LeadEdgeLateToTray1SensorFromTray2F ault		V LELateToTray1SnsrFmTray2FC	NVMFaultCounter	shortNatural	No	Fault Counter:81-106- 00: LeadEdgeLateToTray1	1.374
609-081	Fault Counter 81-107-00: LeadEdgeLateToTray4SensorFromTray3F ault		V LELateToTray4SnsrFmTray3FC	NVMFaultCounter	shortNatural	No	Fault Counter:81-107- 00: LeadEdgeLateToTray4	1.374
609-082	Fault Counter 81-108-00: LeadEdgeLateToTray2SensorFromTray4F		V LELateToTray2SnsrFmTray4FC	NVMFaultCounter	shortNatural	No	Fault Counter:81-108- 00:	1.374
609-083	Fault Counter 81-111-00: TrailEdgeLateFromTray1FeedSensorFault		V TELateFmTray1FeedSnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:81-111- 00: TrailEdgeLateFromTra	1.374
609-084	Fault Counter 81-112-00: TrailEdgeLateFromTray2FeedSensorFault		V TELateFmTray2FeedSnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:81-112- 00: TrailEdgeLateFromTra	1.374
609-085	Fault Counter 81-113-00: TrailEdgeLateFromTray3FeedSensorFault	no. of faults	V TELateFmTray3FeedSnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:81-113- 00: TrailEdgeLateFromTra	1.374
609-086	Fault Counter 81-114-00: TrailEdgeLateFromTray4FeedSensorFault	no. of faults	V TELateFmTray4FeedSnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:81-114- 00: TrailEdgeLateFromTra	1.374
609-087	Fault Counter 71-100-00: Tray1HoistFailureFault	no. of faults	V Tray1HoistFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:71-100- 00: Tray1HoistFailureFault	1.374
609-088	Fault Counter 71-500-00: Tray1OpenWhileFeedingFault		V Tray1OpenWhileFeedingFC	NVMFaultCounter	shortNatural	No	Fault Counter:71-500- 00:	1.374
609-089	Fault Counter 72-100-00: Tray2HoistFailureFault	no. of faults	V Tray2HoistFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:72-100- 00: Tray2HoistFailureFault	1.374
609-090	Fault Counter 72-500-00: Tray2OpenWhileFeedingFault	no. of faults	V Tray2OpenWhileFeedingFC	NVMFaultCounter	shortNatural	No	Fault Counter:72-500- 00: Tray2OpenWhileFeedi	1.374
609-091	Fault Counter 73-100-00: Tray3HoistFailureFault	no. of faults R	V Tray3HoistFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:73-100- 00: Tray3HoistFailureFault	1.374
609-092	Fault Counter 73-500-00: Tray3OpenWhileFeedingFault	no. of faults R	V Tray3OpenWhileFeedingFC	NVMFaultCounter	shortNatural	No	Fault Counter:73-500- 00: Tray3OpenWhileFeedi	1.374
609-093	Fault Counter 74-100-00: Tray4HoistFailureFault	no. of faults	V Tray4HoistFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:74-100- 00: Tray4HoistFailureFault	1.374
609-094	Fault Counter 74-500-00: Tray4OpenWhileFeedingFault	no. of faults	V Tray4OpenWhileFeedingFC	NVMFaultCounter	shortNatural	No	Fault Counter:74-500- 00: Tray4OpenWhileFeedi	1.374

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609-095	Fault Counter 76-100-00: PfpTrayHoistFailureFault	no. of faults	V PfpTrayHoistFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:76-100- 00: PfpTrayHoistFailureFa	1.374
609-096	Fault Counter 76-101-00:	no. of faults R\	V PfpTrayLowerFailFC	NVMFaultCounter	shortNatural	No		1.678
	PfpTrayLowerFailureFault	ino. or idano	i i i i pri ay zawan a a	TVVIIII GGIRGOGIRGI			00: PfpTrayLowerFailure	
609-097	Fault Counter 76-500-00:	no. of faults	V PfpOpenWhileFeedingFC	NVMFaultCounter	shortNatural	No	Fault Counter:76-500-	1.678
	PfpOpenWhileFeedingFault						00: PfpOpenWhileFeeding	
609-098	Fault Counter 76-510-00: PfpUndockedInRunFault	no. of faults	V PfpUndockedInRunFC	NVMFaultCounter	shortNatural	No	Fault Counter:76-510- 00: PfpUndockedInRun	1.678
609-099	Fault Counter 81-115-00: LeadEdgeLateToPfpWaitPointSensorFault		V LELateToPfpWaitPointSnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:81-115- 00: LeadEdgeLateToPfpW aitPointSensorFault	1.374
609-100	Fault Counter 81-117-00: LeadEdgeLateToPfpFeedSensorFault	no. of faults	V LELateToPfpFeedSnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:81-117- 00: LeadEdgeLateToPfpFe edSensorFault	1.374
609-101	Fault Counter 81-150-00: LeadEdgeLateToRegistrationSensorFrom PfmFault	no. of faults	V LELateToRegSnsrFmPfmFC	NVMFaultCounter	shortNatural	No	Fault Counter:81-150- 00: LeadEdgeLateToRegis trationSensorFromPfm	1.374
609-102	Fault Counter 81-151-00: TrailEdgeLateToRegSensorAfterClutchOn Fault	no. of faults	V TELateToRegSnsrAfterClutchOnFC	NVMFaultCounter	shortNatural	No	Fault Counter:81-151- 00: TrailEdgeLateToRegS ensorAfterClutchOnFa	1.374
609-103	Fault Counter 81-155-00: LeadEdgeLateToRegistrationSensorFrom MsiFault	no. of faults	V LELateToRegSnsrFmMsiFC	NVMFaultCounter	shortNatural	No	Fault Counter:81-155- 00: LeadEdgeLateToRegis trationSensorFromMsi	1.374
609-104	Fault Counter 81-156-00: StraySheetFromMsiAtRegSensorFault	no. of faults	V StrayShtFmMsiAtRegSnsrFC	NVMFaultCounter	shortNatural	No	Fault Fault Counter:81-156- 00: StraySheetFromMsiAt RegSensorFault	1.374
609-105	Fault Counter 81-171-00: UnexpectedTimeoutForSheetTypeFault	no. of faults	V UnexpTmoutForShtTypeFC	NVMFaultCounter	shortNatural	No	Fault Counter:81-171- 00: UnexpectedTimeoutFo rSheetTypeFault	1.374
609-106	Fault Counter 81-174-00: PpMissingPreReleasedSheetFault	no. of faults	V PpMissingPreReleasedShtFC	NVMFaultCounter	shortNatural	No	Fault Counter:81-174- 00: PpMissingPreReleased SheetFault	1.374
609-107	Fault Counter 81-180-00: UnableToFeedNextSheetFault	no. of faults	V UnableToFeedNextShtFC	NVMFaultCounter	shortNatural	No	Fault Counter:81-180- 00: UnableToFeedNextSh	1.374

609-108	Fault Counter 83-160-00: LeadEdgeLateToDuplexSensorFault	no. of faults	LELateToDplxSnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:83-160- 00: LeadEdgeLateToDuple	
609-109	Fault Counter 83-161-00:	no. of faults RW	TELateToDplxSnsrAfterClutchOnFC	NVMFaultCounter	shortNatural	No	Fault Counter:83-161-	1.374
609-110	Fault Counter 83-181-00: PpUnexpectedTimeoutForSheetTypeSimp InvFault		PpUnexpTmoutForShtTypeSimpInvFC	NVMFaultCounter	shortNatural	No	Fault Counter:83-181- 00: PpUnexpectedTimeout ForSheetTypeSimpInv Fault	1.374
609-111	Fault Counter 83-182-00: PpUnexpectedTimeoutForSheetTypeDupl exFault	no. of faults RW	PpUnexpTmoutForShtTypeDplxFC	NVMFaultCounter	shortNatural	No	Fault Counter:83-182- 00: PpUnexpectedTimeout ForSheetTypeDuplexF ault	1.374
609-112	Fault Counter 83-190-00: StraySheetDetectedPostJamClearanceFault	no. of faults RW	StrayShtDetectPostJamClearFC	NVMFaultCounter	shortNatural	No	Fault Counter:83-190- 00: StraySheetDetectedPo	1.374
609-113		no. of faults	TopCoverOpenInRunFC	NVMFaultCounter	shortNatural	No	Fault Counter:01-310- 00: TopCoverOpenInRunF	1.374
609-114	Fault Counter 11-005-00: FinTamper1FrontMoveFailureFault	no. of faults	FinTamp1FrontMoveFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-005- 00: FinTamper1FrontMove	1.374
609-115	Fault Counter 11-006-00: FinTamper1RearMoveFailureFault	no. of faults	FinTamp1RearMoveFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-006- 00: FinTamper1RearMove	1.374
609-116	Fault Counter 11-007-00: FinTamper2FrontMoveFailureFault	no. of faults RW	FinTamp2FrontMoveFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-007- 00: FinTamper2FrontMove	1.374
609-117	Fault Counter 11-008-00: FinTamper2RearMoveFailureFault	no. of faults RW	FinTamp2RearMoveFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-008- 00: FinTamper2RearMove	1.374
609-118	Fault Counter 11-012-00: FinCompilerCarriageHomeFailureFault	no. of faults RW	FinCompilerCarriageHomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-012- 00: FinCompilerCarriageH	1.374

609-119	Fault Counter 11-014-00: FinCompilerCarriageMoveFailureFault	no. of faults	RW	FinCompilerCarriageMoveFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-014- 00: FinCompilerCarriageM	1.374	
609-120	Fault Counter 11-024-00: FinPaddleRollHomeFailureFault	no. of faults	RW	FinPaddleRollHomeFailFC	NVMFaultCounter	shortNatural	No		1.374	
609-121	Fault Counter 11-025-00: FinPaddleRollCycleFailureFault	no. of faults	RW	FinPaddleRollCycleFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-025- 00: FinPaddleRollCycleFail	1.374	
609-122	Fault Counter 11-026-00: FinPaddleRollerNotHomeFailureFault	no. of faults	RW	FinPaddleRollerNotHomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-026- 00: FinPaddleRollerNotHo meFailureFault	1.374	
609-123	Fault Counter 11-030-00: FinBin1MoveFailureFault	no. of faults	RW	FinBin1MoveFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-030-	1.374	
609-124	Fault Counter 11-031-00: FinBin1OffsetMoveFailureFault	no. of faults	RW	FinBin1OffsetMoveFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-031- 00: FinBin1OffsetMoveFail ureFault	1.374	
609-125	Fault Counter 11-036-00: FinBin2MoveFailureFault	no. of faults	RW	FinBin2MoveFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-036- 00: FinBin2MoveFailureFa ult	1.374	
609-126	Fault Counter 11-040-00: FinBin2OffsetMoveFailureFault	no. of faults	RW	FinBin2OffsetMoveFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-040- 00: FinBin2OffsetMoveFail ureFault	1.374	
609-127	Fault Counter 11-043-00: FinPunchHeadCycleFailureFault	no. of faults	RW	FinPunchHeadCycleFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-043- 00: FinPunchHeadCycleFa ilureFault	1.374	

609-128	Fault Counter 11-044-00: FinPunchHeadReturnHomeFailureFault	no. of faults	RW FinPunchHeadRtrnHomeFailFC	NVMFaultCounter	shortNatural N	Fault Counter:11-044- 00: FinPunchHeadReturnH omeFailureFault	1.374
609-129	Fault Counter 11-045-00: FinPunchHeadStuckHomeFailureFault	no. of faults	RW FinPunchHeadStuckHomeFailFC	NVMFaultCounter	shortNatural N	No Fault Counter:11-045- 00:	1.374
609-130	Fault Counter 11-046-00: FinPunchUnitHomeFlagFailureFault	no. of faults	RW FinPunchUnitHomeFlagFailFC	NVMFaultCounter	shortNatural N	No Fault Counter:11-046-	1.374
609-131	Fault Counter 11-047-00: FinPunchUnitHomeFailureFault	no. of faults	RW FinPunchUnitHomeFailFC	NVMFaultCounter	shortNatural N	No Fault Counter:11-047- 00: FinPunchUnitHomeFail	1.374
609-132	Fault Counter 11-050-00: FinStapleHead1CycleFailureFault	no. of faults	RW FinStapleHead1CycleFailFC	NVMFaultCounter	shortNatural N		1.374
609-133	Fault Counter 11-053-00: FinStapleUnit1MoveFailureFault	no. of faults	RW FinStapleUnit1MoveFailFC	NVMFaultCounter	shortNatural N		1.374
609-134	Fault Counter 11-056-00: FinPPIBottomPlateHomeFailureFault	no. of faults	RW FinPPIBottomPlateHomeFailFC	NVMFaultCounter	shortNatural N	Fault Counter:11-056- 00: FinPPIBottomPlateHo meFailureFault	1.374
609-135	Fault Counter 11-057-00: FinPPIBottomPlateLiftFailureFault	no. of faults	RW FinPPIBottomPlateLiftFailFC	NVMFaultCounter	shortNatural N	Fault Counter:11-057- 00: FinPPIBottomPlateLiftF ailureFault	1.374
609-136	Fault Counter 11-061-00: FinBBCreaseBladeMoveFailureFault	no. of faults	RW FinBBCreaseBladeMoveFailFC	NVMFaultCounter	shortNatural N		1.374
609-137	Fault Counter 11-062-00: FinBBCreaseRollFailureFault	no. of faults	RW FinBBCreaseRollFailFC	NVMFaultCounter	shortNatural N		1.374
609-138	Fault Counter 11-063-00: FinBBStapleHead1MoveFailureFault	no. of faults	RW FinBBStapleHead1MoveFailFC	NVMFaultCounter	shortNatural N	Fault Counter:11-063- 00: FinBBStapleHead1Mov eFailureFault	1.374
609-139	Fault Counter 11-065-00: FinBBBackStopStartFailureFault	no. of faults	RW FinBBBackStopStartFailFC	NVMFaultCounter	shortNatural N	Fault Counter:11-065- 00: FinBBBackStopStartFa ilureFault	1.374
609-140	Fault Counter 11-066-00: FinBBTamper1MoveFailureFault	no. of faults	RW FinBBTamp1MoveFailFC	NVMFaultCounter	shortNatural N	Fault Counter:11-066- 00: FinBBTamper1MoveFa ilureFault	1.374
609-141	Fault Counter 11-072-00: FinBBTapeFeedMoveFaultFault	no. of faults	RW FinBBTapeFeedMoveFCFC	NVMFaultCounter	shortNatural N	Fault Counter:11-072- 00: FinBBTapeFeedMoveF aultFault	1.374

609-142	Fault Counter 11-073-00:	no. of faults	RW	FinBBCoolingFanFCFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-073-	1.374
003-142	FinBBCoolingFanFaultFault	illo. Ol laulis	IIVV			Silortivatural		Inn.	1.074
609-143	Fault Counter 11-077-00:	no. of faults	RW	FinBBHeaterUnderTemperatureFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-077-	1.374
	Fault Counter 11-077-00:	no. of faults			NVMFaultCounter		No	Fault Counter:11-078-	1.374
	Fault Counter 11-070-00:	no. of faults			NVMFaultCounter		No	Fault Counter:11-083-	1.374
	Fault Counter 11-100-00:	no. of faults		LELateToFinEntrySnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-100-	1.374
609-147	Fault Counter 11-100-00:	no. of faults		-	NVMFaultCounter	shortNatural	No	Fault Counter:11-101-	1.374
	Fault Counter 11-101-00:	no. of faults		LELateToFinPunchSnsrFC	NVMFaultCounter		No	Fault Counter:11-110-	1.374
	Fault Counter 11-110-00:	no. of faults			NVMFaultCounter		No	Fault Counter:11-120-	1.374
	Fault Counter 11-120-00:	no. of faults	_		NVMFaultCounter	shortNatural	No	Fault Counter:11-120-	1.374
009-150	TrailEdgeLateFromFinCompilerEntrySens orFault	no. or radits	KVV	TELater III rin Compilei Entry Siisi PC	INVINIFAUILCOUNTEI	SHOITNATUIAI	INO	00: TrailEdgeLateFromFin	
609-151	Fault Counter 11-130-00: LeadEdgeLateToFinTopExitSensorFault	no. of faults	RW	LELateToFinTopExitSnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-130- 00: LeadEdgeLateToFinTo	1.374
609-152	Fault Counter 11-132-00: TrailEdgeLateFromFinTopExitSensorFault	no. of faults	RW	TELateFmFinTopExitSnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-132- 00: TrailEdgeLateFromFin	1.374
609-153	Fault Counter 11-140-00: LeadEdgeLateToFin2ndTopExitSensorFau	no. of faults	RW	LELateToFin2ndTopExitSnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-140- 00: LeadEdgeLateToFin2n	
609-154	Fault Counter 11-142-00: TrailEdgeLateFromFin2ndTopExitSensorFault	no. of faults	RW	TELateFmFin2ndTopExitSnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-142- 00: TrailEdgeLateFromFin	1.374
609-155	Fault Counter 11-150-00: LeadEdgeLateToFin3rdTopExitSensorFault	no. of faults	RW	LELateToFin3rdTopExitSnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-150- 00: LeadEdgeLateToFin3r	1.374
609-156	Fault Counter 11-152-00: TrailEdgeLateFromFin3rdTopExitSensorF	no. of faults	RW	TELateFmFin3rdTopExitSnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-152- 00: TrailEdgeLateFromFin	1.374
609-157	Fault Counter 11-157-00: FinLELateToBufferPositionSensorFault	no. of faults	RW	FinLELateToBufferPosSnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-157- 00: FinLELateToBufferPosi	
609-158	Fault Counter 11-158-00: FinLELateToExitHVFIntoBMSensorFault	no. of faults	RW	FinLELateToExitHVFIntoBMSnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-158- 00: FinLELateToExitHVFIn toBMSensorFault	1.374
609-159	Fault Counter 12-160-00: LeadEdgeLateToBBEntrySensorFault	no. of faults	RW	LELateToBBEntrySnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-160- 00: FAULT11_160	1.678
609-160	Fault Counter 11-161-00: FinTELateFromBufferPositionSensorFault	no. of faults	RW	FinTELateFmBufferPosSnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-161- 00: FinTELateFromBufferP ositionSensorFault	
609-161	Fault Counter 12-162-00: TrailEdgeLateFromBBEntrySensorFault	no. of faults	RW	TELateFmBBEntrySnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-162- 00: TrailEdgeLateFromBB	1.678
609-162	Fault Counter 11-163-00: FinTELateFromExitHVFIntoBMSensorFaul t	no. of faults	RW	FinTELateFmExitHVFIntoBMSnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-163- 00: FinTELateFromExitHV	1.374
609-163	Fault Counter 11-164-00: FinTELateFromBufferPathSensorFault	no. of faults	RW	FinTELateFmBufferPathSnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-164- 00: FinTELateFromBufferP	

609-164		no. of faults	FinLELateToBufferPathSnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-165-	1.374
	FinLELateToBufferPathSensorFault						FinLELateToBufferPat	
609-165	Fault Counter 11-170-00: LeadEdgeLateToBBCompilerExitSensorFa ult		LELateToBBCompilerExitSnsrFC	NVMFaultCounter	shortNatural	No		1.374
609-166	Fault Counter 11-172-00: TrailEdgeLateFromBBCompilerSensorFaul t		TELateFmBBCompilerSnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-172- 00: TrailEdgeLateFromBB CompilerSensorFault	1.374
609-167	Fault Counter 11-173-00: FinOffsetUnitInitializationFailureFault	no. of faults RW	FinOffsetUnitInitFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-173- 00: FinOffsetUnitInitializati onFailureFault	1.374
609-168	Fault Counter 11-174-00: FinOffsetUnitReturnHomeFailureFault	no. of faults RW	FinOffsetUnitRtrnHomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-174- 00: FinOffsetUnitReturnHo	1.374
609-169	Fault Counter 11-175-00: FinOffsetUnitHomeFailureFault	no. of faults RW	FinOffsetUnitHomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-175- 00: FinOffsetUnitHomeFail ureFault	1.374
609-170	Fault Counter 11-176-00: FinOffsetUnitReturnAwayHomeFailureFaul t		FinOffsetUnitRtrnAwayHomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-176- 00: FinOffsetUnitReturnAw ayHomeFailureFault	1.374
609-171	Fault Counter 11-177-00: FinOffsetUnitAwayHomeFailureFault	no. of faults RW	FinOffsetUnitAwayHomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-177- 00: FinOffsetUnitAwayHom eFailureFault	1.374
609-172	Fault Counter 12-180-00: LeadEdgeLateToBBExitSensorFault	no. of faults RW	LELateToBBExitSnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:12-180- 00: FAULT11 180	1.678
609-173	Fault Counter 11-182-00: TrailEdgeLateFromBBExitSensorFault	no. of faults RW	TELateFmBBExitSnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-182- 00: TrailEdgeLateFromBB ExitSensorFault	1.374
609-174	Fault Counter 11-183-00: FinBMUnexpectedSheetDetectedFault	no. of faults RW	FinBMUnexpShtDetectFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-183- 00: FinBMUnexpectedShe etDetectedFault	1.374
609-175	Fault Counter 11-184-00: FinBMStraySheetDetectedPostJamCleara nceFault	no. of faults RW	FinBMStryShtDetectPostJamClearF C	NVMFaultCounter	shortNatural	No	Fault Counter:11-184- 00: FinBMStraySheetDetec	1.374
609-176		no. of faults RW	FinLELateToTFExitSnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-185- 00: FinLELateToTFExitSen	1.374
609-177	Fault Counter 11-186-00: FinTELateFromTFExitSensorFault	no. of faults RW	FinTELateFmTFExitSnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-186- 00: FinTELateFromTFExit SensorFault	1.374

609-178	Fault Counter 11-187-00: FinLELateToTFAssistSensorFault	no. of faults	FinLELateToTFAssistSnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-187- 00: FinLELateToTFAssistS	1.374
609-179	Fault Counter 11-188-00: FinNipSplitFailureFault	no. of faults RW	FinNipSplitFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-188- 00: FinNipSplitFailureFault	1.374
609-180	Fault Counter 11-189-00: FinNipHomeFailureFault	no. of faults RW	FinNipHomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-189- 00: FinNipHomeFailureFau It	1.374
609-181	Fault Counter 11-191-00: FinLELateToPPITabStandbySensorFault	no. of faults RW	FinLELateToPPITabStandbySnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-191- 00: FinLELateToPPITabSt	1.374
609-182	Fault Counter 11-193-00: FinTELateFromPPITabStandbySensorFau It		FinTELateFmPPITabStandbySnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-193- 00: FinTELateFromPPITab StandbySensorFault	1.374
609-183	Fault Counter 11-194-00: FinLELateToPPIPickupSensorFault	no. of faults RW	FinLELateToPPIPickupSnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-194- 00: FinLELateToPPIPickup	1.374
609-184	Fault Counter 11-196-00: FinTELateFromPPITrayPickupSensorFault		FinTELateFmPPITrayPickupSnsrFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-196- 00: FinTELateFromPPITra yPickupSensorFault	1.374
609-185	Fault Counter 11-198-00: FinStraySheetDetectedPostJamClearance Fault	no. of faults RW	/ FinStrayShtDetectPostJamClearFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-198- 00: FinStraySheetDetected PostJamClearanceFaul t	1.374
609-186	Fault Counter 11-199-00: UnexpectedSheetDetectedFault	no. of faults RW	UnexpShtDetectFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-199- 00: UnexpectedSheetDete ctedFault	1.374
609-187	Fault Counter 11-300-00: FinUnDockedInterlockInRunFault	no. of faults RW	/ FinUnDockedIntlckInRunFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-300- 00: FinUnDockedInterlockI nRunFault	1.374

609-188	Fault Counter 11-301-00: FinEntryGateInterlockOpenInRunFault	no. of faults	V FinEntryGateIntlckOpenInRunFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-301- 00: FinEntryGateInterlock OpenInRunFault	1.374
609-189	Fault Counter 11-302-00: FinTopCoverInterlockOpenInRunFault	no. of faults RV	V FinTopCoverIntlckOpenInRunFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-302- 00: FinTopCoverInterlockO	1.374
609-190	Fault Counter 11-303-00: FinFrontDoorInterlockOpenInRunFault	no. of faults	V FinFrontDoorIntlckOpenInRunFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-303- 00: FinFrontDoorInterlock	1.374
609-191	Fault Counter 11-304-00: FinTopGateInterlockOpenInRunFault	no. of faults	V FinTopGateIntlckOpenInRunFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-304- 00: FinTopGateInterlockO	1.374
609-192	Fault Counter 11-305-00: FinBottomExitGateInterlockOpenInRunFau It		V FinBotExitGateIntlckOpenInRunFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-305- 00: FinBottomExitGateInter	1.374
609-193	Fault Counter 11-306-00: FinPPITopCoverInterlockOpenInRunFault	no. of faults	V FinPPITopCoverIntlckOpenInRunFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-306- 00: FinPPITopCoverInterlo	1.374
609-194	Fault Counter 11-307-00: FinTrifoldTopCoverOpenInRunFault	no. of faults	V FinTrifoldTopCoverOpenInRunFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-307- 00: FinTrifoldTopCoverOp enInRunFault	1.374
609-195	Fault Counter 11-308-00: FinTrifoldFrontDoorOpenInRunFault	no. of faults	V FinTrifoldFrontDoorOpenInRunFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-308- 00:	1.374
609-196		no. of faults	V FinInsLeftHandDoorOpenInRunFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-309- 00: FinInserterLeftHandDo	1.374
609-197	Fault Counter 11-310-00: FinTamper1FrontHomeFailureFault	no. of faults	V FinTamp1FrontHomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-310- 00: FinTamper1FrontHom	1.374
609-198	Fault Counter 11-311-00: FinTamper1RearHomeFailureFault	no. of faults	V FinTamp1RearHomeFailFC	NVMFaultCounter	shortNatural	No		1.374
609-199	Fault Counter 11-312-00: FinTamper2FrontHomeFailureFault	no. of faults	V FinTamp2FrontHomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-312- 00: FinTamper2FrontHom eFailureFault	1.374
609-200	Fault Counter 11-313-00: FinTamper2RearHomeFailureFault	no. of faults	V FinTamp2RearHomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-313- 00: FinTamper2RearHome	1.374
609-201	Fault Counter 11-315-00: FinCompilerCarriageOverTravelFailureUp Fault	no. of faults	V FinComplerCarriageTravelFailUpFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-315- 00: FinCompilerCarriageO	1.374
609-202		no. of faults	V FinComplrCarriageTravelFailLowFC	NVMFaultCounter	shortNatural	No		1.374

609-203	Fault Counter 11-319-00:	no. of faults	FinRearTampAwayHomeSnsrFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-319-	1.374
	FinRearTamperAwayHomeSensorFailureF						00:	
	ault						FinRearTamperAwayH omeSensorFailureFault	
609-204	Fault Counter 11-320-00:	no. of faults RW	FinCompilerEjectorHomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-320-	1.374
	FinCompilerEjectorHomeFailureFault		,,,				00:	
							FinCompilerEjectorHo	
609-205		no. of faults	FinCompilerEjectorCycleFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-322-	1.374
	FinCompilerEjectorCycleFailureFault						FinCompilerEjectorCyc	
609-206	Fault Counter 11-334-00:	no. of faults RW	FinBin1OverTravelFailUpperFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-334-	1.374
	FinBin1OverTravelFailureUpperFault						00:	
200 007	F # 0 + 44 005 00	66 11	F: P: 40 T IF III F0	N / 45 10 1		N.	FinBin1OverTravelFail	4.074
609-207	Fault Counter 11-335-00: FinBin1OverTravelFailureLowerFault	no. of faults	FinBin1OverTravelFailLowerFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-335-	1.374
	FIIIDIII I Over I TaveiralluleLoweirault						FinBin1OverTravelFail	
609-208	Fault Counter 11-336-00:	no. of faults RW	FinBin1HomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-336-	1.374
	FinBin1HomeFailureFault						00:	
							FinBin1HomeFailureFa	
							uit	
609-209	Fault Counter 11-337-00:	no. of faults RW	FinBin1OffsetHomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-337-	1.374
	FinBin1OffsetHomeFailureFault						00:  FinBin1OffsetHomeFail	
							ureFault	
							aror duit	
609-210		no. of faults RW	FinBin2OverTravelFailUpperFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-344-	1.374
	FinBin2OverTravelFailureUpperFault						00:	
							FinBin2OverTravelFail ureUpperFault	
							итеоррен аик	
609-211	Fault Counter 11-345-00:	no. of faults RW	FinBin2OverTravelFailLowerFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-345-	1.374
	FinBin2OverTravelFailureLowerFault						00:	
							FinBin2OverTravelFail ureLowerFault	
609-212	Fault Counter 11-346-00:	no. of faults RW	FinBin2HomeFailFC	NVMFaultCounter	shortNatural	No		1.374
000 2 12	FinBin2HomeFailureFault	Inc. or radio	i induitation aim o	Transcalle.	onora tatara		00:	
							FinBin2HomeFailureFa	
							ult	
609-213	Fault Counter 11-347-00:	no. of faults RW	FinBin2OffsetHomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-347-	1.374
003-213	FinBin2OffsetHomeFailureFault	The or ladits		TVVIII dallocaritei	Shortivatural	140	00:	1.074
							FinBin2OffsetHomeFail	
							ureFault	
609-214	Fault Counter 11-350-00:	no. of faults RW	FinPunchHeadHomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-350-	1.374
	FinPunchHeadHomeFailureFault						00:	
							FinPunchHeadHomeF	
							ailureFault	
609-215	Fault Counter 11-360-00:	no. of faults RW	FinStapleHead1HomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-360-	1.374
-			· ·	•			•	

609-216		no. of faults	FinStapleHead1NotPrimedFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-364-	1.374
	FinStapleHead1NotPrimedFault						00: FinStapleHead1NotPri	
609-217	Fault Counter 11-370-00:	no. of faults RW	FinStapleUnit1HomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-370-	1.374
	FinStapleUnit1HomeFailureFault		·				00:	
000.040	F11 O 14 074 00	56	F: 00-1-11	NV/A45 140 1	. I	NI.	FinStapleUnit1HomeFa	4.074
609-218			FinStaplerHomeFailFC FinStaplerRtrnHomeFailFC	NVMFaultCounter NVMFaultCounter		No No	Fault Counter:11-371- Fault Counter:11-372-	1.374 1.374
009-219	FinStaplerReturnHomeFailureFault	no. or faults	FinotapierRunnomeralirC	INVINIFAUILCOUNIEI	Shortivaturai	INO	100:	1.374
609-220		no. of faults RW	FinStaplerMiddleHomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-373-	1.374
	FinStaplerMiddleHomeFailureFault						00:	
000 004	Fault Counter 11-374-00:		Fig. Ot and a got and Minds that have a Fail FO	NV/N4F14O4	ala authi atausai	No	FinStaplerMiddleHome	4.074
609-221	FinStaplerStuckMiddleHomeFailureFault	no. of faults	FinStaplerStuckMiddleHomeFailFC	NVMFaultCounter	shortNatural	INO	Fault Counter:11-374-	1.374
	I motapicrotackiviladici forner aliarer aut						FinStaplerStuckMiddle	
609-222	Fault Counter 11-375-00:	no. of faults RW	FinStaplerJawHomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-375-	1.374
	FinStaplerJawHomeFailureFault						00:	
609-223	Fault Counter 11-376-00:	no. of faults RW	FinStaplerJawStuckHomeFailFC	NVMFaultCounter	shortNatural	No	FinStaplerJawHomeFai Fault Counter:11-376-	1.374
009-223	FinStaplerJawStuckHomeFailureFault	Ino. or faults	Filiotapierdawotucki loitieraliro	INVINIFAUILCOUTILET	Siloitivaturai	INO	100:	1.374
609-224		no. of faults RW	FinStaplerPrimingFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-377-	1.374
	FinStaplerPrimingFailureFault						00:	
							FinStaplerPrimingFailu	
609-225	Fault Counter 11-380-00:	no. of faults RW	   FinPunchPaprSideEdgeDetectFailFC	NVMFaultCounter	shortNatural	No	reFault Fault Counter:11-380-	1.374
000 220	FinPunchUnitPaperSideEdgeDetectingFail	The or ladies	Tim anom apronactage beteen am o	TVVIII dallocaritor	onorti <b>v</b> atarai		00:	1.074
	ureFault						FinPunchUnitPaperSid	
							eEdgeDetectingFailure	
609-226	Fault Counter 11-383-00: FinBBBackStopHomeFailureFault	no. of faults	FinBBBackStopHomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-383-	1.374
	FilibbbackStopHomeFallureFault						FinBBBackStopHomeF	
							ailureFault	
609-227		no. of faults RW	FinBBTamp1HomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-384-	1.374
	FinBBTamper1HomeFailureFault						00:	
							FinBBTamper1HomeF ailureFault	
609-228	Fault Counter 11-391-00:	no. of faults RW	FinBBFlapperHomeFailFC	NVMFaultCounter	shortNatural	No		1.374
	FinBBFlapperHomeFailureFault						00:	
							FinBBFlapperHomeFail	
600,000	Fault Counter 44 202 00:	no of faults	Fin FrankTanan Travil I am a Fail FO	NIV/NAFIt-Ct	abautNlatuusl	N	ureFault Fault Counter:11-392-	4.074
609-229	Fault Counter 11-392-00: FinFrontTamperTrayHomeFailureFault	no. of faults RW	FinFrontTampTrayHomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter: 11-392-	1.374
	This foliation ray former and cradic						FinFrontTamperTrayH	
							omeFailureFault	
609-230		no. of faults	FinFrontTampTrayRtrnHomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-393-	1.374
	FinFrontTamperTrayReturnHomeFailureF						00:  FinFrontTamperTrayR	
	ault						eturnHomeFailureFault	
609-231	Fault Counter 11-394-00:	no. of faults RW	FinFrontTampTrayAwayHomeFailFC	NVMFaultCounter	shortNatural	No		1.374
	FinFrontTamperTrayAwayHomeFailureFa						00:	
	ult						FinFrontTamperTrayA	
						]	wayHomeFailureFault	

609-232	FinFrontTamperTrayStuckAwayHomeFailu reFault		FinFrontTampStuckAwayHomeFailF C			No	Fault Counter:11-395- 00: FinFrontTamperTraySt uckAwayHomeFailureF	1.374
609-233	FinRearTamperTrayHomeFailureFault	no. of faults RW	FinRearTampTrayHomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-396- 00:	1.374
609-234	Fault Counter 11-397-00: FinRearTamperTrayReturnHomeFailureFault		FinRearTampTrayRtrnHomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-397- 00: FinRearTamperTrayRe	1.374
609-235	Fault Counter 11-398-00: FinRearTamperTrayAwayHomeFailureFau	no. of faults	FinRearTampTrayAwayHomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-398- 00:	1.374
609-236	Fault Counter 11-399-00: FinRearTamperTrayReturnAwayHomeFail ureFault	no. of faults RW	FinRearTampRtrnAwayHomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-399- 00: FinRearTamperTrayRe	1.374
609-237	Fault Counter 11-403-00: FinBBStapleHead2MoveFailureFault	no. of faults RW	FinBBStapleHead2MoveFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-403- 00: FinBBStapleHead2Mov eFailureFault	1.374
609-238	Fault Counter 11-411-00: FinBBStapleHead1HomeFailureFault	no. of faults RW	FinBBStapleHead1HomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-411- 00: FinBBStapleHead1Ho meFailureFault	1.374
609-239	Fault Counter 11-413-00: FinBBStapleHead2HomeFailureFault	no. of faults RW	FinBBStapleHead2HomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-413- 00: FinBBStapleHead2Ho meFailureFault	1.374
609-240	Fault Counter 11-414-00: FinBMStaplerModuleHomeFault	no. of faults RW	FinBMStaplerModuleHomeFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-414- 00: FinBMStaplerModuleH omeFault	1.374
609-241	Fault Counter 11-415-00: FinBBCreaseRollGateHomeFailureFault	no. of faults RW	FinBBCreaseRollGateHomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-415- 00: FinBBCreaseRollGate	1.374
609-242	Fault Counter 11-416-00: FinBBCreaseBladeHomeFailureFault	no. of faults RW	FinBBCreaseBladeHomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-416- 00: FinBBCreaseBladeHo meFailureFault	1.374
609-243	Fault Counter 11-417-00: FinBMFlapperHomeFailureFault	no. of faults RW	FinBMFlapperHomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-417- 00: FinBMFlapperHomeFai lureFault	1.374
	FinBMFlapperMoveFailureFault	no. of faults RW	FinBMFlapperMoveFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-418- 00: FinBMFlapperMoveFail ureFault	1.374
609-245	Fault Counter 11-419-00: FinBMTamper2HomeFailureFault	no. of faults RW	FinBMTamp2HomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-419- 00: FinBMTamper2HomeF ailureFault	1.374
609-246	Fault Counter 11-420-00: FinBMTamper2MoveFailureFault	no. of faults	FinBMTamp2MoveFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-420- 00: FinBMTamper2MoveF ailureFault	1.374

600 247	Fault Counter 11-430-00:	no of faulto	RW FinKickerCycleFailFC	NV/MEquitCounter	abartNlatural	INIo	Foult Countary 11 420	14 274
609-247		no. of faults	RVV FINKICKErCycleFallFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-430-	1.374
	FinKickerCycleFailureFault						00:	
							FinKickerCycleFailureF	
							ault	
609-248	Fault Counter 11-440-00:	no. of faults	RW FinPaperPusherRtrnHomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-440-	1.374
	FinPaperPusherReturnHomeFailureFault						00:	
	'						FinPaperPusherReturn	
							HomeFailureFault	
609-249	Fault Counter 11-441-00:	no. of faults	RW FinPaperPusherHomeFailFC	NVMFaultCounter	shortNatural	No		1.374
009-249		ino. or raults	RVV   FIII Papel Pusite i Hottle Pali PC	NVIVIFAUILCOUTILET	SHOLINALUIAI	INO	rault Counter. 11-441-	1.374
	FinPaperPusherHomeFailureFault						00:	
							FinPaperPusherHome	
							FailureFault	
609-250	Fault Counter 11-442-00:	no. of faults	RW FinPaperPusherRtrnAwayHomeFailF	NVMFaultCounter	shortNatural	No	Fault Counter:11-442-	1.374
	FinPaperPusherReturnAwayHomeFailureF		C				00:	
	ault						FinPaperPusherReturn	
							AwayHomeFailureFault	
609-251	Fault Counter 11-443-00:	no. of faults	RW FinPaperPusherAwayHomeFailFC	NVMFaultCounter	shortNatural	No		
1000 201	FinPaperPusherAwayHomeFailureFault	Tio. or radio	Tim apon acrion way former am c	TTT THE GARAGE	Onortivatarar		100·	
	I ill aper usher Awayi lonler allurer aut						FinPaperPusherAwayH	
222.252	- HO 4 450 00		I I I I I I I I I I I I I I I I I I I	N 7 45 110			omeFailureFault	1,074
609-252	Fault Counter 11-450-00:	no. of faults	RW FinEjectorModuleMtrStallFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-450-	1.374
	FinEjectorModuleMotorStallFault						00:	
							FinEjectorModuleMotor	1
							StallFault	
609-253	Fault Counter 11-451-00:	no. of faults	RW FinEjectorPlateMtrStallFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-451-	1.374
	FinEjectorPlateMotorStallFailureFault						00:	
							FinEjectorPlateMotorSt	
							allFailureFault	
609-254	Fault Counter 11-452-00:	no. of faults	RW FinEjectorPlateRtrnHomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-452-	1.374
009-254	FinEjectorPlateReturnHomeFailureFault	lio. or laults	I III Ljectori laterturii lorrier alii C	INVIVII auticountei	Siloitivaturai		00.	1.574
	FIIIEJector PlateReturn Homeralitire Pault						Circ Circ at a mDl at a D at a mar	
							FinEjectorPlateReturn	
							HomeFailureFault	
609-255	Fault Counter 11-453-00:	no. of faults	RW FinEjectorPlateHomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-453-	1.374
	FinEjectorPlateHomeFailureFault						00:	
							FinEjectorPlateHomeF	
							ailureFault	
609-256	Fault Counter 11-454-00:	no. of faults	RW FinLowerPaddleRtrnHomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-454-	1.374
	FinLowerPaddleReturnHomeFailureFault					_	00.	
	This work addict total in former diluter dall						FinLowerPaddleReturn	
							HomeFailureFault	
600.057	Foult Counter 11 455 00:	no. of faults	DW Finl owerDoddle Lerra FailCO	NV/ME outle Country	abortNiational	No		1 274
609-257	Fault Counter 11-455-00:	IIIO. OI IAUILS	RW FinLowerPaddleHomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-455-	1.374
	FinLowerPaddleHomeFailureFault						00:	
							FinLowerPaddleHome	
							FailureFault	
609-258	Fault Counter 11-456-00:	no. of faults	RW FinEjectorModuleRtrnHomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-456-	1.374
	FinEjectorModuleReturnHomeFailureFault						00:	
	1						FinEjectorModuleRetur	
							nHomeFailureFault	
	<u>I</u>	l		l				

609-259	Fault Counter 11-457-00: FinEjectorModuleHomeFailureFault	no. of faults	RW	FinEjectorModuleHomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-457- 00: FinEjectorModuleHom eFailureFault	1.374	
609-260	Fault Counter 11-458-00: FinEjectorModuleReturnOutFailureFault	no. of faults	RW	FinEjectorModuleRtrnOutFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-458- 00: FinEjectorModuleRetur nOutFailureFault	1.374	
609-261	Fault Counter 11-459-00: FinEjectorModuleOutFailureFault	no. of faults	RW	FinEjectorModuleOutFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-459- 00: FinEjectorModuleOutF ailureFault	1.374	
609-262	Fault Counter 11-460-00: FinStackerMotorStallFailureFault	no. of faults	RW	FinStackerMtrStallFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-460- 00: FinStackerMotorStallF	1.374	
609-263	Fault Counter 11-461-00: FinStackerBinHomeFailureFault	no. of faults	RW	FinStackerBinHomeFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-461- 00: FinStackerBinHomeFai	1.374	
609-264	Fault Counter 11-462-00: FinStackerBinMoveFailureFault	no. of faults	RW	FinStackerBinMoveFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-462- 00: FinStackerBinMoveFail ureFault	1.374	
609-265	Fault Counter 11-463-00: FinBM24vUnavailableAtInputFault	no. of faults	RW	FinBM24vUnavailableAtInputFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-463- 00: FinBM24vUnavailableA	1.374	
609-266	Fault Counter 11-464-00: FinBM24vInternalFailureFault	no. of faults	RW	FinBM24vInternalFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-464-	1.374	
609-267	Fault Counter 11-465-00: FinPaddleUnitReturnUpperFailureFault	no. of faults	RW	FinPaddleUnitRtrnUpperFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-465- 00: FinPaddleUnitReturnU pperFailureFault	1.374	
609-268	Fault Counter 11-466-00: FinPaddleUnitNotUpperFailureFault	no. of faults	RW	FinPaddleUnitNotUpperFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-466- 00: FinPaddleUnitNotUppe rFailureFault	1.374	
609-269	Fault Counter 11-467-00: FinPaddleUnitReturnLowerFailureFault	no. of faults	RW	FinPaddleUnitRtrnLowerFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-467- 00: FinPaddleUnitReturnLo werFailureFault	1.374	
609-270	Fault Counter 11-468-00: FinPaddleUnitNotLowerFailureFault	no. of faults	RW	FinPaddleUnitNotLowerFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-468- 00: FinPaddleUnitNotLowe rFailureFault	1.374	

000 074	TIt Ot 44 400 00:		DW Fig. 0. or 0. or 0. or 0. or 0.	NIV /NAF = 1.14O = 1.114 = 11	- l4N   - 4:	NI-	FIt Ot14 400	4 074
	Fault Counter 11-469-00:	no. of faults	RW FinCurlSuppressorRtrnHomeFailFC	NVIVIFAUItCounter	shortNatural I	No	Fault Counter:11-469-	1.374
	FinCurlSuppressorReturnHomeFailureFaul						00:	
	t						FinCurlSuppressorRet	
							urnHomeFailureFault	
600.070	Fault Counter 11-470-00:	no. of faults	DW FigOvalConstruction Failed	NVMFaultCounter	a b a wtN late wall	NIa	Fault Countain 14 170	14.274
609-272		no. or raults	RW FinCurlSuppressorHomeFailFC	NymrauliCounter	shortNatural	No	Fault Counter:11-470-	1.374
	FinCurlSuppressorHomeFailureFault						00:	
							FinCurlSuppressorHo	
	Fault Counter 11-471-00:	no. of faults	RW FinCurlSuppressorRtrnAwayFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-471-	1.374
	FinCurlSuppressorReturnAwayFailureFault						00:	
							FinCurlSuppressorRet	
609-274	Fault Counter 11-472-00:	no. of faults	RW FinCurlSuppressorAwayFailFC	NVMFaultCounter	shortNatural I	No	Fault Counter:11-472-	1.374
	FinCurlSuppressorAwayFailureFault						00:	
							FinCurlSuppressorAwa	
							yFailureFault	
							,	
609-275	Fault Counter 11-473-00:	no. of faults	RW FinPressSupportMtrRtrnInitFailFC	NVMFaultCounter	shortNatural I	No	Fault Counter:11-473-	1.374
	FinPressingSupportMotorReturnInitFailure						00:	
	Fault						FinPressingSupportMo	
							torReturnInitFailureFau	
							lt	
609-276	Fault Counter 11-474-00:	no. of faults	RW FinPressSupportMtrInitFailFC	NVMFaultCounter	shortNatural I	No	Fault Counter:11-474-	1.374
000 2.0	FinPressingSupportMotorInitFailureFault		The resessapperant and s	Trviiii danosamer	onor a tatarar		00.	
	This resulting cupper aviolatinal character date						FinPressingSupportMo	
							torInitFailureFault	
							tormitraliurerault	
609-277	Fault Counter 11-475-00:	no. of faults	RW FinPressSupportMtrRtrnHomeFailFC	NVMFaultCounter	shortNatural I	No	Fault Counter:11-475-	1.374
	FinPressingSupportMotorReturnHomeFail	lio. or radio	The resemperation and s	Trywi dailedaillei	onorti tatarar	110	00·	
	ureFault						FinPressingSupportMo	
	uiei auit						torReturnHomeFailure	
							Fault	
600 279	Fault Counter 11-476-00:	no. of faults	RW FinPressSupportMtrHomeFailFC	NVMFaultCounter	shortNatural		Fault Counter:11-476-	1.374
009-276			The Intressoupportiviti Tomeralino	INVIVIFAUICOUITEI	SHOLLIVALUIAI	INO	00.	1.374
	FinPressingSupportMotorHomeFailureFaul						UU. Ein Danna in a O a ant Mari	
	t						FinPressingSupportMo	
							torHomeFailureFault	
609-279	Fault Counter 11-477-00:	no. of faults	RW FinPressSupportMtrRtrnOutFailFC	NVMFaultCounter	shortNatural I	No	Fault Counter:11-477-	1 274
	FinPressingSupportMotorReturnOutFailure		11. III. 16390apportiviti NutiOutFallFC	INVIVII auttouritei	31101 livaturai	INO	r auπ Ουμπιστ. Γ1-477- ΛΛ·	1.5/7
	- · · ·						UU. Ein Dragging CummantMa	
	Fault						FinPressingSupportMo	
							torReturnOutFailureFa	
600,000	Foult Country 44, 470,000	land of faculta	DW Fin Droop Company Man Code = 1150	NIV/ME avide avint = ::		NIa	UIT	14 274
	Fault Counter 11-478-00:	no. of faults	RW FinPressSupportMtrOutFailFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-478-	1.374
	FinPressingSupportMotorOutFailureFault						UU:	
							FinPressingSupportMo	
							torOutFailureFault	
600.004	Foult Counter 11, 470,00:	no. of faults	DW Finchart Cht Fod Frod Frod Frod Frod Frod Frod Frod	NIV/ME outle outle :	abortNatural 1	No	Foult Counts =: 44, 470	14 274
	Fault Counter 11-479-00:	no. or raults	RW FinShortShtFedFmInserterFC	NVMFaultCounter	shortNatural	No	Fault Counter:11-479-	1.374
	FinShortSheetFedFromInserterFault						UU:	
							FinShortSheetFedFro	
							mInserterFault	
			<u>                                     </u>					

609-282	Fault Counter 11-701-00: OctNotInIndexPositionFault	no. of faults	V OctNotInIndexPosFC	NVMFaultCounter	shortNatural	No Fault Counter:11-70 00: OctNotInIndexPositi Fault	
609-283	Tray 9 Media Type	MTDrilled = 1, MTEnvelope = 3, 	Tray 9 Media Type	NVMSAKOSetting	shortNatural	No	1.554
609-284	Tray 9 Media Color	MCGreen = 1, MCBuff = 2, 	V Tray 9 Media Color	NVMSAKOSetting	shortNatural	No	1.380
609-285	Tray 9 Media Weight	MCCustom6 = 19,	V Tray 9 Media Weight	NVMSAKOSetting	shortNatural	No	1.380
609-286	Tray 9 Direct Select	TSDirectOnly = 0, TSDirectAndAuto = 1	V Tray 9 Direct Select	NVMSAKOSetting	shortNatural	No	1.380
609-287	Tray 9 Priority	RV	V Tray 9 Priority	NVMSAKOSetting	shortNatural	No	1.380
609-288	Tray 9 Width	Range and default size in mm	V Tray 9 Width	NVMSAKOSetting	natural	No	1.380
609-289	Tray 9 Length	Range and default size in mm	V Tray 9 Length	NVMSAKOSetting	natural	No	1.380
609-290	Tray 9 Percent Full	RV	V Tray 9 Percent Full	NVMSAKOSetting	shortNatural	No	1.380
609-291	Tray 9 User Type	TAFixed = 0, TAAdjustableAll = 1, [TAAdjustableSizeOnly =	V Tray 9 User Type	NVMSAKOSetting	shortNatural	No	1.380
609-292	Tray 9 Modulus	RV	V Tray 9 Modulus	NVMSAKOSetting	shortNatural	No	1.380
609-293	Tray 9 Modulus Position	RV	V Tray 9 Modulus Position	NVMSAKOSetting	shortNatural	No	1.380

609-294	Tray 10 Media Type	MTStandard = 0,	RW Tray 10 M	ledia Type	NVMSAKOSetting	shortNatural	No	1.554
		MTDrilled = 1, MTEnvelope = 3,						
609-295	Tray 10 Media Color		RW Tray 10 M	ledia Color	NVMSAKOSetting	shortNatural	No	1.380
		MCCustom6 = 19,						
609-296	Tray 10 Media Weight		RW Tray 10 M	edia Weight	NVMSAKOSetting	shortNatural	No	1.380
609-297	Tray 10 Direct Select	TSDirectOnly = 0, TSDirectAndAuto = 1	RW Tray 10 D	irect Select	NVMSAKOSetting	shortNatural	No	1.380
609-298	Tray 10 Priority		RW Tray 10 P	riority	NVMSAKOSetting	shortNatural	No	1.380
000,000	T 40 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Danna and default sine in	DW T 40 W	/: _IAI_	NIV/NACALZOC - ##i	a street	No	4 200
609-299	Tray 10 Width	Range and default size in mm	RW Tray 10 W	riatn	NVMSAKOSetting	natural	No	1.380
609-300	Tray 10 Length	Range and default size in mm	RW Tray 10 Lo	ength	NVMSAKOSetting	natural	No	1.380
609-301	Tray 10 Percent Full		RW Tray 10 P	ercent Full	NVMSAKOSetting	shortNatural	No	1.380
609-302	Tray 10 User Type	TAFixed = 0, TAAdjustableAll = 1,	RW Tray 10 U	ser Type	NVMSAKOSetting	shortNatural	No	1.380
		[TAAdjustableSizeOnly =						
609-303	Tray 10 Modulus		RW Tray 10 M	lodulus	NVMSAKOSetting	shortNatural	No	1.380
609-304	Tray 10 Modulus Position		RW Tray 10 M	odulus Position	NVMSAKOSetting	shortNatural	No	1.380
609-305	Tray 11 Media Type	MTStandard = 0, MTDrilled = 1, MTEnvelope = 3,	RW Tray 11 M	ledia Type	NVMSAKOSetting	shortNatural	No	1.554
609-306	Tray 11 Media Color	MCWhite = 0, MCGreen = 1, MCBuff = 2,	RW Tray 11 M	edia Color	NVMSAKOSetting	shortNatural	No	1.380
	L	1			L		1	

609-307	Tray 11 Media Weight	l RV	Tray 11 Media Weight	NVMSAKOSetting	shortNatural	No	1.380	
	, o							
609-308	Tray 11 Direct Select	TSDirectOnly = 0, RV	/ Tray 11 Direct Select	NVMSAKOSetting	shortNatural	No	1.380	
		TSDirectAndAuto = 1						
609-309	Tray 11 Priority	RV	Tray 11 Priority	NVMSAKOSetting	shortNatural	No	1.380	
609-310	Tray 11 Width	Range and default size in RV	Tray 11 Width	NVMSAKOSetting	natural	No	1.380	
		mm						
609-311	Tray 11 Length	Range and default size in RW	Tray 11 Length	NVMSAKOSetting	natural	No	1.380	
609-312	Tray 11 Percent Full		/ Tray 11 Percent Full	NVMSAKOSetting	shortNatural	No	1.380	
	,							
609-313	Tray 11 User Type		Tray 11 User Type	NVMSAKOSetting	shortNatural	No	1.380	
		TAAdjustableAll = 1,						
		[TAAdjustableSizeOnly =						
		2]						
609-314	Tray 11 Modulus	RV	Tray 11 Modulus	NVMSAKOSetting	shortNatural	No	1.380	
609-315	Tray 11 Modulus Position	Rv	Tray 11 Modulus Position	NVMSAKOSetting	shortNatural	No	1.380	
600.216	PFP Kit Type installed in PFP	0=Standard (A4 & Letter RV	/ PFP Kit Type	NVMSAKOSetting	shortNatural	No	1.380	
009-310	FFF Kit Type IIIstalled III FFF	LEF)	FFF Kit Type	INVINISAROSELLING	Shortivaturai	INO	1.360	
		1=Kit A (A3 SEF & A4						
		LEF)						
609-319	Tray 4 Feed Rolls life expectancy	2=Kit A (11x17 SEF & RW	/ Tray4FeedRollsExpLife	NVMConfiguration	longNatural	No	1.434	
	,	CSE	, σσα. τοπο <b>Ε</b> λβΕπο	garanon			[	
000.010	T 4 Di h 0 C	F I P II	/ T / E / D. // E / Y	NIVANO E "	1 11 7	IN.	1,005	
609-319	Tray 4 Pick & Separator Roller life expectancy	Feeds - adjustable by CSE	Tray4FeedRollsExpLife	NVMConfiguration	longNatural	No	1.805	
	σλροσιατίος							
609-320	Tray 4 Feed Rolls install date	unix timedate - set when ND	Tray4FeedRollsInstDate	NVMConfiguration	longNatural	No	1.667	

609-321	Tray 4 Feed Rolls replacement counter	Replacements - incremented when user	RW	Tray4FeedRollsRepCount	NVMSystemUsageCounter	natural	No	Unknown	1.426	
609-322	Tray 1 Transport Rolls life counter	Feeds - counted by	RW	Tray1TransportRollsLifeCount	NVMHFSICounter	longNatural	No		1.426	
609-323	Tray 1 Transport Rolls life expectancy	Feeds - adjustable by	RW	Tray1TransportRollsExpLife	NVMConfiguration	longNatural	No		1.426	
609-324	Tray 1 Transport Rolls install date	unix timedate - set when user resets count	ND	Tray1TransportRollsInstDate	NVMConfiguration	longNatural	No		1.667	
609-325	Tray 1 Transport Rolls replacement counter	Replacements - incremented when user resets life counter	RW	Tray1TransportRollsRepCount	NVMSystemUsageCounter	natural	No	Unknown	1.426	
609-326	Tray 2 Transport Rolls life counter	Feeds - counted by system	RW	Tray2TransportRollsLifeCount	NVMHFSICounter	longNatural	No		1.426	
609-327	Tray 2 Transport Rolls life expectancy	Feeds - adjustable by CSE	RW	Tray2TransportRollsExpLife	NVMConfiguration	longNatural	No		1.426	
609-328	Tray 2 Transport Rolls install date	unix timedate - set when user resets count	ND	Tray2TransportRollsInstDate	NVMConfiguration	longNatural	No		1.667	
609-329	Tray 2 Transport Rolls replacement counter	Replacements - incremented when user resets life counter	RW	Tray2TransportRollsRepCount	NVMSystemUsageCounter	natural	No	Unknown	1.426	
609-330	Tray 3/4 Transport Rolls life counter	Feeds - counted by system	RW	Tray3/4TransportRollsLifeCount	NVMHFSICounter	longNatural	No		1.426	
609-331	Tray 3/4 Transport Rolls life expectancy	Feeds - adjustable by CSE	RW	Tray3/4TransportRollslimit	NVMConfiguration	longNatural	No		1.426	
609-332	Tray 3/4 Transport Rolls install date	unix timedate - set when user resets count	ND	Tray3/4TransportRollsInstDate	NVMConfiguration	longNatural	No		1.667	

609-333	Tray 3/4 Transport Rolls replacement counter	Replacements - incremented when user resets life counter	RW	Tray3/4TransportRollsRepCount	NVMSystemUsageCounter	natural	No	Unknown	1.426	
609-334	Split Drive Rolls life counter	Feeds - counted by system	RW	SplitDriveRollsLifeCount	NVMHFSICounter	longNatural	No		1.426	
609-335	Split Drive Rolls life expectancy	Feeds - adjustable by CSE	RW	SplitDriveRollsExpLife	NVMConfiguration	longNatural	No		1.426	
609-336	Split Drive Rolls install date	unix timedate - set when user resets count	ND	SplitDriveRollsInstDate	NVMConfiguration	longNatural	No		1.667	
609-337	Split Drive Rolls replacement counter	Replacements - incremented when user resets life counter	RW	SplitDriveRollsRepCount	NVMSystemUsageCounter	natural	No	Unknown	1.426	
609-338	Duplex Sensor Rolls life counter	Feeds - counted by system	RW	DuplexSensorRollsLifeCount	NVMHFSICounter	longNatural	No		1.426	
609-339	Duplex Sensor Rolls life expectancy	Feeds - adjustable by CSE	RW	DuplexSensorRollsExpLife	NVMConfiguration	longNatural	No		1.426	

609-340	Duplex Sensor Rolls install date	unix timedate - set when user resets count	DuplexSensorRollsInstDate	NVMConfiguration	longNatural	No		1.667	
609-341	Duplex Sensor Rolls replacement counter	Replacements - R\ incremented when user resets life counter	V DuplexSensorRollsRepCount	NVMSystemUsageCounter	natural	No	Unknown	1.426	
609-342	Bias Foam life counter	Feeds - counted by R\ system	V BiasFoamLifeCount	NVMHFSICounter	longNatural	No		1.426	
609-343	Bias Foam life expectancy	Feeds - adjustable by R\	V BiasFoamExpLife	NVMConfiguration	longNatural	No		1.434	
609-344	Bias Foam install date	unix timedate - set when NI user resets count	D BiasFoamInstDate	NVMConfiguration	longNatural	No		1.667	
609-345	Bias Foam replacement counter	Replacements - R\ incremented when user resets life counter	V BiasFoamRepCount	NVMSystemUsageCounter	natural	No	Unknown	1.426	
609-346	Developer Drive Gear life counter	Feeds - counted by R\ system	V DeveloperDriveGearLifeCount	NVMHFSICounter	longNatural	No		1.426	
609-347	Developer Drive Gear life expectancy		V DeveloperDriveGearExpLife	NVMConfiguration	longNatural	No		1.426	
609-348	Developer Drive Gear install date	unix timedate - set when user resets count	D DeveloperDriveGearInstDate	NVMConfiguration	longNatural	No		1.667	
609-349	Developer Drive Gear replacement counter	Replacements - R\ incremented when user resets life counter	V DeveloperDriveGearRepCount	NVMSystemUsageCounter	natural	No	Unknown	1.426	

609-350	Post Fuser Rolls life counter	Feeds - counted by RV	/ PostFuserRollsLifeCount	NVMHFSICounter	longNatural	No		1.426
		system			i singi tatara:			
609-351	Post Fuser Rolls life expectancy	Feeds - adjustable by CSE	/ PostFuserRollsExpLife	NVMConfiguration	longNatural	No		1.426
609-352	Post Fuser Rolls install date	unix timedate - set when user resets count	PostFuserRollsInstDate	NVMConfiguration	longNatural	No		1.667
609-353	Post Fuser Rolls replacement counter	Replacements - RV incremented when user	/ PostFuserRollsRepCount	NVMSystemUsageCounter	natural	No	Unknown	1.426
609-354	HVF Paddle life counter	Feeds - counted by RV system	HVFPaddleLifeCount	NVMHFSICounter	longNatural	No		1.426
609-355	HVF Paddle life expectancy	Feeds - adjustable by CSE	/ HVFPaddleExpLife	NVMConfiguration	longNatural	No		1.434
609-356	HVF Paddle install date	unix timedate - set when user resets count	HVFPaddleInstDate	NVMConfiguration	longNatural	No		1.667
609-357	HVF Paddle replacement counter	Replacements - RV incremented when user resets life counter	/ HVFPaddleRepCount	NVMSystemUsageCounter	natural	No	Unknown	1.426
609-358	Fault Counter 12-494-00: BMLELateToBMDetectSensor		BMLELateToBMDetectSensor	NVMFaultCounter	shortNatural	No	Fault Counter:12-494- 00:	1.678
609-359	Fault Counter 12-496-00: BMTELateFromBMDetectSensor	no. of faults RV	BMTELateFromBMDetectSensor	NVMFaultCounter	shortNatural	No	Fault Counter:12-496- 00:	1.678
609-364	Total since activation date	Total since activation date ND	LW Cardstock Large Sheets Used	NVMSystemUsageCounter	byteArray	No	System Usage Counter 926: Lightweight Cardstock Large Sheets Used	1.799
609-368	Total since activation date	Total since activation date ND	Cardstock Large Sheets Used	NVMSystemUsageCounter	byteArray	No	System Usage Counter 928: Cardstock Large Sheets Used	1.799
609-372	Total since activation date	Total since activation date ND	HW Cardstock Large Sheets Used	NVMSystemUsageCounter	byteArray	No	System Usage Counter 930: Heavyweight Cardstock Large	1.799
609-373	Total since activation date	Total since activation date ND	HW Cardstock LG Reload Sheets	NVMSystemUsageCounter	byteArray	No	System Usage Counter 931: Heavyweight Cardstock Reloaded	1.799
609-374	Stores local density adjustment for DC1037	Degrees (Range -3 to +3) RV	Density Adjustment	NVMSAKOSetting	shortInteger	No	32. 2535K Nolloudou	1.513
609-375	Fault Counter 12-352-00: BMSTAPLEHEAD1PRIMINGFAULT	no. of faults	BMSTAPLEHEAD1PRIMINGFAULT	NVMFaultCounter	shortNatural	No	Fault Counter:12-352- 00: BMSTAPLEHEAD1PRI	1.515
609-376	Fault Counter 12-353-00: BMSTAPLEHEAD2PRIMINGFAULT	no. of faults RV	BMSTAPLEHEAD2PRIMINGFAULT	NVMFaultCounter	shortNatural	No	Fault Counter:12-353- 00: BMSTAPLEHEAD2PRI	1.515

609-377	LEDPRINTHEADDATAINTEGRITYFAILU	no. of faults RW	LEDPRINTHEADDATAINTEGRITYF AILURE	NVMFaultCounter	shortNatural	No	00:	1.515
609-378	RE Fault Counter 10-702-00: OFFSETCENTRETRAYMOTORFAILURE	no. of faults RW	OFFSETCENTRETRAYMOTORFAI LURE	NVMFaultCounter	shortNatural	No	LEDPRINTHEADDATA Fault Counter:10-702- 00:	1.515
200 070		(6.1)		NN 445 110 1			OFFSETCENTRETRA	4.545
609-379	Fault Counter 93-364-00: TCNOTINRANGEFAULT	no. of faults RW	TCNOTINRANGEFAULT	NVMFaultCounter	shortNatural	No	Fault Counter:93-364- 00: TCNOTINRANGEFAU	1.515
609-380	Fault Counter 10-170-00: LELATETOHORIZONTALTRANSPORT	no. of faults RW	LELATETOHORIZONTALTRANSPO RT	NVMFaultCounter	shortNatural	No	Fault Counter:10-170- 00: LELATETOHORIZONT	1.515
609-381	Fault Counter 10-171-00: TELATEFROMHORIZONTALTRANSPOR T	no. of faults RW	TELATEFROMHORIZONTALTRAN SPORT	NVMFaultCounter	shortNatural	No	Fault Counter:10-171- 00: TELATEFROMHORIZ	1.515
609-382	Fault Counter 10-338-00: HORIZONTALTRANSPORTOPENINRUN	no. of faults RW	HORIZONTALTRANSPORTOPENIN RUN	NVMFaultCounter	shortNatural	No	Fault Counter:10-338- 00: HORIZONTALTRANS PORTOPENINRUN	1.515
609-383	Fault Counter 81-151-00: LELATETOREGSENSORSIMPLEX	no. of faults RW	LELATETOREGSENSORSIMPLEX	NVMFaultCounter	shortNatural	No	Fault Counter:81-151- 00: LELATETOREGSENS	1.515
609-384	Fault Counter 81-152-00:	no. of faults RW	TELATETOREGSENSORSIMPLEX	NVMFaultCounter	shortNatural	No	Fault Counter:81-152-	1.515
609-385	Fault Counter 10-153-00:	no. of faults RW	LELATETOPOSTFUSERSENSORSI	NVMFaultCounter	shortNatural	No	Fault Counter:10-153-	1.515
609-386	Fault Counter 10-154-00: TELATETOPOSTFUSERSENSORSIMPL	no. of faults RW	TELATETOPOSTFUSERSENSORSI MPLEX	NVMFaultCounter	shortNatural	No	Fault Counter:10-154- 00:	1.515
609-387	Fault Counter 83-155-00: LELATETODUPLEXSENSOR	no. of faults RW	LELATETODUPLEXSENSOR	NVMFaultCounter	shortNatural	No	Fault Counter:83-155- 00:	1.515
609-388	Fault Counter 83-156-00: TELATETODUPLEXSENSOR	no. of faults RW	TELATETODUPLEXSENSOR	NVMFaultCounter	shortNatural	No	Fault Counter:83-156- 00: TELATETODUPLEXS ENSOR	1.515
609-389	Fault Counter 81-136-00: LELATETOFEEDHCFLH	no. of faults RW	LELATETOFEEDHCFLH	NVMFaultCounter	shortNatural	No	Fault Counter:81-136- 00: LELATETOFEEDHCFL	1.515
609-390	Fault Counter 81-137-00: TELATETOFEEDHCFLH	no. of faults RW	TELATETOFEEDHCFLH	NVMFaultCounter	shortNatural	No		1.515
609-391	Fault Counter 81-159-00: LELATETOHCFEXITFROMTRAY3	no. of faults RW	LELATETOHCFEXITFROMTRAY3	NVMFaultCounter	shortNatural	No	Fault Counter:81-159- 00: LELATETOHCFEXITF	1.515
609-392	Fault Counter 81-160-00: TELATETOFEEDERRHTARSENSOR	no. of faults RW	TELATETOFEEDERRHTARSENSO R	NVMFaultCounter	shortNatural	No	Fault Counter:81-160- 00: TELATETOFEEDERR	1.515
609-393	Fault Counter 81-146-00: LELATETOFEEDHCFRH	no. of faults RW	LELATETOFEEDHCFRH	NVMFaultCounter	shortNatural	No		1.515
609-394		no. of faults RW	TELATETOFEEDHCFRH	NVMFaultCounter	shortNatural	No	Fault Counter:81-147- 00:	1.515

609-395	Fault Counter 81-106-00: LELATETOTAR1SENSORFROMTRAY1	no. of faults	LELATETOTAR1SENSORFROMTR AY1	NVMFaultCounter	shortNatural	No	Fault Counter:81-106- 00: LELATETOTAR1SENS ORFROMTRAY1	1.515
600 306	Fault Counter 81-126-00:	no. of faults RW	LELATETOTAR2SENSORFROMTR	NIV/ME authCounter	shortNatural	No	Fault Counter:81-126-	1.515
			TELATETOTAR2SENSORFROMTR AY1			No		1.515
	TELATETOTAR2SENSORFROMTRAY2		TELATETOTAR2SENSORFROMTR AY2				Fault Counter:81-127- 00: TELATETOTAR2SEN	
	FRUMISSINGORCOMMSFAILUREFAULT		FRUMISSINGORCOMMSFAILUREF AULT			No	00: FRUMISSINGORCOM	1.515
	PCMISSINGORCOMMSFAILUREFAULT		PCMISSINGORCOMMSFAILUREFA ULT				00: PCMISSINGORCOMM	1.515
609-401	Fault Counter 10-163-00: LELATETOPOSTFUSERSENSORDUPLE X	no. of faults RW	LELATETOPOSTFUSERSENSORD UPLEX	NVMFaultCounter	shortNatural		Fault Counter:10-163- 00: LELATETOPOSTFUS ERSENSORDUPLEX	1.515
609-402	Fault Counter 10-164-00: TELATETOPOSTFUSERSENSORDUPLE X	no. of faults RW	TELATETOPOSTFUSERSENSORD UPLEX	NVMFaultCounter	shortNatural	No	Fault Counter:10-164- 00: TELATETOPOSTFUS ERSENSORDUPLEX	1.515
609-403	Fault Counter 71-217-00: TRAY1BUMPUPFAILURE	no. of faults RW	TRAY1BUMPUPFAILURE	NVMFaultCounter	shortNatural	No	Fault Counter:71-217- 00: TRAY1BUMPUPFAILU RE	1.515
609-404	Fault Counter 81-161-00: LELATETOREGSENSORDUPLEX	no. of faults RW	LELATETOREGSENSORDUPLEX	NVMFaultCounter	shortNatural		Fault Counter:81-161- 00: LELATETOREGSENS	1.515
	TELATETOREGSENSORDUPLEX			NVMFaultCounter			00: TELATETOREGSENS ORDUPLEX	1.515
609-406	Fault Counter 81-167-00: LELATETOHCFTRANSPORT	no. of faults RW	LELATETOHCFTRANSPORT	NVMFaultCounter	shortNatural		Fault Counter:81-167- 00: LELATETOHCFTRAN SPORT	1.515

609-407	SPARED ( was Fault Counter 81-168-00: TELATETOHCFTRANSPORT)	no. of faults ND	SPARE 609-407	NVMFaultCounter	shortNatural	No	Fault Counter:81-168- 00: TELATETOHCFTRAN SPORT	1.515
609-408	Fault Counter 10-399-00: FUSERINCOMPATIBLEFAULT	no. of faults RW	FUSERINCOMPATIBLEFAULT	NVMFaultCounter	shortNatural	No	Fault Counter:10-399- 00: FUSERINCOMPATIBL EFAULT	1.515
609-409	Fault Counter 10-340-00: FUSERTEMPERATUREREADINGFAILU RE	no. of faults RW	FUSERTEMPERATUREREADINGF AILURE	NVMFaultCounter	shortNatural	No	Fault Counter:10-340- 00: FUSERTEMPERATUR EREADINGFAILURE	1.515
609-410	Fault Counter 81-155-00: LELATETOREGSENSORFROMTRAY5	no. of faults	LELATETOREGSENSORFROMTRA Y5	NVMFaultCounter	shortNatural	No	Fault Counter:81-155- 00: LELATETOREGSENS ORFROMTRAY5	1.515
609-411	Fault Counter 93-401-00: TONEBOTTLERMISSINGFAULT	no. of faults RW	TONEBOTTLERMISSINGFAULT	NVMFaultCounter	shortNatural	No	Fault Counter:93-401- 00: TONEBOTTLERMISSI	1.515
609-412	Fault Counter 93-399-00: TONERCARTRIDGEINCOMPATIBLEFAU LT		TONERCARTRIDGEINCOMPATIBL EFAULT	NVMFaultCounter	shortNatural	No	Fault Counter:93-399- 00: TONERCARTRIDGEI NCOMPATIBLEFAULT	1.515
609-413	Fault Counter 93-365-00: HIGHACMODERECOVERYFAULT	no. of faults	HIGHACMODERECOVERYFAULT	NVMFaultCounter	shortNatural	No	Fault Counter:93-365- 00: HIGHACMODERECO VERYFAULT	1.515
609-414	Fault Counter 81-190-00: LELATETOREGFROMTRAY1	no. of faults RW	LELATETOREGFROMTRAY1	NVMFaultCounter	shortNatural	No	Fault Counter:81-190- 00:	1.515
609-415	Fault Counter 81-191-00: LELATETOREGFROMTRAY2	no. of faults RW	LELATETOREGFROMTRAY2	NVMFaultCounter	shortNatural	No	Fault Counter:81-191-	1.515
609-416		no. of faults	LELATETOREGFROMTRAY3	NVMFaultCounter	shortNatural	No	Fault Counter:81-192- 00: LELATETOREGFROM	1.515
609-417	Fault Counter 81-193-00: LELATETOREGFROMTRAY4	no. of faults RW	LELATETOREGFROMTRAY4	NVMFaultCounter	shortNatural	No	Fault Counter:81-193-	1.515
609-418		no. of faults RW	LELATETOTAR1FROMTRAY2	NVMFaultCounter	shortNatural	No	Fault Counter:81-194-	1.515
609-419		no. of faults RW	LELATETOTAR1FROMTRAY3	NVMFaultCounter	shortNatural	No	Fault Counter:81-195- 00: LELATETOTAR1FRO	1.515

609-420	Fault Counter 81-196-00: LELATETOTAR1FROMTRAY4	no. of faults	V LELATETOTAR1FROMTRAY4	NVMFaultCounter	shortNatural	No	Fault Counter:81-196- 00: LELATETOTAR1FRO	1.515
609-421	Fault Counter 81-197-00: LELATETOTAR2FROMTRAY3	no. of faults	V LELATETOTAR2FROMTRAY3	NVMFaultCounter	shortNatural	No		1.515
609-422	Fault Counter 81-198-00: LELATETOTAR2FROMTRAY4	no. of faults	V LELATETOTAR2FROMTRAY4	NVMFaultCounter	shortNatural	No	Fault Counter:81-198- 00: LELATETOTAR2FRO	1.515
609-423	Fault Counter 81-199-00: LELATETOHCFEXITFROMTRAY4	no. of faults	V LELATETOHCFEXITFROMTRAY4	NVMFaultCounter	shortNatural	No	Fault Counter:81-199- 00: LELATETOHCFEXITF	1.515
609-424	Fault Counter 81-200-00: UNEXPECTEDSHEETATREG	no. of faults	V UNEXPECTEDSHEETATREG	NVMFaultCounter	shortNatural	No	Fault Counter:81-200- 00: UNEXPECTEDSHEET ATREG	1.515
609-425	Fault Counter 10-201-00: UNEXPECTEDSHEETATPOSTFUSER	no. of faults	V UNEXPECTEDSHEETATPOSTFUS ER	NVMFaultCounter	shortNatural	No	Fault Counter:10-201-	1.678
							UNEXPECTEDSHEET ATPOSTFUSER	
609-426	Fault Counter 83-157-00: UNEXPECTEDSHEETATDUPLEX	no. of faults	V UNEXPECTEDSHEETATDUPLEX	NVMFaultCounter	shortNatural	No	Fault Counter:83-157- 00: UNEXPECTEDSHEET	1.515
609-427	Fault Counter 10-172-00: UNEXPECTEDSHEETATFINXPORT	no. of faults	UNEXPECTEDSHEETATFINXPOR T	NVMFaultCounter	shortNatural	No	Fault Counter:10-172- 00: UNEXPECTEDSHEET ATFINXPORT	1.515
609-428	Fault Counter 75-100-00: TRAY5(MSI)HOISTFAILURE	no. of faults	V TRAY5(MSI)HOISTFAILURE	NVMFaultCounter	shortNatural	No	Fault Counter:75-100- 00: TRAY5(MSI)HOISTFAI LURE	1.515
609-429	Fault Counter 03-800-00: FINISHERCOMMSRESETAFTERACRAS H	no. of faults	V FINISHERCOMMSRESETAFTERAC RASH	NVMFaultCounter	shortNatural	No	Fault Counter:03-800- 00: FINISHERCOMMSRE SETAFTERACRASH	1.678
609-430	Fault Counter 12-984-00: BOOKLETLOWSTAPLEFRONTFAULTC OUNT	no. of faults	N BOOKLETLOWSTAPLEFRONTFAU	l NVMFaultCounter	shortNatural	No	Fault Counter:12-984- 00: BOOKLETLOWSTAPL EFRONTFAULTCOUN	1.813
609-431	Fault Counter 12-989-00: BOOKLETLOWSTAPLEREARFAULTCO UNT	no. of faults	BOOKLETLOWSTAPLEREARFAUL	NVMFaultCounter	shortNatural	No	Fault Counter:12-989- 00: BOOKLETLOWSTAPL EREARFAULTCOUNT	1.813

609-432	Fault Counter 12-130-00:	no. of faults	RW	FOLDERPATHSNR1ONJAMFAULTO	NVMFaultCounter	shortNatural	No	Fault Counter:12-130-	1.813	
	FOLDERPATHSNR1ONJAMFAULTCOUN							00: FOLDERPATHSNR10		
	ľ							NJAMFAULTCOUNT		
609-433	Fault Counter 12-131-00:	no. of faults	RW	COMPILEEXITSNRONJAMBUFFAUI	NVMFaultCounter	shortNatural	No	Fault Counter:12-131-	1.813	
	COMPILEEXITSNRONJAMBUFFERFAUL   TCOUNT							00: COMPILEEXITSNRON		
	TCOONT							JAMBUFFERFAULTC		
								OUNT		
609-434	Fault Counter 12-135-00:	no. of faults	RW	COMPILEEXITSNRONJAMSTRBUFI	NVMFaultCounter	shortNatural	No	Fault Counter:12-135-	1.813	
000 405	COMPILEEXITSNRONJAMSTRBUFFAUL		D)A/	FOLDEDEVITONDON IAMEOLDEAU	AD /AAF - HO to	a la contra de la contra del la contra del la contra del la contra de la contra del la contra de la contra de la contra del	N.	00:	4.040	
609-435	Fault Counter 12-136-00: FOLDEREXITSNRONJAMFOLDFAULTC	no. of faults	KVV	FOLDEREXITSNRONJAMFOLDFAU	NVMFauitCounter	shortNatural	No	Fault Counter:12-136- 00:	1.813	
	OUNT							FOLDEREXITSNRON		
								JAMFOLDFAULTCOU		
								INI		
609-436	Fault Counter 12-222-00:	no. of faults	RW	UPENDGUIDEHOMESNROFFFAILF	NVMFaultCounter	shortNatural	No	Fault Counter:12-222-	1.813	
	UPENDGUIDEHOMESNROFFFAILFAUL TCOUNT							00: UPENDGUIDEHOMES		
	ICOUNT							NROFFFAILFAULTCO		
609-437	Fault Counter 12-274-00:	no. of faults	RW	LOWENDGUIDEHOMESNROFFFAIL	NVMFaultCounter	shortNatural	No	Fault Counter:12-274-	1.813	
	LOWENDGUIDEHOMESNROFFFAILFAU LTCOUNT							00: LOWENDGUIDEHOM		
	LICOUNT							ESNROFFFAILFAULT		
609-438	Fault Counter 12-279-00:	no. of faults	RW	UPENDGUIDEHOMESNRONFAILFL	NVMFaultCounter	shortNatural	No	Fault Counter:12-279-	1.813	
	UPENDGUIDEHOMESNRONFAILFAULT COUNT							00: UPENDGUIDEHOMES		
609-439	Fault Counter 12-288-00:	no. of faults	RW	LOWENDGUIDEHOMESNRONFAILI	NVMFaultCounter	shortNatural	No	Fault Counter:12-288-		+ +
	LOWENDGUIDEHOMESNRONFAILFAUL							00:		
	TCOUNT							LOWENDGUIDEHOM ESNRONFAILFAULTC		
609-440	Fault Counter 12-289-00:	no. of faults	RW	FOLDERFANBROKENFAILFAULTCO	NVMFaultCounter	shortNatural	No		1.813	
000 444	FOLDERFANBROKENFAILFAULTCOUN	C.C. 11	D) 4 /	INTERLOCIONA (DIOCONNECTEALI)	AD MATERIAL III			00:	4.040	
609-441	Fault Counter 12-290-00: INTERLOCK24VDISCONNECTFAULTCO	no. of faults	KW	INTERLOCK24VDISCONNECTFAUL	INVIMEAUItCounter	shortNatural	No	Fault Counter:12-290- 00:	1.813	
	UNT							INTERLOCK24VDISC		
600 440	Foult Counter 12 202 00:	no of fourts	D\A/		NIV/MCoult@overtor	ab arthlat!		ONNECTFAULTCOUN	1 040	
009-442	Fault Counter 12-292-00: BOOKLETTAMPERHOMESNRONFAILFA	no. of faults	KVV	BOOKLETTAMPERHOMESNRONFA	INVIVIFAUIT COUNTER	shortNatural	No	Fault Counter:12-292- 00:	1.813	
	ULTCOUNT							BOOKLETTAMPERHO		
600 440	Foult Country 10 007 00	n a af facult-	D\4.	DOOM ETTANADUONACONDOCCEA	NI\/NAC	a la a méh l = 4 · · · · · · l		MESNRONFAILFAULT	4.040	
609-443	Fault Counter 12-297-00: BOOKLETTAMPERHOMESNROFFFAILF	no. of faults	KW	BOOKLETTAMPHOMESNROFFFAIL	INVIVIFAUITCOUNTER	shortNatural	No	Fault Counter:12-297- 00:	1.813	
	AULTCOUNT							BOOKLETTAMPERHO		
								MESNROFFFAILFAUL		

609-444	Fault Counter 12-298-00: FOLDERSUBCPUCOMMFAILFAULTCOU	no. of faults	W FOLDERSUBCPUCOMMFAILFAUL	TNVMFaultCounter	shortNatural	No	Fault Counter:12-298- 00:	1.813
609-445	Fault Counter 12-299-00: COMPILENOPAPERSNRONFAILFAULTC	no. of faults	W COMPILENOPAPERSNRONFAILFA	NVMFaultCounter	shortNatural	No	Fault Counter:12-299- 00:	1.813
609-446	Fault Counter 12-319-00: BOOKLETSUBCPUDOWNLOADMODEF AILFAULTCOUNT	no. of faults F	W BOOKLETCPUDOWNLOADMODEF	NVMFaultCounter	shortNatural	No	Fault Counter:12-319- 00: BOOKLETSUBCPUDO WNLOADMODEFAILF AULTCOUNT	1.813
609-447	Fault Counter 12-326-00: FOLDERSUBCPUDOWNLOADMODEFAL	no. of faults	W FOLDERCPUDOWNLOADMODEFA	NVMFaultCounter	shortNatural	No	Fault Counter:12-326- 00:	1.813
609-448	Fault Counter 12-912-00: FINISHERSTATICJAMFAULTCOUNT		W FINISHERSTATICJAMFAULTCOUN		shortNatural	No	Fault Counter:12-912- 00:	1.813
	Fault Counter 13-300-00: FOLDERFRONTDOOROPENFAULTCOU		W FOLDERFRONTDOOROPENFAULT			No	Fault Counter:13-300- 00:	1.813
609-450			O Punch errors	NVMSystemUsageCounter	, and the second	No	System Usage Counter:933:	1.813
609-455	occurs when left side door is open.		W LSDOpenTimeBeforeBeep	NVMConfiguration		No		1.529
609-456	·	enable border (default)	W IMAGEBORDERENABLE	NVMSAKOSetting	boolean	No		1.535
609-457	Ŭ		W PcCoolingEventFC	NVMFaultCounter		No	Fault Counter:91-377- 00: PcCoolingEvent	1.697
609-459	Lead Edge Registration	F	W LE Registration	NVMMachVarRegistration	integer	No		1.543
609-469	Provides capability for manufacturing to adjust color registration and also allows a CSE to set it via DC131.	F	W ManRegiConLeftYellow	NVMMachVarRegistration	shortInteger	No		1.565
609-470	Provides capability for manufacturing to adjust color registration and also allows a CSE to set it via DC131.	F	W ManRegiConLeftMagenta	NVMMachVarRegistration	shortInteger	No		1.565
	Provides capability for manufacturing to adjust color registration and also allows a CSE to set it via DC131.		W ManRegiConLeftCyan	NVMMachVarRegistration	shortInteger	No		1.565
609-472	Provides capability for manufacturing to adjust color registration and also allows a CSE to set it via DC131.	F	W ManRegiConRightYellow	NVMMachVarRegistration	shortInteger	No		1.565
609-473	Provides capability for manufacturing to adjust color registration and also allows a CSE to set it via DC131.	F	W ManRegiConRightMagenta	NVMMachVarRegistration	shortInteger	No		1.565
609-474	Provides capability for manufacturing to adjust color registration and also allows a CSE to set it via DC131.	F	W ManRegiConRightCyan	NVMMachVarRegistration	shortInteger	No		1.565
609-475	Provides capability for manufacturing to adjust color registration and also allows a CSE to set it via DC131.	F	W ManRegiConProcessLeftYellow	NVMMachVarRegistration	shortInteger	No		1.565
609-476	Provides capability for manufacturing to adjust color registration and also allows a CSE to set it via DC131.	F	W ManRegiConProcessLeftMagenta	NVMMachVarRegistration	shortInteger	No		1.565
609-477	Provides capability for manufacturing to adjust color registration and also allows a CSE to set it via DC131.	F	W ManRegiConProcessLeftCyan	NVMMachVarRegistration	shortInteger	No		1.565
609-478	Provides capability for manufacturing to adjust color registration and also allows a CSE to set it via DC131.	F	W ManRegiConProcessRightYellow	NVMMachVarRegistration	shortInteger	No		1.565

	T=				T	T	T	I	1
609-479	Provides capability for manufacturing to adjust color registration and also allows a CSE to set it via DC131.		RW		NVMMachVarRegistration	shortInteger	No		1.565
			l l	ManRegiConProcessRightMagenta					
609-480	Provides capability for manufacturing to adjust color registration and also allows a CSE to set it via DC131.		RW	ManRegiConProcessRightCyan	NVMMachVarRegistration	shortInteger	No		1.565
000 404	Fault Counter 81-132-00:			LELATETOHCFEXITSENSORFRO	NIV (NAIT - vilto - viint - vi	- l4N   -4l	NI-	FIt Ot04 400	4.570
609-481	LELATETOHCFEXITSENSORFROMTRA Y3	no. of faults		MTRAY3	NVMFaultCounter	shortNatural	No	Fault Counter:81-132- 00: LELATETOHCFEXITS ENSORFROMTRAY3	1.573
609-482	Fault Counter 81-133-00: LELATETOHCFEXITSENSORFROMTRA Y4	no. of faults		LELATETOHCFEXITSENSORFRO MTRAY4	NVMFaultCounter	shortNatural	No	Fault Counter:81-133- 00: LELATETOHCFEXITS ENSORFROMTRAY4	1.573
609-483	Fault Counter 93-974-00: GENUINETONERNULLSTRINGCOUNTE RK		RO I	NullStringCounterK	NVMFaultCounter	shortNatural	No	Fault Counter:93-974- 00: GENUINETONERNUL LSTRINGCOUNTERK	1.584
609-484	Fault Counter 93-975-00: GENUINETONERNULLSTRINGCOUNTE RC		RO	NullStringCounterC	NVMFaultCounter	shortNatural	No	Fault Counter:93-975- 00: GENUINETONERNUL LSTRINGCOUNTERC	1.810
609-485	Fault Counter 93-976-00: GENUINETONERNULLSTRINGCOUNTE RM		RO	NullStringCounterM	NVMFaultCounter	shortNatural	No	Fault Counter:93-976- 00: GENUINETONERNUL	1.810
609-486	Fault Counter 93-974-00: GENUINETONERNULLSTRINGCOUNTE		RO	NullStringCounterY	NVMFaultCounter	shortNatural	No	Fault Counter:93-974- 00:	1.810
609-487	Fault Counter 93-974-00: GENUINETONERNONXEROXSTRINGC		RO	NonGenuineStringCounterK	NVMFaultCounter	shortNatural	No	Fault Counter:93-974- 00:	1.584
609-488	Fault Counter 93-974-00: GENUINETONERNONXEROXSTRINGC		RO	NonGenuineStringCounterC	NVMFaultCounter	shortNatural	No	Fault Counter:93-974- 00:	1.810
609-489	Fault Counter 93-974-00: GENUINETONERNONXEROXSTRINGC OUNTERM		RO	NonGenuineStringCounterM	NVMFaultCounter	shortNatural	No	Fault Counter:93-974- 00: GENUINETONERNON	1.810
609-490	Fault Counter 93-974-00: GENUINETONERNONXEROXSTRINGC OUNTERY		RO	NonGenuineStringCounterY	NVMFaultCounter	shortNatural	No	Fault Counter:93-974- 00: GENUINETONERNON	1.810
609-491	IOTCommunicationsTimeout If the IOT fails to respond within the period defined by this NVM then communication	Timer in milliseconds	RW	IOTCommunicationsTimeout	NVMcrashRecoveryType	natural	No		1.589
609-492	Fault Counter 81-180-00: LELATETOTAR1FROMTRAY6	no. of faults	RW	LELateToTAR1FromTray6	NVMFaultCounter	shortNatural	No	Fault Counter:81-180- 00: LELATETOTAR1FRO	1.616
609-493	Fault Counter 81-182-00: LELATETOREGFROMTRAY6	no. of faults	RW	LELateToRegFromTray6	NVMFaultCounter	shortNatural	No	Fault Counter:81-182- 00: LELATETOREGFROM	1.616
609-494	Fault Counter 81-184-00: LELATETOFEEDTRAY6	no. of faults	RW	LELateToFEEDTray6	NVMFaultCounter	shortNatural	No	Fault Counter:81-184- 00: LELATETOFEEDTRA	1.616
609-496		Enable JobOffset policy 0=Off 1=On	RW	MSJobOffsetEnabledPolicy	NVMSAKOSetting	boolean	No		1.754

609-497	Tray 1 detected width Min	Range and default size in RW	Tray 1 detected width Min	NVMSAKOSetting	natural	No	1.669
		mm					
609-498	Tray 1 detected width Max	Range and default size in RW mm	Tray 1 detected width Max	NVMSAKOSetting	natural	No	1.669
609-499	Tray 1 detected Length Min	Range and default size in RW	Tray 1 detected Length Min	NVMSAKOSetting	natural	No	1.669
609-500	<u> </u>	Range and default size in RW mm		NVMSAKOSetting	natural	No	1.669
609-501	Tray 2 detected width Min	Range and default size in mm	Tray 2 detected width Min	NVMSAKOSetting	natural	No	1.669
609-502	Tray 2 detected width Max	Range and default size in RW	Tray 2 detected width Max	NVMSAKOSetting	natural	No	1.669
609-503	Tray 2 detected Length Min	Range and default size in RW mm	Tray 2 detected Length Min	NVMSAKOSetting	natural	No	1.669
609-504	Tray 2 detected Length Max	Range and default size in RW mm	Tray 2 detected Length Max	NVMSAKOSetting	natural	No	1.669
609-505	Tray 3 detected width Min	Range and default size in RW mm	Tray 3 detected width Min	NVMSAKOSetting	natural	No	1.669
609-506	Tray 3 detected width Max	Range and default size in RW mm	Tray 3 detected width Max	NVMSAKOSetting	natural	No	1.669
609-507	Tray 3 detected Length Min	Range and default size in RW mm	Tray 3 detected Length Min	NVMSAKOSetting	natural	No	1.669
609-508	Tray 3 detected Length Max	Range and default size in RW mm	Tray 3 detected Length Max	NVMSAKOSetting	natural	No	1.669
609-509	Tray 4 detected width Min	Range and default size in mm	Tray 4 detected width Min	NVMSAKOSetting	natural	No	1.669

609-510		Range and default size in mm	Tray 4 detected width Max	NVMSAKOSetting	natural	No	1.669	
609-511		Range and default size in mm	Tray 4 detected Length Min	NVMSAKOSetting	natural	No	1.669	
609-512		Range and default size in RW mm	Tray 4 detected Length Max	NVMSAKOSetting	natural	No	1.669	
609-513		Range and default size in RW mm	Tray 5 detected Length Min	NVMSAKOSetting	natural	No	1.669	
609-514	Tray 5 detected Length Max	Range and default size in RW	Tray 5 detected Length Max	NVMSAKOSetting	natural	No	1.669	
		mm	, 5 doi:doi:do Longui Max	g				

609-515	<u> </u>	Range and default size in RW mm	Tray 7 Last detected width	NVMSAKOSetting	natural	No		1.669	
609-516		Range and default size in RW mm	Tray 7 Last detected Length	NVMSAKOSetting	natural	No		1.669	
609-518	Fault Counter 03-450:IOT crash unexpectedly	no of faults RW	Fault Counter 03-450	NVMFaultCounter	shortNatural	No	Fault Counter:03-450- 00: IOTCRASHCOUNT	1.658	
609-519	Fault Counter 74-900: Tray4SheetOverFeedFault	no of faults RW	Fault Counter 74-900	NVMFaultCounter	shortNatural	No	Fault Counter:74-900- 00: TRAY4SHEETOVERF EEDSNRCOUNT	1.664	

609-520	Fault Counter 76-900:	no.of faults	D\\/	Fault Counter 76-900	NVMFaultCounter	shortNatural	No	Fault Counter:76-900-	1.664	Г	
009-320		110.01 faults	IZVV	Fault Counter 70-900	INVIVIFAUILCOUTTE	SHOLLIVALUIAI	INO	Inc.	1.004		
	Tray6SheetOverFeedFault							TDAYCOUEETOVEDE			
								TRAY6SHEETOVERF			
								EEDSNRCOUNT			
1										1	
1										1	
										1	
1										1	
609-521	Transport Drive Belt replacement counter	Replacements -	D\//	TransportDriveBeltRepCount	NVMSystemUsageCounter	natural	No	Unknown	1.677	+	
009-321	Transport Drive Beit replacement counter	I -	IZVV	TransportDriveDeltNepCount	IN VIVIS y Steril O Sage Counter	naturai	INO	Olikilowii	1.077		
600 500	Transport Dall replacement secontar	incremented when user	DW	Transport Dall Dan Carret	NIV/MCv reterred les ers Coverter	n otunol	Na	l lales acces	4 677	<del></del>	
	Transport Roll replacement counter	Replacements -		TransportRollRepCount	NVMSystemUsageCounter	natural	No	Unknown	1.677	<del>                                     </del>	
609-523	Drive Pulley replacement counter	Replacements -	RW	DrivePulleyRepCount	NVMSystemUsageCounter	natural	No	Unknown	1.677		
		incremented when user									
609-524	Pressure Blade replacement counter	Replacements -		PressureBladeRepCount	NVMSystemUsageCounter	natural	No	Unknown	1.677		
609-525	Transport Drive Belt Life Counter	Feeds - counted by	RW	TransportDriveBeltLifeCount	NVMHFSICounter	longNatural	No	Unknown	1.677	1	
		system	L		<u> </u>				<u>L</u>	<u> </u>	
609-526	Transport Drive Belt Life Expectancy	Modifiable via DC131	RW	TransportDriveBeltExpLife	NVMConfiguration	longNatural	No	Unknown	1.677		
				·							
609-527	Transport Drive Belt Install Date	Transport Belt install date	ND	TransportDriveBeltInstallDate	NVMConfiguration	longNatural	No	Unknown	1.677	<del>                                     </del>	
609-528	Transport Roll Life Counter			TransportRollLifeCount	NVMHFSICounter	longNatural	No	Unknown	1.677	<del>                                     </del>	
000 020	Transport Non Elle Counter	system	1	Transport to inches Count	TVVIVII O COUNCE	longradura	140		1.077		
		System									
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609-529	Transport Roll Life Expectancy	Modifiable via DC131		TransportRollExpLife	NVMConfiguration	longNatural	No	Unknown	1.677		
609-530	Transport Roll Install Date	Transport Belt install date	ND	TransportRollInstallDate	NVMConfiguration	longNatural	No	Unknown	1.677		
	Drive Pulley Life Counter	Feeds - counted by		DrivePulleyLifeCount	NVMHFSICounter	longNatural	No	Unknown	1.677		
	Drive Pulley Life Expectancy	Modifiable via DC131		DrivePulleyExpLife	NVMConfiguration	longNatural	No	Unknown	1.677		
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	Drive Pulley Install Date	Transport Belt install date NI		NVMConfiguration		No	Unknown	1.677
609-534		,	V PressureBladeLifeCount	NVMHFSICounter	longNatural	No	Unknown	1.677
	. ,		V PressureBladeExpLife	NVMConfiguration		No	Unknown	1.677
609-536	Pressure Blade Install Date	Transport Belt install date NI	PressureBladeInstallDate	NVMConfiguration		No	Unknown	1.677
609-537	Fault Counter 72-217-00: TRAY2BUMPUPFAILURE	no. of faults	V TRAY2BUMPUPFAILURE	NVMFaultCounter	shortNatural	No	Fault Counter:72-217- 00: T2BUMPUPFAILUREC OUNT	1.678
609-538	Fault Counter 73-217-00: TRAY3BUMPUPFAILURE	no. of faults	V TRAY3BUMPUPFAILURE	NVMFaultCounter	shortNatural	No	Fault Counter:73-217- 00: T3BUMPUPFAILUREC OUNT	1.678
609-539	Fault Counter 74-217-00: TRAY4BUMPUPFAILURE	no. of faults	V TRAY4BUMPUPFAILURE	NVMFaultCounter	shortNatural	No	Fault Counter:74-217- 00: T4BUMPUPFAILUREC OUNT	1.678
609-540	Fault Counter 10-316: Fuser T1 or T2	no. of faults	V FUSERT1ORT2EXCEED250DEGC	NVMFaultCounter	shortNatural	No	Fault Counter:10-316-	1.810
			V FUSERT1ORT2BEYONDCYCLOUT			No	Fault Counter:10-317-	1.679
	sensor reached or exceeded soft cycle out		THRSHHLD				00:	
609-542	Fault Counter 10-318: Fuser T1 or T2 have not dropped to run temperature after	no. of faults	V FUSERT1ORT2NOTATRUNTMPAF TRCOOLNG	NVMFaultCounter	shortNatural	No	Fault Counter:10-318- 00:	1.679
609-543	Fault Counter 91-379: PC cooling event timeout	no. of faults	V PcCoolingTimeoutFC	NVMFaultCounter	shortNatural	No	Fault Counter:91-379- 00: PcCoolingTimeout	1.697
609-545	Enable OCT offset policy	Enable OCT Offset policy RN0=Off	V OCT offset enablement	NVMSAKOSetting	boolean	No		1.761
609-546	Plain paper type setting		V Plain paper type setting	NVMConfiguration	shortNatural	No		1.741
610-005	Auto Contrast level for platen	R	V Copy Auto Contrast Level Platen	NVMSAKOSetting	shortNatural	No		1.807
610-006	Auto Contrast level for DADH	RI	V Copy Auto Contrast Level DADH	NVMSAKOSetting	shortNatural	No		1.807
610-007	Auto Color detection window fast scan start, defined in tenth of percentage point of document fast scan dimension. Values from 0 to 1000 (e.g. 1% is 10, 10% is 100,	NI	Copy Auto Color Detect FS Start	NVMSAKOSetting	natural	No		1.622
610-007	Auto Color detection window fast scan start, defined in tenth of percentage point of document fast scan dimension. Values	NI	Copy Auto Color Detect FS Start	NVMSAKOSetting	natural	No		1.737
610-008	Auto Color detection window slow scan start, defined in tenth of percentage point of document slow scan dimension. Values from 0 to 1000 (e.g. 1% is 10, 10% is 100,	NI	Copy Auto Color Detect SS Start	NVMSAKOSetting	natural	No		1.622

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	610-008		ND	Copy Auto Color Detect SS Start	NVMSAKOSetting	natural	No		1.737	
Internal is 1000 (e.g. 15% is 10.0)   No. 15% is 10.0   No. 1500   No. 15% is 10.0   No. 15% is 10.0										
STOCK   Auto Control Detection Level for platen at plan   NO   Copy Auto Color Level Pixer Plat   NVMSAKOSetting   shorthstural   NO   1.737										
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Strict   Auto Control Exercisor DADH at post largest DADH   NVASSAKOSetting   ahorfivatural No   1,737		l'								
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810-022 Auto Contrast level for DADH RW Scan Auto Contrast Level DADH NVMSAKOSetting shortNatural No 1,807  810-030 Defines the type of paper used (4004, 400, Xpression, recyclable, etc).  810-035 Auto Contrast Level For patien RW Fax Auto Contrast Level Patien NVMSAKOSetting shortNatural No 1,019  810-035 Auto Contrast Level For DADH RW Fax Auto Contrast Level Patien NVMSAKOSetting shortNatural No 1,019  810-036 Auto Contrast Level For DADH RW Fax Auto Contrast Level DADH NVMSAKOSetting shortNatural No 1,019  810-037 PhotoText Segmentation Threshold will control the Galillos segmentation. Threshold the Galillos segmentation. Threshold the Galillos segmentation. Threshold will control the Galillos segmentation. Threshold will control the Galillos segmentation. Threshold will control th	610-015	Defines the type of paper used	מא	Copy white Reference	NVMSAKOSetting	snortivaturai	INO		1.622	
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Stan While Reference	010-021	Auto Contrast level for plateri	KVV	Scan Auto Contrast Level Platen	INVINSAROSetting	Shortivaturai	INO		1.607	
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4200, Xpressions, recyclable, etc)										
4200, Xpressions, recyclable, etc)	610-030	Defines the type of paper used (4024	ND	Scan White Reference	NV/MSAKOSetting	shortNatural	No		1 622	
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Fax Auto Contrast level for DADH		14200, Apressions, recyclable, etc)								
Fax Auto Contrast level for DADH	610-035	Auto Contrast level for platen	RW	Fax Auto Contrast Level Platen	NVMSAKOSetting	shortNatural	No		1 019	
Bit	010 000	Thate Contract level for plater	1	Tax rate contrast Level Flaten	TV West a Cooking	Shortivatarar			1.010	
Bit	610-036	Auto Contrast level for DADH	RW	Fax Auto Contrast Level DADH	NVMSAKOSetting	shortNatural	No		1 019	
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610-047 Defines the binary vs. contone image path/printing	610-038		ND	Fax White Reference	NVMSAKOSetting	shortNatural	No		1.622	
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path/printing    Destandard   1=eco   RW   Toner Saver Mode   NVMConfiguration   ShortNatural   No   1.477										
path/printing    Destandard   1=eco   RW   Toner Saver Mode   NVMConfiguration   ShortNatural   No   1.477	610-047	Defines the binary vs. contone image	1 to 16 RW	Print ImagePath Type (bit depth)	NVMConfiguration	shortNatural	No		1.019	
610-052 Toner Saver Mode  0=standard		•								
Teco										
Teco	610-052	Toner Saver Mode	0=standard RW	Toner Saver Mode	NVMConfiguration	shortNatural	No		1.477	
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Timeout		DCCopy Timeout								
								Timeout		

612-005	Fault Counter 22-330-06: Queue To S2Distr Timeout	F	RW Queue	To S2Distr Timeout	NVMFaultCounter	shortNatural	No	Fault Counter:22-330- 06: Queue To S2Distr	1.000		
616-001	_	Market Region settings: F 0=US (North America) 1=XCL(Canada)	RO Market	Region	NVMcontrolledAccess	shortNatural	No	Timeout	1.324	Yes	
616-002	Enable Power Saver feature - Most Programs		RW powers	saver enabled	NVMSAKOSetting	boolean	No		1.631		
616-003	Northwood Family - Defines Machine PPM Speed (Product Configuration) 255 (PC0) = No Run. Speed set according	255 = No Run 119 = 30 ppm	RO Produc	t Configuration	NVMcontrolledAccess	shortNatural	No		1.266		
616-003	Luminance Family - Defines Product Configuration		RO Produc	t Configuration	NVMcontrolledAccess	shortNatural	No		1.390	Yes	
616-003	Burgundy Family - Defines Machine PPM Speed (Product Configuration) See also ID250	152 = 47 ppm standard 153 = 47 ppm with Fax	RO Produc	t Configuration	NVMcontrolledAccess	shortNatural	No		1.507		
616-003	Configuration	Machine Speed (Nominal Fppm NOT ACTUAL): 145 = 40ppm (PCB40)	RO Produc	t Configuration	NVMcontrolledAccess	shortNatural	No		1.476	Yes	
616-003	Speed (Product Configuration) See also ID250	.,	RO Produc	t Configuration	NVMcontrolledAccess	shortNatural	No		1.507		
616-003	Configuration	Machine Speed (Nominal ppm NOT ACTUAL): 163 = 45ppm (PCSN45)	RO Produc	t Configuration	NVMcontrolledAccess	shortNatural	No		1.732	Yes	
616-003	Configuration	Machine Speed (Nominal ppm NOT ACTUAL): 174 = 45ppm (PCSN245)	RO Produc	t Configuration	NVMcontrolledAccess	shortNatural	No		1.732	Yes	
616-004	Configuration (type of System)	0 = Unknown (Not set) 1 = ST (Networked) 8 = Network Suppressed	RW System	n Configuration	NVMConfiguration	shortNatural	No		1.099		
616-004	Defines System Configuration (type of system)		RW System	n Configuration	NVMConfiguration	shortNatural	No		1.028		
616-010	system has been idle to enabled transition	The idle time in minutes before the machine will enter Low power	RW powers	aver idletime	NVMSAKOSetting	shortNatural	No		1.790		Yes, as Integer Value
616-010	Defines time in "normal" mode where system has been idle to enabled transition		RW powers	aver idletime	NVMSAKOSetting	shortNatural	No		1.790		Yes, as Integer Value
616-010	Defines time in "normal" mode where system has been idle to enabled transition	The idle time in minutes before the machine will enter Low power	RW powers	aver idletime	NVMSAKOSetting	shortNatural	No		1.790		Yes, as Integer Value
616-010	Defines time in "normal" mode where system has been idle to enabled transition		RW powers	aver idletime	NVMSAKOSetting	shortNatural	No		1.790		Yes, as Integer Value
616-010	Defines time in "normal" mode where system has been idle to enabled transition		RW powers	aver idletime	NVMSAKOSetting	shortNatural	No		1.790		Yes, as Integer Value

T	T=	I I		T	1	1			
616-011	Defines time in "mode 1" before		power saver in mode 1 time	NVMSAKOSetting	shortNatural	No		1.321	
	transitioning to "mode 3" for appropriate	the machine will remain in							
	configurations.	Low power before entering							
616-011	Defines time in "mode 1" before	The idle time in minutes RW	power saver in mode 1 time	NVMSAKOSetting	shortNatural	No		1.531	
	transitioning to "mode 3" for appropriate	the machine will remain in							
616-014	· 11 1	0 = Manufacturing RW	system install phase	NVMConfiguration	shortNatural	No		1.820	Yes
010011		2 = Pre Install (Default)	System metall phase	Trymosimgaration	onor a ratara			1.020	
	II.	4 = Complete							
616 015	SMFCustomerServiceNumber	ND		NIV/MCAKOCatting	by to Arroy	No		1.000	
616-015	Swir Customer Service Number	IND		NVMSAKOSetting	byteArray	No		1.000	
040.050		0 11 1 (0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	D 1 111 05	N 44 4 11 14			D : D (!) 100	4 455	
616-052		0 = Unknown (Not set) RW	Product Identifier	NVMcontrolledAccess	natural	No	Device Profile:403:	1.155	Yes
	name)						Model		
		Lexington Family 89 to							
616-052	Product Identifier (e.g. Marketing product	1000 = Unknown (Not set) RW	Product Identifier	NVMcontrolledAccess	natural	No	Device Profile:403:	1.357	Yes
	name)	(Luminance values)					Model		
	,	191 = 35							
616-052	Product Identifier (e.g. Marketing product	1000 = Unknown (Not set) RO	Product Identifier	NVMcontrolledAccess	natural	No	Device Profile:403:	1.582	Yes
010 002	` ` ` ` ` ` .	(Brilliance values)	Troddot Idontinoi	Transartioned to the state of t	liatarai		Model	1.002	
		204 = 40 (note that this					Model		
616 050		1000 = Unknown (Not set) RO	Draduat Identifier	NVMcontrolledAccess	natural	No	Device Profile:403:	1.598	Yes
010-052	\ 0	` ,	Product identilier	INVIVICONTIONEDACCESS	naturai	INO		1.598	res
		(Snowdon values)					Model		
		227 = 45							
616-052	Product Identifier (e.g. Marketing product	1000 = Unknown (Not set) RO	Product Identifier	NVMcontrolledAccess	natural	No	Device Profile:403:	1.734	Yes
	name)	(Skylight values)					Model		
		221=25							
616-052	Product Identifier (e.g. Marketing product	1000 = Unknown (Not set) RO	Product Identifier	NVMcontrolledAccess	natural	No	Device Profile:403:	1.598	Yes
		(Snowdon2 values)					Model		
		238 = 45					mege.		
616-052		1000 = Unknown (Not set) RO	Product Identifier	NVMcontrolledAccess	natural	No	Device Profile:403:	1.734	
010-032		(Kiska values)	Froduct identifier	INVIVICOI III Olled Access	liaturai	INO		1.734	
	name)	(Kiska values)					Model		
040 400		D	)	N / 40 A ( CO C ) ( C		N 1		4 704	
616-166	Intelligent Ready Yesterday's Activity IR1b	, , , , , , , , , , , , , , , , , , , ,	Yesterday's Activity IR1b array	NVMSAKOSetting	byteArray	No		1.781	
		hourly activity bins (hr0>							
616-167	Intelligent Ready Yesterday's Activity IR2b	· · · · · ·	Yesterday's Activity IR2b array	NVMSAKOSetting	byteArray	No		1.781	
616-168	Intelligent Ready Today's Activity IR1b	Byte array containing 24 ND	Today's Activity IR1b array	NVMSAKOSetting	byteArray	No		1.781	
	array	hourly activity bins (hr0>							
		hr23)							
616-169	Intelligent Ready Today's Activity IR2b	Byte array containing 24 ND	Today's Activity IR2b array	NVMSAKOSetting	byteArray	No		1.781	
		hourly activity bins (hr0>							
	·······	hr23)							
616-170	Intelligent Ready IR3 week array		IR3 week array	NVMSAKOSetting	byteArray	No		1.781	
010 170		hourly activity bins (hr0>	Into wook array	Try wer a cooking	byto, aray			1.701	
		hr167, 00=first bin Sunday							
		00hrs AM)							
040 474	Let all a cot December 200 To 1	Hard Lad DA also 20	ID I D T	NIV (NACALCOC) - 45	L. L (N. )	N.I.		4.704	<del>                                     </del>
616-171	Intelligent Ready Low Power Timeout	Used by IR1 algorithm ND	IR Low Power Timeout	NVMSAKOSetting	shortNatural	No		1.781	
1									
616-172	Intelligent Ready Sleep Timeout	Used by IR2 algorithm ND	IR Sleep Timeout	NVMSAKOSetting	shortNatural	No		1.781	
1					1				
1									
	1		1	1	II.	<u> </u>			<u> </u>

616-173	daily usage flags	values indicating weekday use of IR3 data or initial pre-populated data		IR pre-populated usage flags	NVMSAKOSetting		No		1.781	
616-200	Fault Counter 22-330: number of times page pack pin has been locked out	no. of faults	RW	NumTimesPagePackPinlockedFC	NVMFaultCounter	shortNatural	No	Fault Counter:22-330- 00: number of times page pack pin has been locked out	1.045	
616-206	Disk Encryption enabled/disabled	0 = disabled, 1 = enabled F	RW	Disk Encryption Enabled/Disabled	NVMcontrolledAccess	boolean	No		1.130	
616-206	Disk Encryption enabled/disabled	0 = disabled, 1 = enabled F	RW	Disk Encryption Enabled/Disabled	NVMcontrolledAccess	boolean	No		1.527	
616-206	Disk Encryption enabled/disabled	0 = disabled, 1 = enabled F	RW	Disk Encryption Enabled/Disabled	NVMcontrolledAccess	boolean	No		1.744	
616-213	defines system manager full ODIO timeout	90 minutes	RW	FullODIOTimeout	NVMDebug	shortNatural	No		1.135	
616-214				StandardODIOTimeout	NVMDebug		No		1.135	
616-217	PagePack Grace Prints Left	0-6000	ND		NVMcontrolledAccess	longInteger	No		1.823	
616-217	PagePack Grace Prints Left	0-2000 N	ND		NVMcontrolledAccess	longInteger	No		1.341	
616-224		Byte array containing a circular log of Intelligent Ready bin values updated on a daily basis. Sized for	ND	IR log data	NVMSAKOSetting	byteArray	No		1.179	
616-225	IR1a byte array		ND	IR1a values day array	NVMSAKOSetting	byteArray	No		1.781	
616-226		Byte array containing NIR2a: hourly values for a day	ND	IR2a values day array	NVMSAKOSetting	byteArray	No		1.781	
616-227		Identifies last bin updated N with Ir1a value for the day	ND	IR1a last bin updated	NVMSAKOSetting	shortNatural	No		1.781	
616-228		Identifies last bin updated N with Ir2a value for the day	ND	IR2a last bin updated	NVMSAKOSetting	shortNatural	No		1.781	
616-229		0 = IME Not in Snooze F mode, 1 = IME in snooze mode	RW	Display Snooze Message	NVMConfiguration	boolean	No		1.183	

616-232	system has been idle to enabled transition into power saver WITH fast resume set.	The idle time in minutes before the machine will enter Low power with Fast resume set	powersaver fast resume idletime	NVMSAKOSetting	shortNatural	No		1.238		
616-233	resume set. Only for Solid Ink	The idle time in minutes the machine will remain in Low power before entering Sleep with Fast Resume	powersaver fast resume in mode1	NVMSAKOSetting	shortNatural	No		1.238		
616-234		seconds RW	UI system Timeout value	NVMSAKOSetting	integer	Yes		1.552		
616-235		NA_Classic = 1 (Default) NA_Enterprise = 2 XE_Classic = 3 XE Enterprise = 4	RegDiff	NVMcontrolledAccess	shortNatural	No		1.819		
616-241	splash screen. Factory Default is not to display Logo and the appropriate value is set by the MITS tool as required per programme.	unknown - do not display ES Logo on LUI. 1 = ES compliant - do display ES Logo on LUI.	Energy Star Compliant status	NVMcontrolledAccess		No		1.729		
616-242	S-Config Enablement Status. This was developed for Mamba+ and used to interact with ID5612 but is no longer required. DEPRECATED FOR D3.6.	RO	S-Config EStarEnablement status	NVMSAKOSetting	boolean	No		1.673		
616-245	screen	Set by CCS when a SIM is ND required but not yet detected. For Northwood this is whenever Market =	#	NVMConfiguration	boolean	No		1.733	Yes	
616-255	S/W UGD Fault Counter 95-011-00: XUI Application	no. of faults	Fault Counter 95-011-00	NVMFaultCounter	shortNatural	No	Fault Counter:95-011- 00:XUI Application	1.813		
616-256	S/W UGD Fault Counter 95-001-00: DCSWUPCODEERROR	no. of faults	Fault Counter 95-001-00	NVMFaultCounter	shortNatural	No	Fault Counter:95-001- 00:DCSWUPCODEER ROR	1.636		
616-257	S/W UGD Fault Counter 95-002-00: DCAPPERROR	no. of faults	Fault Counter 95-002-00	NVMFaultCounter	shortNatural	No	Fault Counter:95-002- 00:DCAPPERROR	1.636		
616-258	S/W UGD Fault Counter 95-008-00: DCOSERROR	no. of faults	Fault Counter 95-008-00	NVMFaultCounter	shortNatural	No	Fault Counter:95-008- 00:DCOSERROR	1.813		
616-259	S/W UGD Fault Counter 95-009-00: DCCIPSERROR	no. of faults	Fault Counter 95-009-00	NVMFaultCounter	shortNatural	No	Fault Counter:95-009- 00:DCCIPSERROR	1.636		
616-260	S/W UGD Fault Counter 95-019-00: SUIH8ERROR	no. of faults RW	Fault Counter 95-019-00	NVMFaultCounter	shortNatural	No	Fault Counter:95-019- 00:SUIH8ERROR	1.813		

616-261	S/W UGD Fault Counter 95-020-00: DADHAPPERROR	no. of faults	RW	Fault Counter 95-020-00	NVMFaultCounter	shortNatural	No	Fault Counter:95-020- 00:DADHAPPERROR	1.810	
616-262	S/W UGD Fault Counter 95-038-00: EMBEDFAXERROR	no. of faults	RW	Fault Counter 95-038-00	NVMFaultCounter	shortNatural	No	Fault Counter:95-038- 00:EMBEDFAXERRO R	1.813	
616-263	S/W UGD Fault Counter 95-040-00: IOTBOOTSTRAPERROR	no. of faults	RW	Fault Counter 95-040-00	NVMFaultCounter	shortNatural	No	Fault Counter:95-040- 00:IOTBOOTSTRAPE RROR	1.636	
616-264	S/W UGD Fault Counter 95-041-00: IOTBOOTLOADERROR	no. of faults	RW	Fault Counter 95-041-00	NVMFaultCounter	shortNatural	No	Fault Counter:95-041- 00:IOTBOOTLOADER ROR	1.636	
616-265	S/W UGD Fault Counter 95-042-00: IOTAPPERROR	no. of faults	RW	Fault Counter 95-042-00	NVMFaultCounter	shortNatural	No	Fault Counter:95-042- 00:IOTAPPERROR	1.813	
616-266	S/W UGD Fault Counter 95-060-00: LCSS2KAPPERROR	no. of faults	RW	Fault Counter 95-060-00	NVMFaultCounter	shortNatural	No	Fault Counter:95-060- 00:LCSS2KAPPERRO R	1.636	
616-267	S/W UGD Fault Counter 95-140-00: DCNCAPPERROR	no. of faults	RW	Fault Counter 95-140-00	NVMFaultCounter	shortNatural	No	Fault Counter:95-140- 00:DCNCAPPERROR	1.813	
616-268	S/W UGD Fault Counter 95-150-00:	no. of faults	RW	Fault Counter 95-150-00	NVMFaultCounter	shortNatural	No	Fault Counter:95-150- 00:IITAPPERROR	1.813	
616-269	S/W UGD Fault Counter 95-153-00: IITKERNELERROR	no. of faults	RW	Fault Counter 95-153-00	NVMFaultCounter	shortNatural	No	Fault Counter:95-153- 00:IITKERNELERROR	1.813	
616-270	S/W UGD Fault Counter 95-180-00: HCFFWMODERROR	no. of faults	RW	Fault Counter 95-180-00	NVMFaultCounter	shortNatural	No	Fault Counter:95-180- 00:HCFFWMODERRO R	1.813	
616-271	S/W UGD Fault Counter 95-191-00: PFPFWMODERROR	no. of faults	RW	Fault Counter 95-191-00	NVMFaultCounter	shortNatural	No	Fault Counter:95-191- 00:PFPFWMODERRO R	1.636	
616-272	S/W UGD Fault Counter 95-192-00: HVFAPPERROR	no. of faults	RW	Fault Counter 95-192-00	NVMFaultCounter	shortNatural	No	Fault Counter:95-192- 00:HVFAPPERROR	1.636	
616-273	S/W UGD Fault Counter 95-193-00: HVFBMAPPERROR	no. of faults	RW	Fault Counter 95-193-00	NVMFaultCounter	shortNatural	No	Fault Counter:95-193- 00:HVFBMAPPERRO R	1.636	
616-274	S/W UGD Fault Counter 95-195-00: HVFBMBCERROR	no. of faults	RW	Fault Counter 95-195-00	NVMFaultCounter	shortNatural	No	Fault Counter:95-195- 00:HVFBMBCERROR	1.636	

616-275	S/W UGD Fault Counter 95-200-00: CFINAPPERROR	no. of faults	RW Fault Counter 95-200-00	NVMFaultCounter	shortNatural No	Fault Counter:95-200- 00:CFINAPPERROR	1.636
616-276	S/W UGD Fault Counter 95-007-00: CHFINAPPERROR	no. of faults	RW Fault Counter 95-007-00	NVMFaultCounter	shortNatural No	Fault Counter:95-007- 00:CHFINAPPERROR	1.813
616-277	S/W UGD Fault Counter 95-203-00: AFINAPPERROR	no. of faults	RW Fault Counter 95-203-00	NVMFaultCounter	shortNatural No	Fault Counter:95-203- 00:AFINAPPERROR	1.813
616-278	S/W UGD Fault Counter 95-204-00:	no. of faults	RW Fault Counter 95-204-00	NVMFaultCounter	shortNatural No	Fault Counter:95-204-	1.813
616-279	SBFINAPPERROR  S/W UGD Fault Counter 95-161-00:	no. of faults	RW Fault Counter 95-161-00	NVMFaultCounter	shortNatural No		1.636
616-280	IITSINDOHBCERROR S/W UGD Fault Counter 95-162-00: IITSINDOH2APPERROR	no. of faults	RW Fault Counter 95-162-00	NVMFaultCounter	shortNatural No	00:IITSINDOHBCERR Fault Counter:95-162- 00:IITSINDOH2APPER	1.636
						ROR	
616-281	S/W UGD Fault Counter 95-163-00: SPDHBOOTSINDOHERROR	no. of faults	RW Fault Counter 95-163-00	NVMFaultCounter	shortNatural No	Fault Counter:95-163- 00:IITSINDOH1FPGAE RROR	1.636
616-282	S/W UGD Fault Counter 95-164-00: SPDHAPPSINDOHERRO	no. of faults	RW Fault Counter 95-164-00	NVMFaultCounter	shortNatural No	Fault Counter:95-164- 00:IITSINDOHFPGAE	1.636
616-283	S/W UGD Fault Counter 95-228-00: DADHSPB0DAPPERROR	no. of faults	RW Fault Counter 95-228-00	NVMFaultCounter	shortNatural No	Fault Counter:95-228- 00:DADHSPB0DAPPE RROR	1.636
616-284	S/W UGD Fault Counter 95-229-00: DADHSPB0DBCERROR	no. of faults	RW Fault Counter 95-229-00	NVMFaultCounter	shortNatural No	Fault Counter:95-229- 00:DADHSPB0DBCER ROR	1.636
616-285	S/W UGD Fault Counter 95-216-00: DCGLUEERROR	no. of faults	RW Fault Counter 95-216-00	NVMFaultCounter	shortNatural No	Fault Counter:95-216- 00:DCGLUEERROR	1.813
616-286	S/W UGD Fault Counter 95-168-00: DADHSPERROR	no. of faults	RW Fault Counter 95-168-00	NVMFaultCounter	shortNatural No	Fault Counter:95-168- 00:DADHSPERROR	1.813
616-287	S/W UGD Fault Counter 95-152-00: SICAPPERROR	no. of faults	RW Fault Counter 95-152-00	NVMFaultCounter	shortNatural No	Fault Counter:95-152- 00:SICAPPERROR	1.813
616-288	S/W UGD Fault Counter 95-226-00: SOKAPPERROR	no. of faults	RW Fault Counter 95-226-00	NVMFaultCounter	shortNatural No	Fault Counter:95-226- 00:SOKAPPERROR	1.813
616-289	S/W UGD Fault Counter 95-222-00: LVFAPPERROR	no. of faults	RW Fault Counter 95-222-00	NVMFaultCounter	shortNatural No	Fault Counter:95-222- 00:LVFAPPERROR	1.810
	S/W UGD Fault Counter 95-224-00:	no. of faults	RW Fault Counter 95-224-00	NVMFaultCounter	shortNatural No		1.810
616-291	S/W UGD Fault Counter 95-255-00: DCSCDERROR	no. of faults	RW Fault Counter 95-255-00	NVMFaultCounter	shortNatural No	Fault Counter:95-255- 00:DCSCDERROR	1.636
616-292	S/W UGD Fault Counter 95-306-00: CCSSYNCERROR	no. of faults	RW Fault Counter 95-306-00	NVMFaultCounter	shortNatural No	Fault Counter:95-306- 00:CCSSYNCERROR	1.813

616-293	S/W UGD Fault Counter 95-307-00: NCSYNCERROR	no. of faults	RW	Fault Counter 95-307-00	NVMFaultCounter	shortNatural	No	Fault Counter:95-307- 00:NCSYNCERROR	1.813	
616-294	S/W UGD Fault Counter 95-308-00: UISYNCERROR	no. of faults	RW	Fault Counter 95-308-00	NVMFaultCounter	shortNatural	No	Fault Counter:95-308- 00:UISYNCERROR	1.813	
616-295	S/W UGD Fault Counter 95-309-00: IITSYNCERROR	no. of faults	RW	Fault Counter 95-309-00	NVMFaultCounter	shortNatural	No	Fault Counter:95-309- 00:IITSYNCERROR	1.813	
616-296	S/W UGD Fault Counter 95-310-00: IOTSYNCERROR	no. of faults	RW	Fault Counter 95-310-00	NVMFaultCounter	shortNatural	No	Fault Counter:95-310- 00:IOTSYNCERROR	1.813	
616-297	S/W UGD Fault Counter 95-311-00: FINSYNCERROR	no. of faults	RW	Fault Counter 95-311-00	NVMFaultCounter	shortNatural	No	Fault Counter:95-311- 00:FINSYNCERROR	1.813	
616-298	S/W UGD Fault Counter 95-312-00: FDRSYNCERROR	no. of faults	RW	Fault Counter 95-312-00	NVMFaultCounter	shortNatural	No	Fault Counter:95-312- 00:FDRSYNCERROR	1.813	
616-299	S/W UGD Fault Counter 95-300-00: SWUPINCOMPATPRODERROR	no. of faults	RW	Fault Counter 95-300-00	NVMFaultCounter	shortNatural	No	Fault Counter:95-300- 00:SWUPINCOMPATP RODERROR	1.636	
616-300	S/W UGD Fault Counter 95-301-00: SWUPINCOMPATHWERROR	no. of faults	RW	Fault Counter 95-301-00	NVMFaultCounter	shortNatural	No	Fault Counter:95-301- 00:SWUPINCOMPAT HWERROR	1.636	
616-301	S/W UGD Fault Counter 95-302-00: SWUPINCOMPATFWERROR	no. of faults	RW	Fault Counter 95-302-00	NVMFaultCounter	shortNatural	No	Fault Counter:95-302- 00:SWUPINCOMPATF WERROR	1.636	
616-302	S/W UGD Fault Counter 95-303-00: SWUPDLMDOWNGRADEERROR	no. of faults	RW	Fault Counter 95-303-00	NVMFaultCounter	shortNatural	No	Fault Counter:95-303- 00:SWUPDLMDOWN GRADEERROR	1.636	
616-303	S/W UGD Fault Counter 95-304-00: SWUPDLMSIDEGRADEERROR	no. of faults	RW	Fault Counter 95-304-00	NVMFaultCounter	shortNatural	No	Fault Counter:95-304- 00:SWUPDLMSIDEGR ADEERROR	1.636	
616-304	S/W UGD Fault Counter 95-305-00: SWUPPLATSYNCERROR	no. of faults	RW	Fault Counter 95-305-00	NVMFaultCounter	shortNatural	No	Fault Counter:95-305- 00:SWUPPLATSYNCE RROR	1.636	
616-305	SPARE was s/w upgrade fault counter		ND	SPARE	NVMMachVar	shortNatural	No		1.636	

616 306	SPARE was s/w upgrade fault counter	IND	SPARE	NVMMachVar	shortNatural	No	1.636	
010-300	SPARE was s/w upgrade raun counter	ND	SPANE	INVININACITVAI	SHOLLINALUIAI	INO	1.030	
616-307	SPARE was s/w upgrade fault counter	ND	SPARE	NVMMachVar	shortNatural	No	1.636	
010007	or 7 tive was 5/W apprado radit osaritor		OI 7 II LE	TV WWGGITV GI	onorti tatarai		11.555	
616-308	SPARE was s/w upgrade fault counter	ND	SPARE	NVMMachVar	shortNatural	No	1.636	
0.000	or / in the was s/ in apgrade radii seamer		0171112	TTT MINICOLL CO.	onor a ratarar			
616-309	SPARE was s/w upgrade fault counter	ND	SPARE	NVMMachVar	shortNatural	No	1.636	
0.000	or 7 tive was 5/W apprado radit osaritor		OI 7 II LE	TV WWGGITV GI	onorti tatarai		11.555	
616-310	SPARE was s/w upgrade fault counter	ND	SPARE	NVMMachVar	shortNatural	No	1.636	
010010	a vite was s/w apgrade radic seamer		OI 7 II LE	TV WWGGITV GI	onorti tatarar		11.555	
616-311	SPARE was s/w upgrade fault counter	ND	SPARE	NVMMachVar	shortNatural	No	1.636	
010 011	or the was 5/W apprade rath souther		OI / II C	TV WINGOTT V GI	Shortivatara		11.900	
616-312	SPARE was s/w upgrade fault counter	ND	SPARE	NVMMachVar	shortNatural	No	1.636	
010 012	or the was 5/W apprade rath souther		OI / II C	TV WINGOTT V GI	Shortivatara		11.900	
616-313	SPARE was s/w upgrade fault counter	ND	SPARE	NVMMachVar	shortNatural	No	1.636	
010-313	of Aire was 5/W apprade radii counter	IND I	OI AIL	14 V IVIIVIGOTI V GI	Shortivatural		1.000	
616-314	SPARE was s/w upgrade fault counter	ND	SPARE	NVMMachVar	shortNatural	No	1.636	
010-314	or Arte was s/w apgrade radii codifici	IND I	OI AIL	14 V IVIIVIACIT V AI	Shortivatural		1.000	
616-315	SPARE was s/w upgrade fault counter	ND	SPARE	NVMMachVar	shortNatural	No	1.636	
010-010	of Aire was 5/W apprade radii counter	IND I	OI AIL	14 V IVIIVIGOTI V GI	Shortivatural		1.000	
616-316	SPARE was s/w upgrade fault counter	ND	SPARE	NVMMachVar	shortNatural	No	1.636	
1010 010	or 7 tive was 5/W apprade radit obdition		OI / II L	TV WINGOTT V GI	Shortivatara		11.900	
1								
616-317	SPARE was s/w upgrade fault counter	ND	SPARE	NVMMachVar	shortNatural	No	1.636	
010-017	or 7 to the was 5/W approach rault counter		O. / II (L	14 V IVIIVIGOTI V dI	Shortivatural	10	1.000	
616-318	SPARE was s/w upgrade fault counter	ND	SPARE	NVMMachVar	shortNatural	No	1.636	
1010-010	or 7 to the was 5, w appliant lank counter		O. /	1 V WIWIGOTT V GI	Siloitivataiai		1.000	
616-310	SPARE was s/w upgrade fault counter	ND	SPARE	NVMMachVar	shortNatural	No	1.636	
010-019	or 7 to the was 5/W approach rault counter		O. / II (L	1 4 V IVIIVIGOTI V dI	Shortivatural	10	1.000	
	1				1			

616-320	SPARE was s/w upgrade fault counter	ND	SPARE	NVMMachVar	shortNatural	No	1.636	
616-321	SPARE was s/w upgrade fault counter	ND	SPARE	NVMMachVar	shortNatural	No	1.636	
616-322	SPARE was s/w upgrade fault counter	ND ND	SPARE	NVMMachVar	shortNatural	No	1.636	
616-323	SPARE was s/w upgrade fault counter	ND ND	SPARE	NVMMachVar	shortNatural	No	1.636	
616-324	SPARE was s/w upgrade fault counter	ND	SPARE	NVMMachVar	shortNatural	No	1.636	
616-325	SPARE was s/w upgrade fault counter	ND	SPARE	NVMMachVar	shortNatural	No	1.636	
616-326	SPARE was s/w upgrade fault counter	ND	SPARE	NVMMachVar	shortNatural	No	1.636	
616-327	SPARE was s/w upgrade fault counter	ND ND	SPARE	NVMMachVar	shortNatural	No	1.636	
616-339	For Blue Angel when the energy saver is set to 0 minutes the system will take a	seconds RW	power saver grace period	NVMSAKOSetting	shortNatural	No	1.726	
616-346	Touch Volume	RW	Touch Volume	NVMSAKOSetting	shortNatural	No	1.741	
616-347	Fault / Alert Volume	RW	Fault / Alert Volume	NVMSAKOSetting	shortNatural	No	1.741	
616-348	Job Completion Volume	RW	Job Completion Volume	NVMSAKOSetting	shortNatural	No	1.741	
	1		]			1		

616-349	Energy Saver Volume	RW	Energy Saver Volume	NVMSAKOSetting	shortNatural	No	1.741	
010010	Linerary Caver Velame		Lineigy daver verame	Try we are county	onor a tatarar		[]	
616-350	Power Volume	RW	Power Volume	NVMSAKOSetting	shortNatural	No	1.741	
616-351	Log In Volume	RW	Log In Volume	NVMSAKOSetting	shortNatural	No	1.741	
616-352	`	0 = Hidden ND		NVMcontrolledAccess	boolean	No	1.790	Yes, as Text
	Manufacturing)	1 = Unhidden						
040.050	A: Dist Frates and its #its (frames)	0 1511		ND /A 4 4 H I A	1 1	A L	4.700	V T t
616-352	`	0 = Hidden ND		NVMcontrolledAccess	boolean	No	1.790	Yes, as Text
	Manufacturing)	1 = Unhidden						
616-352	AirPrint Feature unhide/hide (for use in	0 = Hidden ND		NVMcontrolledAccess	boolean	No	1.790	Yes, as Text
010 002	Manufacturing)	1 = Unhidden		TV WOOTH Clied/ (00000	boolean		1.700	165, 45 1630
	Thanadamig)	- Omnadon						
616-355	Policy for AdjustableTrayConfirmation	0 - Always show RW	AdjustableTrayConfirmationPolicy	NVMSAKOSetting	shortNatural	No	1.817	
	Prompt	1 - Delayed Close	, , ,					
		2 - Auto confirmation						
616-361			Lower Power Print Feature Enable	NVMSAKOSetting	boolean	No	1.701 Yes	
	Print feature. (Default = disabled for D3.6-	1=Enabled						
	D4.0 programmes).							
0.4.0.000							4.700 )/	
616-363		·	Energy Star Compliant status 22	NVMcontrolledAccess	boolean	No	1.792 Yes	
	1 .	unknown - do not display						
		ES Logo on LUI.						
	set by the MITS tool as required for 22ppm machines	display ES Logo on LUI.						
616-364	Control for UI display of Energy Star Logo		Energy Star Compliant status 25	NVMcontrolledAccess	boolean	No	1.792 Yes	
010-304		unknown - do not display	Energy otal compliant status 25	TV WOOTH OHEA/GCC33	boolcan		1.732 103	
		ES Logo on LUI.						
	set by the MITS tool as required for 25ppm							
616-365			Energy Star Compliant status 28	NVMcontrolledAccess	boolean	No	1.792 Yes	
		unknown - do not display						
	display Logo and the appropriate value is	ES Logo on LUI.						
	set by the MITS tool as required for 28ppm							
	Control for UI display of Energy Star Logo			NVMcontrolledAccess	boolean	No	1.792 Yes	
616-367	Control for UI display of Energy Star Logo		Energy Star Compliant status 35	NVMcontrolledAccess	boolean	No	1.750 Yes	
	1 .	unknown - do not display						
		ES Logo on LUI.						
	set by the MITS tool as required for 35ppm	•						
040.000		display ES Logo on LUI.	 	ND (NA	1	N.	1, == 0, 1,	
616-368			Energy Star Compliant status 45	NVMcontrolledAccess	boolean	No	1.750 Yes	
	1 .	unknown - do not display						
		ES Logo on LUI.						
	set by the MITS tool as required for 45ppm	i – Eo compliant - do	1	_1		1 1		

	To		T=	I. n. e. e	T	1	b.	
616-369	, ,	•	Energy Star Compliant status 55	NVMcontrolledAccess	boolean	No	1.750 Y	es
	splash screen. Factory Default is not to	unknown - do not display						
	display Logo and the appropriate value is	ES Logo on LUI.						
	set by the MITS tool as required for 55ppm	•						
		display ES Logo on LUI.						
616-370			Energy Star Compliant status 70	NVMcontrolledAccess	boolean	No	1.750 Y	res
010-370	, ,		Lifergy Star Compliant status 70	INVIVICOI III Olled Access	Doolean	INO	1.730	<del>C</del> S
		unknown - do not display						
		ES Logo on LUI.						
	set by the MITS tool as required for 70ppm							
616-372	Control for UI display of Energy Star Logo	0 = Not ES compliant OR RO	Energy Star Compliant status 60	NVMcontrolledAccess	boolean	No	1.792 Y	'es
	splash screen. Factory Default is not to	unknown - do not display						
616-373		0 = Not ES compliant OR RO	Energy Star Compliant status 65	NVMcontrolledAccess	boolean	No	1.792 Y	´es
		unknown - do not display						
	· ·	ES Logo on LUI.						
		•						
212.071	set by the MITS tool as required for 65ppm			N 44 4 11 14			4 ==0 )/	
616-374	, ,	•	Energy Star Compliant status 75	NVMcontrolledAccess	boolean	No	1.750 Y	es
	i ·	unknown - do not display						
	display Logo and the appropriate value is	ES Logo on LUI.						
	set by the MITS tool as required for 75ppm	1 = ES compliant - do						
616-375			Energy Star Compliant status 90	NVMcontrolledAccess	boolean	No	1.750 Y	es
0.00.0	, ,	unknown - do not display	Zinorgy star sompriant status ss		Doorou.		00	
	i ·	ES Logo on LUI.						
		•						
	set by the MITS tool as required for 90ppm							
		display ES Logo on LUI.						
616-377	Control for UI display of Energy Star Logo	0 = Not ES compliant OR RO	Energy Star Compliant status 42	NVMcontrolledAccess	boolean	No	1.816 Y	´es
	splash screen. Factory Default is not to	unknown - do not display						
	display Logo and the appropriate value is	ES Logo on LUI.						
	set by the MITS tool as required for 42ppm	•						
616-378			Energy Star Compliant status 50	NVMcontrolledAccess	boolean	No	1.792 Y	es
010-370		unknown - do not display	Energy otal compliant status so	TV Woor it offed Access	boolcan		1.752	
		. ,						
		ES Logo on LUI.						
	set by the MITS tool as required for 50ppm							
		display ES Logo on LUI.						
616-384	Starter cartridge inserted count: Cyan	Cyan: To store the RO	CyanStrtrCartInstCnt	NVMSystemUsageCounter	shortNatural	No	1.764	
		number of times the						
		starter cartridge inserted						
		count.						
616-385			MagStrtrCartInstCnt	NVMSystemUsageCounter	shortNatural	No	1.764	
010-303			MagSuuGarunsioni	INVINSystemosageCounter	Shortivaturai	INO	1.764	
212 222		number of times the	11.12.1.2.11.12.1	1.0.0.0				
616-386	5		YelStrtrCartInstCnt	NVMSystemUsageCounter	shortNatural	No	1.764	
		number of times the						
		starter cartridge inserted						
		count.						
616-387			BlkStrtrCartInstCnt	NVMSystemUsageCounter	shortNatural	No	1.764	
	•	number of times the						
1		starter cartridge inserted						
1		_						
		count.						
			1	1				

616-388	Toner billing mode	Stores the billing mode value that comes from the IOT.		TonerBillingMode	NVMcontrolledAccess	shortNatural	No		1.764		
616-389	Toner service plan mode	Enum TonerBillingMode Stores the service plan value that comes from the IOT.	RO	TonerSvcPlanMode	NVMcontrolledAccess	shortNatural	No		1.764		
616-390	Toner regional differentiator	Stores the toner regional differentiatior value that comes from the IOT.	RO	TonerRgnDifferentiator	NVMcontrolledAccess	shortNatural	No		1.764		
616-398	Fault Counter 16-972-15:DLM signature fails	no. of faults	RW	DLMSIGFAILSFAULT	NVMFaultCounter	shortNatural	No	Fault Counter:16-972- 15:DLM signature fails	1.768		
616-399	Fault Counter 16-972-08:Bootmgr's SW verify failed.	no. of faults	RW	SWVERIFYBOOTFAILED	NVMFaultCounter	shortNatural	No	Fault Counter:16-972- 08:Bootmgr's SW verify failed.	1.771		
616-400	Fault Counter 16-972-09:SWUP Signature Verification Fails	no. of faults	RW	SWUPSIGNATUREVERIFICATION FAILS	NVMFaultCounter	shortNatural	No	Fault Counter:16-972- 09:SWUP Signature Verification Fails	1.768		
616-402	Type of fuser	0 = Letter Fuser 1 = A4 Fuser	RO	FuserType	NVMcontrolledAccess	shortNatural	No		1.803	Yes	Yes, as Text
617-001	Displayed faults-Fault Log		ND	Displayable Fault Log	NVMFaultLog	byteArray	No	Log Data:657: Last 250 Faults	1.707		
617-008	Hidden faults-Fault Log		ND	Hidden Fault Log	NVMFaultLog	byteArray	No	Unknown	1.707		
620-034	Fault Counter 05-110:		RW	05-110 counter	NVMFaultCounter	shortNatural	No	Fault Counter:05-110- 00: Unknown	1.159		
	Fault Counter 05-111: SPARED (was IIT fault counter)		ND	SPARE 620-035	NVMFaultCounter	shortNatural	No	Fault Counter:05-111- 00: Unknown	1.159		
620-036	Fault Counter 05-112:		RW	05-112 counter	NVMFaultCounter	shortNatural	No	Fault Counter:05-112- 00: Unknown	1.159		
620-037	Fault Counter 05-113: SPARED (was IIT fault counter)		ND	SPARE 620-037	NVMFaultCounter	shortNatural	No	Fault Counter:05-113- 00: Unknown	1.159		

ult counter)		SPARE 620-038	NVMFaultCounter	shortNatural	No	Fault Counter:05-115- 00: Unknown	1.159	
ult counter)			NVMFaultCounter			00: Unknown		
ault Counter 05-121:	RW (	05-121 counter	NVMFaultCounter	shortNatural	No	Fault Counter:05-121- 00: Unknown	1.159	
ault Counter 05-122:	RW 0	05-122 counter	NVMFaultCounter	shortNatural	No	Fault Counter:05-122- 00: Unknown	1.159	
ault Counter 05-123:	RW 0	05-123 counter	NVMFaultCounter	shortNatural	No	Fault Counter:05-123- 00: Unknown	1.159	
ault Counter 05-124:	RW 0	05-124 counter	NVMFaultCounter	shortNatural	No	Fault Counter:05-124- 00: Unknown	1.159	
ault Counter 05-125:	RW (	05-125 counter	NVMFaultCounter	shortNatural	No	Fault Counter:05-125- 00: Unknown	1.159	
ault Counter 05-126:	RW 0	05-126 counter	NVMFaultCounter	shortNatural	No	Fault Counter:05-126- 00: Unknown	1.813	
ault Counter 05-127:	RW 0	05-127 counter	NVMFaultCounter	shortNatural	No	Fault Counter:05-127- 00: Unknown	1.813	
ault Counter 05-128:	RW 0	05-128 counter	NVMFaultCounter	shortNatural	No	Fault Counter:05-128- 00: Unknown	1.813	
ault Counter 05-129:	RW 0	05-129 counter	NVMFaultCounter	shortNatural	No	Fault Counter:05-129- 00: Unknown	1.813	
	DW.	05.400	ND /ME a vide a vista in	- l mtN   - 4, l	NI-	TIt Ot05 420	4.040	
ault Counter 05-133: SPARED (was IIT			NVMFaultCounter NVMFaultCounter			Fault Counter:05-130- Fault Counter:05-133- 00: Unknown	1.159	
ault Counter 05-135:	RW 0	05-135 counter	NVMFaultCounter	shortNatural	No	Fault Counter:05-135- 00: Unknown	1.813	
	ault Counter 05-116: SPARED (was IIT jult counter) ault Counter 05-121:  ault Counter 05-122:  ault Counter 05-123:  ault Counter 05-124:  ault Counter 05-126:  ault Counter 05-127:  ault Counter 05-128:  ault Counter 05-129:  ault Counter 05-130: ault Counter 05-133: SPARED (was IIT jult counter)  ault Counter 05-135:	ault Counter 05-121:  ault Counter 05-122:  ault Counter 05-123:  ault Counter 05-123:  ault Counter 05-124:  ault Counter 05-125:  ault Counter 05-126:  ault Counter 05-127:  ault Counter 05-128:  ault Counter 05-128:  ault Counter 05-128:  ault Counter 05-129:  ault Counter 05-130: ault Counter 05-130: ault Counter 05-133: SPARED (was IIT uilt counter)	ault Counter 05-121:  ault Counter 05-121:  RW 05-121 counter  RW 05-122 counter  RW 05-123 counter  RW 05-124 counter  RW 05-125 counter  RW 05-125 counter  RW 05-126 counter  RW 05-127 counter  RW 05-127 counter  RW 05-128 counter  RW 05-129 counter	ault Counter 05-122:  RW 05-121 counter    RW 05-122 counter    RW 05-122 counter    RW 05-123 counter    RW 05-123 counter    RW 05-123 counter    RW 05-124 counter    RW 05-124 counter    RW 05-125 counter    RW 05-125 counter    RW 05-126 counter    RW 05-126 counter    RW 05-126 counter    RW 05-127 counter    RW 05-127 counter    RW 05-128 counter    RW 05-129 counter    RW 05-129 counter    RW 05-129 counter    RW NVMFaultCounter    RW 05-129 counter    RW NVMFaultCounter    RW 05-130 counter    RW NVMFaultCounter    RW NVMFaultCounter    RW 05-130 counter    RW NVMFaultCounter    RW NVMF	ault Counter 05-121:  RW 05-121 counter NVMFaultCounter shortNatural shortNatural ault Counter 05-122:  RW 05-122 counter NVMFaultCounter shortNatural shortNatural ault Counter 05-123:  RW 05-123 counter NVMFaultCounter shortNatural shortNatural ault Counter 05-124:  RW 05-124 counter NVMFaultCounter shortNatural shortNatural ault Counter 05-125:  RW 05-125 counter NVMFaultCounter shortNatural shortNatural shortNatural ault Counter 05-126:  RW 05-126 counter NVMFaultCounter shortNatural shortNatural ault Counter 05-127:  RW 05-128 counter NVMFaultCounter shortNatural shortNatural shortNatural ault Counter 05-128:  RW 05-128 counter NVMFaultCounter shortNatural	ault Counter 05-121:  RW 05-121 counter  NVMFaultCounter  ShortNatural No  ault Counter 05-122:  RW 05-122 counter  NVMFaultCounter  ShortNatural No  ault Counter 05-123:  RW 05-123 counter  NVMFaultCounter  ShortNatural No  ShortNatural No  ShortNatural No  ShortNatural No  ShortNatural No  RW 05-124 counter  NVMFaultCounter  ShortNatural No  Ault Counter 05-126:  RW 05-125 counter  NVMFaultCounter  ShortNatural No  No  No  ShortNatural No  No  No  ShortNatural No  No  No  No  No  No  No  No  No  No	Month   Mont	Mail Counter 05-121:   RW 05-121 counter   NVMFaultCounter   ShortNatural   No   Fault Counter 05-121-1.159

Record   Faul Counter (05-106   Record   Recor	000 050	F - 11 0 10 100	IDW.	05.400	IND/AAT	. I (N.) . (	N.I.	IF	I4 040 I	1
620-005   Fault Counter 05-165: SPARED (was IIT   NO SPARE 620-054   NVMFaultCounter   shortNatural   No SPARE 620-054   NVMFaultCounter   shortNatural   No SPARE 620-055   1.150   NVMFaultCounter   shortNatural   No SPARE 620-055   NVMFaultCounter   shortNatural   No SPARE 620-056   NVMFaultCounter   shortNatural   No SPARE 620-056   NVMFaultCounter   shortNatural   No SPARE 620-057   NVMFaultCounter   shortNatural   No SPARE 620-058   NVMFaultCounter   shortNatural   No SPARE 6	620-052	Fault Counter 05-136:	RW	105-136 counter	NVMFaultCounter	shortNatural	NO		1.813	
Fault Counter 05-141:   RW   05-141 counter   RVMFaultCounter   RVMFaultCounter   ShortNatural   No   Fault Counter 05-141:   1.813	620-053	· ·	ND	SPARE 620-053	NVMFaultCounter	shortNatural	No		1.159	
	620-054	· ·	ND	SPARE 620-054	NVMFaultCounter	shortNatural	No		1.159	
620-057   Fault Counter 05-143: SPARED (was IIT   ND   SPARE 620-057   NVMFaultCounter   shortNatural   No   Fault Counter 05-143-   1.159   07: Unknown   C20-058   Fault Counter 05-144:   RW   05-144 counter   NVMFaultCounter   shortNatural   No   Fault Counter 05-144-   1.159   07: Unknown   C20-058   Fault Counter 05-144:   RW   05-144 counter   NVMFaultCounter   shortNatural   No   Fault Counter 05-144-   1.159   07: Unknown   C20-059   Fault Counter 05-150: SPARED (was IIT   ND   SPARE 620-059   NVMFaultCounter   shortNatural   No   Fault Counter 05-150-   1.159   07: Unknown   C20-060   Fault Counter 05-151: SPARED (was IIT   ND   SPARE 620-060   NVMFaultCounter   shortNatural   No   G20-060   G20-060   Fault Counter 05-152: SPARED (was IIT   ND   SPARE 620-061   NVMFaultCounter   shortNatural   No   G20-061   G20-062   Fault Counter 05-152: SPARED (was IIT   ND   SPARE 620-061   NVMFaultCounter   shortNatural   No   G20-063   G20-063   Fault Counter 05-153:   RW   05-153   Counter 05-153   C00-063   C00-064   C0	620-055	Fault Counter 05-141:	RW	05-141 counter	NVMFaultCounter	shortNatural	No		1.813	
Fault Counter 05-144:   RW   05-144 counter   NVMFaultCounter   ShortNatural   No   Fault Counter 05-144-   1.159   00: Urknown   00: Urknow	620-056		ND	SPARE 620-056	NVMFaultCounter	shortNatural	No		1.159	
620-059   Fault Counter 05-150: SPARED (was IIT   ND   SPARE 620-059   NVMFaultCounter   ShortNatural   No   Fault Counter 05-150: 0. Unknown   1.159   0.	620-057	· ·	ND	SPARE 620-057	NVMFaultCounter	shortNatural	No		1.159	
Fault Counter   Fault Counter 05-151: SPARED (was IIT   ND   SPARE 620-060   NVMFaultCounter   ShortNatural   No   Fault Counter:05-151:   1.159   1	620-058	Fault Counter 05-144:	RW	05-144 counter	NVMFaultCounter	shortNatural	No		1.159	
fault counter)    Fault Counter 05-152: SPARED (was IIT fault counter)	620-059		ND	SPARE 620-059	NVMFaultCounter	shortNatural	No		1.159	
fault counter)  RW 05-153 counter  NVMFaultCounter  shortNatural  No Fault Counter:05-153- 00: Unknown  NVMFaultCounter  shortNatural  No Fault Counter:05-153- 00: Unknown  NVMFaultCounter  shortNatural  No Fault Counter:05-154- 00: Unknown  NVMFaultCounter  shortNatural  No Fault Counter:05-154- 00: Unknown  NVMFaultCounter  shortNatural  No Fault Counter:05-155- 00: Unknown	620-060	· ·	ND	SPARE 620-060	NVMFaultCounter	shortNatural	No		1.159	
620-063 Fault Counter 05-154: SPARED (was IIT fault counter)  ND SPARE 620-063 NVMFaultCounter shortNatural No Fault Counter:05-154- 00: Unknown  ND SPARE 620-064 NVMFaultCounter shortNatural No Fault Counter:05-155- 00: Unknown  ND SPARE 620-064 NVMFaultCounter shortNatural No Fault Counter:05-155- 00: Unknown	620-061	· ·	ND	SPARE 620-061	NVMFaultCounter	shortNatural	No		1.159	
fault counter)  620-064 Fault Counter 05-155: SPARED (was IIT fault counter)  ND SPARE 620-064 NVMFaultCounter shortNatural No Fault Counter:05-155- 00: Unknown	620-062	Fault Counter 05-153:	RW	05-153 counter	NVMFaultCounter	shortNatural	No		1.159	
fault counter) 00: Unknown	620-063		ND	SPARE 620-063	NVMFaultCounter	shortNatural	No		1.159	
620-065 Fault Counter 05-156: SPARED (was IIT ND SPARE 620-065 NVMFaultCounter shortNatural No Fault Counter:05-156- 1.159	620-064	· ·	ND	SPARE 620-064	NVMFaultCounter	shortNatural	No		1.159	
	620-065	Fault Counter 05-156: SPARED (was IIT	ND	SPARE 620-065	NVMFaultCounter	shortNatural	No	Fault Counter:05-156-	1.159	

620-066	Fault Counter 05-157: SPARED (was IIT fault counter)	ND	SPARE 620-066	NVMFaultCounter	shortNatural	No	Fault Counter:05-157- 00: Unknown	1.159	
620-067	Fault Counter 05-158: SPARED (was IIT fault counter)	ND	SPARE 620-067	NVMFaultCounter	shortNatural	No	Fault Counter:05-158- 00: Unknown	1.159	
620-068	Fault Counter 05-160:	RW	05-160 counter	NVMFaultCounter	shortNatural	No	Fault Counter:05-160- 00: Unknown	1.159	
620-069	Fault Counter 05-190: SPARED (was IIT fault counter)	ND	SPARE 620-069	NVMFaultCounter	shortNatural	No	Fault Counter:05-190- 00: Unknown	1.159	
620-070	Fault Counter 05-194:	RW	05-194 counter	NVMFaultCounter	shortNatural	No	Fault Counter:05-194- 00: Unknown	1.813	
620-071	Fault Counter 05-195: SPARED (was IIT fault counter)	ND	SPARE 620-071	NVMFaultCounter	shortNatural	No	Fault Counter:05-195- 00: Unknown	1.159	
620-072	Fault Counter 05-196:	RW	05-196 counter	NVMFaultCounter	shortNatural	No	Fault Counter:05-196- 00: Unknown	1.813	
620-073	Fault Counter 05-197:	RW	05-197 counter	NVMFaultCounter	shortNatural	No	Fault Counter:05-197- 00: Unknown	1.813	
620-074	Fault Counter 05-198:	RW	05-198 counter	NVMFaultCounter	shortNatural	No	Fault Counter:05-198- 00: Unknown	1.813	
620-075	Fault Counter 05-199:	RW	05-199 counter	NVMFaultCounter	shortNatural	No	Fault Counter:05-199- 00: Unknown	1.813	
620-076	Fault Counter 05-280:	RW	05-280 counter	NVMFaultCounter	shortNatural	No	Fault Counter:05-280- 00: Unknown	1.813	
620-077	Fault Counter 05-304: SPARED (was IIT fault counter)	ND	SPARE 620-077	NVMFaultCounter	shortNatural	No	Fault Counter:05-304- 00: Unknown	1.159	
620-078	Fault Counter 05-305:	RW	05-305 counter	NVMFaultCounter	shortNatural	No	Fault Counter:05-305- 00: Unknown	1.159	

620-079	Fault Counter 05-306: SPARED (was IIT fault counter)	ND	SPARE 620-079	NVMFaultCounter	shortNatural	No	Fault Counter:05-306- 00: Unknown	1.159	
620-080	Fault Counter 05-309:	RW	05-309 counter	NVMFaultCounter	shortNatural	No	Fault Counter:05-309- 00: Unknown	1.159	
620-081	Fault Counter 05-900:	RW	05-900 counter	NVMFaultCounter	shortNatural	No	Fault Counter:05-900- 00: Unknown	1.159	
620-082	Fault Counter 05-902: SPARED (was IIT fault counter)	ND	SPARE 620-082	NVMFaultCounter	shortNatural	No	Fault Counter:05-902- 00: Unknown	1.159	
620-083	Fault Counter 05-903: SPARED (was IIT fault counter)	ND	SPARE 620-083	NVMFaultCounter	shortNatural	No	Fault Counter:05-903- 00: Unknown	1.159	
620-084	Fault Counter 05-904: SPARED (was IIT fault counter)	ND	SPARE 620-084	NVMFaultCounter	shortNatural	No	Fault Counter:05-904- 00: Unknown	1.159	
620-085	Fault Counter 05-906:	RW	05-906 counter	NVMFaultCounter	shortNatural	No	Fault Counter:05-906- 00: Unknown	1.159	
620-086	Fault Counter 05-907:	RW	05-907 counter	NVMFaultCounter	shortNatural	No	Fault Counter:05-907- 00: Unknown	1.159	
620-087	Fault Counter 05-908:	RW	05-908 counter	NVMFaultCounter	shortNatural	No	Fault Counter:05-908- 00: Unknown	1.813	
620-088	Fault Counter 05-909:	RW	05-909 counter	NVMFaultCounter	shortNatural	No	Fault Counter:05-909- 00: Unknown	1.813	
620-089	Fault Counter 05-910:	RW	05-910 counter	NVMFaultCounter	shortNatural	No	Fault Counter:05-910- 00: Unknown	1.813	
620-090	Fault Counter 05-911:	RW	05-911 counter	NVMFaultCounter	shortNatural	No	Fault Counter:05-911- 00: Unknown	1.813	
620-091	Fault Counter 05-912: SPARED (was IIT fault counter)	ND	SPARE 620-091	NVMFaultCounter	shortNatural	No	Fault Counter:05-912- 00: Unknown	1.159	
620-092	Fault Counter 05-913:	RW	05-913 counter	NVMFaultCounter	shortNatural	No	Fault Counter:05-913- 00: Unknown	1.813	

620-093	Fault Counter 05-914: SPARED (was IIT fault counter)		ND	SPARE 620-093	NVMFaultCounter	shortNatural	No	Fault Counter:05-914- 00: Unknown	1.159	
620-094	Fault Counter 05-918: SPARED (was IIT fault counter)		ND	SPARE 620-094	NVMFaultCounter	shortNatural	No	Fault Counter:05-918- 00: Unknown	1.159	
620-095	Fault Counter 05-919:		RW	05-919 counter	NVMFaultCounter	shortNatural	No	Fault Counter:05-919- 00: Unknown	1.159	
620-096	Fault Counter 62-211: SPARED (was IIT fault counter)		ND	SPARE 620-096	NVMFaultCounter	shortNatural	No		1.159	
620-097	Fault Counter 62-277:		RW	62-277 counter	NVMFaultCounter	shortNatural	No	Fault Counter:62-277- 00: Unknown	1.813	
620-098	Fault Counter 62-278: SPARED (was IIT fault counter)		ND	SPARE 620-098	NVMFaultCounter	shortNatural	No	Fault Counter:62-278- 00: Unknown	1.159	
620-099	Fault Counter 62-310:		RW	62-310 counter	NVMFaultCounter	shortNatural	No	Fault Counter:62-310- 00: Unknown	1.813	
620-100	Fault Counter 62-311:		RW	62-311 counter	NVMFaultCounter	shortNatural	No	Fault Counter:62-311- 00: Unknown	1.810	
620-511	200 x 100 Scanned Lifetime Documents Number of jobs (not impressions) since activation that were scanned where the user selected 200 x 100 resolution	200 x 100 Scanned Lifetime Documents Number of jobs (not impressions) since	ND	200 x 100 Scanned Lifetime Docs	NVMSystemUsageCounter	byteArray	No	System Usage Counter:469: 200 x 100 Scanned Lifetime Documents	1.061	
620-522	Fault Counter 05-300: DADH open during run	DADH down sensor detects DADH opened whilst DADH in operation	RW	DADH OpenDuringRunFC	NVMFaultCounter	shortNatural	No	Fault Counter:05-300- 00: DADH open during run	1.037	
620-523	Fault Counter 05-307: DADH LH cover interlock opened during run	24 V LH cover interlock opened during DADH in operation.	RW	DADHLHCovIntlockOpenDuringRun FC	NVMFaultCounter	shortNatural	No	Fault Counter:05-307- 00: DADH LH cover interlock opened during run	1.037	
620-524	Fault Counter 05-310: DADH Source Doc Too Short For DADH	DADH ReportsDocument <110mm in length. See FD 8.3	RW	DADH Source Doc Too Short FC	NVMFaultCounter	shortNatural	No	Fault Counter:05-310- 00: DADH Source Doc Too Short For DADH	1.037	
620-525	Fault Counter 05-330: LE late to post feed sensor S5 (misfeed)	Lead edge of original does not make the post feed sensor S5 in time window	RW	LE late to post feed sensorS5 FC	NVMFaultCounter	shortNatural	No	Fault Counter:05-330- 00: LE late to post feed sensor S5 (misfeed)	1.037	
620-526	Fault Counter 05-331: TE late to post feed sensor S5 (multifeed)	Trail edge of original does not make the post feed sensor S5 in time window	RW	TE late to post feed sensorS5 FC	NVMFaultCounter	shortNatural	No	Fault Counter:05-331- 00: TE late to post feed sensor S5 (multifeed)	1.037	
	Fault Counter 05-335: LE late to TAR sensor S6	Lead edge of original does not make the TAR sensor S6 in time window	RW	LE late to TAR sensor S6 FC	NVMFaultCounter	shortNatural	No	Fault Counter:05-335- 00: LE late to TAR sensor S6	1.037	
620-528	Fault Counter 05-340: LE late to Reg. Sensor S7	Lead edge of original does not make the Reg. sensor S7 in time window	RW	LE late to Reg. Sensor S7 FC	NVMFaultCounter	shortNatural	No	Fault Counter:05-340- 00: LE late to Reg. Sensor S7	1.037	
620-529	Fault Counter 05-342: IIT/Scan LE late to midscan sensor	not make the Reg. sensor			NVMFaultCounter	shortNatural	No	Fault Counter:05-345- 00: LE late to Exit	1.810	
620-530	Fault Counter 05-346: TE late to Exit sensor S8 (FWD)	Trail edge of original does not make the Reg. sensor S8 in time window	RW	TE late to Exit sensor S8 FC	NVMFaultCounter	shortNatural	No	Fault Counter:05-346- 00: TE late to Exit sensor S8 (FWD)	1.037	
<u> </u>		l	I			<u> </u>	I	L	1	

620-531	Fault Counter 05-350: LE late to CVT sensor S10 (FWD)	Lead edge (FWD) of original does not make CVT sensor S10 in time window.	LE late to CVT sensor S10 FWD FC	NVMFaultCounter	shortNatural	No	Fault Counter:05-350- 00: LE late to CVT sensor S10 (FWD)	1.037
620-532	Fault Counter 05-352: LE late to CVT sensor S10 (REV)	Lead edge (REV) of original does not make CVT sensor S10 in time window.	V LE late to CVT sensor S10 REV FC	NVMFaultCounter	shortNatural	No	Fault Counter:05-352- 00: LE late to CVT sensor S10 (REV)	1.037
620-548	Fault Counter 05-250-00: Kernel Checksum Error	DADH m/c corrupted flash R\ memory	V KernelCheckSumErrorFC	NVMFaultCounter	shortNatural	No	Fault Counter:05-250- 00: Kernel Checksum Error	1.092
620-549	Fault Counter 05-251-00: Application checksum error	DADH m/c corrupted flash R\ memory	V ApplicationCheckSumErrorFC	NVMFaultCounter	shortNatural	No	Fault Counter:05-251- 00: Application checksum error	1.092
620-550	Fault Counter 05-252-00: Stepper Controller Comms Error	Error when communicating between the stepper motor and DADH	StepperControllerCommsErrorFC	NVMFaultCounter	shortNatural	No	Fault Counter:05-252- 00: Stepper Controller Comms Error	1.092
620-551	Fault Counter 05-253-00: IIT- DADH Comms Error	Error in comms between R\ IIT and DADH	V IIT-DADHcommsErrorFC	NVMFaultCounter	shortNatural	No	Fault Counter:05-253- 00: IIT- DADH Comms Error	1.721
620-552	Fault Counter 05-254-00: Comms Sequence Error	between IIT and DADH are out of sequence.	V CommsSequenceErrorFC	NVMFaultCounter	shortNatural	No	Fault Counter:05-254- 00: Comms Sequence Error	1.092
620-553	Fault Counter 05-259-00: DADH Hotline Error	The DADH hotline is in the RV wrong state during the scan	V DADHhotlineErrorFC	NVMFaultCounter	shortNatural	No	Fault Counter:05-259- 00: DADH Hotline Error	1.092
620-554	Fault Counter 05-260-00: DADH not in standby	The DADH is not in stand by at the start of the job	,	NVMFaultCounter		No	Fault Counter:05-260- 00: DADH not in standby	1.092
620-577	BES2toS1Calibration_1	For S1 to S2 color matching routine	W BES2toS1Calibration_1	NVMMachVar	natural	No		1.738
620-578	BES2toS1Calibration_2	For S1 to S2 color matching routine	V BES2toS1Calibration_2	NVMMachVar	natural	No		1.738
620-579	BES2toS1Calibration_3	For S1 to S2 color matching routine	V BES2toS1Calibration_3	NVMMachVar	natural	No		1.738
620-580	BES2toS1Calibration_4	For S1 to S2 color matching routine	V BES2toS1Calibration_4	NVMMachVar	natural	No		1.738

620-581	<u> </u>	For S1 to S2 color matching routine	RW BES2toS1Calibration_5	NVMMachVar	natural	No		1.738	
620-582	<u> </u>	For S1 to S2 color I matching routine	RW BES2toS1Calibration_6	NVMMachVar	natural	No		1.738	
620-583	<u> </u>	For S1 to S2 color I matching routine	RW BES2toS1Calibration_7	NVMMachVar	natural	No		1.738	
620-584	<u> </u>	For S1 to S2 color matching routine	RW BES2toS1Calibration_8	NVMMachVar	natural	No		1.738	
620-585	<u> </u>	For S1 to S2 color I matching routine	RW BES2toS1Calibration_9	NVMMachVar	natural	No		1.738	
620-588	Fault Counter 05-966-00: DOCNOTFULLYINSERTED	no. of faults	RW Fault Counter 05-966-00	NVMFaultCounter	shortNatural		Fault Counter:05-966- 00: Unknown	1.581	
	Fault Counter 05-100: IIT/Scan IIT SPDH EEPROM Fault Counter 05-131: IIT/Scan CVT Invert Sensor On Jam while inverting (PF2)		RW Fault Counter 05-100 RW Fault Counter 05-131	NVMFaultCounter NVMFaultCounter		No F	Fault Counter:05-100-00: Fault Counter:05-131-00: CVTINVERTSNRONPF2JA	1.643 1.813	
620-591	Fault Counter 05-132: IIT/Scan CVT Invert Sensor On Jam (PF2)	no. of faults	RW Fault Counter 05-132	NVMFaultCounter	shortNatural	No F	MINVERTINGCOUNT  Fault Counter:05-132-00: CVTINVERTSNRONPF2JA	1.813	
620-592	Fault Counter 05-134: IIT/Scan CVT Invert Sensor Off Jam (Inv) (PF2)	no. of faults	Fault Counter 05-134	NVMFaultCounter	shortNatural		Fault Counter:05-134-00: CVTINVERTSNROFFPF2JA	1.813	
620-593	Fault Counter 05-139: IIT/Scan CVT Invert Sensor Off Jam (PF2)	no. of faults	RW Fault Counter 05-139	NVMFaultCounter	shortNatural		Fault Counter:05-139-00: CVTINVERTSNRPF2OFFJA MCOUNT	1.813	
620-594	Fault Counter 05-145: IIT/Scan CVT-DADF Registration Sensor Off - Jam on inverting	no. of faults	RW Fault Counter 05-145	NVMFaultCounter	shortNatural		Fault Counter:05-145-00: CVTREGSNROFFINVERTIN GJAMCOUNT	1.813	
620-595	Fault Counter 05-146: IIT/Scan CVT-DADF Pre Registration Sensor Off Jam	no. of faults	Fault Counter 05-146	NVMFaultCounter	shortNatural		Fault Counter:05-146-00: CVTPREREGSNROFFJAM COUNT	1.813	
620-596	Fault Counter 05-147: IIT/Scan CVT-DADF Pre Registration Sensor Off Jam - Jam on inverting	no. of faults	RW Fault Counter 05-147	NVMFaultCounter	shortNatural		Fault Counter:05-147-00: CVTPREREGSNROFFINVE RTINGJAMCOUNT	1.813	
620-597	Fault Counter 05-210: IIT/Scan DADF Download Fail	no. of faults	RW Fault Counter 05-210	NVMFaultCounter	shortNatural		Fault Counter:05-210-00: DADFDOWNLOADFAILCO JNT	1.643	

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620-598	Fault Counter 05-336: IIT/Scan Document Feeder: IIT/Scan Paper jam at TAR sensor.	no. of faults RW	Fault Counter 05-336	NVMFaultCounter	shortNatural No	Fault Counter:05-336-00: IITTARSNRJAMCOUNT	1.643
620-599	Fault Counter 05-341: IIT/Scan Document Feeder: IIT/Scan Paper jam at Pre-Scan sensor.	no. of faults RW	Fault Counter 05-341	NVMFaultCounter	shortNatural No	Fault Counter:05-341-00: IITPRESCANSNRJAMCOU NT	1.643
620-600	Fault Counter 05-343: IIT/Scan Document Feeder: IIT/Scan Paper jam at Mid Scan sensor.	no. of faults RW	Fault Counter 05-343	NVMFaultCounter	shortNatural No	Fault Counter:05-343-00: IITMIDSCANSNRJAMCOUN T	1.643
620-601	Fault Counter 05-905: IIT/Scan CVT Feedout Sensor Static Jam (PF1.5 & PF2.02)	no. of faults RW	Fault Counter 05-905	NVMFaultCounter	shortNatural No	Fault Counter:05-905-00: CVTFEEDSNRJAMCOUNT	1.813
	Fault Counter 05-915: IIT/Scan CVT APS No.1 Sensor Static Jam (PF2 & 2.01 & PF2.02 & PF2.03 & PF3.01)	no. of faults RW	Fault Counter 05-915	NVMFaultCounter	shortNatural No	Fault Counter:05-915-00: CVTAPS1SNRJAMCOUNT	1.813
	Fault Counter 05-916: IIT/Scan CVT APS No.2 Sensor Static Jam (PF2 & 2.01 & PF2.02 & PF2.03 & PF3.01)	no. of faults RW	Fault Counter 05-916	NVMFaultCounter	shortNatural No	Fault Counter:05-916-00: CVTAPS2SNRJAMCOUNT	1.813
	Fault Counter 05-917: IIT/Scan CVT APS No.3 Sensor Static Jam(PF2 & 2.01 & PF2.02 & PF2.03	no. of faults RW	Fault Counter 05-917	NVMFaultCounter	shortNatural No	Fault Counter:05-917-00: CVTAPS3SNRJAMCOUNT	1.813
620-605	Fault Counter 05-940: IIT/Scan DADF Feeder Tray Empty Fail	no. of faults RW	Fault Counter 05-940	NVMFaultCounter	shortNatural No	Fault Counter:05-940-00: DADFFEEDTRAYEMPTYFA ILCOUNT	1.813
	Fault Counter 05-941: IIT/Scan Not Enough Originals detected in the DADF during DADF Fault Recovery	no. of faults RW	Fault Counter 05-941	NVMFaultCounter	shortNatural No	Fault Counter:05-941-00: LESSORIGINALSINDADFA TFAULTRECVRYCOUNT	1.813
620-607	Fault Counter 05-945: IIT/Scan Fast Scan - size mismatch	no. of faults RW	Fault Counter 05-945	NVMFaultCounter	shortNatural No	Fault Counter:05-945-00: IITFSSIZEMISMATCHCOU NT	1.813
620-608	Fault Counter 05-946: IIT/Scan Slow Scan - size	no. of faults RW	Fault Counter 05-946	NVMFaultCounter	shortNatural No	Fault Counter:05-946-00:	1.813
				NVMFaultCounter	shortNatural No	Fault Counter:05-947-00: CVTFSSIZEMISMATCHCO UNT	1.813
620-610	Fault Counter 05-948: IIT/Scan CVT SS - size mismatch	no. of faults RW	Fault Counter 05-948	NVMFaultCounter	shortNatural No	Fault Counter:05-948-00: CVTSSSIZEMISMATCHCO	1.813
	Fault Counter 05-958: IIT/Scan Nisca Document Feeder: IIT/Scan Lift Home Sensor Error.	no. of faults RW	Fault Counter 05-958	NVMFaultCounter	shortNatural No	Fault Counter:05-958-00: IITLIFTHOMESNRFAILCOU NT	1.643
620-612	Fault Counter 05-959: IIT/Scan Nisca Document	no. of faults RW	Fault Counter 05-959	NVMFaultCounter	shortNatural No	Fault Counter:05-959-00:	1.643
				NVMFaultCounter	shortNatural No	Fault Counter:05-961-00: IITMTRFANLOCKALARMC OUNT	1.643
620-615	Fault Counter 62-396: Side1 IIT/Scan CIS 1	no. of faults RW	Fault Counter 62-396	NVMFaultCounter	shortNatural No	Fault Counter:62-396-00:	1.643
620-616				NVMFaultCounter	shortNatural No	Fault Counter:62-397-00: IITCIS1PXLCLKMISSINGC OUNT	1.813
620-617	Fault Counter 62-398: Side1 IIT/Scan IIT-Cont I/O Cable Connection Fail	no. of faults RW	Fault Counter 62-398	NVMFaultCounter	shortNatural No	Fault Counter:62-398-00: IITIOCABLECONNECTFAIL COUNT	1.643
620-618	Fault Counter 62-399: Side1 IIT/Scan NISCA DADF	no. of faults	Fault Counter 62-399	NVMFaultCounter	shortNatural No	Fault Counter:62-399-00:	1.643
				NVMFaultCounter	shortNatural No	Fault Counter:62-450-00:	1.813
620-620	Fault Counter 62-451: Side1 IIT/Scan Calibration	no. of faults RW	Fault Counter 62-451	NVMFaultCounter	shortNatural No	Fault Counter:62-451-00:	1.813
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620-621	Fault Counter 62-452: Side1 IIT/Scan Calibration Pixel Offset Not Clear	no. of faults	Fault Counter 62-452	NVMFaultCounter	shortNatural No	Fault Counter:62-452-00: IITCALSIDE1PXLOFFSETN OTCLEARCOUNT	1.813
620-622	Fault Counter 62-453: Side1 IIT/Scan Calibration Pixel Offset Not Done	no. of faults	Fault Counter 62-453	NVMFaultCounter	shortNatural No	Fault Counter:62-453-00: IITCALSIDE1PXLOFFSETN OTDONECOUNT	1.813
620-623	Fault Counter 62-454: Side1 IIT/Scan Calibration Gain Range Not Clear	no. of faults RW	Fault Counter 62-454	NVMFaultCounter	shortNatural No	Fault Counter:62-454-00:	1.813
620-624		no. of faults RW	Fault Counter 62-455	NVMFaultCounter	shortNatural No	Fault Counter:62-455-00:	1.813
620-625			Fault Counter 62-457	NVMFaultCounter	shortNatural No		1.813
620-626	Fault Counter 62-458: Side1 IIT/Scan Calibration Dark Range Errors	no. of faults RW	Fault Counter 62-458	NVMFaultCounter	shortNatural No	Fault Counter:62-458-00: IITCALSIDE1PXLOFFSETN OTDONECOUNT	1.813
620-627	Fault Counter 62-459: Side1 IIT/Scan Calibration Pixel Offset Hi Errors	no. of faults RW	Fault Counter 62-459	NVMFaultCounter	shortNatural No	Fault Counter:62-459-00: IITCALSIDE1PXLOFFSETHI GHERRORCOUNT	1.813
202 202	Facilit Occuptor 00 400 Oids 4 HT/Occup Octions		Fault Occuptor 00 400	N (145 160 4		514 O4	4.040
620-629			Fault Counter 62-460 Fault Counter 62-461	NVMFaultCounter NVMFaultCounter	shortNatural No shortNatural No		1.813 1.813
620-630	Fault Counter 62-462: Side1 IIT/Scan Calibration Pixel Gain Hi Errors	no. of faults RW	Fault Counter 62-462	NVMFaultCounter	shortNatural No	Fault Counter:62-462-00: IITCALSIDE1PXLGAINHIGH ERRORCOUNT	1.813
620-631	Fault Counter 62-463: Side1 IIT/Scan Calibration Pixel Gain Lo Errors	no. of faults RW	Fault Counter 62-463	NVMFaultCounter	shortNatural No	Fault Counter:62-463-00: IITCALSIDE1PXLGAINLOW ERRORCOUNT	1.813
620-632	Fault Counter 62-466: Side1 IIT/Scan Dark Range Rail Error	no. of faults RW	Fault Counter 62-466	NVMFaultCounter	shortNatural No	Fault Counter:62-466-00: IITSIDE1DARKRNGRAILER RORCOUNT	1.813
620-633	Fault Counter 62-467: Side1 IIT/Scan Gain Range Rail Error	no. of faults	Fault Counter 62-467	NVMFaultCounter	shortNatural No	Fault Counter:62-467-00: IITSIDE1GAINRNGRAILER RORCOUNT	1.813
620-634	Fault Counter 62-468: Side1 IIT/Scan Color State Errors	no. of faults	Fault Counter 62-468	NVMFaultCounter	shortNatural No	Fault Counter:62-468-00: IITSIDE1COLORSTATEER RORCOUNT	1.813
620-635	Fault Counter 62-476: Side1 IIT/Scan Stepper Home Error	no. of faults RW	Fault Counter 62-476	NVMFaultCounter	shortNatural No	Fault Counter:62-476-00:	1.813

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620-636	Fault Counter 62-481: Side1 IIT/Scan DADH Client Time Out	no. of faults	RW Fault Counter 62-481	NVMFaultCounter	shortNatural No	Fault Counter:62-481-00: 1	1.813
620-637	Fault Counter 62-486: Side1 IIT/Scan Supply 24 Volt Error	no. of faults	RW Fault Counter 62-486	NVMFaultCounter	shortNatural No	Fault Counter:62-486-00: IIT24VERRORCOUNT	1.813
620-638	Fault Counter 62-490: Side1 IIT/Scan Data Steerer Error - Taurus 1	no. of faults	RW Fault Counter 62-490	NVMFaultCounter	shortNatural No	Fault Counter:62-490-00: IITSIDE1DATASTEERERER RORCOUNT	1.813
620-639	Fault Counter 62-491: Side1 IIT/Scan Data Steerer Tx Error - Taurus 1	no. of faults	RW Fault Counter 62-491	NVMFaultCounter	shortNatural No	Fault Counter:62-491-00: IITSIDE1DATASTEERERTX ERRORCOUNT	1.813
620-640	Fault Counter 62-492: Side1 IIT/Scan video failure	no. of faults	RW Fault Counter 62-492	NVMFaultCounter	shortNatural No	Fault Counter:62-492-00: 1	1.643
620-641	Fault Counter 62-779: Side1 IIT/Scan FPGA not loaded	no. of faults	RW Fault Counter 62-779	NVMFaultCounter	shortNatural No	Fault Counter:62-779-00: 1 IITSIDE1FPGANOTLOADE DFAILCOUNT	1.813
620-642	Fault Counter 62-780: Side1 IIT/Scan FPGA CRC Error	no. of faults	RW Fault Counter 62-780	NVMFaultCounter	shortNatural No	Fault Counter:62-780-00: 1 IITSIDE1FPGACRCERROR COUNT	1.813
620-643	Fault Counter 62-781: Side1 IIT/Scan IIT Remote Nvm Out of Range	no. of faults	RW Fault Counter 62-781	NVMFaultCounter	shortNatural No	Fault Counter:62-781-00: 1 IITSIDE1REMOTENVMOUT OFRNGCOUNT	1.813
620-644	Fault Counter 62-782: Side1 IIT/Scan IIT Remote Nvm Read Timeout	no. of faults	RW Fault Counter 62-782	NVMFaultCounter	shortNatural No	Fault Counter:62-782-00: 1 IITSIDE1REMOTENVMRDTI MEOUTCOUNT	1.813
620-645	Fault Counter 62-783: Side1 IIT/Scan SPDH hotline error.	no. of faults	RW Fault Counter 62-783	NVMFaultCounter	shortNatural No	Fault Counter:62-783-00: 1 IITSIDE1SPDHHOTLINEER ROR	1.813
620-646	Fault Counter 62-784: Side1 IIT/Scan IIT Platen hotline error	no. of faults	RW Fault Counter 62-784	NVMFaultCounter	shortNatural No	Fault Counter:62-784-00: 1 IITSIDE1PLATENHOTLINE ERROR	1.813
620-647	Fault Counter 62-785: Side1 IIT/Scan Taurus 2 capability retry	no. of faults	RW Fault Counter 62-785	NVMFaultCounter	shortNatural No	Fault Counter:62-785-00: IITSIDE1TAURUS2CAPBLT YRETRYCOUNT	1.813
620-648	Fault Counter 62-786: Side1 IIT/Scan Taurus 2 capability timeout	no. of faults	RW Fault Counter 62-786	NVMFaultCounter	shortNatural No	Fault Counter:62-786-00: IITSIDE1TAURUS2CAPBLT YTIMEOUTCOUNT	1.813
620-649	Fault Counter 62-790: Side1 IIT/Scan Side 1 doorbell reject	no. of faults	RW Fault Counter 62-790	NVMFaultCounter	shortNatural No	Fault Counter:62-790-00: IITSIDE1DOORBELLREJE	1.773
620-650	Fault Counter 62-791: Side1 IIT/Scan Side 1 doorbell timeout	no. of faults	RW Fault Counter 62-791	NVMFaultCounter	shortNatural No	Fault Counter:62-791-00: IITSIDE1DOORBELLTIMEO UTCOUNT	1.813
620-651	Fault Counter 62-792: Side1 IIT/Scan Side 1 doorbell failure	no. of faults	RW Fault Counter 62-792	NVMFaultCounter	shortNatural No	Fault Counter:62-792-00: IITSIDE1DOORBELLFAILC	1.773
620-652	Fault Counter 66-396: Side2 IIT/Scan CIS 2 Communication failure	no. of faults	RW Fault Counter 66-396	NVMFaultCounter	shortNatural No	Fault Counter:66-396-00: IITCIS2COMMFAILCOUNT	1.772
620-653	Fault Counter 66-397: Side2 IIT/Scan CIS 2 Pixel clock missing	no. of faults	RW Fault Counter 66-397	NVMFaultCounter	shortNatural No	Fault Counter:66-397-00: IITCIS2PXLCLKMISSINGC	1.813
	Fault Counter 66-450: Side2 IIT/Scan Calibration Dark Range Not Clear	no. of faults	RW Fault Counter 66-450	NVMFaultCounter	shortNatural No	Fault Counter:66-450-00: IITSIDE2CALDARKRNGNO	1.813
620-655	Fault Counter 66-451: Side2 IIT/Scan Calibration Dark Range Not Done	no. of faults	RW Fault Counter 66-451	NVMFaultCounter	shortNatural No	Fault Counter:66-451-00: IITSIDE2CALDARKRNGNO	1.813
620-656	Fault Counter 66-452: Side2 IIT/Scan Calibration Pixel Offset Not Clear	no. of faults	RW Fault Counter 66-452	NVMFaultCounter	shortNatural No	Fault Counter:66-452-00: IITCALSIDE2PXLOFFSETN	1.813
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620-657	Fault Counter 66-453: Side2 IIT/Scan Calibration Pixel Offset Not Done	no. of faults	RW Fault Counter 66-453	NVMFaultCounter	shortNatural No	Fault Counter:66-453-00: 1.813	
620-658	Fault Counter 66-454: Side2 IIT/Scan Calibration Gain Range Not Clear	no. of faults	RW Fault Counter 66-454	NVMFaultCounter	shortNatural No	Fault Counter:66-454-00: 1.813 IITCALSIDE2GAINRNGNOT	
620-659	Fault Counter 66-455: Side2 IIT/Scan Calibration Gain Range Not Done	no. of faults	RW Fault Counter 66-455	NVMFaultCounter	shortNatural No	Fault Counter:66-455-00: 1.813 IITCALSIDE2GAINRNGNOT DONECOUNT	
620-660	Fault Counter 66-457: Side2 IIT/Scan Calibration Pixel Gain Not Done	no. of faults	RW Fault Counter 66-457	NVMFaultCounter	shortNatural No	Fault Counter:66-457-00: IITCALSIDE2PXLGAINNOT DONECOUNT	
620-661	Fault Counter 66-458: Side2 IIT/Scan Calibration Dark Range Errors	no. of faults	RW Fault Counter 66-458	NVMFaultCounter	shortNatural No	Fault Counter:66-458-00: 1.813	
620-662	Fault Counter 66-459: Side2 IIT/Scan Calibration Pixel Offset Hi Errors	no. of faults	RW Fault Counter 66-459	NVMFaultCounter	shortNatural No	Fault Counter:66-459-00: 1.813 IITCALSIDE2PXLOFFSETHI GHERRORCOUNT	
620-663	Fault Counter 66-460: Side2 IIT/Scan Calibration Pixel Offset Lo Errors	no. of faults	RW Fault Counter 66-460	NVMFaultCounter	shortNatural No	Fault Counter:66-460-00: 1.813	
620-664	Fault Counter 66-461: Side2 IIT/Scan Calibration Gain Range Errors	no. of faults	RW Fault Counter 66-461	NVMFaultCounter	shortNatural No	Fault Counter:66-461-00: 1.813 IITCALSIDE2GAINRNGERR ORCOUNT	
620-665	Fault Counter 66-462: Side2 IIT/Scan Calibration Pixel Gain Hi Errors	no. of faults	RW Fault Counter 66-462	NVMFaultCounter	shortNatural No	Fault Counter:66-462-00: IITCALSIDE2PXLGAINHIGH ERRORCOUNT	
620-666	Fault Counter 66-463: Side2 IIT/Scan Calibration Pixel Gain Lo Errors	no. of faults	RW Fault Counter 66-463	NVMFaultCounter	shortNatural No	Fault Counter:66-463-00: IITCALSIDE2PXLGAINLOW ERRORCOUNT	
620-667	Fault Counter 66-466: Side2 IIT/Scan Dark Range Rail Error	no. of faults	RW Fault Counter 66-466	NVMFaultCounter	shortNatural No	Fault Counter:66-466-00: IITSIDE2DARKRNGRAILER RORCOUNT	
620-668	Fault Counter 66-467: Side2 IIT/Scan Gain Range Rail Error	no. of faults	RW Fault Counter 66-467	NVMFaultCounter	shortNatural No	Fault Counter:66-467-00: IITSIDE2GAINRNGRAILER RORCOUNT	
620-669	Fault Counter 66-468: Side2 IIT/Scan Color State Errors	no. of faults	RW Fault Counter 66-468	NVMFaultCounter	shortNatural No	Fault Counter:66-468-00: IITSIDE2COLORSTATEER RORCOUNT	

Revised Update Reference Library

September 2023 XeroxVersaLink B415 Mono MFP 537



## Machine Log Book

602E91901

Customer Name and Address							
Seria	l Number	Insta	Install Date Contra				
Customer Nur	nber:		Equipment Num	nber:			
		Install A	ccessories				
Acc	cessory	Serial	Number	Date Ins	talled		
		Cont	act List	T			
N	lame	Tele	phone	Respons	sibility		

Date: Time:	Eng. No.: Name:	Type of Call:	
Meter 1	22	3	4
Problem/Ca	use/Solution		Parts Replaced
Notes:			
Date: Time:	Eng. No.: Name:	Type of Call:	
Meter 1	22	3	4
	use/Solution		Parts Replaced
Notes:			

Date: Time:	Eng. No.: Name:	Type of Call:	
Meter 1	22	34	
Problem/Ca	ause/Solution	Parts Replaced	
Notes:			
Date: Time:	Eng. No.: Name:	Type of Call:	
	Name:		
Time:  Meter 1	Name:		

Date: Time:	Eng. No.: Name:	Type of Call:	
Meter 1	22	34	
Problem/Ca	ause/Solution	Parts Replaced	
Notes:			
Date: Time:	Eng. No.: Name:	Type of Call:	
	Name:		
Time:  Meter 1	Name:		

Date: Time:	Eng. No.: Name:	Type of Call:	
Meter 1	22	34	
Problem/Ca	ause/Solution	Parts Replaced	
Notes:			
Date: Time:	Eng. No.: Name:	Type of Call:	
	Name:		
Time:  Meter 1	Name:		

Date: Time:	Eng. No.: Name:	Type of Call:	
Meter 1	22	34	
Problem/Ca	ause/Solution	Parts Replaced	
Notes:			
Date: Time:	Eng. No.: Name:	Type of Call:	
	Name:		
Time:  Meter 1	Name:		

Date: Time:	Eng. No.: Name:	Type of Call:	
Meter 1	22	34	
Problem/Ca	ause/Solution	Parts Replaced	
Notes:			
Date: Time:	Eng. No.: Name:	Type of Call:	
	Name:		
Time:  Meter 1	Name:		

Date: Time:	Eng. No.: Name:	Type of Call:	
Meter 1	22	34	
Problem/Ca	ause/Solution	Parts Replaced	
Notes:			
Date: Time:	Eng. No.: Name:	Type of Call:	
	Name:		
Time:  Meter 1	Name:		

Date: Time:	Eng. No.: Name:	Type of Call:	
Meter 1	22	34	
Problem/Ca	ause/Solution	Parts Replaced	
Notes:			
Date: Time:	Eng. No.: Name:	Type of Call:	
	Name:		
Time:  Meter 1	Name:		

Date: Time:	Eng. No.: Name:	Type of Call:	
Meter 1	22	34	
Problem/Ca	ause/Solution	Parts Replaced	
Notes:			
Date: Time:	Eng. No.: Name:	Type of Call:	
	Name:		
Time:  Meter 1	Name:		

Date: Time:	Eng. No.: Name:	Type of Call:	
Meter 1	22	34	
Problem/Ca	ause/Solution	Parts Replaced	
Notes:			
Date: Time:	Eng. No.: Name:	Type of Call:	
	Name:		
Time:  Meter 1	Name:		

Date: Time:	Eng. No.: Name:	Type of Call:	
Meter 1	22	34	
Problem/Ca	ause/Solution	Parts Replaced	
Notes:			
Date: Time:	Eng. No.: Name:	Type of Call:	
	Name:		
Time:  Meter 1	Name:		

Date: Time:	Eng. No.: Name:	Type of Call:	
Meter 1	22	34	
Problem/Ca	ause/Solution	Parts Replaced	
Notes:			
Date: Time:	Eng. No.: Name:	Type of Call:	
	Name:		
Time:  Meter 1	Name:		

Date: Time:	Eng. No.: Name:	Type of Call:	
Meter 1	22	34	
Problem/Ca	ause/Solution	Parts Replaced	
Notes:			
Date: Time:	Eng. No.: Name:	Type of Call:	
	Name:	Type of Call:	
Time:  Meter 1	Name:		

Date: Time:	Eng. No.: Name:	Type of Call:	
Meter 1	22	34	
Problem/Ca	ause/Solution	Parts Replaced	
Notes:			
Date: Time:	Eng. No.: Name:	Type of Call:	
	Name:	Type of Call:	
Time:  Meter 1	Name:		

# **Machine Tags**

							_						
01	02	03	04	05	06	07	80	09	10	11	12	13	14
15	16	17	18	19	20	21	22	23	24	25	26	27	28
29	30	31	32	33	34	35	36	37	38	39	40	41	42
43	44	45	46	47	48	49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80	81	82	83	84
85	86	87	88	89	90	91	92	93	94	95	96	97	98
99	100	101	102	103	104	105	106	107	108	109	110	111	112
113	114	115	116	117	118	119	120	121	122	123	124	125	126
127	128	129	130	131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150	151	152	153	154
155	156	157	158	159	160	161	162	163	164	165	166	167	168
169	170	171	172	173	174	175	176	177	178	179	180	181	182
183	184	185	186	187	188	189	190	191	192	193	194	195	196
197	198	199	200	201	202	203	204	205	206	207	208	209	210
211	212	213	214	215	216	217	218	219	220	221	222	223	224
225	226	227	228	229	230	231	232	233	234	235	236	237	238
239	240	241	242	243	244	245	246	247	248	249	250		

# **DADH Tags**

01	02	03	04	05	06	07	08	09	10	11	12	13	14
15	16	17	18	19	20	21	22	23	24	25	26	27	28
29	30	31	32	33	34	35	36	37	38	39	40	41	42
43	44	45	46	47	48	49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80	81	82	83	84
85	86	87	88	89	90	91	92	93	94	95	96	97	98
99	100												

# Finisher Tags

01	02	03	04	05	06	07	08	09	10	11	12	13	14
15	16	17	18	19	20	21	22	23	24	25	26	27	28
29	30	31	32	33	34	35	36	37	38	39	40	41	42
43	44	45	46	47	48	49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80	81	82	83	84
85	86	87	88	89	90	91	92	93	94	95	96	97	98
99	100												

# **Network Controller Tags**

01	02	03	04	05	06	07	80	09	10	11	12	13	14
15	16	17	18	19	20	21	22	23	24	25	26	27	28
29	30	31	32	33	34	35	36	37	38	39	40	41	42
43	44	45	46	47	48	49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80	81	82	83	84
85	86	87	88	89	90	91	92	93	94	95	96	97	98
99	100												

Revised Update Reference Library

September 2023 XeroxVersaLink B415 Mono MFP 558



# EHS 700 - Health & Safety Incident Report Form For Incidents Involving a Xerox Product

EH&S Incident Reference Number:

Fax:

E-mail:

	PIPEDA IS the Canadian Pe	ersonal information P	rotection and Elect	ronic Documents Act.				
	For incidents in the EU: Safe Harbour Complaint	☐ YES ☐ NO	)					
*Date Of Inci	dent (mm / dd / yyyy):							
Product D	escription							
*Model No. o	r Product Name:							
Product Ser	al Number:		Serial Number(s	s) of Accessory (ies):				
Installation [	Date:		Total Copy Meter	r:				
Date of lasts	service maintenance:							
List damage	d and affected part(s) of the ma	chine by descriptio	n and part number	r:				
	* <u>Description</u>		<u>Part Number</u>					
*Location of	product and affected part(s):							
	Identification							
*Customer N	ame:		*Name of Custon	mer Contact Person:				
*Address:		E-mail:		*Telephone:				

# **Individual Providing Notification**

\*Name (required for Xerox serviced equipment):

**Customer Service Engineer Identification** 

PIPEDA consent given

Location:

\*Title: \*Telephone Number \*Name \*Organization: E-Mail:

\*Phone (required for Xerox serviced equipment):

**Mailing Address:** \*Date Report Submitted:

Employee:

# CONFIDENTIAL

(When filled in)



EHS 700 - Health & Safety Incident Report Form for Incidents Involving a Xerox Product

Details of Incident
*Description Of Incident: (Check all that apply)
☐ Smoke
Describe quantity and duration of smoke:
☐ Fire with open flames seen
☐ Electric shock to operator or service representative
☐ Physical injury/illness to operator or service representative
Describe:
☐ Other, describe:
MANDATORY DESCRIPTION (above): Provide a detailed description of all valid factors that may have
contributed to the incident. Hardware involved in the incident should be preserved and retained for further
investigation should investigation be deemed necessary by EH&S.
LIST INCIDENT DESCRIPTIONS AND SUPPORT DIAGRAMS/DATA INCLUDED OR ATTACHED:
*Any damage to customer property? No  Yes  Describe:
*Did external emergency response provider(s) such as a fire department, ambulance, etc. respond?
No ☐ Yes ☐ Identify: (i.e., source, names of individuals)
Apparent cause of incident (identify part that is suspected to be responsible for the incident)
*Preliminary actions taken to mitigate incident:
Instructions: E-mail or fax both pages of this completed form to EH&S:
e-mail: usa.product.incident@xerox.com or fax 585-422-2249
e-man, usa.biouuci,iiiciueni.⊌ xeiox.com oi iax 5ŏ5-4∠2-∠∠49

\* Required information is preceded by asterisk, title shown in red with a tan wash background

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PART#: 705P01476

