# MP C307/C407

Machine Code: D296/D297/D298/D299

# Field Service Manual

**Ver 1.0** 

Latest Release: Nov, 2016

Initial Release: Nov, 2016

 $Copyright \ (c) \ 2016 \ Ricoh \ Co., Ltd.$ 

# **Important Safety Notices**

## Warnings, Cautions, Notes

In this manual, the following important symbols and notations are used.

## **MARNING**

 A Warning indicates a potentially hazardous situation. Failure to obey a Warning could result in death or serious injury.

### **ACAUTION**

• A Caution indicates a potentially hazardous situation. Failure to obey a Caution could result in minor or moderate injury or damage to the machine or other property.

## 

• Obey these guidelines to avoid problems such as misfeeds, damage to originals, loss of valuable data and to prevent damage to the machine.



• This information provides tips and advice about how to best service the machine.

# **General Safety Instructions**

For your safety, please read this manual carefully before you use this product. Keep this manual handy for future reference.

### **Safety Information**

Always obey the following safety precautions when using this product.

## **Safety During Operation**

In this manual, the following important symbols and notations are used.

[A]: ON

[B]: OFF

[C]: Push ON/Push OFF

[D]: Standby

## **Switches and Symbols**

Where symbols are used on or near switches on machines for Europe and other areas, the meaning of each symbol conforms with IEC60417.

### Safety

### Prevention of Physical Injury

- 1. Before disassembling or assembling parts of the machine and peripherals, make sure that the machine and peripheral power cords are unplugged.
- 2. The plug should be near the machine and easily accessible.
- 3. Note that some components of the machine and the paper tray unit are supplied with electrical voltage even if the main power switch is turned off.
- 4. Always unplug the power cord from the power source before you move the product. Before you move the machine, arrange the power cord so it will not fall under the machine.
- 5. Disconnect all peripheral units (finisher, LCT, etc.) from the mainframe before you move the machine.
- 6. If any adjustment or operation check has to be made with exterior covers off or open while the main switch is turned on, keep hands away from electrified or mechanically driven components.
- 7. The machine drives some of its components when it completes the warm-up period. Be careful to keep hands away from the mechanical and electrical components as the machine starts operation.
- 8. The inside and the metal parts of the fusing unit become extremely hot while the machine is operating. Be careful to avoid touching those components with your bare hands.
- 9. To prevent a fire or explosion, keep the machine away from flammable liquids, gases, and aerosols.
- 10. Do not use flammable sprays or solvent in the vicinity of the machine. Also, avoid placing these items in the vicinity of the machine. Doing so could result in fire or electric shock.
- 11. To avoid fire or explosion, never use an organic cleaner near any part that generates heat.
- 12. Clean the floor completely after accidental spillage of silicone oil or other materials to prevent slippery surfaces that could cause accidents leading to hand or leg injuries.
- 13. Never remove any safety device unless it requires replacement. Always replace safety devices immediately.
- 14. Never do any procedure that defeats the function of any safety device.
- 15. Modification or removal of a safety device (fuse, switch, etc.) could lead to a fire and personal injury. Always test the operation of the machine to ensure that it is operating normally and safely after removal and replacement of any safety device.
- 16. For replacements use only the correct fuses or circuit breakers rated for use with the machine. Using replacement devices not designed for use with the machine could lead to a fire and personal injuries.
- 17. For machines installed with the ADF/ARDF:
  - When a thick book or three-dimensional original is placed on the exposure glass and the ARDF cover is lowered, the back side of the ARDF rises up to accommodate the original. Therefore, when closing the ARDF, please be sure to keep your hands away from the hinges at the back of the ARDF.
- 18. When using a vacuum cleaner around the machine, keep others away from the cleaner, especially small children.
- 19. For machines installed with the anti-tip components:
  - The anti-tip components are necessary for meeting the requirements of IEC60950-1, the international standard for safety. The aim of these components is to prevent the products, which are heavy in weight, from

toppling as a result of people running into or leaning onto the products, which can lead to serious accidents such as persons becoming trapped under the product. (U.S.: UL60950-1, Europe: EN60950-1) Therefore, removal of such components must always be with the consent of the customer. Do not remove them at your own judgment.

20. NEVER touch the AC circuits on the PSU board to prevent electric shock caused by residual charge. Residual charge of about 100V-400V remains in the AC circuits on the PSU board for several months even when the board has been removed from the machine after turning off the machine power and unplugging the power cord.

### **Health Safety Conditions**

- 1. For the machines installed with the ozone filters:
  - Never operate the machine without the ozone filters installed.
  - Always replace the ozone filters with the specified types at the proper intervals.
- 2. The machine, which use high voltage power source, can generate ozone gas. High ozone density is harmful to human health. Therefore, locate the machine in a large well ventilated room that has an air turnover rate of more than 50m<sup>3</sup>/hr/person.
- 3. Toner and developer are non-toxic, but if you get either of them in your eyes by accident, it may cause temporary eye discomfort. Try to remove with eye drops or flush with water as first aid. If unsuccessful, get medical attention.

## Observance of Electrical Safety Standards

1. The machine and its peripherals must be installed and maintained by a customer service representative who has completed the training course on those models with exceptions on some machines where the installation can be handled by the user.

### Safety and Ecological Notes for Disposal

- 1. Do not incinerate toner bottles or used toner. Toner dust may ignite suddenly when exposed to an open flame.
- 2. Dispose of used toner, developer, organic photoconductors, and AIO unit in accordance with local regulations. (These are non-toxic supplies.)
- 3. Dispose of replaced parts in accordance with local regulations.
- 4. When keeping used lithium batteries in order to dispose of them later, do not put more than 100 batteries per sealed box. Storing larger numbers or not sealing them apart may lead to chemical reactions and heat build-up.
- 5. The danger of explosion exists if a battery of this type is incorrectly replaced. Replace only with the same or an equivalent type recommended by the manufacturer. Discard used batteries in accordance with the manufacturer's instructions.

### **Handling Toner**

- Work carefully when removing paper jams or replacing toner bottles or cartridges to avoid spilling toner on clothing or the hands.
- If toner is inhaled, immediately gargle with large amounts of cold water and move to a well-ventilated location. If there are signs of irritation or other problems, seek medical attention.
- If toner gets on the skin, wash immediately with soap and cold running water.

- If toner gets into the eyes, flush the eyes with cold running water or eye wash. If there are signs of irritation or other problems, seek medical attention.
- If toner is swallowed, drink a large amount of cold water to dilute the ingested toner. If there are signs of any problem, seek medical attention.
- If toner spills on clothing, wash the affected area immediately with soap and cold water. Never use hot water! Hot water can cause toner to set and permanently stain fabric.
- Always store toner and developer supplies such as toner and developer packages, cartridges, bottles (including used toner and empty bottles and cartridges), and AIO unit out of the reach of children.
- Always store fresh toner supplies or empty bottles or cartridges in a cool, dry location that is not exposed to direct sunlight.
- Do not use a vacuum cleaner to remove spilled toner (including used toner). Vacuumed toner may cause a fire or explosion due to sparks or electrical contact inside the cleaner. However, it is possible to use a cleaner designed to be dust explosion-proof. If toner is spilled over the floor, sweep up spilled toner slowly and clean up any remaining toner with a wet cloth.

### Handling the development unit cooling system

For the machines installed the development cooling system:

- 1. The development unit cooling system circulates propylene glycol from a sealed tank through hoses that pass behind cooling plates on the sides of each development unit.
- 2. The coolant tank is located at the bottom of the cooling box on the back of the main machine.
- 3. Always obey local laws and regulations if you need to dispose of a tank or the propylene glycol coolant.
- 4. The tank must never be emptied directly into a local drainage system, river, pond, or lake.
- 5. Contact a professional industrial waste disposal organization and ask them to dispose of the tank.

### Lithium Batteries for Taiwan

# 警告

本機器內的鋰電池如果更換不正確型號會有爆炸的危險。 只能使用相同或製造商推薦同等類型的電池進行更換。 請依製造商說明書處理用過之廢棄電池。

## Laser Safety

The Center for Devices and Radiological Health (CDRH) prohibits the repair of laser-based optical units in the field. The optical housing unit can only be repaired in a factory or at a location with the requisite equipment. The laser subsystem is replaceable in the field by a qualified Customer Engineer. The laser chassis is not repairable in the field. Customer engineers are therefore directed to return all chassis and laser subsystems to the factory or service depot when replacement of the optical subsystem is required.

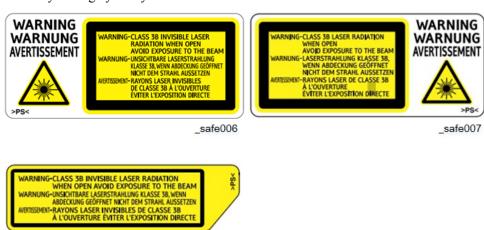
# **MARNING**

• Use of controls, or adjustment, or performance of procedures other than those specified in this manual may result in hazardous radiation exposure.

### WARNING FOR LASER UNIT

### **WARNING:**

Turn off the main switch before attempting any of the procedures in the Laser Unit section. Laser beams can seriously damage your eyes.



\_safe008

# Safety Instructions for the Color Controller

### Fuse

The color controller uses a double pole fuse. If this fuse blows, be sure to replace it with an identical fuse.

### **Batteries**

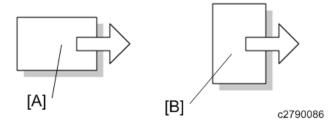
- 1. Always replace a battery with the same type of battery prescribed for use with the color controller unit. Replacing a battery with any type other than the one prescribed for use could cause an explosion.
- 2. Never discard used batteries by mixing them with other batteries or other refuse.
- 3. Always remove used batteries from the work site and dispose of them in accordance with local laws and regulations regarding the disposal of such items.

# Symbols, Abbreviations and Trademarks

# Symbols and Abbreviations

This manual uses several symbols and abbreviations. The meaning of those symbols and abbreviations are as follows:

Symbol	What it means
R	Clip ring
Opp.	Screw
<b>S</b>	Connector
	Clamp
<b>%</b>	E-ring
<b>\$</b> \$	Flat Flexible Cable
	Timing Belt
SEF	Short Edge Feed
LEF	Long Edge Feed
K	Black
С	Cyan
M	Magenta
Y	Yellow
B/W, BW	Black and White
FC	Full color



- [A] Short Edge Feed (SEF)
- [B] Long Edge Feed (LEF)

#### **Trademarks**

Adobe, Acrobat, PageMaker, PostScript, and PostScript 3 are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries.

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Ricoh Company, Ltd. is under license.

Firefox and Thunderbird are registered trademarks of the Mozilla Foundation.

Dropbox is a registered trademark or trademark of Dropbox, Inc.

Google, Android, Google Drive, and Chrome are trademarks of Google Inc.

Java is a registered trademark of Oracle and/or its affiliates.

JAWS® is a registered trademark of Freedom Scientific, Inc., St. Petersburg, Florida and/or other countries.

Kerberos is a trademark of the Massachusetts Institute of Technology (MIT).

Linux is a registered trademark of Linus Torvalds.

Macintosh, OS X, Bonjour, Safari, and TrueType are trademarks of Apple Inc., registered in the U.S. and other countries.

Microsoft, Windows, Windows Server, Windows Vista, Internet Explorer, Microsoft Edge, and Outlook are either registered trademarks or trademarks of Microsoft Corp. in the United States and/or other countries.

PictBridge is a trademark.

QR Code is a registered trademark of DENSO WAVE INCORPORATED in Japan and in other countries.

"Red Hat" is a registered trademark of Red Hat, Inc.

The SD and SD logo are trademarks of SD-3C, LLC.

UNIX is a registered trademark of The Open Group.

UPnP is a trademark of UPnP Implementers Corporation.



This product includes RSA BSAFE® Cryptographic software of EMC Corporation. RSA and BSAFE are registered trademarks or trademarks of EMC Corporation in the United States and other countries.

The proper names of Internet Explorer 9, 10, and 11 are as follows:

- Windows® Internet Explorer® 9
- Internet Explorer® 10
- Internet Explorer® 11

The proper names of the Windows operating systems are as follows:

• The product names of Windows Vista are as follows:

Microsoft® Windows Vista® Ultimate

Microsoft® Windows Vista® Business

Microsoft® Windows Vista® Home Premium

Microsoft® Windows Vista® Home Basic

Microsoft® Windows Vista® Enterprise

• The product names of Windows 7 are as follows:

Microsoft® Windows® 7 Home Premium

Microsoft® Windows® 7 Professional

Microsoft® Windows® 7 Ultimate

Microsoft® Windows® 7 Enterprise

• The product names of Windows 8 are as follows:

Microsoft® Windows® 8

Microsoft® Windows® 8 Pro

Microsoft® Windows® 8 Enterprise

• The product names of Windows 8.1 are as follows:

Microsoft® Windows® 8.1

Microsoft® Windows® 8.1 Pro

Microsoft® Windows® 8.1 Enterprise

• The product names of Windows 10 are as follows:

Microsoft® Windows® 10 Home Premium

Microsoft® Windows® 10 Pro

Microsoft® Windows® 10 Enterprise

Microsoft® Windows® 10 Education

• The product names of Windows Server 2008 are as follows:

Microsoft® Windows Server® 2008 Standard

Microsoft® Windows Server® 2008 Enterprise

• The product names of Windows Server 2008 R2 are as follows:

Microsoft® Windows Server® 2008 R2 Standard

Microsoft® Windows Server® 2008 R2 Enterprise

• The product names of Windows Server 2012 are as follows:

Microsoft® Windows Server® 2012 Foundation

Microsoft® Windows Server® 2012 Essentials

Microsoft® Windows Server® 2012 Standard

• The product names of Windows Server 2012 R2 are as follows:

Microsoft® Windows Server® 2012 R2 Foundation

Microsoft® Windows Server® 2012 R2 Essentials

Microsoft® Windows Server® 2012 R2 Standard

Other product names used herein are for identification purposes only and might be trademarks of their respective companies. We disclaim any and all rights to those marks.

Microsoft product screen shots reprinted with permission from Microsoft Corporation.

# Table of Contents

1. Product Information	12
Specifications	12
Machine Configuration	13
Main Unit	13
Controller Options	14
Machine Overview	16
Overview	16
Paper Path	17
Drive Layout	18
2. Installation	19
Installation Requirements	19
Environment	19
Machine Level	19
Machine Space Requirements	20
Machine Dimensions	20
Power Requirements	21
Mainframe Installation	23
Installation Flowchart.	23
Accessory Check	23
Installation Procedure.	26
Language Selection	43
Brand Plate, Decals	44
Settings Relevant to the Service Contract.	45
Transporting the Machine	49
Instructions for the Customers	50
Security Setting	51
Security Function Installation	51
Data Overwrite Sœurity	52
HDD Encryption	53
Paper Feed Unit PB1080 (D573-57), Paper Feed Unit PB1080TE (D573-13)	59
Accessory Check	59
Installation Procedure.	59
1-Bin Tray BN1030 (D574-58)	62
Accessory Check	62
Installation Procedure.	63
Optional Counter Interface Unit Type M12 (B870-21)	75
Accessory Check	75

Installation Procedure.	75
Anti-condensation Heater (Mainframe)	79
Accessory Check	79
Installation Procedure	79
Anti-condensation Heater (for Mainframe Paper Tray)	84
Accessory Check	84
Installation Procedure	85
Anti-condensation Heater (Optional Paper Feed Unit)	89
Accessory Check	89
Installation Procedure	91
Enhanced Security HDD Option Type M10 (D792-09)	101
Accessory Check	101
Installation Procedure	101
IC Card Reader (External Option)	105
Accessory Check	105
Installation Procedure	105
NFC Card Reader Type M13 (D3AC-21)	110
Accessory Check	110
Installation Procedure	111
Page Keeper Type M28 (D3DQ-17)	115
Accessory Check	115
Installation Procedure.	115
Controller Options	125
Overview	125
SD Card Appli Move	125
PostScript3 Unit Type M28 (D3E6-26, -27, -28)	129
Camera Direct Print Card Type M26 (D3D8-13)	
OCR Unit Type M13 (D3AC-23, -24, -25)	
XPS Direct Print Option Type M28 (D3E6-02, -19, -20)	
Data Overwrite Security Unit Type M19 (D3BS-03)	
File Format Converter Type M19 (D3BR-04)	
IEEE 1284 Interface Board Type M19 (D3C0-17)	
IEEE 802.11a/g/n Interface Unit Type M19 (D3BR-01)	
USB Device Server Option Type M19 (D3BC-28, -29)	
Extended USB Board Type M19 (D3BS-01)	
Check All Connections	
Preventive Maintenance	
Maintenance Tables	
PM/Yield Parts Settings	

Replacement Procedure of the PM/Yield Parts	153
After Installing the New PM Parts	157
Preparation before Operation Check	158
Operation Check	159
Replacement and Adjustment	160
Notes on the Main Power Switch	160
Push Switch	160
Beforehand	162
Special Tools	163
Image Adjustment	164
How to Use the Color Charts.	164
Scanning	169
ADF Adjustment	170
Registration	172
Erase Margin Adjustment	174
Color Registration	175
Printer Gamma Correction	175
Color Skew Adjustment.	180
Exterior Covers.	182
Front Cover	182
Upper Left Cover	183
Left Cover	183
Rear Cover	184
Right Rear Cover	184
Paper Exit Tray	184
Scanner Inner Cover	185
Ozone Filter	187
Operation Panel	188
Operation Panel.	188
Internal Parts.	191
ADF	192
ADF Unit	192
ADF Rear Cover	195
ADF Front Cover	196
Original Feed Unit	197
Pickup Roller, Feed Roller	198
ADF Friction Pad	200
ADF Relay Board	200
Top Cover Set Sensor Original Set Sensor	201

ADF Drive Motor	201
ADF Feed Clutch	202
ADF Registration Sensor	202
ADF Feed Sensor	203
CIS Unit	206
Scanner	212
Scanner Unit	212
Scanner Unit with the ADF	213
ADF Set Sensor.	217
Scanner Front Cover	219
Scanner HP Sensor	219
Scanner Motor	221
Scanner Carriage	223
Laser Optics	227
Caution Decal Location	227
Laser Units	227
LD Unit Cooling Fan	229
PCDU, Toner Supply	231
PCDU (Photo Conductor and Development Unit)	231
Toner Bottle Detection Board	232
Toner Supply Motors	233
Toner Transport Section	234
Waste Toner	237
Waste Toner Bottle	237
Waste Toner Full Sensor	238
Waste Toner Bottle Set Switch	238
Image/Paper Transfer	240
ITB (Image Transfer Belt) Unit	240
ITB Contact Motor	242
ITB Contact HP Sensor	243
ID Sensor	244
ID Sensor Shutter Solenoid	246
Paper Transfer Roller Unit	247
Drive	249
Overview	249
Development Motor (CMY)	249
Drum Motor (CMY)	
Drum Motor (K)	250
Development Clutch (K)	250

Drive Unit	251
Tray Lift Motor	252
Fusing Motor	253
Paper Transport Motor	254
Duplex Clutch, Bypass Feed Clutch, Registration Clutch, Paper Feed Clutch	255
Fusing	257
Fusing Unit.	257
Fusing Upper Cover	257
Fusing Lower Cover	258
Fusing Entrance Guide Plate	258
Fusing Thermostat	259
Fusing Thermistor (NC Sensor)	259
Fusing Pressure Roller Thermistors.	260
Pressure Roller	261
Fusing Sleeve Belt Assembly	261
Fusing Entrance Sensor	266
Fusing Exit Sensor	267
Fusing Thermopile	267
New Fusing Unit Detection Fuse	268
Actions When SC544-00 or SC554-00 Occurs.	269
Paper Feed	271
Paper Feed Roller, Friction Pad (Standard Tray).	271
Registration Sensor, Paper Feed Sensor	272
Tray Paper End Sensor.	274
Tray Lift Sensor	275
Draw-in Unit	275
Bypass	277
Bypass Tray	277
Bypass Feed Unit	278
Bypass Paper End Sensor	279
Bypass Paper Width Sensor	281
Bypass Feed Roller	283
Bypass Lift Sensor	288
Bypass Lift Clutch	289
Paper Exit	291
Paper Exit Unit	291
Paper Exit Sensor	291
Exit Junction Gate Solenoid	292
Paper Exit Clutch, Reverse Clutch.	293

Duplex	296
Duplex Unit	296
Duplex Entrance Sensor	300
Duplex Exit Sensor	301
Right Cover Switch.	303
Electrical Components	304
Electrical Components Overview	304
HDD	305
Controller Board.	306
BiCU	310
Controller Box	312
PSU (AC), PSU (DC)	316
AC Detection Board	319
Power Pack (Development)	319
Power Pack (Transfer)	320
PSU Fan	321
PCDU Cooling Fan	322
Fusing Fan	323
Temperature/Humidity Sensor	324
Image Creation Temperature Sensor.	324
Interlock Switches	325
DC Switch	326
5. System Maintenance	328
Service Program Mode	328
SP Tables	328
Firmware Update (SD Card)	329
Overview	329
Firmware Type	329
Procedure	331
Error Screens During Updating	334
Firmware Update (Remote Firmware Update)	340
RFU Performable Condition	340
Firmware Update (Smart Firmware Update)	341
Overview	341
Immediate Update	342
Update at the Next Visit (Reserve)	344
Update via SD card	350
Firmware Update (Auto Remote Firmware Update)	353
Overview	353

Downloading and Updating Process	354
Checking the ARFU Result	358
Checking the Result Using the Logging Data	358
Related SP	358
Updating JavaVM	362
Creating an SD Card for Updating	362
Capturing the Device Logs	365
Overview	365
Retrieving the Device Logs via Operation Panel	366
Retrieving the Device Logs via Web Image Monitor	369
NVRAM Data Upload/Download	373
Uploading Content of NVRAM to an SD card	373
Downloading an SD Card to NVRAM	374
Address Book Upload/Download	375
Information List	375
Download	375
Up load	376
SMC List Card Save Function	377
Overview	377
Procedure	377
File Names of the Saved SMC Lists	379
Error Messages	379
UP/SP Data Import/Export	381
UP Data Import/Export	381
SP Data Import/Export	383
Possible Solutions for Import/Export Problems	385
Test Pattern Printing	388
Card Save Function	389
Overview	389
Procedure	389
Error Messages	391
5. Troubleshooting	392
Self-Diagnostic Mode	392
Service Call Conditions	392
SC Logging	393
SC Automatic Reboot	393
SC Manual Reboot	395
SC1xx: Scanning	397
SC2xx: Exposure	404

When SC285-00 (MUSIC error) Is Displayed	408
SC3xx: Image Processing.	411
SC4xx: Image Processing.	417
SC5xx: Paper Feed and Fusing	420
SC6xx: Communication	434
SC7xx: Peripherals	446
SC8xx: Overall System.	447
SC9xx: Others	478
Process Control Error Conditions	483
Developer Initialization Result	483
Process Control Self-Check Result.	483
Line Position Adjustment Result.	486
Troubleshooting Guide	487
Line Position Adjustment	487
Problem at Regular Intervals	492
Blank Print	492
All-Black Print	492
Missing CMY Color	493
Light Print	493
Repeated Spots or Lines on Prints.	493
Dark Vertical Line on Prints.	494
White Horizontal Lines or Bands	494
Missing Parts of Images	494
Dirty Background	494
Partial CMY Color Dots	494
Dark Irregular Streaks on Prints	495
CMY Color Irregular Streaks	495
Ghosting	495
Unfused or Partially Fused Prints.	495
Image Skew	495
Background Stain	496
No Printing on Paper Edge.	496
Image Not Centered When It Should Be	496
Jam Detection.	497
Paper Jam History.	497
Jam Codes and Display Codes	497
Electrical Component Defects.	501
Sensors	501
Fuse Location	503

Other Troubleshooting.	505
When You Cannot Open the Right Door	505
When Fluorescent or LED Lamps Flicker	507
When Abnormal Noise Occurs	508
7. Detailed Descriptions	511
Differences between MP C307/C407 and C306/C406	511
ADF Unit	514
Overview	514
Original Transport Drive	515
Original Set Detection	515
Original Transport Path	516
Double-feed Detection (Optional)	518
Scanner Unit	520
Overview	520
Light Source and Exposure.	520
Scanner Carriage Drive	521
Improved Tolerance to Black Lines When Paper Passes through ADF	522
Laser Unit	524
Overview	524
Laser Synchronizing System	525
Line Scanning Mechanism.	526
Image Skew Adjustment	526
Dust Shield Glass	527
LD Safety Switch	527
PCDU	529
Overview	529
OPC Drum.	530
Development Unit	532
Drum/Development Drive	533
Toner Supply Section	534
Overview	534
Toner Supply and Transport Mechanism.	535
Toner Bottle Set Sensor Mechanism.	536
Toner Near End and Toner End	536
Toner Supply Unit	537
ID Chip	537
Waste Toner Collection	539
Waste Toner Transport Mechanism.	539
Waste Toner Collection Mechanism	540

Waste Toner Full Detection	540
ITB/ Paper Transfer	542
Overview	542
Differences from the Predecessor Models	542
Transfer Movement and Image Transport	543
Transfer Bias	544
ITB Contact	545
ITB Cleaning	546
Image Position Correction	546
Process Control and MUSIC	547
Process Control	547
MUSIC	553
Fusing	555
Overview	555
Fusing Mechanism.	556
Fusing Temperature Control	557
Fusing Drive	557
Paper Feed and Registration	560
Overview	560
Paper Feed, Registration, and Bypass Feed Drive.	560
Tray Lift Mechanism	561
Bypass Tray Bottom Plate Lift Mechanism	562
Paper Size Detection and Paper End Detection	563
Tray Auto-close Mechanism	563
Paper Exit and Inverter	565
Overview	565
Paper Exit Operation	565
Inverter Operation	566
Duplex	567
Overview	567
Duplex Mechanism	568
Interleaving	569
Electrical Parts.	570
Block Diagram	570
Board Outline	570
Machine Ventilation	572
Overview	572
Machine Ventilation	572
Operation Panel	574

Energy Save	575
Energy Saver Modes	575
Power States of this Machine	577
Verification of Up Time for each Energy Saving State	579
Checking the Up time by Device State	579
Recommendation	580
Paper Feed Unit PB1080/PB1080TE (Optional)	581
Overview	581
Paper Transport Drive	583
Sensors and Friction Pad	584
Tray Lifting up Mechanism.	585
Preventing Theft of Paper (Only PB1080TE)	585
1 Bin Tray BN1030 (Optional)	587
Overview	587
Electrical Components	587
Paper Exit from 1-Bin Tray Unit	588

# 1. Product Information

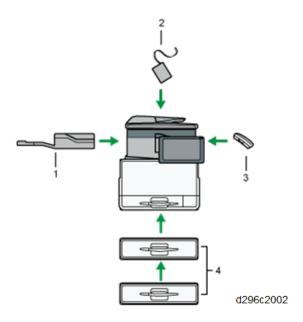
# **Specifications**

See "Appendices" for the following information:

- Specifications
- Supported Paper Sizes
- Software Accessories
- Optional Equipment

# **Machine Configuration**

# Main Unit

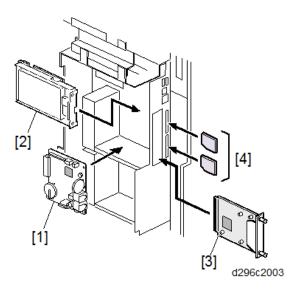




• NA = North America, EU = Europe, AA = Asia-Pacific, CHN = China, TWN = Taiwan, KOR = Korea

Item	Machine Code	Remarks	New Option?
Mainframe	D298	D298 MP C307SP for EU/AA	
	D297	MP C307SPF for NA/EU/AA/TWN	-
	D299	MP C407SP for AA/CHN/KOR	-
	D296	MP C407SPF for NA/EU/AA/TWN	-
1 Bin Tray BN1030 [1]	D574	-	Yes
Page Keeper Type M28 [2]	D3DQ	Only for NA/EU	Yes
Handset Type C5502 [3]	D645	Only for NA	No
		Requires the Fax Option.	
Paper Feed Unit PB1080 [4]	D573	Up to 2 can be stacked	No
Paper Feed Unit PB1080TE [4]	D573	Only for NA	Yes

# Controller Options



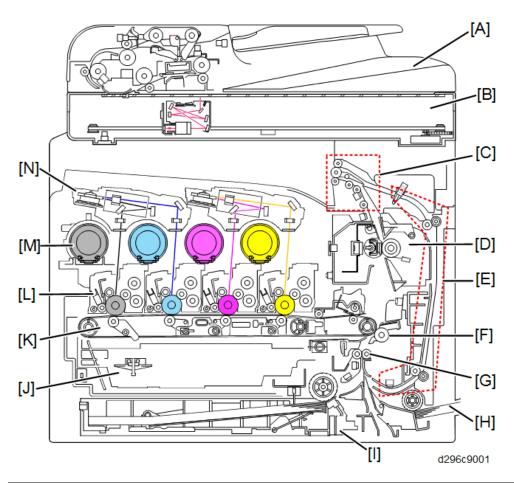
Item	Machine Code	Remarks	New Option?
Fax Option Type M28	D3E7-02 (EU,	Standard: NA, TWN	Yes
[1]	AA,KOR)	Option: EU, AA, CHN, KOR	
	D3E7-03		
	(CHN)		
Fax Connection Unit	D3E7-00	Only for machines equipped with a fax unit.	Yes
Type M28			
Enhanced Security HDD	D792-09 (NA,	-	No
Option Type M10 [2]	EU)		
IEEE1284 Interface	D3C0-17	One from these cards can be installed at the same	No
Board Type M19 [3]		time.	
IEEE 802.11a/g/n	D3BR-01 (NA,		No
Interface Unit Type M19	EU, AA)		
[3]			
File Format Converter	D3BR-04		No
Type M19 [3]			
USB Device Server	D3BC-28 (NA)		No
Option Type M19 [3]	D3BC-29 (EU,		
	AA, KOR)		
Extended USB Board	D3BS-01		No
Type M19 [3]			
Camera Direct Print	D3D8-13	If multiple applications are required, merge all	No
Card Type M26 [4]		applications into one SD card with the SP mode.	
XPS Direct Print Option	D3E6-02 (NA)	(SD Card Appli Move)	Yes

## 1.Product Information

Item	Machine Code	Remarks	New
			Option?
Type M28 [4]	D3E6-19 (EU)		
	D3E6-20		
	(Other)		
PostScript3 Unit Type	D3E6-26 (NA)		Yes
M28 [4]	D3E6-27 (EU)		
	D3E6-28		
	(Other)		
OCR Unit Type M13 [4]	D3AC-23 (NA)		No
	D3AC-24 (EU)		
	D3AC-25		
	(Other)		
Data Overwrite Security	D3BS-03		No
Unit Type M19			
NFC Card Reader Type	D3AC-21	-	No
M13			

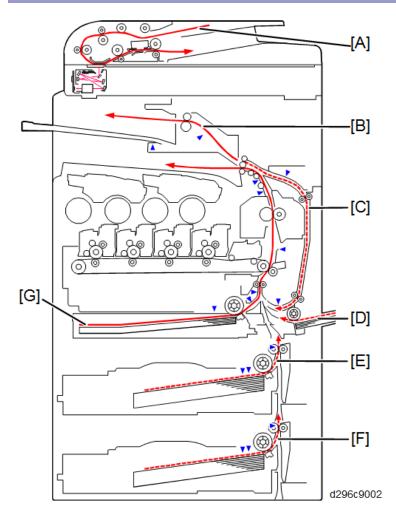
# **Machine Overview**

# Overview



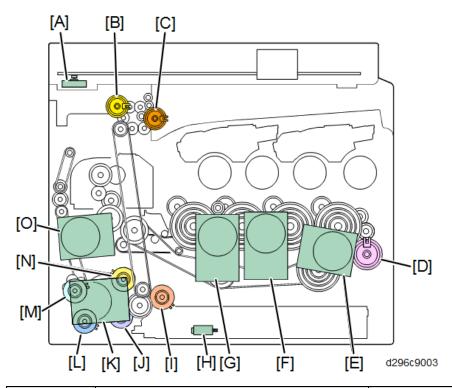
Callout	Item	Callout	Item
[A]	ADF	[H]	Bypass feed tray
[B]	Scanner unit	[I]	Paper feed tray
[C]	Paper exit unit	[J]	Waste toner bottle
[D]	Fusing unit	[K]	ITB unit
[E]	Duplex unit	[L]	PCDU
[F]	Paper transfer roller	[M]	Toner bottle
[G]	Registration roller	[N]	Laser unit

# Paper Path



Callout	Item	Callout	Item
[A]	ADF transport path	[E]	Optional paper feed unit path (1st)
[B]	1-Bin tray path	[F]	Optional paper feed unit path (2nd)
[C]	Duplex paper transport path	[G]	Standard paper tray path
[D]	Bypass paper feed path		

# Drive Layout

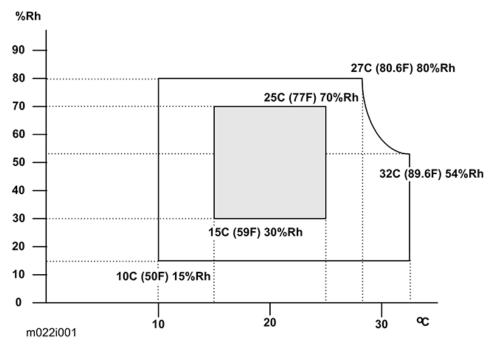


Callout	Item	Callout	Item
[A]	Scanner motor	[I]	Paper feed clutch
[B]	Paper exit clutch	[J]	Bypass lift clutch
[C]	Reverse clutch	[K]	Transport motor
[D]	Development clutch (K)	[L]	Bypass feed clutch
[E]	Drum motor (K)	[M]	Duplex clutch
[F]	Drum motor (CMY)	[N]	Registration clutch
[G]	Development motor (CMY)	[O]	Fusing motor
[H]	Tray lift motor		

# 2. Installation

# **Installation Requirements**

#### Environment



- 1. Temperature Range: 10°C to 32°C (50°F to 89.6°F)
- 2. Humidity Range: 15% to 80% RH
- 3. Ambient Illumination: Less than 1500 lux (do not expose to direct sunlight)
- 4. Ventilation: 3 times/hr/person or more
- 5. Do not let the machine get exposed to the following:
  - 1) Cool air from an air conditioner
  - 2) Heat from a heater
- 6. Do not install the machine in areas that are exposed to corrosive gas.
- 7. Do not install the machine at any location over 2,000 m (6,500 ft.) above sea level. [NA: Can be installed up to 2,500m (8,202 ft.)]
- 8. Install the machine on a strong, level base. (Inclination on any side must be no more than 5 mm.)
- 9. Do not install the machine in areas that get strong vibrations.

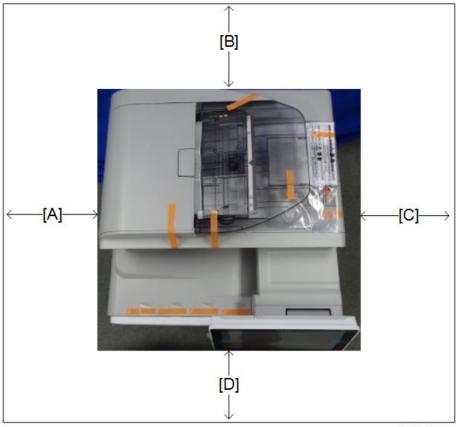
# Machine Level

Front to back: Within 5 mm (0.2") Right to left: Within 5 mm (0.2")

# Machine Space Requirements

# **A**CAUTION

• This machine, which uses high voltage power sources, can generate ozone gas. High ozone density is harmful to human health. Therefore, the machine must be installed in a well-ventilated room.



d196z2355

A: Over 70 mm (2.8") (Base machine) / 120 mm (4.7") (with 1-Bin tray unit)

B: Over 100 mm (3.9")

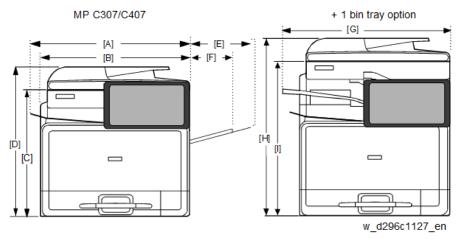
C: Over 402 mm (15.8")

D: Over 420 mm (16.5")

Put the machine near the power source with the clearance shown above.

## Machine Dimensions

W×D×H:  $498 \times 585 \times 510$  mm  $(19.6" \times 23.0" \times 20.1")$ 



Callout	mm (inch)	Callout	mm (inch)
[A]	546.2 mm (approx. 21.5")	[F]	210 mm (approx. 8.3")
[B]	498 mm (approx. 19.6")	[G]	554 mm (approx. 21.8")
[C]	425 mm (approx. 16.7")	[H]	595 mm (approx. 23.4")
[D]	510 mm (approx. 20.1")	[I]	510 mm (approx. 20.1")
[E]	280 mm (approx. 11.0")		

		Callout	mm (inch)	Note
_		[A]	808 mm	With 1 Bin Tray Unit
			(approx. 31.8")	
-	[B]	[B]	893 mm	[A] + ADF
[A]			(approx. 35.2")	
A		[C]	149 mm	Paper Feed Unit
			(approx. 5.9")	
	rg rg			
	d196z2061			

# Power Requirements

# **ACAUTION**

- Insert the plug firmly into the outlet.
- Do not use an outlet extension plug or cord.
- Ground the machine.
- 1. Input voltage level:
  - 110 V, 60 Hz More than 11 A
  - 120 to 127 V, 60 Hz: More than 11 A
  - 220 V to 240 V, 50 Hz/60 Hz: More than 5.5 A
- 2. Permissible voltage fluctuation:

## 2.Installation

NA: 108 V (120 V-10%) – 138 V (127 V+8.66 %)

EU/AA: 198 V (220 V-10%) – 264 V (240 V+10 %)

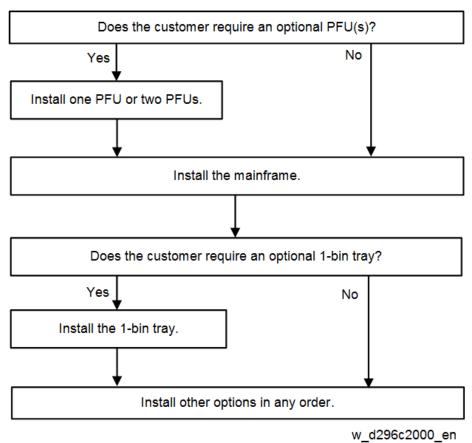
Taiwan: 99 V (110 V -10%) – 121 V (110 V + 10%)

3. Do not put things on the power cord.

# Mainframe Installation

# Installation Flowchart

This flowchart shows the best procedure for installation.

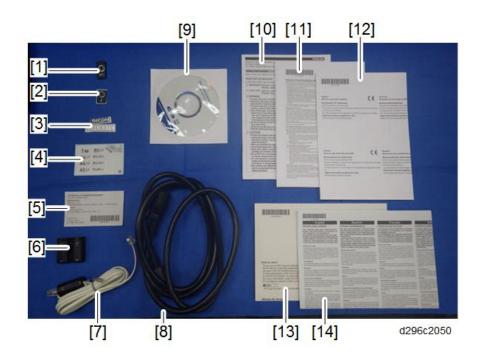


\_\_\_\_\_

# Accessory Check

# For D296/D297

Check the quantity and condition of these accessories.



# Component List

No.	Description Remark			(	)'ty	
			NA	EU	AA	TWN
1	NFC Tag	To be attached to the device.	1	1	1	1
2	Decal – Bluetooth		1	1	1	1
3	Decal – Emblem	For the front cover and	2	2	2	-
		operation panel				
4	Decal – Paper Tray		1	1	1	1
5	CE Marking Traceability Information	Only for EU	-	1	-	-
6	Ferrite Core		-	1	1	1
7	Modular Cord with Ferrite Core		1	-	-	-
8	Power Supply Cord		1	1	1	1
9	CD-ROM (Printer and Scanner Drivers)		1	1	1	-
	CD-ROM (Operating Instructions)		-	-	1	-
	CD-ROM (Printer and Scanner Drivers/		-	-	-	1
	Operating Instructions)					
10	Safety Information	Only for EU	-	1	-	-
11	Note to Using This Machine Safely		1	1	1	1
12	Note to Users in EU Countries		-	1	-	-
	Note to Users in the USA		1	-	-	-
	Note to Users in Canada		1	-	-	-
13	Notes to Users (NFC Tag Leaflet)	Regarding the installation of	1	1	1	1
		the NFC tag.				
14	Software License Agreement		1	1	1	1

No.	Description	Remark	Q'ty			
			NA	EU	AA	TWN
-	Notes For Users	For printing with AirPrint	1	-	1	1
-	For Users of This Product	Before using the wireless	1	-	1	-
		function				
-	Manual: Read This First		1	ı	1	1
-	Manual: Start Guide		1	ı	1	-



An NFC tag is required for connecting this machine to an Android smart device that has the Ricoh
Smart Device Connector application installed. Give this NFC tag to the customer so that they can attach
it to the machine. Where the tag should be attached and how to set it up for using the smart-device
application are described in the help guide within the application. The setup procedure should be
performed by the customer.

# For D298/D299

Check the quantity and condition of these accessories.



# Component List

No.	Description	Remark	Q'ty		
			EU	AA	CHN
1	NFC Tag	To be attached to the device.	1	1	1
2	Decal – Bluetooth		1	1	1
3	Decal – Emblem	For the front cover and operation	2	2	-

No.	Description	Remark	Q'ty		
			EU	AA	CHN
		panel			
4	Decal – Paper Tray		1	1	1
5	CE Marking Traceability Information	For EU only	1	-	-
6	Power Supply Cord		1	1	1
7	CD-ROM (Printer and Scanner Drivers)		1	1	-
	CD-ROM (Operating Instructions)		-	1	-
	CD-ROM (Printer and Scanner Drivers/		-	-	1
	Operating Instructions)				
8	Safety Information	For EU only	1	-	-
9	Notes for Using This Machine Safely		1	1	1
10	Note to Users in EU Countries		1	-	-
11	Notes to Users (NFC Tag Leaflet)	Regarding the installation of the	1	1	1
		NFC tag.			
12	Software License Agreement		1	1	1
-	Notes For Users	For printing with AirPrint	-	1	1
-	For Users of This Product	Before using the wireless	-	1	-
		function			
-	Sheet - TEL		-	-	1
_	Manual: Read This First		-	1	1
-	Manual: Start Guide		-	1	-



• An NFC tag is required for connecting this machine to an Android smart device that has the Ricoh Smart Device Connector application installed. Give this NFC tag to the customer so that they can attach it to the machine. Where the tag should be attached and how to set it up for using the smart-device application are described in the help guide within the application. The setup procedure should be performed by the customer.

#### Installation Procedure

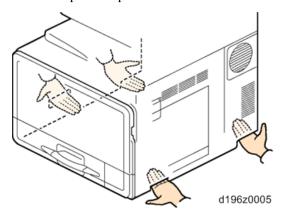
Put the machine on the optional paper tray unit first if you install an optional paper feed unit at the same time. Then install the machine and other options.



• Keep the shipping retainers after you install the machine. You may need them in the future if you transport the machine to another location.

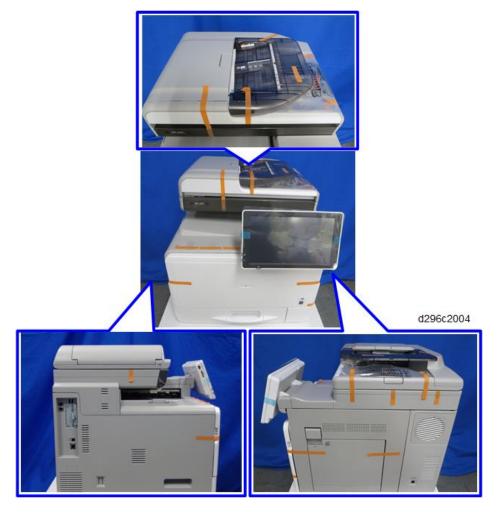
# **ACAUTION**

• Hold the specified positions as shown below when lifting the machine up or down.



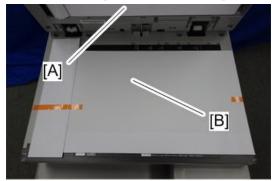
Tapes, Retainers and Toner Bottles

**1.** Remove the tapes and the retainers from the machine.



- **2.** Do the following steps:
  - Open the ADF cover [A].

• Remove all the tapes and the retainer (protective paper) [B] from the exposure glass.



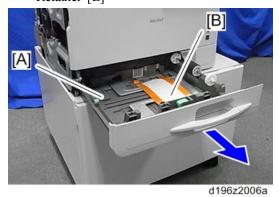
d196z2003

**3.** Remove the sheet [A] inside the ADF.



d196z2011

- **4.** Remove the following items:
  - Paper tray [A]
  - Retainer [B]



28

# **<u>5.</u>** Open the front door [A].

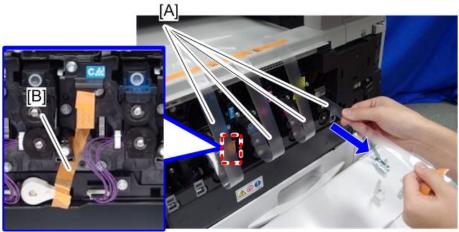


d196z2004

**<u>6.</u>** Pull out all protection seals [A] on the drums straight out towards the front.



• Do not remove the orange tape [B] at this time.



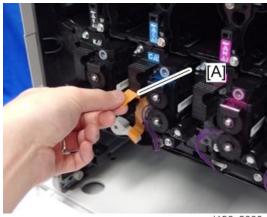
d196z2005

7. Remove the waste toner bottle [A].



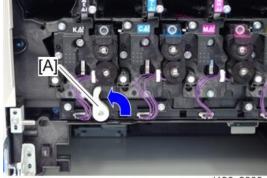
d196z2007

**8.** Remove the orange tape [A] attached to the lever.



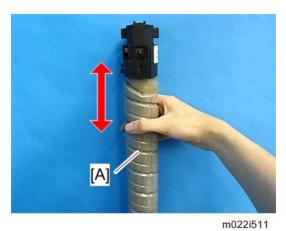
d196z2008

**9.** Set the lever [A] to the upright position.



d196z2009

- $\underline{10}$ . Attach the waste toner bottle.
- 11. Shake each toner bottle [A] from eight to ten times.



30

**12.** Install each toner bottle [A] in the machine.



d196z2010

- **13.** Close the front door.
- **14.** Connect the power cord to the machine.
- **15.** Attach the paper tray.
- 16. Connect the network cable, if the client IP addresses are automatically provided through a system such as DHCP in the network settings. If a static IP address is provided to the client machines, contact the customer (network administrator) to determine the appropriate timing for connecting the network cable.
- 17. Turn ON the main power.
- **18.** The machine starts the initial settings automatically.



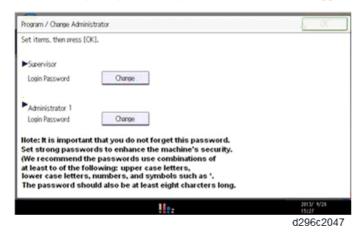
• A message "Turn the main power switch off then on" may appear during the initial settings. However, **DO NOT** switch off the main power until the machine finishes the initial settings and emits a beep sound. It takes about five minutes to finish the initial settings.

#### Important Notice on Security Issues

In order to increase the security of the MFP, and to ensure that the customer sets the administrator password, an administrator set/change prompt display appears at the first power-up.

#### Overview

The following Program/Change Administrator screen appears at the first power-up.



When the customers set the administrator/supervisor login password, the screen disappears and the home display appears. The customers, however, can erase this screen with the following procedure if they think there is no need

to set the password.

- **1.** On the Program/Change Administrator screen, press [Change] next to Supervisor and then touch [OK] without entering any password.
- 2. Touch [OK] again when the Confirm password display appears.
- **3.** For Administrator 1, do the same procedure as steps 1 and 2.
- **4.** Press [OK], then the home display appears.
- 5. Turn the main power OFF and ON.

SP5-755-002 allows you to skip this screen temporarily and continue the installation procedure without setting an administrator password. However, the Program/Change Administrator screen appears every time you turn the power OFF/ON, if the password is not set.

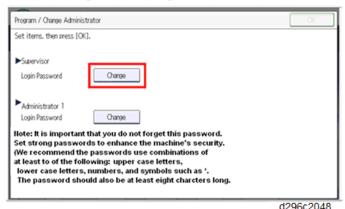
#### **Password Setting Procedure**



• For more details about this security issue, see "Notes on Using Multi-Function Printers Safely" supplied with the MFP.

#### **CAUTION**

- When Supervisor / Administrator 1-4 passwords are configured via network, the "Change Supervisor login password" window will not display.
- The passwords for Supervisor or Administrator 1 to 4 can be set via "System Settings". But the Program/Change Administrator screen appears every time the power switch is turned ON if the passwords are input this way. So we recommend the customers to set the passwords via network or the Program/Change Administrator screen.
- 1. Install the MFP.
- 2. Turn ON the main power.
- **3.** Change the Supervisor login password.



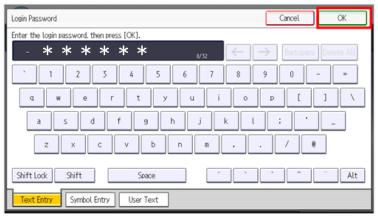
32

# **4.** Enter a password.



d176f2102

# **5.** Press [OK].



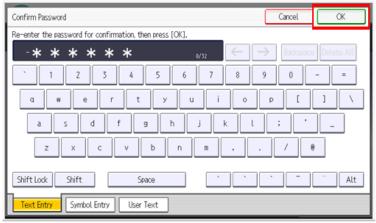
d176f2103

# **6.** Confirm the Password.



d176f2104

# **7.** Press [OK].



d176f2105

**<u>8.</u>** Change the Administrator 1 login password.

Program / Change Adn	Program / Change Administrator					
Set items, then press	[OK].					
►Supervisor Login Password	Change					
Administrator 1 Login Password	Change					
Set strong passi (We recommend at least to of the lower case lette	ant that you do not forget this password. words to enhance the machine's security. the passwords use combinations of following: upper case letters, ers, numbers, and symbols such as '. should also be at least eight charcters long.					

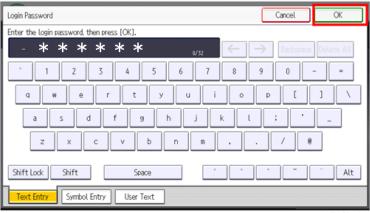
d296c2049

**9.** Enter the password.



d176f2102

#### **10.** Press [OK].



d176f2103

# 11. Confirm the password.



d176f2104

# **12.** Press [OK].



d176f2105

13. If necessary, set "Admin. Authentication" ON.

[User Tools] -> [Machine Features] -> [System Settings] -> [Administrator Tools] -> [Administrator Authentication Management] -> [Admin. Authentication]

If this setting is OFF, [Login] for administrators is not displayed on the operation panel.

14. Turn the main power OFF and ON.

#### Checking the Image Quality

#### **Checking Paper Setting**

Do the following procedure after installing all the options.

- 1. Check that all tapes are removed. Then connect the power plug into the wall socket.
- 2. Pull out the paper feed tray [A] until it stops.



d196z2006

- **3.** Release the side fence.
- **4.** Load paper into the paper feed tray.
- **5.** Set the side fence according to the paper size while pressing the unlock lever.



- To move the fences, first pull out the tray fully. Then push down the green lock at the front inside the tray.
- **6.** Set the end fence according to the paper size while pressing the unlock lever.
- 7. Set SP5-131 to set paper size for the main paper tray.
- **8.** Adjust the registration setting for paper trays.

SP1-002-001 (Side-to-Side Registration By-pass Table)

SP1-002-002 (Side-to-Side Registration Paper Tray 1)

SP1-002-005 (Side-to-Side Registration Duplex)



- Refer to the "Image Adjustment" section in this manual for how to adjust the SP setting.
- If one or more optional paper trays is installed, do the following SPs as well:

SP1-002-003 (Side-to-Side Registration Paper Tray 2)

SP1-002-004 (Side-to-Side Registration Paper Tray 3)

#### **Executing the Automatic Color Calibration (ACC)**



- Be sure to do this procedure when installing the mainframe.
- Do not open the ADF while ACC is running.
- Settings must be made before you can login as Administrator. (Refer to "Before You Begin the Procedure".)
- **1.** Login as Administrator.
- **2.** Press [User Tools] icon on the operation panel.
- **3.** Press [Machine Features].

- 4. Press [Maintenance].
- **5.** Press [Auto Color Calibration]
- **6.** Press [Start] for the Copier function.
- 7. Press [Start Printing].
- **8.** Take the sheet that was just printed, and put it on the exposure glass. Press [Start Scanning].
- **9.** Do the same procedure for the Printer function.



• Be sure to check the four resolution-based items for the printer function.

## **Checking the Copy Image with Test chart**

Check the copy image quality with a test chart.

For SP models, check that the printer can print out in the customer's environment. For SPF models, check that the fax can output a received image as well.

#### Color SkewAdjustment

The skew adjustment of this machine should be performed manually.

The adjustment procedure is as follows:

- 1. Execute 'MUSIC' (SP2-111-002) and check the result for each color with the following SPs.
  - SP2-117-004 (K)
  - SP2-117-002 (C)
  - SP2-117-001 (M)
  - SP2-117-003 (Y)
- 2. The color skew adjustment (Color Skew Adjustment) should be executed if one or more of the above SP values is not within ±5. No skew adjustment is required if all SP values are within ±5.

#### Auto Remote Firmware Update (ARFU) Settings

Specify ARFU settings as required.



#### **Operating Conditions:**

- ARFU requires connection to the Internet. Be sure to get permission from the customer before setting ARFU up. Otherwise, it may cause an incident.
- ARFU is available only for machines that contain a HDD. If the machine does not have a HDD, an
  option HDD must be installed.



• The connection is one-way, so the user's data cannot be accessed from the firmware server.

#### **Procedure:**

- 1. ARFU enable setting
- 2 Server connection check
- 3. Prohibited date and time setting

#### (1) Enable ARFU

- 1. Set SP5-886-111 (Auto Update Setting) to "1 (ON)".
  - 1: ON / 0: OFF (Default)

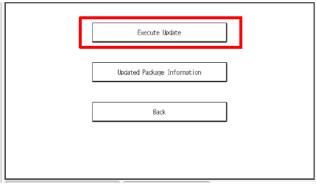


To download the firmware only using SFU (Smart Firmware Update), and not by ARFU, specify the settings as follows:

- SP5-886-111(Auto Update Setting) to "0 (OFF)"
- SP5-886-115 (SFU Auto Download Setting) to "1 (ON)"

#### (2) Server connection check

- **1.** Enter the SP mode.
- **2.** Press [Firmware update] > [Update] > [Execute update].



d238m0986e

3. Check if one of the following messages appears: "Will you download the latest package Ver \*\*\* and update?" or "The installed package is the latest version.".

If the message appears, it is possible to execute ARFU. Press "No" and close SP mode to complete the configuration.



The update will run immediately if you press "Yes" at the message "Will you download the latest package Ver \*\*\* and update?" The update cannot be canceled if it is run by SFU. (The update can be canceled if ARFU is used.)



SP5-886-116 (Auto Update Prohibit Term Setting) displays the scheduled date and time of the next ARFU. If error code 71: [Network connection error] appears when you click "Execute update", see troubleshooting below.

#### (3) Prohibited date and time setting

Ask the customer for the prohibited times and days of the week for ARFU execution and set the following as needed. The default prohibited time is from 9 a.m. to 5 p.m. and there is no prohibited day.

- SP5-886-112 (Auto Update Prohibit Term Setting) Default: 1 (ON)
- SP5-886-113 (Auto Update Prohibit Start hour) Default: 9

- SP5-886-114 (Auto Update Prohibit End hour) Default: 17
- SP5-886-120 (Auto Update Prohibit Day Of Week Setting) Default: 00000000 [00H] Set the bits for the days of the week to prohibit updating.

Prohibited (Monday - Sunday): bit 7, Monday: bit 6, Tuesday: bit 5

Wednesday: bit 4, Thursday: bit 3, Friday: bit 2, Saturday: bit 1, Sunday: bit 0

e.g.) Prohibited on Mon., Fri., Sat., and Sun.: 01000111 [47H]



They can be specified also via Web Image Monitor if logged in as the machine administrator from the device if SP5-886-111(Auto Update Setting) is set to "1 (ON)". For details, see Specifying the Time and Day of the Week to Prohibit Updating via Web Image Monitor.

## Troubles hooting: If error code 71: [Network connection error] appears

If error code 71: [Network connection error] appears when you click [Firmware update] > [Update] > [Execute update] in SP mode, check the following.

- 4-1. IPv4 address, Subnet mask of the machine and Gateway IPv4 address
- 4-2. IPv4 address of the DNS server
- 4-3. Proxy server settings
- 4-4. Encryption level setting SP

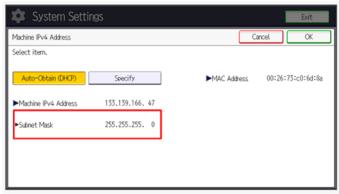
#### 4-1. IPv4 address, Subnet mask of the machine and Gateway IPv4 address

Check the machine's IPv4 address, subnet mask, and gateway IPv4 address.

(In User Tools > Machine Features > System Settings > Interface Settings)



m0ajm0330



m0ajm0331

#### 4-2. IPv4 address of the DNS server

Check the DNS IPv4 address and check the connection.

(In User Tools > Machine Features > System Settings > Interface Settings > DNS configuration)



m0ajm0333



How to find the IP address:

Ask the customer to tell you the IP address of the DNS server. If the customer does not know it, ask the customer to check the IP address by one of the following ways:

- 1. Run "ipconfig / all" at the command prompt on the computer, then check the IP address of the DNS server.
- 2. Open the IPv4 properties dialog box on the computer, then check whether the IP address setting of the DNS server is manual or automatic.
  - If the setting of the DNS IP address is automatic, select [Auto-Obtain (DHCP)] at the MFP machine's DNS settings.
  - If the setting of the DNS IP address is manual, select [Specify] and specify the DNS server 1 to 3.
  - Press [Connection Test] to check the connection with the input address. Make sure that it is connected successfully.



m0ajm0332

#### 4-3. Proxy server settings

Check the user's network environment and, as required, specify the proxy server settings in the following SPs:

- SP5-816-062 (Use Proxy)
  - 1: Used / 0: Not used
- SP5-816-063 (Proxy Host)
- SP5-816-064 (Proxy PortNumber)
- SP5-816-065 (Proxy User Name)
- SP5-816-066 (Proxy Password)



If access to the external server is restricted, request the network administrator (customer) to permit the following FQDN name for communication.- FQDN: p-rfu-ds2.support.ricoh.com



They can be specified also via Web Image Monitor if logged in as the machine administrator from the device if SP5-886-111(Auto Update Setting) is set to "1(ON)". For details, see Specifying the Time and Day of the Week to Prohibit Updating via Web Image Monitor.

# 4-4. Encryption level setting SP

Check SP5-816-087 (Remote Service: CERT:Macro Ver) and make sure the encryption level is [2]: 2048 bit.



If SP5-816-087 is [1]: 512 bit, specify the settings as follows:

- 1. Initialize the encryption level by executing SP5-870-003 (Common Key Info Writing: Initialize)
- 2. Rewrite as 2048 bit in SP5-870-004 (Common Key Info Writing: Writing 2048 bit).
- 3. Turn the main switch off and on.



Make sure to check the conditions before changing the encryption level and do the corresponding workaround. ARFU uses the same certificate as @Remote to communicate with the Global Server. This may cause failure in connecting with the Center Server, if the device is to be installed in the following conditions.

#### **Conditions**

#### 1) Customer uses RC Gate Type BN1.

RC Gate Type BN1 does not support 2048 bit encryption level communication with Ricoh devices (HTTPS Managed device). Therefore, the device cannot be registered under RC Gate Type BN 1.

# 2) Ricoh device (HTTPS Managed) that supports only 512 bit encryption level is registered as an external appliance.

Only one encryption level can be set for an external appliance for its communication with imaging devices. If a 512 bit encryption level Ricoh device (HTTPS Managed) is registered, the external appliance as well as other devices must also use 512 bit encryption even if 2048 bit encryption is supported on those devices.

#### Workaround

#### **For Condition 1:**

Advise your customer to change to the latest appliance that supports 2048 bit encryption level communication.

#### For Condition 2:

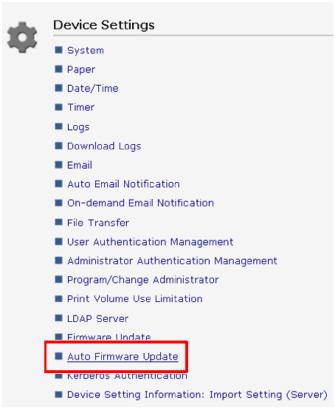
- 1. Manage the device with embedded RC Gate (2048 bit)
- 2. Exclude non-supported devices (i.e., those devices that cannot be changed from 512-bit to 2048-bit) from the external appliances, then change the encryption level of external appliances and all managed devices (from 512 bit to 2048 bit).

## Specifying the Time and Day of the Week to Prohibit Updating via Web Image Monitor

- **1.** Start Web Image Monitor.
- **2.** Log in as the machine administrator.
- **3.** Point to [Device Management], and then click [Configuration].



**4.** Click "Auto Firmware Update".



d238m0984j

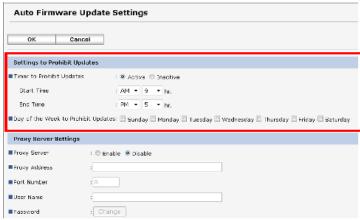


Turn the main power OFF and back ON again after setting SP5-886-111 (AutoUpdateSetting) to "1 (ON)".

"Auto Firmware Update" will appear in the menu list of Web Image Monitor.

**<u>5.</u>** Specify the times and days of the week to prohibit updating.

Select the check boxes of the applicable days of the week to prohibit updating on that day



d238m0985e

# Language Selection

- 1. Press [User Tools] on the operation panel.
- **2.** Press [Screen Features].

- 3. Press [Language & Input].
- **4.** Press [Change Language].

The machine shows the preset language list.

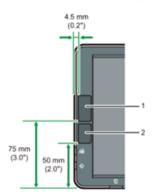
- If the language you want is listed, press the language, and then go to Step 9.
- If the required language is not in the list, go to the next step.
- 5. Press [Select Switchable Language] and select the language you want.
- **<u>6.</u>** Press [Language & Input], and then press [Change Language].
- <u>7.</u> Select the language you set in Step 6.
- **8.** Make sure that the language is changed successfully.
- **9.** Exit [User Tools].

## Brand Plate, Decals

1. Attach the brand plates to the front door and the operation panel, if the brand plates are not attached.



- 2. Attach the correct paper tray number and size decals to the paper trays.
- **3.** Attach the NFC tag and the Bluetooth decal to the operation panel.



[1]: NFC tag, [2]: Bluetooth decal



#### **Storing Unnecessary Decals**

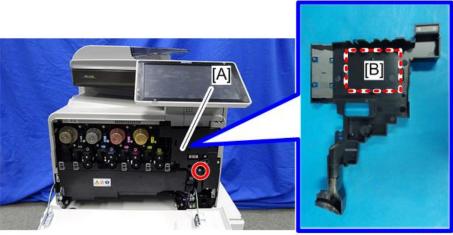
If the IC card reader option or NFC reader option are not to be installed immediately, store the decals for these options in the specified area as shown below:

- 1. Pull out the paper feed tray.



d196z4002

- 3. Open the front cover.
- 4. Remove the inner cover [A] ( $^{\odot}$  × 1) and then store the decal in the area [B].



d196z2058

# Settings Relevant to the Service Contract

Change the necessary settings for the following SP modes if the customer has made a service contract.



You must select one of the counter methods (developments/prints) in accordance with the contract (SP5-045-001).

Counting method					
SP No.	Function Defa				
SP5-045-001	Specifies if the counting method used in meter charge mode is based on "1":				
	developments or prints. Prints				
	NOTE: You can set this one time only. You cannot change the setting after you				
	have set it for the first time.				
Service Tel. No. Setting					
SP No.	Function Default				
SP5-812-001	SP5-812-002 programs the service station fax number. The number is printed on -				

through 004	the counter list when the meter charge mode is selected. This lets the user fax the	
	counter data to the service station.	

## Settings for @Remote Service



• Prepare and check the following check points before you visit the customer site. For details, ask the @Remote key person.

#### Check points before making @Remote settings

- 1. The setting of SP5-816-201 in the mainframe must be "0".
- 2. Print the SMC with SP5-990-002 and then check if a device ID2 (SP5-811-003) must be correctly programmed.
  - 6 spaces must be put between the 3-digit prefix and the following 8-digit number (e.g. xxx\_\_\_\_xxxxxxxx).
  - ID2 (SP5-811-003) and the serial number (SP5-811-001) must be the same (e.g. ID2: A01\_\_\_\_23456789 = serial No. A0123456789)
  - Make sure to shut down and reboot the machine once before printing the SMC. Otherwise, the latest settings may not be collected when the SMC is printed.
- <u>3.</u> The following settings must be correctly programmed.
  - Proxy server IP address (SP5-816-063)
  - Proxy server Port number (SP5-816-064)
  - Proxy User ID (SP5-816-065)
  - Proxy Password (SP5-816-066)
- **4.** Get a Request Number

# **Execute the @Remote Settings**

- **1.** Enter the SP mode.
- 2. Input the Request number which you have obtained from @Remote Center GUI, and then enter [OK] with SP5-816-202.
- **3.** Confirm the Request number, and then click [EXECUTE] with SP5-816-203.
- **4.** Check the confirmation result with SP5-816-204.

Value	Meaning	Solution/ Workaround	
0	Succeeded	-	
3	Communication error (proxy Check the network condition.		
	enabled)		
4	Communication error (proxy	Check the network condition.	
	disabled)		
5	Proxy error (authentication error)	Check Proxy user name and password.	
6	Communication error	Check the network condition.	
8	Other error	See "SP5816-208 Error Codes" below this.	
9	Request number confirmation	Processing Please wait.	

Value	Meaning	Solution/ Workaround
	executing	
11	Already registered	-
12	Parameter error	-
20	Dial-up authentication error	* These errors occur only in the modems that support
21	Answer tone detection error	@Remote.
22	Carrier detection error	
23	Invalid setting value (modem)	
24	Low power supply current	
25	unplugged modem	
26	Busy line	

- **5.** Make sure that the screen displays the Location Information with SP5-816-205 only when it has been input at the Center GUI.
- **<u>6.</u>** Click [EXECUTE] to execute the registration with SP5-816-206.
- <u>7.</u> Check the registration result with SP5-816-207.

Value	Meaning	Solution/ Workaround
0	Succeeded	-
1	Request number error	Check the request number again.
2	Already registered	Check the registration status.
3	Communication error (proxy enabled)	Check the network condition.
4	Communication error (proxy disabled)	Check the network condition.
5	Proxy error (Authentication error)	Check Proxy user name and password.
8	Other error	See "SP5-816-208 Error Codes" below this.
9	Request number confirmation	Processing Please wait.
	executing	
11	Already registered	-
12	Parameter error	-
20	Dial-up authentication error	* These errors occur only in the modems that support
21	Answer tone detection error	@Remote.
22	Carrier detection error	
23	Invalid setting value (modem)	
24	Low power supply current	
25	unplugged modem	
26	Busy line	

**8.** Exit the SP mode.

# Caused by Operation Error, Incorrect Setting

Code	Meaning	Solution/ Workaround	
-	Inquiry, registration attempted without acquiring	Obtain a Request Number before	
12002	Request No.	attempting the Inquiry or Registration.	
-	Attempted registration without execution of a	Perform Confirmation before attempting	
12003	confirmation and no previous registration.	the Registration.	
-	Attempted setting with illegal entries for certification	Check ID2 of the mainframe.	
12004	and ID2.		
-	@Remote communication is prohibited. The device has	Make sure that "Remote Service" in User	
12005	an Embedded RC gate-related problem.	Tools is set to "Do not prohibit".	
-	A confirmation request was made after the confirmation	Execute registration.	
12006	had been already completed.		
-	The request number used at registration was different	Check Request No.	
12007	from the one used at confirmation.		
-	Update certification failed because mainframe was in	Check the mainframe condition. If the	
12008	use.	mainframe is in use, try again later.	
-	The ID2 in the NVRAM does not match the ID2 in the	Check ID2 of the mainframe.	
12009	individual certification.		
-	The certification area is not initialized.	Initialize the certification area.	
12010			

# Error Caused by Response from GW URL

Code	Meaning	Solution/ Workaround
-2385	Other error	
-2387	Not supported at the Service Center	
-2389	Database out of service	
-2390	Program out of service	
-2391	Two registrations for the same mainframe	Check the registration condition of the mainframe
-2392	Parameter error	
-2393	External RCG not managed	
-2394	Mainframe not managed	
-2395	Box ID for external RCG is illegal.	
-2396	Mainframe ID for external RCG is illegal.	
-2397	Incorrect ID2 format	Check the ID2 of the mainframe.
-2398	Incorrect request number format	Check the Request No.

#### Transporting the Machine

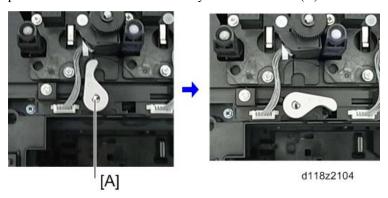
# **ACAUTION**

• Do not lift the machine together with one or more paper feed unit(s):

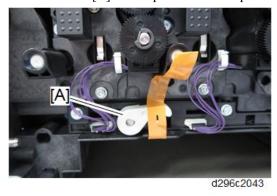
If there is already a machine with one or more optional paper feed unit(s), be sure to disconnect the machine and paper feed unit(s), and lift them up separately when moving/transporting. Otherwise, the handle of the paper feed unit will break due to the machine's weight, and it can cause an injury.

The following should be done before transporting the machine.

1. Remove the paper tray and waste toner bottle, and then move the ITB contact lever [A] down to the shipping position. This moves the ITB away from the PCDU (K).



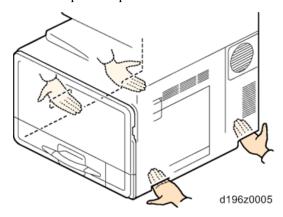
2. Hold the lever [A] in this position with tape.



- <u>3.</u> Do SP4-806-001 to move the scanner carriage from the home position. This prevents dust from falling into the machine during transportation.
- 4. Remove the toner bottles. This prevents toner flow into the toner supply tube, which is caused by vibration during transport. This can also cause the tube to be clogged with toner.
- **5.** Make sure that there is no paper left in the paper trays. Then fix down the bottom plates with a sheet of paper and tape.
- **<u>6.</u>** Attach securing tape to stop the waste toner bottle from coming out.
- 7. Do one of the following:
  - Attach shipping tape to the covers and doors.
  - Shrink-wrap the machine tightly.

# **A**CAUTION

• Hold the specified positions as shown below when lifting the machine up or down.



#### Instructions for the Customers

The following items should be advised when the machine is installed. These items are explained in more detail in the operating instructions.

- How to add paper to the paper feed unit and the by-pass feed unit.
- How to install a toner bottle
- How to handle paper jams

# **Security Setting**

# Security Function Installation

#### **Important**

• If the "Enhanced Security HDD Option Type M10" is installed at the same time as the main machine's installation, do not execute these settings described below. When the "Enhanced Security HDD Option Type M10" and security functions (Data Overwrite Security and HDD Encryption Unit) are activated in the same machine, the function of the "Enhanced Security HDD Option" is not guaranteed.

The machine contains the security functions (Data Overwrite Security and HDD Encryption unit) in the controller board.

If you are installing a new machine, it is recommended to activate Data Overwrite Security and HDD Encryption by selecting "Format All Data" from "System Settings" on the operation panel.



• This method is recommended because there is no user data on the hard drive yet (Address Book data, image data, etc.).

If the customer wishes to activate the Data Overwrite Security and HDD Encryption unit on a machine that is already running, it is recommended to activate the unit by selecting "All Data" from "System Settings" on the operation panel.

# ( Important

• Selecting "All Data" will preserve the data that has already been saved to the HDD. (If "Format All Data" is selected, all user data saved to the HDD up to that point will be erased).

Immediately after encryption is enabled, the encryption setting process will take several minutes to complete before you can begin using the machine.

# **U** Note

• If encryption is enabled after data has been stored on the HDD, or if the encryption key is changed, this process can take up to three and a half hours or more.

The machine cannot be operated while data is being encrypted.

Once the encryption process begins, it cannot be stopped.

Make sure that the machine's main power is not turned OFF while the encryption process is in progress.

If the machine's main power is turned off while the encryption process is in progress, the HDD will be damaged and all data on it will be unusable.

Print the encryption key and keep the encryption key (which is printed as a paper sheet).

Keep the encryption key in a safe place. If the encryption key is lost and is needed, the controller board, HDD and NVRAM must all be replaced at the same time.

# UNote

- "NVRAM" mentioned in here means the NVRAM on the Controller Board.
- "NVRAM" or EEPROM on the BCU has nothing to do with this.

Please use the following procedures when the Data Overwrite Security and HDD Encryption must be reinstalled.

#### Data Overwrite Security

#### Before You Begin the Procedure

- $\underline{\mathbf{1}}$ . Make sure that the following settings (1) to (3) are not at their factory default values.
  - (1) Supervisor login password
  - (2) Administrator login name
  - (3) Administrator login password

If any of these settings is at a factory default value, tell the customer these settings must be changed before you do the installation procedure.

**2.** Make sure that "Admin. Authentication" is on.

[User Tools] > [Machine Features] > [System Settings] > [Administrator Tools] > [Administrator Authentication Management] > [Admin. Authentication]

If this setting is off, tell the customer this setting must be on before you do the installation procedure.

**3.** Make sure that "Administrator Tools" is enabled (selected).

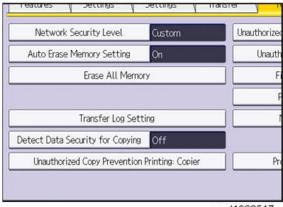
[User Tools] > [Machine Features] > [System Settings] > [Administrator Tools] > [Administrator Authentication Management] > [Available Settings]

If this setting is disabled (not selected), tell the customer this setting must be enabled (selected) before you do the installation procedure.

#### Using Auto Erase Memory

The Auto Erase Memory function can be enabled by the following procedure.

- 1. Log in as the machine administrator from the control panel.
- **2.** Press [User Tools].
- **3.** Press [Machine Features].
- **4.** Press [System Settings].
- **5.** Press [Administrator Tools].
- **6.** Press [Next] three times.
- 7. Press [Auto Erase Memory Setting].



w\_d1822517

- **8.** Press [On].
- **<u>9.</u>** Select the method of overwriting.

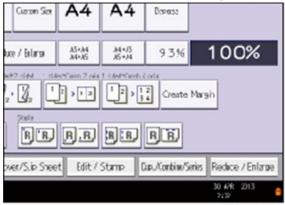
If you select [NSA] or [DoD], proceed to step 10.

If you select [Random Numbers], proceed to step 12.

- 10. Press [Change].
- 11. Enter the number of times that you want to overwrite using the number keys, and then press [#].
- 12. Press [OK]. Auto Erase Memory is set.
- **13.** Log out.
- 14. Check the display and make sure that the overwrite erase icon appears.
- **15.** Check the overwrite erase icon.

The icon [1] is lit when there is temporary data to be overwritten, and blinks during overwriting.

The icon [2] is lit when there is no temporary data to be overwritten.



w\_d1822516

8	Icon [1]	This icon is lit when there is temporary data to be overwritten, and blinks during overwriting.
8	Icon [2]	This icon is lit when there is no temporary data to be overwritten.

#### **HDD** Encryption

#### Before You Begin the Procedure

- **1.** Make sure that the following settings (1) to (3) are not at the factory default settings.
  - (1) Supervisor login password
  - (2) Administrator login name
  - (3) Administrator login password

If any of these settings is at a factory default value, tell the customer these settings must be changed before you do the installation procedure.

**2.** Confirm that "Admin. Authentication" is on:

[User Tools] > [Machine Features] > [System Settings] > [Administrator Tools] > [Administrator Authentication Management] > [Admin. Authentication]

If this setting is off, tell the customer that this setting must be on before you can do the installation procedure.

**3.** Confirm that "Administrator Tools" is selected and enabled.

[User Tools] > [Machine Features] > [System Settings] > [Administrator Tools] > [Administrator Authentication Management] > [Available Settings]

"Available Settings" is not displayed until step 2 is done.

If this setting is not selected, tell the customer that this setting must be selected before you can do the installation procedure.

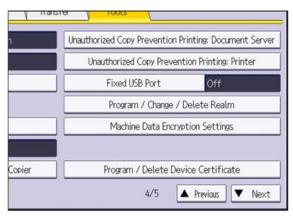
## **Enable Encryption Setting**

Machine Data Encryption Settings can be enabled by the following procedure.

## **Setting Up Encryption**

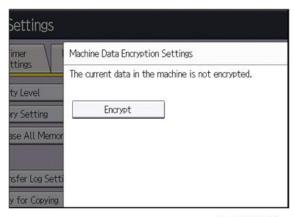


- When setting up encryption, specify whether to start encryption after deleting data (initialize) or encrypt and retain existing data. If data is retained, it may take some time to encrypt it.
- **1.** Turn ON the main power.
- 2. Log in as the machine administrator from the control panel.
- **3.** Press [User Tools].
- **4.** Press [Machine Features].
- **5.** Press [System Settings].
- **<u>6.</u>** Press [Administrator Tools].
- 7. Press [Next] three times.
- **8.** Press [Machine Data Encryption Settings].



w\_d1822518

#### **9.** Press [Encrypt].



w\_d1822519

10. Select the data to be carried over to the HDD and not be reset.

To carry all of the data over to the HDD, select [All Data].

To carry over only the machine settings data, select [File System Data Only].

To reset all of the data, select [Format All Data].

11. Select the backup method.

If you have selected [Save to SD Card], load an SD card into the media slot on the side of the control panel and press [OK] to back up the machine's data encryption key.

If you have selected [Print on Paper], press the [Start] key. Print out the machine's data encryption key.

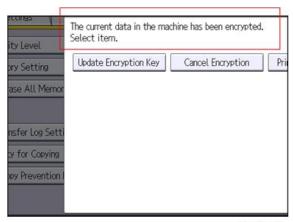
- **12.** Press [OK].
- **13.** Press [Exit].
- **14.** Press [Exit].
- **15.** Log out.
- **16.** Turn OFF the main power, and then turn the main power back ON.

The machine will start to convert the data on the memory after you turn on the machine. Wait until the message "Memory conversion complete. Turn the main power switch off." appears, and then turn the main power OFF again.

#### **Check the Encryption Settings**

- **1.** Press [User Tools].
- **2.** Press [Machine Features].
- **3.** Press [System Settings].
- **4.** Press [Administrator Tools].
- **5.** Press [Machine Data Encryption Settings].

**6.** Confirm whether the encryption has been completed or not on this display.



w\_d1822520

#### Backing Up the Encryption Key

The encryption key can be backed up. Select whether to save it to an SD card or to print it.

#### Mportant )

- The encryption key is required for data recovery if the machine malfunctions. Be sure to store the encryption key safely for retrieving backup data.
- **1.** Log in as the machine administrator from the control panel.
- **2.** Press [User Tools].
- **3.** Press [Machine Features].
- **4.** Press [System Settings].
- **5.** Press [Administrator Tools].
- **6.** Press [Next] three times.
- <u>7.</u> Press [Machine Data Encryption Settings].
- **8.** Press [Print Encryption Key].



w\_d1822515

**9.** Select the backup method.

If you have selected [Save to SD Card], load an SD card into the media slot on the side of the control panel and press [OK]. After the machine's data encryption key is backed up, press [Exit].

If you have selected [Print on Paper], press the [Start] key. Print out the machine's data encryption key.

**10.** Press [Exit].

#### **11.** Log out.

#### **Encryption Key Restoration**

#### How to restore the old encryption key to the machine

The following message appears after the controller board is replaced. In such a case, it is necessary to restore the encryption key to the new controller board.

SD card for restoration is required.
Turn the main power switch off and set the SD card, then turn the main power switch on.

d1420101

To do this, follow the procedure below.

- 1. Prepare an SD card that has been initialized in FAT16 format.
- 2. Using a PC, create a folder in the SD card and name it "restore\_key".
- 3. Create a folder in the "restore\_key" folder and name it the same as machine's serial number, "xxxxxxxxxxx" (11 digits).
- **4.** Create a text file called "key\_xxxxxxxxxxxxxxxtt" and save it in the "xxxxxxxxxxx" folder. Write the encryption key in the text file.

/restore key/xxxxxxxxxxx/key xxxxxxxxxxxtxt



- Ask an Administrator to enter the encryption key. The key has already been printed out by the user and may have been saved in the "key\_xxxxxxxxxxxxxtt" file.
- **5.** Turn ON the main power.
- **6.** Confirm that a message is displayed on the LCD telling to insert the SD card that contains the encryption key.
- <u>7.</u> Turn OFF the main power.
- **8.** Insert the SD card that contains the encryption key into SD card slot 2 (the lower slot).
- **9.** Turn ON the main power.



- The machine will automatically restore the encryption key to the flash memory on the controller board.
- **10.** Turn OFF the main power when the machine has returned to normal status.
- 11. Remove the SD card from SD card slot 2.

#### How to do a forced start up with no encryption key

If the encryption key back-up has been lost, follow the procedure below to do a forced start-up.



- The HDD will be formatted after the forced start-up.
- Encrypted data will be deleted.
- User settings will be cleared.

- **1.** Prepare an SD card.
- 2. Create a directory named "restore\_key" inside the root directory of the SD card. Then, save the "nvram\_key.txt" file using the following name: /restore key/nvram key.txt
- 3. Create a text file and write "nvclear".

# ( Important

- Write this string at the head of the file.
- Use all lower-case letters.
- Do not use quotation marks or blank spaces.
- It is judged that a forced start has been selected when the content of "nvclear" is executed and the machine shifts to the alternate system (forced start).
- **4.** Confirm that a message is displayed on the LCD telling to insert the SD card that contains the encryption key.
- **5.** Turn OFF the main power.
- **<u>6.</u>** Insert the SD card that contains the encryption key into SD card slot 2 (the lower slot).
- 7. Turn ON the main power and the machine automatically clears the HDD encryption.
- **8.** Turn OFF the main power when the machine has returned to normal status.
- **9.** Remove the SD card from SD card Slot 2.
- **10.** Turn ON the main power.
- 11. Memory clear SP5-801-xx (Exclude SP5-801-001: All Clear and SP5-801-002: Engine), and clear SP5-846-046: address book.
- 12. Set necessary user settings with the User Tools key.

# Paper Feed Unit PB1080 (D573-57), Paper Feed Unit PB1080TE (D573-13)

Paper Feed Unit PB1080TE is only for NA.

#### Accessory Check

Confirm that you have the accessories listed below.

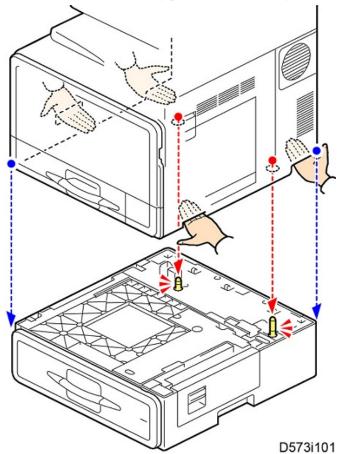
No.	Description	Q'ty
1	EMC Address	1
2	Name Plate	1
3	Decal Size Indication	1
4	Decal CHN 10mm	1
5	Decal CHN Date 40mm	1

#### Installation Procedure

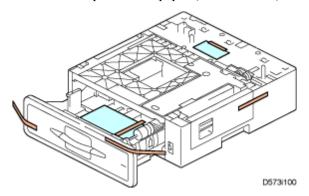
### **CAUTION**

- Turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.
- You need two or more persons to lift the mainframe. The mainframe is highly unstable when lifted by
  one person, and may cause injury or property damage.
- Do not lift the machine together with one or more paper feed unit(s):
  If there is already a machine with one or more optional paper feed unit(s), be sure to disconnect the machine and paper feed unit(s), and lift them up separately when moving/transporting. Otherwise, the handle of the paper feed unit will break due to the mainframe's weight, and it can cause an injury.

• Be sure to hold the following positions when lifting the mainframe.



 $\underline{\mathbf{1}}$ . Remove the tapes and the paper (EMC address) on the paper feed unit.

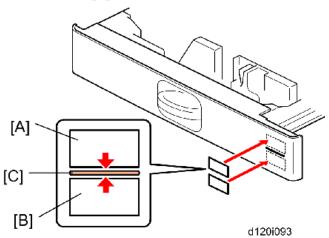


**<u>2.</u>** Set the copier on the paper feed unit.



- When installing a second paper feed unit, place it on the first paper feed unit. Then place the copier on the pair of paper feed units.
- 3. Attach the appropriate paper tray number decal [A] and paper size decal [B] above and below the line [C] on

each tray of the paper feed unit.



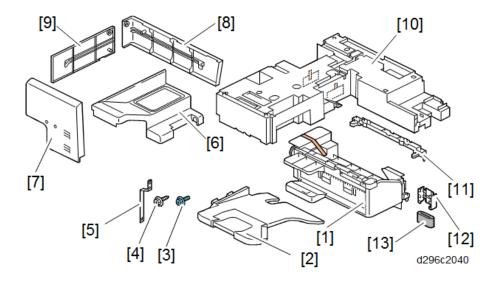
- $\underline{\mathbf{4.}}$  Load paper into the paper tray(s) and set the side fences and end fence(s).
- **<u>5.</u>** Adjust the registration for each tray (Image Adjustment).
  - For tray 2, use SP1002-003
  - For tray 3, use SP1002-004
- **6.** Check the paper feed unit operation and copy quality.

# 1-Bin Tray BN1030 (D574-58)

### Accessory Check

Check the quantity and condition of the components against the following list.

No.	Description	Q'ty
1	1-Bin Tray Unit	1
2	Tray	1
3	Binding Screw (M3×6)	2
4	Screw (M3×10)	18
5	Grounding Plate	1
6	Front Right Cover	1
7	Left Upper Cover	1
8	Right Upper Cover	1
9	Rear Upper Cover	1
10	Mounting Frame	1
11	Mounting Frame Junction	1
12	Ferrite Core Cover	1
13	Ferrite Core	2
-	Ground Wire	1
-	Name Plate	1
-	Decal	1
-	Label	1



### Installation Procedure

### **ACAUTION**

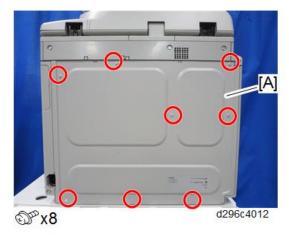
• Turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

### Remove the ADF and scanner unit

**<u>1.</u>** Remove the left upper cover [A]  $(\mathfrak{D}^* \times 1)$ .



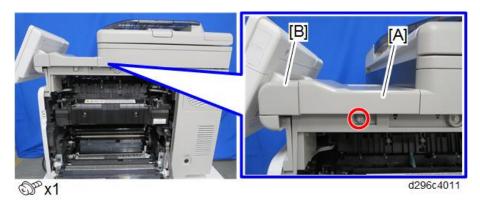
**2.** Remove the rear cover [A].



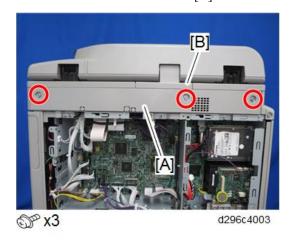
3. Open the right cover, and then remove the right cover [A] ( $^{\circ}$  × 3).



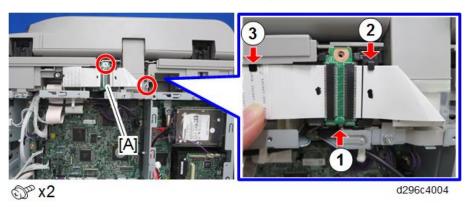
4. Remove the front right cover [A] and the hinge cover [B].



 $\underline{\mathbf{5.}}$  Remove the scanner rear cover [A] and scanner rear small cover [B].



**6.** Release two screws and three tabs for attaching the relay board [A] and FFC, to release the FFC.

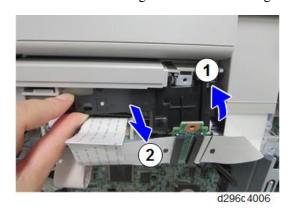


7. Remove the FFC fixing bracket [A] on the back side of the FFC.

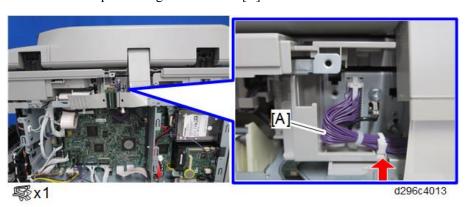


**U** Note

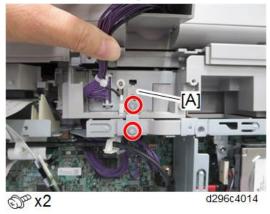
Remove the FFC fixing bracket while turning it counterclockwise and releasing the tab.



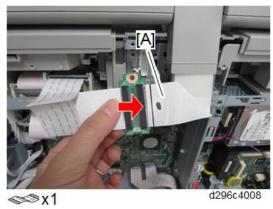
 $\underline{8.}$  Release the clamp for fixing the I/F cable [A].



#### **9.** Remove the grounding plate [A].



### 10. Disconnect the FFC [A] from the relay board.

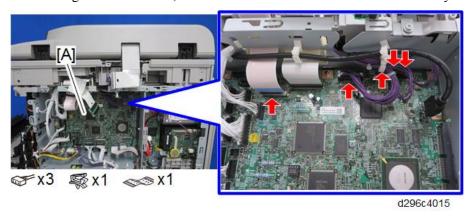


**U**Note

Disconnect the FFC for the relay board while pulling it out straight, because it does not have a lock mechanism.

### 11. Remove the harnesses and FFC from the scanner unit on the BiCU [A].

When lifting the scanner unit, move the harnesses out of the frame so that they do not interfere.



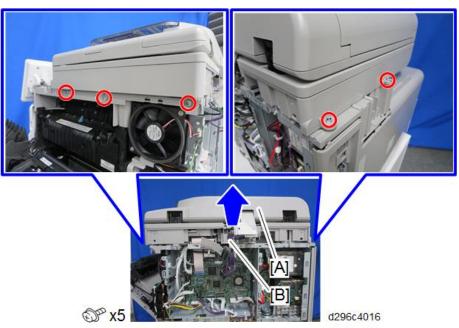
**U** Note

Disconnect the scanner FFC for the BiCU while pressing the lock release button.



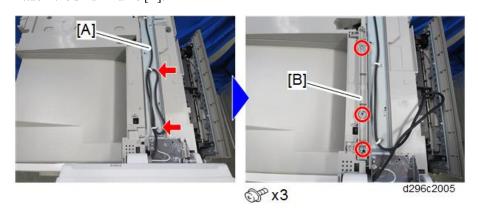
d296c4017

12. Remove the screws, and then remove the scanner unit [B] with the ADF [A].

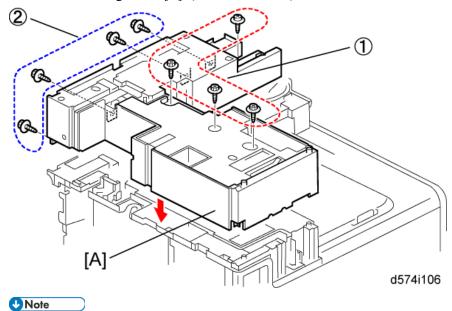


### **Install the 1-bin Tray Unit**

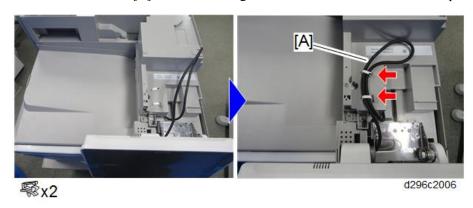
- 1. Remove the orange tapes on the 1-bin tray unit.
- **2.** Remove the two clamps of the USB cable [A] of the control panel, bundle the excessive cable, and fasten with the clamps again.
- 3. Attach the small frame [B].



**4.** Attach the mounting frame [A].  $(M3\times10: \ \ \ \ \ \times 8)$ 

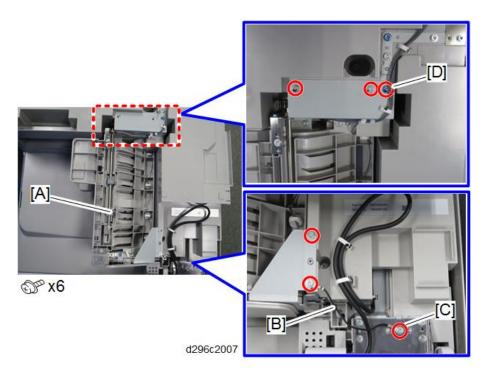


- Install the screws in this order: ①→②.
- **<u>5.</u>** Route the USB cable [A] on the mounting frame and fasten with the two clamps.

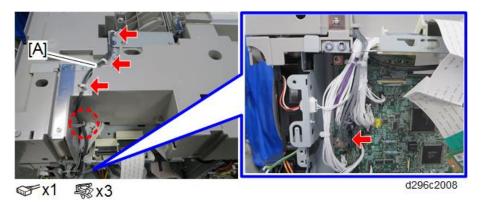


**6.** Attach the 1-bin tray unit [A]. (M3x10: 4 screw, and blue screw [D])

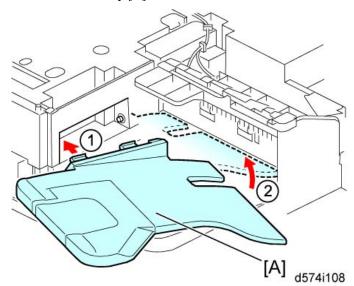
Fasten the grounding wire [B] included in this kit with one screw as shown below. Fasten the other end of the grounding wire with the screw [C].



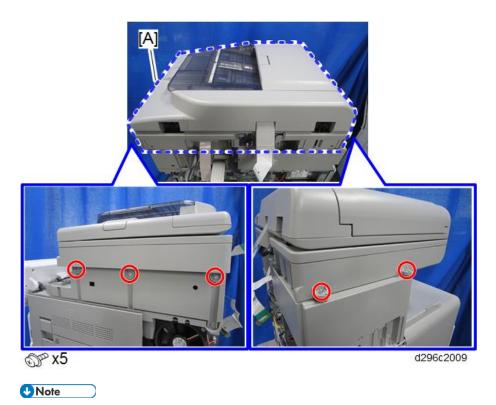
7. Connect the connector of the 1-bin tray unit to CN527 on the BiCU, and then fasten the harness [A]. Route the harness with the hook (marked by the dashed circle).



**8.** Install the 1-bin tray [A].



### **9.** Install the scanner unit [A] with the ADF.

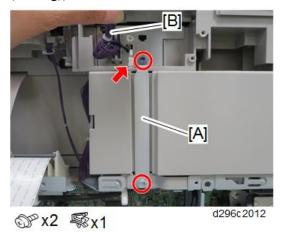


When installing the scanner unit, make sure that the harnesses are not pinched between the scanner unit and the 1-bin tray unit (marked by the dashed circle).



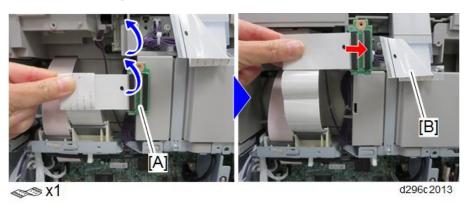
10. Attach the grounding plate [A] and clamp the harness [B] to the ADF. (Upper: blue screw ×1, Lower: M3x10

### (existing))



### 11. Connect the relay board [A] and FFC [B].

Turn over twice to spread the FFC that was folded, and connect it.

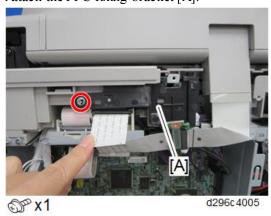


### **U** Note

Connect the FFC by pushing it straight, because it does not have a lock mechanism.

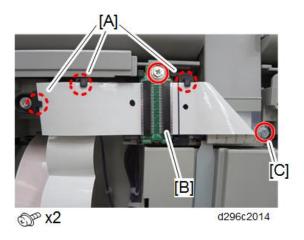
When reassembling, the FFC must be connected straight.

### 12. Attach the FFC fixing bracket [A].

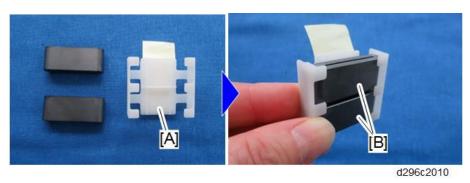


13. Attach the relay board [B] with the three hooks [A] on the FFC fixing bracket.

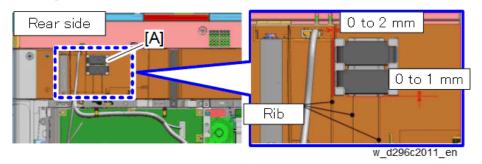
14. Attach the FFC with the screw [C].



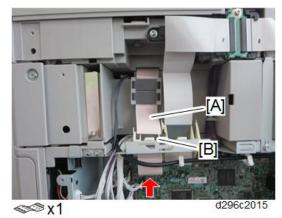
15. Set two ferrite cores [B] in the ferrite core holder [A] included in this kit.



16. Route the FFC of the scanner unit through the two ferrite cores in step 15.Align the ferrite core holder [A] with the reference ribs on the back of the unit, and attach it with double-sided tape.



17. Route the FFC [A] in step 16 through one ferrite core [B] attached to the control box, and connect it to the BiCU.



<u>18.</u>

### **U** Note

- The FFC should be routed under the USB cable.
- Do not connect the FFC at an angle. Otherwise, the scanner unit may be damaged.
- Connect the scanner FFC for the BiCU while pressing the lock release button.



d296c4017

### **19.** Attach the following items:

- Hinge cover [A]
- Front right cover [B] (from the accessories, not the original cover)



### **20.** Attach the following items:

- Right rear cover [A] (from the accessories)
- Rear upper cover [B] (from the accessories)
- Left upper cover [C] (from the accessories, not the original cover)

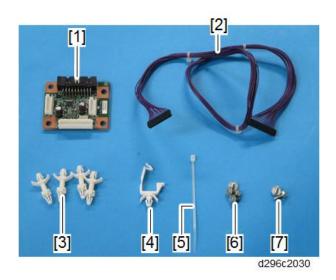


### **21.** Attach the following items:

- Scanner rear small cover
- Scanner rear cover
- Right rear cover
- Rear cover
- 22. Turn ON the main power and check the 1-bin tray unit operation.

# Optional Counter Interface Unit Type M12 (B870-21)

### Accessory Check



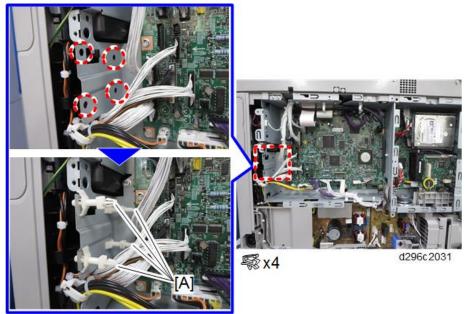
No.	Description	Q'ty
1	Counter interface board	1
2	Harness	1
3	Stud	4
4	Clamp	1
5	Harness band	1
6	Screws (Not used)	4
7	Screws (Not used)	2
-	Caution Chart	1

### Installation Procedure

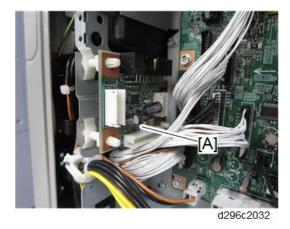
### **ACAUTION**

- Turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.
- 1. Remove the rear cover. (Rear Cover)

**2.** Install the four studs [A] in the controller box.



3. Install the key counter interface board [A] shown below on the four studs.

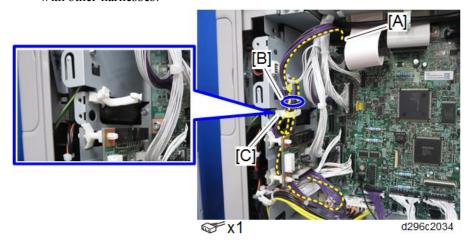


**<u>4.</u>** Connect the harness included in this kit to the connector [A] on the interface board.



- **<u>5.</u>** Do the following steps:
  - Route the harness through the rear of the interface board, and then connect it to CN570 [A].
  - Bind the harness at the point [B] with the harness band included in this kit to prevent interference with other harnesses.

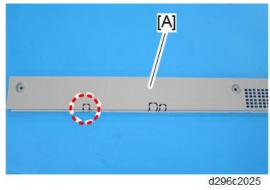
• Insert the clamp included in this kit at [C], and clamp the harness with the clamp to prevent interference with other harnesses.



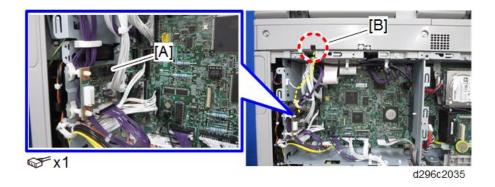
 $\underline{6}$ . Remove the scanner rear cover [A].



<u>7.</u> Cut out the hole for the counter device cable to pass through the scanner rear cover [A].



- **8.** Reattach the scanner rear cover.
- **9.** Connect the harness from the counter device to CN4 [A] on the key counter interface board and route the harness.
- 10. Route the harness through the scanner rear cover [B] as shown below.



### 11. Reassemble the machine.

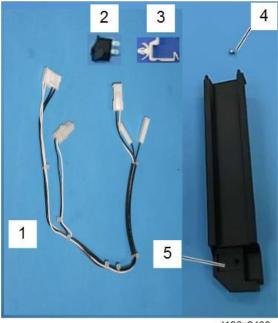
### **Anti-condensation Heater (Mainframe)**

### Accessory Check

All the accessories required to install the anti-condensation heater for mainframe are available as the following parts. Order these separately from the heater.

### **U** Note

- These part numbers are correct as of November, 2016. Refer to the "Option" section in the mainframe's parts catalog to check the latest part numbers.
- The shape of the actual parts may differ from the photo.



d196z2400

No.	Description	Q'ty	Part Number
1	Junction Harness	1	D1965265*1
2	Heater Power Switch	1	12042570
3	Clamp	1	11050511
4	Screw	1	08010231
5	Heater kit	1	D1175097: EU/AA/KOR/CHN
			D1175091: NA/TWN

#### **U** Note

\*1 This harness (P/N: D1955265) is also used as a harness for Anti-condensation Heater for optional paper feed unit, and Anti-condensation Heater for mainframe paper feed tray. If you have already ordered this harness for these heaters, it is not necessary to order this harness again at this time.

#### Installation Procedure

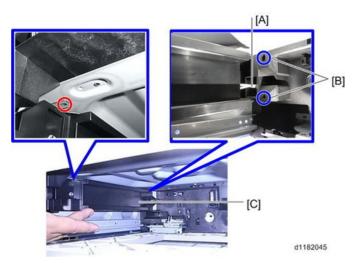
#### CAUTION

• Do not lift the machine together with one or more paper feed unit(s):

If there is already a machine with one or more optional paper feed unit(s), be sure to disconnect the machine and paper feed unit(s), and lift them up separately when moving/transporting. Otherwise, the handle of the paper feed unit will break due to the mainframe's weight, and it can cause an injury.

#### **ACAUTION**

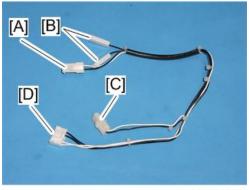
- Turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.
- **1.** Remove the following items.
  - Paper tray
  - Waste toner bottle (Waste Toner Bottle)
  - Left cover (Left Cover)
  - Rear cover (Rear Cover)
  - PSU fan (PSU Fan)
- **2.** Do the following steps:
  - Insert the heater harness into the hole [A].
  - Fit the bosses of the heater into the holes [B] to install the heater [C]  $(\mathfrak{M}(M3\times6)\times1)$





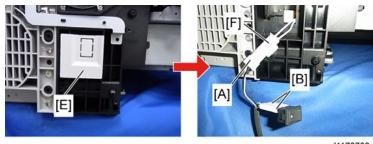
• Use a short screwdriver to secure the screw.

#### **Junction harness connections:**



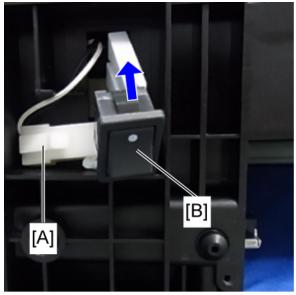
d196z2022

- A: To the heater
- B: To the power switch
- C: To the optional PFU heater (if installed)
- D: To the PSU
- **3.** Do the following steps:
  - Remove the cover [E], and then pull out the heater harness [F].
  - Connect the heater harness to the connector of the junction harness [A].  $(\checkmark \times 1)$
  - Connect the heater power switch to the connectors of the junction harness [B]. ( $\checkmark$  × 2)



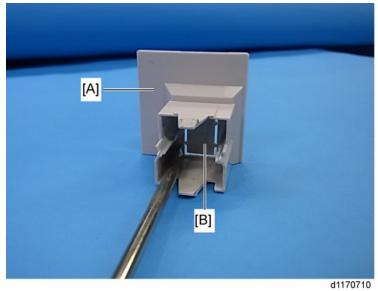
d1170706

**4.** Store the connector [A] in the connector holder, then push the power switch [B] into the switch hole until you feel it click into place.

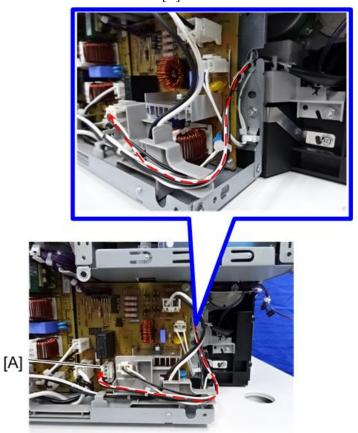


d1170707

 $\underline{\mathbf{5}}$ . Cut out the switch hole [B] in the switch cover, and then attach the cover [A]. (Hooks  $\times$  2)



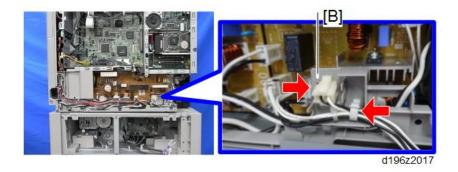
- **<u>6.</u>** Route the junction harness as shown below.
  - Connect the connector [A] to CN600.



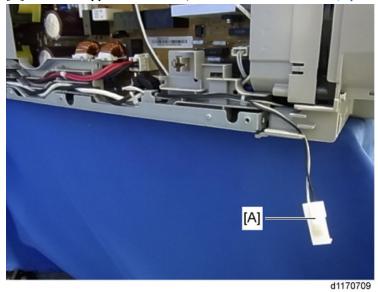
d196z2021

- Only when the heater for optional paper feed tray will not be installed, store the connector [B] in the

holder.



7. When the optional PFU tray heater will be installed: Pull out the connector [A] and its harness to the lower part of the machine. Then uncap the connector isolation cap in the optional PFU and connect the connector [A] to the uncapped connector. (Anti-condensation Heater (Optional Paper Feed Unit))



**8.** Reassemble the machine.

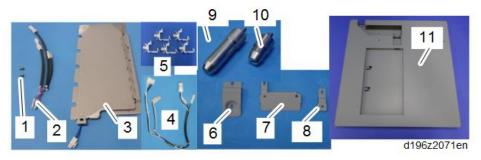


 The mainframe and the optional paper feed unit should be joined to each other if the anticondensation heater of the optional paper feed unit is installed. See Anti-condensation Heater (Optional Paper Feed Unit) for details.

### **Anti-condensation Heater (for Mainframe Paper Tray)**

#### Accessory Check

No.	Items	Q'ty	Remarks	See Note *2
1	Screw M4 x 6	2		A: Heater Kit
2	Harness	1		
3	Heater	1		
4	Harness	1	*1	B: Harness
5	Clamps	5		A: Heater Kit
6	Bracket	1		C: Bracket Set
7	Bracket	1		
8	Bracket	1		
9	Locating pin (Long)	1		E: Pin Set
10	Locating pin (Short)	1		
11	Base	1		D: Base Set





- \*1 This harness (P/N: D1955265) is also used as a harness for Anti-condensation Heater for optional paper feed unit, and Anti-condensation Heater for mainframe. If you have already ordered this harness for these heaters, it is not necessary to order this harness again at this time.
- \*2 All the accessories required to install the anti-condensation heater for mainframe paper tray are available as the following kits or components. Order these separately from the heater:
  - A: Heater Kit (D5730400 for NA/TWN, D5730401 for EU/AA/CHN)
  - B: Harness (D1965265)
  - C: Bracket Set (D1965093)
  - D: Base Set (D1965098)
  - E: Pin Set (D1965092)
- These part numbers are correct as of November, 2016. Refer to the "Option" section in the mainframe's parts catalog to check the latest part numbers.

#### Installation Procedure

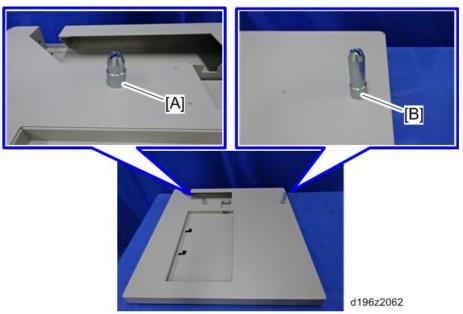
### **ACAUTION**

• Do not lift the machine together with one or more paper feed unit(s):

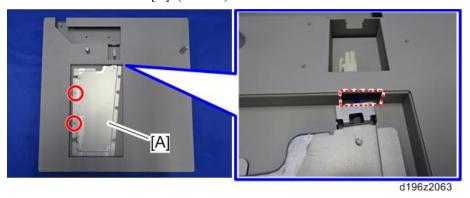
If there is already a machine with one or more optional paper feed unit(s), be sure to disconnect the machine and paper feed unit(s), and lift them up separately when moving/transporting. Otherwise, the handle of the paper feed unit will break due to the mainframe's weight, and it can cause an injury.

#### **ACAUTION**

- Turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.
- Do the following procedure to prevent the harnesses from being damaged.
- Check that harnesses are not damaged or pinched after installation.
- **1.** Attach the two locating pins [A] [B] on the table.

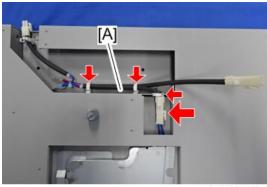


2. Attach the heater bracket [A].  $( ^{\circ} \times 2)$ 



**U** Note

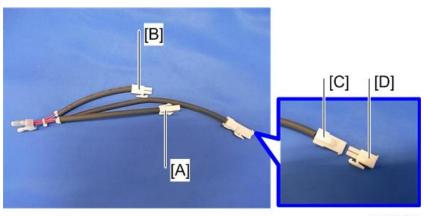
- Pass the connector through the hole in the table.
- 3. Connect the heater harness [A] to the anti-condensation heater and route it as shown below. (♥ × 1, ♥ × 3)



d196z2065

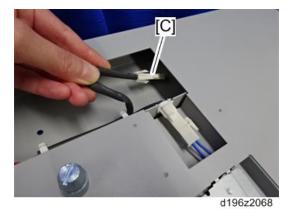


- A: For the anti-condensation heater
- B: For the junction harness
- C: For the isolation cap (Not used)
- D: Isolation cap

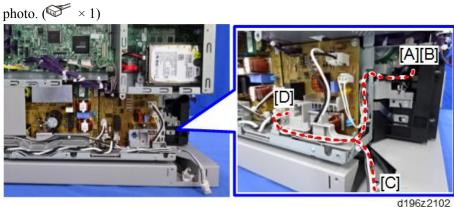


d118z2017

• The connector [C] is not used. Put the connector into the opening.

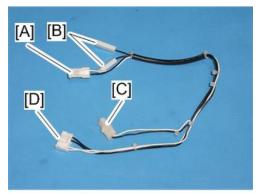


- **<u>4.</u>** Put the mainframe on the table.
- **<u>5.</u>** Remove the rear cover. (Rear Cover)
- **<u>6.</u>** Remove the left cover. (Left Cover)
- <u>7.</u> Remove the PSU fan. (PSU Fan)
- **8.** Connect the connector to CN600 on the PSU and route the junction harness along the red dotted line in the





- A: Not used (For the drum heater: If installing the anti-condensation heater for the mainframe)
- B: Not used
- C: For the heater harness
- D: For the PSU (CN600)



d196z2022

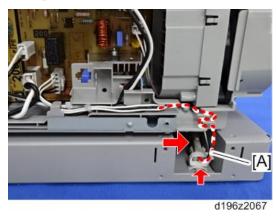
If the anti-condensation heater for mainframe is not going to be installed, put the connector [A] and the connector [B] into the area as shown below.



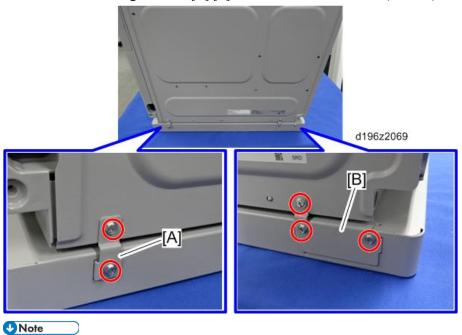
d196z2103

- Install the PSU fan. <u>9.</u>
- 10. Connect the junction harness [A] to the heater harness and route the junction harness along the red dotted line

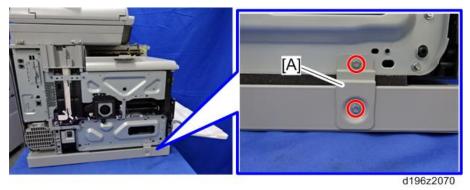
in the photo.



- 11. Reattach the rear cover.
- $\underline{12.}$  Attach the two securing brackets [A] [B] at the rear of the machine. ( $\mathbb{S}^p \times 5$ )



- Use the screws which are holding the rear cover.
- 13. Attach the securing bracket [A] at the left of the machine.  $( ^{\circ})^{\circ} \times 2 )$



**14.** Reattach the left cover.

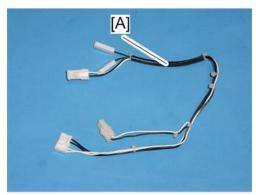
### **Anti-condensation Heater (Optional Paper Feed Unit)**

### Accessory Check

Check the quantity and condition of the accessories against the following list. Other components included in this kit are not used for installation on this machine.

### 

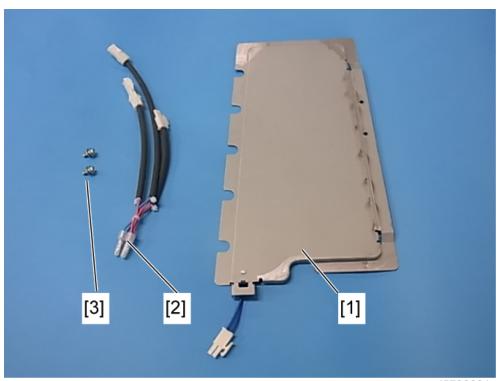
The following junction harness (P/N: D1965265) is required to install the anti-condensation heater for
optional paper feed unit. If you have already ordered this harness for installing the other anticondensation heaters for mainframe or mainframe paper tray, it is not necessary to order this junction
harness again at this time.



d196z2221

#### For Installing the Heater:

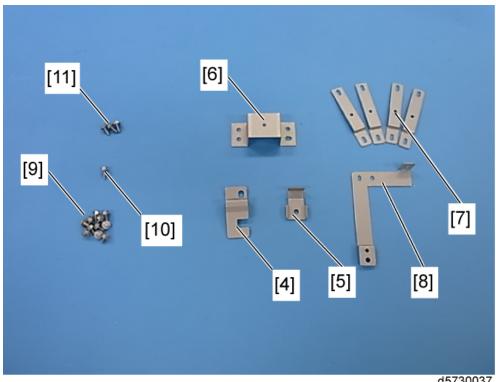
No.	Description	Q'ty	Remark
1	Anti-condensation heater	1	
2	Harness with the isolation cap	1	
3	M4 × 10: Screw	2	



d5730031

### For Joining the Mainframe and Another Paper Feed Unit:

No.	Description	Q'ty
4	Joint bracket (Front left)	1
5	Joint bracket (Front right)	1
6	Joint bracket (Front center) (only for the optional paper feed unit)	1
7	Joint bracket (Rear)	4
8	Joint bracket (Frame) (only for optional paper feed unit)	1
9	M3 x 6: Screw	11
10	M3 x 12: Screw	1
11	Tapping screw	3



d5730037

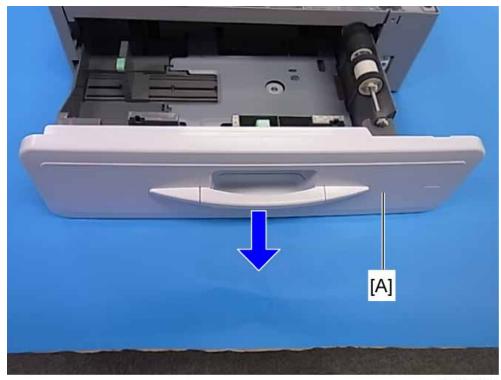
### Installation Procedure

### **A**CAUTION

- Turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.
- Do the following procedure not to damage any harnesses.
- Check that harnesses are not damaged or pinched after installation.

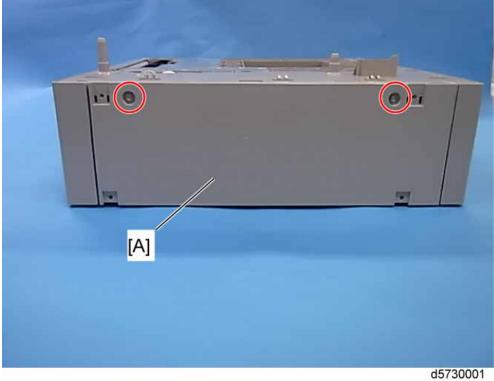
### For Installing the Tray Heater on the 1st Paper Feed Unit

1. Pull out the tray [A] in the optional paper tray.

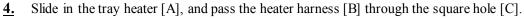


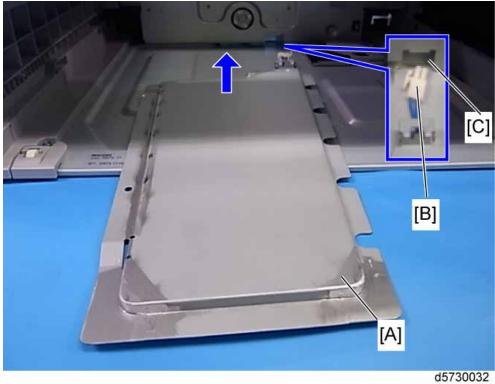
d5730002

# Remove the rear cover [A] ( x 2)

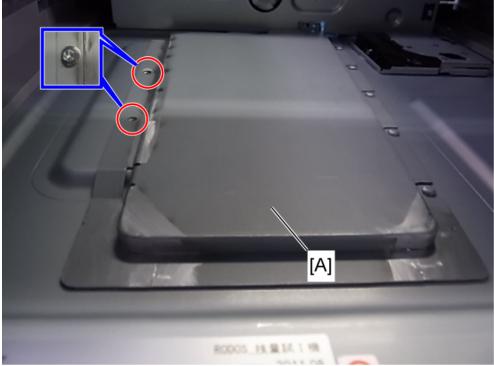


Remove the left cover. (Left Cover)





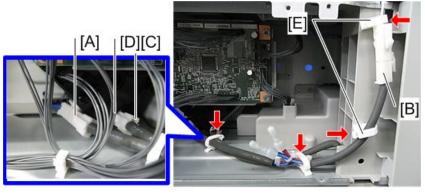
**<u>5.</u>** Install the tray heater [A] in the paper feed unit. ( $^{\circ}$  × 2)



d5730033

### **<u>6.</u>** Do the following steps:

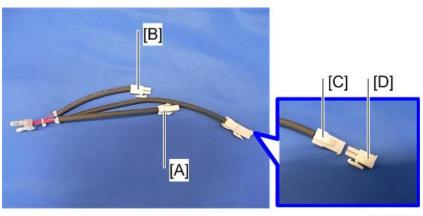
- Connect the connector [A] to the tray heater connector (attached in step 4). ( × 1)
- Connect the harness [B] to the junction harness (mainframe).
- Attach two clamps [E] and route the harness through them. (\*\* × 4)



d118z2018



- A: For this tray heater
- B: For the mainframe
- C: For another optional tray heater
- D: Isolation cap (uncap if installing the heater for 2nd paper tray)

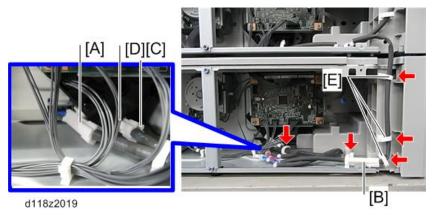


d118z2017

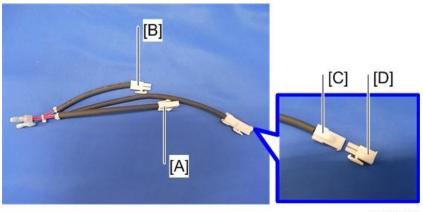
### 7. Reattach all the covers removed.

#### For Installing the Tray Heater on the 2nd Optional Paper Feed Unit

- 1. Do the same procedure for the 1st optional paper feed unit from step 1 to step 6.
- **2.** Do the following steps:
  - Connect the harness [A] and heater connector for the 2nd tray.
  - Remove the cap on the 1st tray harness.
  - Connect the 2nd tray harness [B].
  - Attach three clamps [E] and route the harness through them.  $(\% \times 5)$



- **U** Note
  - A: To the 2nd tray heater
  - B: To the 1st tray heater harness
  - C: Not used
  - D: Cap



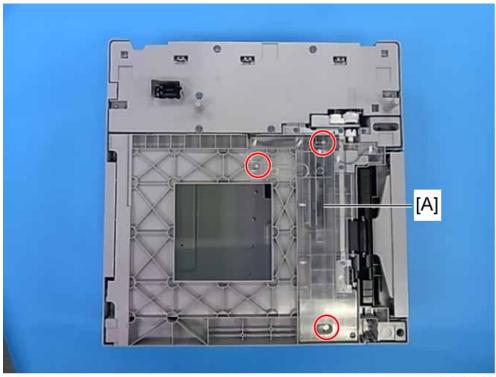
d118z2017

#### **3.** Reattach all the covers removed.

## For Joining the Mainframe with the Optional Paper Feed Unit

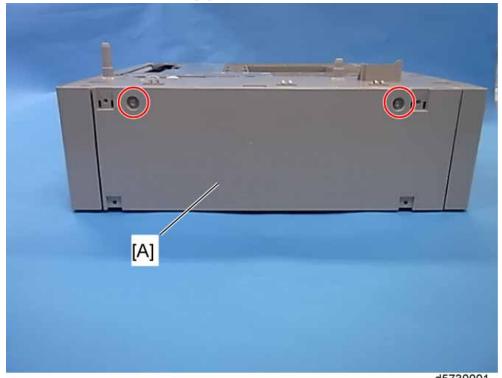
The mainframe and the optional paper feed unit should be joined with joint brackets after the anti-condensation heater installation, because the heater harness may be damaged when the mainframe is removed accidentally.

1. Remove the upper cover [A] of the paper feed unit. ( $^{\circ}$  × 3)

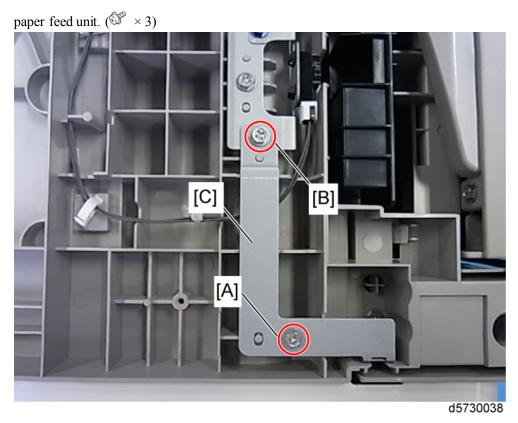


d5730007

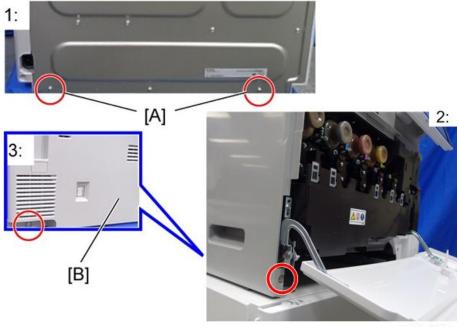
**<u>2.</u>** Remove the rear cover [A] of the paper feed unit. ( $^{\textcircled{op}} \times 2$ )



3. Attach the joint bracket (frame) [C] 9: Tapping  $\times$  1 [A], M3 $\times$ 6: 9  $\times$  1 [B]) and the upper cover of the



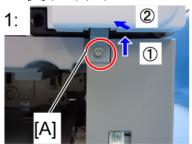
- **<u>4.</u>** Put the mainframe on the paper feed unit.
- **<u>5.</u>** Do the following steps.
  - Remove the paper trays from the mainframe and the optional paper feed unit.
  - Remove two screws [A] on the rear panel of the mainframe. Keep these screws until the joint brackets (rear) are installed.
  - Remove the left cover [B] of the mainframe. ( $^{\circ}$  × 2)

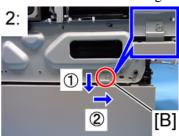


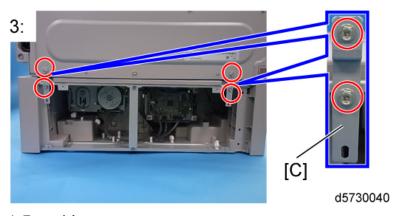
d196z2015

1: Rear

- 2: Front
- 3: Left
- 6. Join the mainframe with the optional paper feed unit with four joint brackets [A] (front right), [B] (front left) and [C] (rear) (×2). These brackets are secured with the following screws.





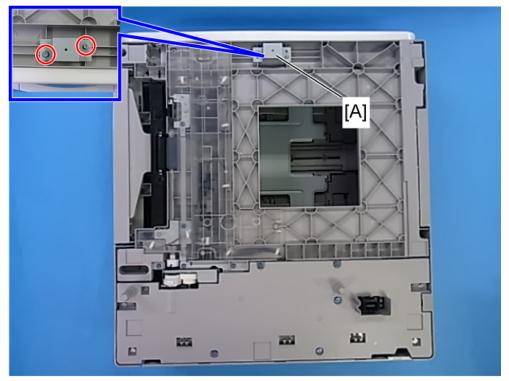


- 1: Front right
- 2: Left
- 3: Rear
- [A]: M3×12 (included in this kit)
- [B]: M3×6 (included in this kit)
- [C] (Upper): Existing screws (×2)
- [C] (Lower): M3×6 (included in this kit)
- 7. Reassemble the mainframe and the paper feed unit.

#### Joining Two Optional Paper Feed Units

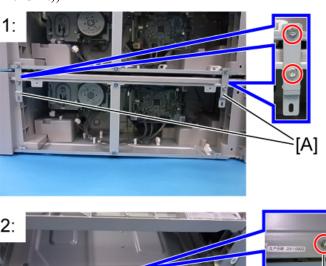
1. Attach the joint bracket (front center) [A] to the paper feed unit that will be installed at the lowest position.

# $(\mathfrak{P}: Tapping \times 2 \text{ (included in this kit))}$



d5730041

- 2. Put the optional paper feed unit on the paper feed unit that was fitted with the bracket [A] in step 1.
- **3.** Remove the paper trays.
- 4. Join the two paper feed units with two joint brackets (rear) [A] and one screw [B]. (M3×6: 5 × 3 (included in this kit))





- 1: Rear
- 2: Front center
- **<u>5.</u>** Reassemble the mainframe and the paper feed units.

## **ACAUTION**

• Do not lift the machine together with one or more paper feed unit(s):

If there is already a machine with one or more optional paper feed unit(s), be sure to disconnect the machine and paper feed unit(s), and lift them up separately when moving/transporting. Otherwise, the handle of the paper feed unit will break due to the mainframe's weight, and it can cause an injury.



 When installing the mainframe with two paper feed units, join the two paper feed units first, and then join the mainframe with the paper feed units.

# **Enhanced Security HDD Option Type M10 (D792-09)**

## Accessory Check

No.	Description	Q'ty
1	Enhanced Security HDD	1
-	EMC Address	1

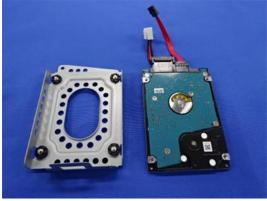


d191b0076

#### Installation Procedure

## **A**CAUTION

- Turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.
- 1. Remove the standard HDD installed. (HDD)
- **2.** Separate the standard HDD from the bracket.



d196z2120

3. Disconnect the cables from the standard HDD.  $(\times 2)$ 



d191b0077

**<u>4.</u>** Remove the enhanced security HDD from its protective pack.



d191b0078

 $\underline{\mathbf{5.}}$  Connect the two cables to the enhanced security HDD.  $(\mathbf{5.} \times 2)$ 



d191b0079



- 7. Install the HDD bracket in the mainframe. ( $^{\circ}$  × 3,  $^{\circ}$  × 2)
- **8.** Reassemble the machine.

#### After Installing the HDD

1. Connect the power cord and turn the machine on. A message prompts you to format the hard disk.



d191b0081

2. Touch [Format].

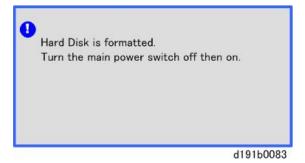


d191b0082

3. Wait for the machine to finish formatting the hard disk.



• Do not touch the power switch while the hard disk format is in progress. Wait for the machine to tell you that the formatting is finished.



- 4. Cycle the machine off/on after the message tells you formatting is finished.
- 5. Ask an administrator to register an HDD authentication code in the machine.



• If the HDD Authentication Code is not registered, the function of the enhanced security HDD is not activated.

## IC Card Reader (External Option)

#### Accessory Check

Check the quantity and condition of the components against the following list.



d1170711

No.	Description	Q'ty
1	IC Card Reader	1
2	Bracket*	1
3	Screw	1

<sup>\*</sup>The IC card reader attaching bracket has two types. One is for the base machine. The other is for machines that have the 1-Bin Tray Unit. This bracket [2] is for the base machine.

#### **U** Note

• Consult your supervisor to obtain the bracket for machines that have the 1-Bin Tray Unit.

#### Installation Procedure

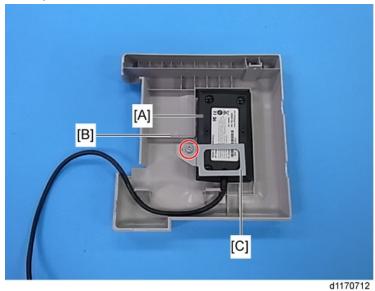
#### **ACAUTION**

• Turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

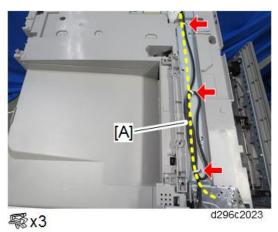
When Installing in a Machine That Does Not Have the 1-Bin Tray Unit

- 1. Remove the scanner unit and the ADF. (Scanner Unit with the ADF)
- $\underline{2}$ . Attach the IC card reader [A] to the rear of the front right cover [B] with the bracket [C].  $(S)^{2} \times 1$  included in

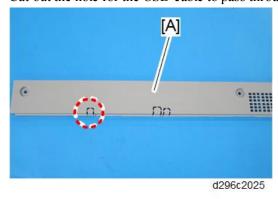
this kit)



3. Route the USB cable [A] from the IC card reader as shown below, and then pull out the USB cable from the rear of the machine.

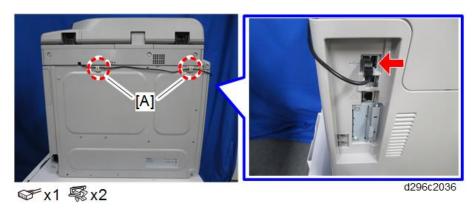


**<u>4.</u>** Cut out the hole for the USB cable to pass through the scanner rear cover [A].



- **5.** Pass the USB cable from the IC card reader through the hole in the scanner rear cover, and then reassemble the machine.
- **<u>6.</u>** Do the following steps:
  - Attach the clamps [A] to prevent the cable from sagging.
  - Connect the USB cable to the USB connector at the left of the mainframe as shown below. Either

#### connector can be used.



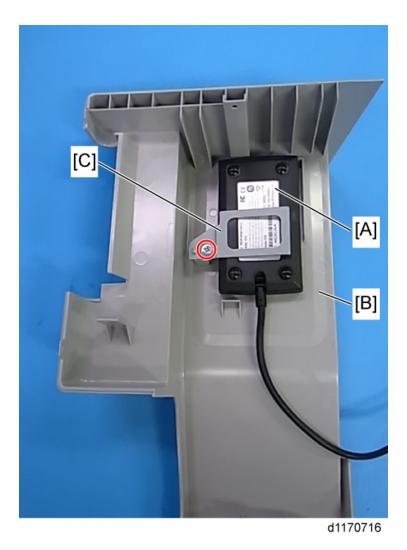
**U**Note

• Obtain these clamps [A] in advance, because they are not included in this kit.

## When Installing in a Machine That Has a 1-Bin Tray Unit

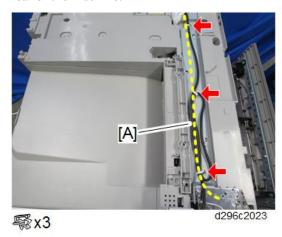
- **1.** Remove the following items.
  - Scanner unit and ADF. (Scanner Unit with the ADF)
  - 1-bin tray unit (1-Bin Tray BN1030 (D574-58))
- 2. Attach the IC card reader [A] to the rear of the front right cover [B] with the bracket [C]. 

  × 1 included in this kit)

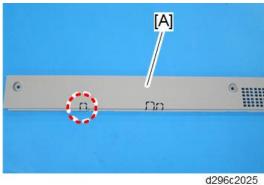


**U** Note

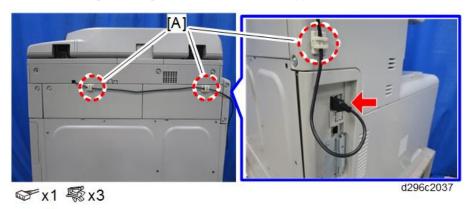
- The bracket [C] is different from that of the base machine. The bracket for the base machine cannot be used. Consult your supervisor to obtain the correct bracket.
- 3. Route the USB cable [A] from the IC card reader as shown below, and then pull out the USB cable from the rear of the machine.



**<u>4.</u>** Cut out the hole for the USB cable to pass through the scanner rear cover [A].



- 5. Pass the USB cable from the IC card reader through the hole in the scanner rear cover, and then reassemble the machine.
- **<u>6.</u>** Attach the clamps [A] to prevent the cable from sagging.



<u>7.</u> Connect the USB cable to the USB connector at the left of the mainframe as shown above. Either connector can be used.



• Obtain these clamps [A] in advance, because they are not included in this kit.

# NFC Card Reader Type M13 (D3AC-21)

## Accessory Check

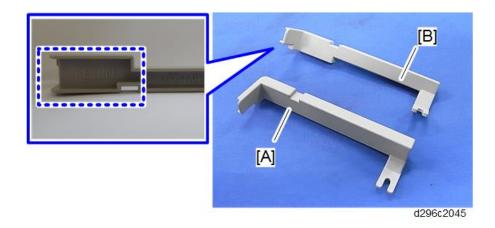


d196z4168

No.	Description	Q'ty
1	Cable Cover	2
2	USB Cable	1
3	NFC Reader	1
4	Ferrite Core	1
-	Caution Chart	1
-	EMC Address	1
-	Fastener	2
-	Decal	2
-	Label	1

## **U** Note

- Two types of cable cover are included:
  - [A]: For a machine that has no 1-Bin tray unit.
  - [B]: For a machine that has a 1-Bin tray unit installed, the cable cover is inscribed "1 BIN".

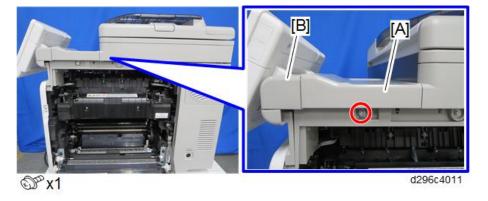


## Installation Procedure

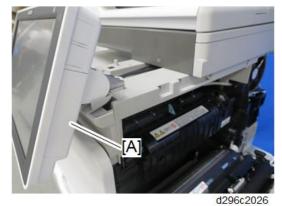
This section includes the procedure for a machine that has no 1-Bin Tray Unit option. However, this procedure can be used for a machine that has a 1-Bin Tray Unit installed.

## **A**CAUTION

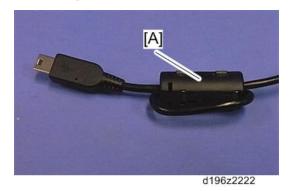
- Turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.
- 1. Open the right cover.
- **2.** Remove the front right cover [A] and hinge cover [B].



**3.** Remove the connector cover [A] on the operation panel.



4. Make a loop with the USB cable of the NFC reader, and then attach the ferrite core [A].



**<u>5.</u>** Connect the USB cable to the operation panel.

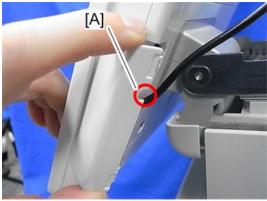


d296c2027

**<u>6.</u>** Attach the cover removed in step 3.



• Fit the cable into the slit [A] in the cover.

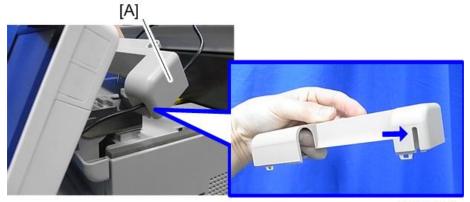


d196z4161

<u>7.</u> Attach the hinge cover [A].



• Fit the cable into the slit.

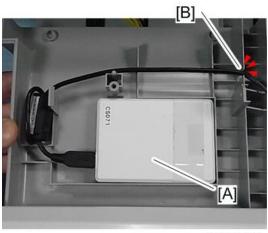


d196z4162

**8.** Attach the fasteners to the front side of the NFC reader [A].



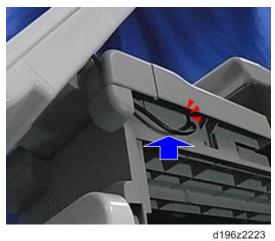
Attach the NFC reader [A] to the back side of the front right cover with adhesive tape.



d196z4166

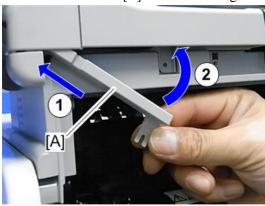


- Make sure that the cable fits in the slit [B].
- 10. Reattach the front right cover with the NFC reader.
- 11. Push the USB cable into the covers.



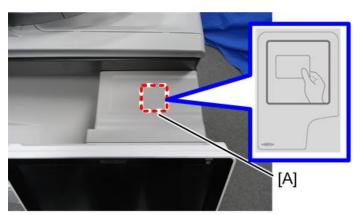
**U**Note

- Again, make sure that the cable fits in the slit.
- 12. Slide the cable cover [A] into the front right small cover as shown below.



d196z4164

- 13. Secure the cable cover together with the front right cover.  $( ^{\circ})^{\circ} \times 1 )$
- 14. Attach the decal to the area [A] as shown below.



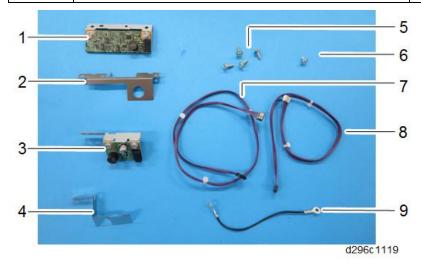
d196z2019

# Page Keeper Type M28 (D3DQ-17)

This option is only for NA/EU.

## Accessory Check

No.	Description	Q'ty	Remark
1	Double-feed sensor: Receiver	1	
2	Ground plate: Receiver	1	
3	Double-feed sensor: Emitter	1	
4	Ground plate: Emitter	1	
5	Tapping Screws: 3x10	4	
6	Screw: M3x6	1	
7	Harness: Receiver	1	Long harness
8	Harness: Emitter	1	Short harness
9	Harness: Ground wire	1	



## Installation Procedure

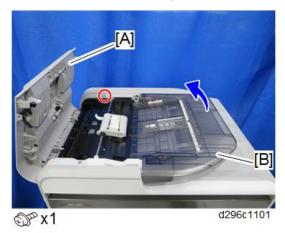
## **ACAUTION**

• Turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

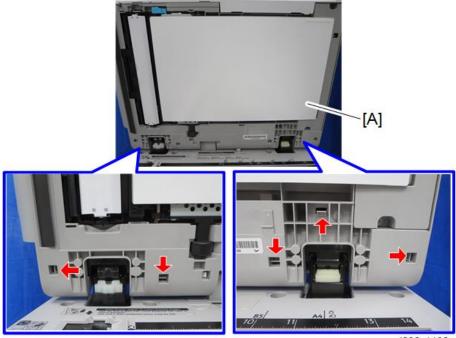
## Removing the ADF rear cover

**1.** Open the ADF top cover [A].

2. Remove the screw, and lift up the original tray [B].

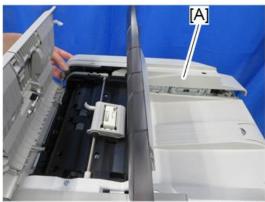


3. Open the ADF [A], and release the five tabs of the ADF rear cover by using a thin screwdriver.



d296c1102

 $\underline{\mathbf{4.}}$  Remove the ADF rear cover [A].

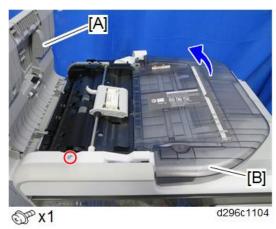


d296c1103

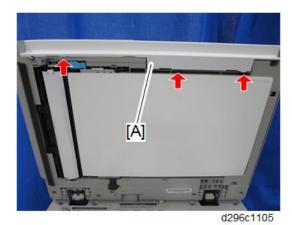
**5.** Close the ADF.

## Removing the ADF front cover

- **1.** Open the ADF top cover [A].
- **2.** Remove the screw, and lift up the original tray [B].



<u>3.</u> Open the ADF, then release the three tabs of the ADF front cover [A].



**4.** Close the ADF slightly, then remove the ADF front cover [A] while releasing the two tabs with a thin screwdriver.



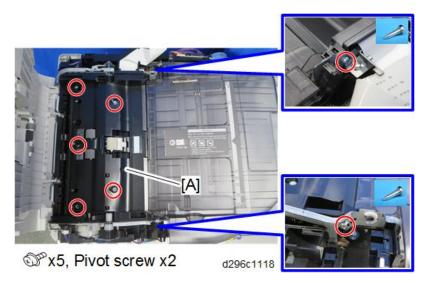
## **Installing the double-feed sensor (emitter)**

1. Slide the shaft [A] of the original feed unit toward the rear to remove it.



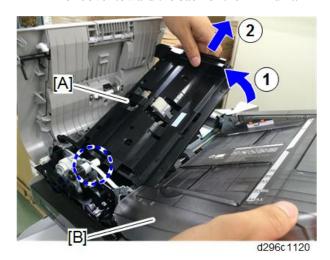
d296c1106

**2.** Remove the ADF inner cover [A].

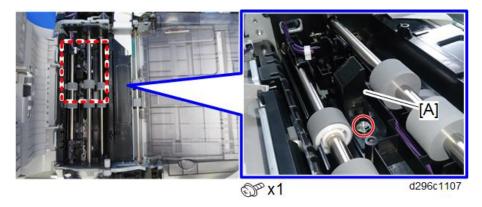




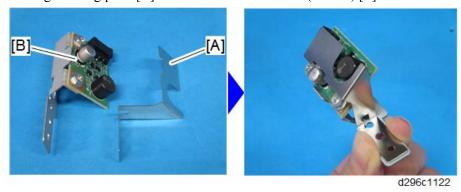
• Lift the back of the ADF inner cover [A] while swinging up the original tray [B], and then slide the ADF inner cover toward the back of the ADF unit.



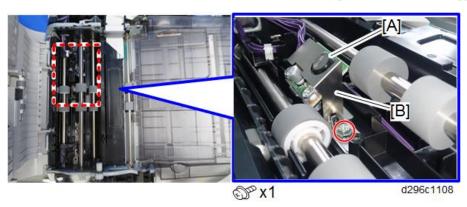
## **3.** Remove the guard [A].



 $\underline{\mathbf{4.}}$  Put the grounding plate [A] on the double-feed sensor (emitter) [B].

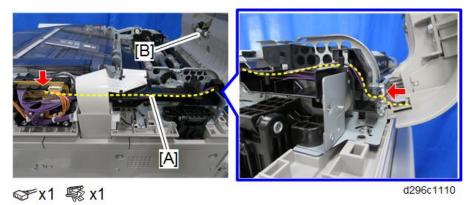


**<u>5.</u>** Attach the double-feed sensor (emitter) [A] and grounding plate [B] as a set. (Tapping screw: 3x10)

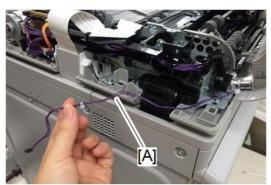


## **Installing the double-feed sensor (receiver)**

1. Disconnect the harness [A] of the ADF top cover [B] from ADF relay board (CN5), and release the clamp.

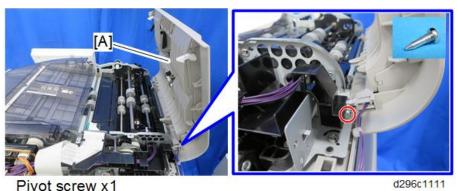


Remove the harness [A] from the harness guide. <u>2.</u>



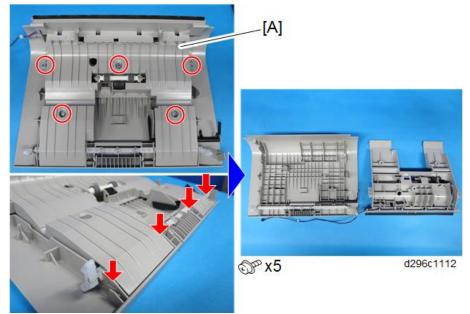
d296c1125

<u>3.</u> Remove the ADF top cover [A].

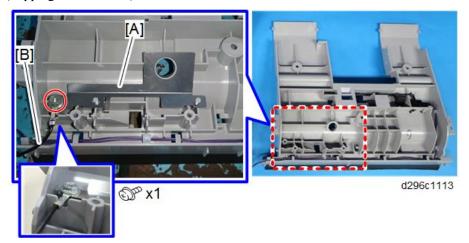


Pivot screw x1

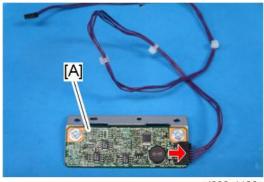
**<u>4.</u>** Remove the five screws and release the four tabs, and then remove the inner cover [A].



5. Attach the grounding plate [A] and the grounding wire [B], and insert the grounding wire in the notch. (Tapping Screw: 3x10)



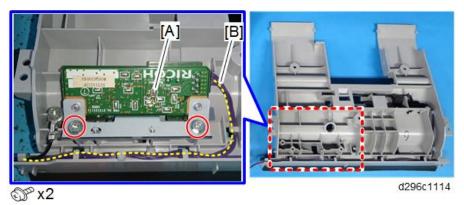
**<u>6.</u>** Connect the long harness to the double-feed sensor (receiver) [A].



d296c1126

7. Attach the double-feed sensor (receiver) [A]. (Tapping screw: 3x10)

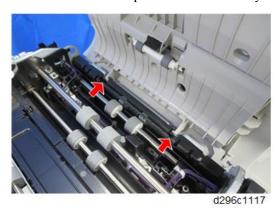
**8.** Route the harnesses [B].



**9.** Reattach the inner cover ( $\mathfrak{S}^{\infty}$ x5), and then reattach the ADF top cover ( $\mathfrak{S}^{\infty}$ x1).



• Make sure the ADF top cover is set correctly so that the two tabs fit into the holes.



10. Attach the clamp while the top cover is open, and attach the ground wire while putting it on the guide (marked by the blue arrow). (Screw: M3x6)



## Connecting the harnesses

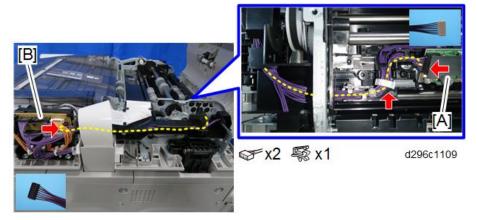
1. Connect the harness to the connector of the double-feed sensor (emitter) [A] and ADF relay board [B] (CN3), and then route it.



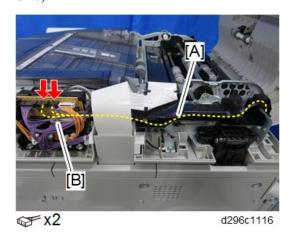
Connect with attention to the connector colors.

- Double-feed sensor: White connector

- ADF relay board: Black connector



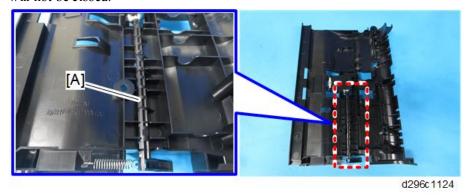
Connect the harnesses [A] from the ADF top cover to the connectors of the ADF relay board [B] (CN5, CN6).



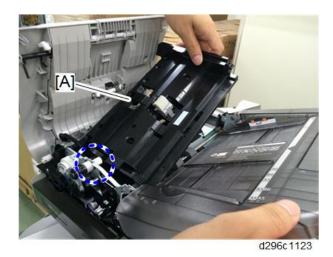
**3.** Reattach the covers and original feed unit.



When reattaching the ADF inner cover, make sure that the shaft [A] fits into the groove (this is the shaft of the lock lever for the friction pad on the back side of the cover). If the shaft does not fit, the ADF top cover will not be closed.

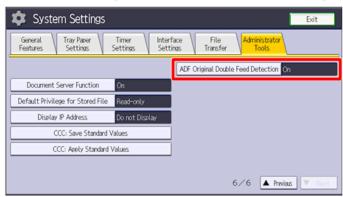


When reattaching the ADF inner cover [A], move it under the coupling shaft (marked by the dashed circle) of the original feed unit, and then you can install the ADF inner cover correctly.



## After installing the double-feed sensor

- **1.** Connect the power cord and turn ON the main power.
- **2.** Enter the SP mode.
- 3. Set the SP6-040-001 (Page Keeper: Mount Select) to "1(ON)".
- 4. Press [END] twice.
- **<u>5.</u>** Turn the main power OFF and ON.
- **6.** Login as Administrator.
- 7. Press the "User Tools" icon.
- **8.** Press [Machine Features] > [System Settings] > [Administrator Tools].
- **9.** Check that [ADF Optional Double Feed Detection] is displayed.



d296c2029

## **Controller Options**

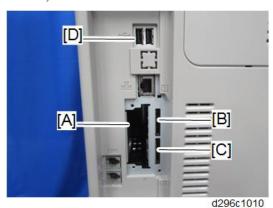
#### Overview

#### **Important**

Always touch a grounded surface to discharge static electricity from your hands before you handle SD cards, printed circuit boards, or memory boards.

This machine has I/F card slots for optional I/F connections and SD card slots applications.

After you install an option, check that the machine can recognize it (See Check All Connections at the end of this section).



Callout Slots Options [A] I/F slot This is used for one of the optional I/F connections (only one can be installed): File Format Converter, IEEE 1284 Interface Board, IEEE 802.11a/g/n Interface Unit, USB Device Server Option, Extended USB board [B]SD card Slot 1 (upper) is used for optional applications (PostScript3 Unit, Camera Direct Print Card, XPS Direct Print Option, Data Overwrite Security Unit, OCR Unit). slot 1 [C] SD card Slot 2 (lower) is used for service only (for example, updating the firmware). slot 2 [D] USB I/F These ports (right and left) [B] are used for the IC Card Reader.

#### SD Card Appli Move

#### Overview

The service program "SD Card Appli Move" (SP5-873) allows you to move application programs from one SD card to another SD card.

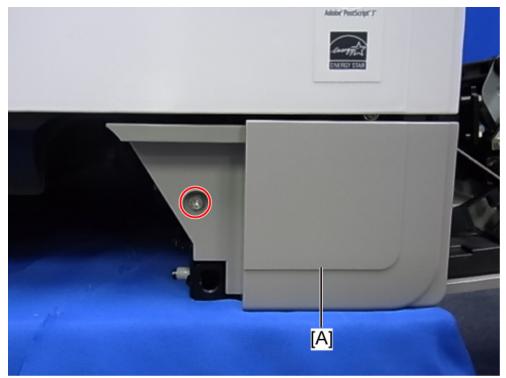
If more than one application is required, the applications must be moved to one SD card with SP5-873-001.

#### Be very careful when you do the SD Card Appli Move procedure:

- The data necessary for authentication is transferred with the application program from an SD card to another SD card. Authentication fails if you try to use the SD card after you move the application program from one card to another card.
- Do not use the SD card if it has been used before for other purposes. Normal operation is not guaranteed

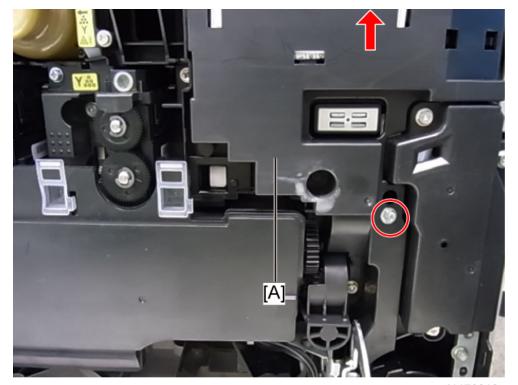
when such an SD card is used.

- The original application SD card should be stored using the following procedure.
- **1.** Remove the paper tray.
- **2.** Remove the cover [A].  $(\mathfrak{P} \times 1)$



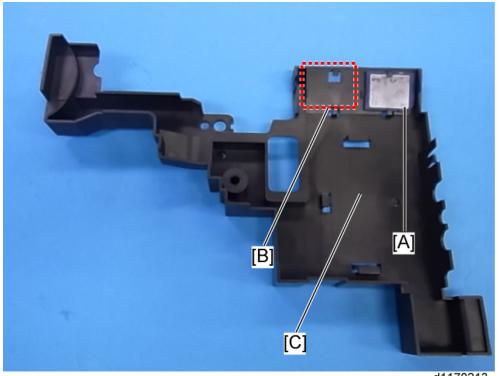
d1170210

# <u>**3.**</u> Open the front door.



d1170212

5. Insert the SD card into either socket [A] or [B].



d1170213

**U**Note

- The place [C] on the cover is for storing the SMC list.
- **<u>6.</u>** Reassemble the machine.
  - The original application SD card should be kept in a safe place, for the following reasons:

- The SD card can be the only proof that the user is licensed to use the application program.
- You may need to check the SD card and its data to solve a problem in the future.

#### Move Exec

"Move Exec" (SP5-873-001) lets you move application programs from the original SD card to another SD card.



- Do not turn ON the write protect switch of the system SD card or application SD card on the machine. If the write protect switch is ON, a download error (e.g. Error Code 44) occurs during a firmware update or application merge.
- **1.** Turn OFF the power.
- **2.** Remove the SD card slot cover [A].



- 3. Make sure that a target SD card is in SD card slot 1 (upper). The application program is moved to this SD card.
- **4.** Insert the source SD card with the application program in SD card slot 2 (lower). The application program is copied from this source SD card.
- **5.** Turn ON the power.
- **6.** Enter the SP mode.
- 7. Select SP5-873-001 "Move Exec".
- **8.** Follow the messages shown on the operation panel.
- **9.** Turn OFF the power.
- **10.** Remove the source SD card from SD card slot 2 (lower).
- 11. Attach the slot cover.
- **12.** Turn ON the power.
- **13.** Check that the application programs run properly.

#### Undo Exec

"Undo Exec" (SP5-873-002) lets you move back application programs from an SD card in SD card slot 1 (upper) to the original SD card in SD card slot 2 (lower). You can use this program when, for example, you have mistakenly copied some programs by using Move Exec (SP5-873-001).

#### Mportant )

- Do not turn ON the write protect switch of the system SD card or application SD card on the machine. If the write protect switch is ON, a download error (e.g. Error Code 44) occurs during a firmware upgrade or application merge.
- **1.** Turn OFF the power.
- 2. Insert the original SD card in SD card slot 2 (lower). The application program is copied back into this card.
- <u>3.</u> Insert the SD card with the application program in SD card slot 1 (upper). The application program is copied back from this SD card.
- **4.** Turn ON the power.
- **5.** Start the SP mode.
- **6.** Select SP5-873-002 "Undo Exec."
- 7. Follow the messages shown on the operation panel.
- **8.** Turn OFF the power.
- **9.** Remove the SD card from SD card slot 2 (lower).
- **10.** Turn ON the power.
- <u>11.</u> Check that the application programs run normally.
- 12. Make sure that the machine can recognize the option (see Check All Connections at the end of this section).

## PostScript3 Unit Type M28 (D3E6-26, -27, -28)

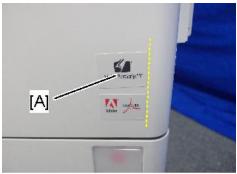
#### **ACAUTION**

- Turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.
- 1. Remove the SD card slot cover [A].



- 2. Insert the SD card in SD slot 1 (upper) with its label face to the front of the machine.
  Merge the SD card contents if necessary. (SD Card Appli Move)
- **3.** Attach the SD card slot cover.

**4.** Stick the "Adobe PostScript3" decal [A] on the front face of the MFP.



d238m0643

- **<u>5.</u>** Turn ON the power.
- **<u>6.</u>** Make sure that the machine can recognize the option. (see Check All Connections at the end of this section)



- The PDF firmware installed as standard contains a program required to print PS3 data as default.
   However, this PS3 program is normally disabled.
- The PS3 firmware is a dongle (key) which enables PS3 data printing functions. When the PS3 firmware is installed, the PS3 program in the PDF firmware is enabled. Due to this specification, the self-diagnosis result report shows the ROM part number/software version of the PDF firmware contained in the PS3 program.

## Camera Direct Print Card Type M26 (D3D8-13)

#### **ACAUTION**

- Turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.
- 1. Remove the SD card slot cover [A].

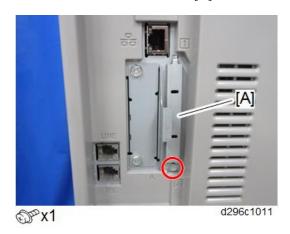


- 2. Insert the SD card (PictBridge) in SD slot 1 (upper) with its label face to the front of the machine.
  Merge the SD card contents if necessary. (SD Card Appli Move)
- 3. Attach the SD card slot cover.
- **4.** Turn ON the power.
- **<u>5.</u>** Make sure that the machine can recognize the option. (see Check All Connections at the end of this section) 130

#### OCR Unit Type M13 (D3AC-23, -24, -25)

#### **ACAUTION**

- Turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.
- **1.** Remove the SD card slot cover [A] from the SD card slots.



- 2. Insert the SD card in SD slot 1 (upper) with its label face to the front of the machine.
- **3.** Turn ON the power.
- 4. Enter the SP mode, and then press "Enter" in SP5-878-004 (Option Setup: OCR Dictionary).

  The SD card ID is saved in the NVRAM, and the ID of the MFP is saved on the SD card. The MFP and SD card are thereby linked.
- **<u>5.</u>** When "operation complete" is displayed, press "Close".



- If installation fails, "Failed" is displayed.
- If installation fails, perform the following steps:
  - 1. Check whether it is a used SD card.
  - 2. Turn the main power OFF, and repeat steps 2-5.
- **<u>6.</u>** Cycle the power OFF and ON.
- 7. Press "Enter" in SP5-878-004 (Option Setup: OCR Dictionary).

Dictionary data is copied to the HDD.



- On the first run, SP5-878-004 links the SD card, and on the second run, copies dictionary data.
- **8.** Turn OFF the power, and remove the SD card from the SD card slot.



- Keep the SD card in the SD card storage location of the MFP. The original SD card is needed in the event of a HDD malfunction.
- **9.** Return the SD card slot cover to the original position.
- **10.** Turn ON the power.

11. Press [Send File Type / Name] on the [Scanner] screen.



w d1351739

**12.** Check if [OCR Settings] is displayed on the [Send File Type / Name] screen.



w\_d1351740



- After installation, the OCR setting can be changed on the "OCR setting" screen.
- When setting up OCR, set [OCR setting] to [Yes]. (Default setting: [No])

#### Recovery Procedure

When this option is installed, a function is saved on the HDD, and ID information on the SD card is saved in the NVRAM. Therefore, when replacing the HDD and/or NVRAM, this option must be reinstalled.

#### When storing the original SD card and;

- When only the HDD is replaced;
   Reinstall using the original SD card.
- When only the NVRAM is replaced;
   When performing upload/download of NVRAM data, reinstall using the original SD card.
   When not performing upload/download of NVRAM data, order and reinstall a new SD card (service part).
- When the HDD and NVRAM are replaced simultaneously;
   Reinstall using the original SD card.

#### If the original SD card is lost;

Order and reinstall a new SD card (service part).



• Perform reinstallation in the same way as installation.

#### XPS Direct Print Option Type M28 (D3E6-02, -19, -20)

#### **ACAUTION**

- Turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.
- 1. Remove the SD card slot cover [A].



- 2. Insert the SD card (XPS) in SD slot 1 (upper) with its label face to the front of the machine.
  Merge the SD card contents if necessary. (SD Card Appli Move)
- **3.** Attach the SD card slot cover.
- **4.** Turn ON the power.
- 5. Make sure that the machine can recognize the option. (see Check All Connections at the end of this section)

#### Data Overwrite Security Unit Type M19 (D3BS-03)

#### Overview

This option should be installed only for the customer who requires the CC certified Data Overwrite Security function.

The machine's hard disk stores all document data from the Copier, Printer, and Scanner functions. It also stores the data of users' Document Server and code counters, and the Address Book. To prevent data on the hard disk being leaked before disposing of the machine, you can overwrite all data stored on the hard disk (Erase All Memory). You can also automatically overwrite temporarily-stored data (Auto Erase Memory).

The function of this option is completely the same as the Data Overwrite Security in Security Functions, which is standard on this machine.

#### Before You Begin the Procedure

1. Confirm that the Data Overwrite Security unit SD card is the correct type for the machine. The correct type for this machine is "Type M19".

#### ( Important

- If you install any version other than "Type M19", you have to replace the NVRAM and do this installation procedure again.
- 2. Make sure that the following settings are not at their factory default values:
  - Supervisor login password
  - Administrator login name
  - Administrator login password

If any of these settings is at a factory default value, tell the customer these settings must be changed before you do the installation procedure.

**3.** Make sure that "Admin. Authentication" is ON.

[User Tools] > [Machine Features] > [System Settings] > [Administrator Tools] > [Administrator Authentication Management] > [Admin. Authentication]

If this setting is OFF, tell the customer this setting must be ON before you do the installation procedure.

**4.** Make sure that "Administrator Tools" is enabled (selected).

[User Tools] > [Machine Features] > [System Settings] > [Administrator Tools] > [Administrator Authentication Management] > [Available Settings]

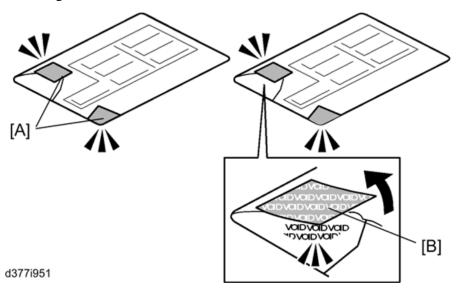
If this setting is disabled (not selected), tell the customer this setting must be enabled (selected) before you do the installation procedure.

#### Seal Check and Removal

#### **CAUTION**

- You must check the box seals to make sure that they are not removed after the items have been sealed in the box at the factory before you do the installation.
- 1. Check the box seals [A] on each corner of the box.
  - Make sure that a tape is attached to each corner.
  - The surfaces of the tapes must be blank. If you see "VOID" on the tapes, do not install the components in the box.
- 2. If the surfaces of the tapes do not show "VOID", remove them from the corners of the box.
- 3. You can see the "VOID" marks [B] when you remove each seal. In this condition, they cannot be attached to

the box again.



#### Installation Procedure

#### **ACAUTION**

- Turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.
- **1.** Remove the SD card slot cover [A].



**2.** Insert the SD card (DataOverwriteSecurity Unit) in SD slot 1 (upper) with its label face to the front of the machine.

Merge the SD card contents if necessary. (SD Card Appli Move)

- **3.** Reattach the SD card slot cover.
- **4.** Turn ON the main power.
- **5.** Enter the SP mode.
- **6.** Do this step only if you are installing the option on a machine that is already in use (not a new machine):
  - If the customer wishes to continue using the same hard disk, execute all three SP modes below.
    - SP5-801-014 (Clear DCS Setting)
    - SP5-832-001 (HDD Formatting (ALL))

- SP5-832-002 (HDD Formatting (IMH))
- **If customer wishes to** replace the hard disk with a new one, execute SP5-801-014 only.



If the customer continues using the same hard disk, the overwriting of the data stored on the disk before the option is installed cannot be guaranteed. It is highly recommended to replace the hard disk with a new one.

- 7. Set SP5-836-001 (Capture Function (0:Off 1:On)) to a value of 0 (disabled).
- **8.** Execute SP5-878-001 ([Option Setup: Data Overwrite Security).

  If the installation fails, "Installation failed" is displayed when this SP is executed.
- **9.** Print out the System Settings List and make sure that the option was installed successfully.
- 10. Reconnect the network cable.
- 11. Execute SP5-990-005 (SP print mode Diagnostic Report).

Make sure to shut down and reboot the machine once before printing the SMC. Otherwise, the latest settings may not be collected when the SMC is printed.

- 12. Make sure that ROM number "D3BC5757A" and firmware version "1.02" appear in both of the following areas on the report (they must match):
  - "ROM Number / Firmware Version" "HDD Format Option"
  - "Loading Program"

Configuring "Auto Erase Memory" (Performed by the Customer)

Refer to "Using Auto Erase Memory."

File Format Converter Type M19 (D3BR-04)

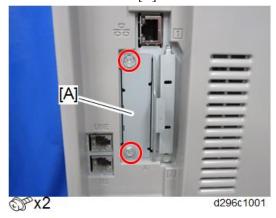
#### **ACAUTION**

• Turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

You can only install one of the following network interfaces at a time:

- File Format Converter
- IEEE 1284 Interface Board
- IEEE 802.11a/g/n Interface Unit
- USB Device Server Option
- Extended USB board

**1.** Remove the slot cover [A].



**2.** Install the file format converter [A] into the slot and then fasten it with screws.



d1170021

- 3. Plug in and turn on the main power switch.
- **4.** Check or set the following SP codes with the values shown below.

SP No.	Title	Setting
SP5-836-001	Capture Function (0:Off 1:On)	"1"
SP5-836-002	Panel Setting	"0"

5. Make sure that the machine can recognize the option (see Check All Connections at the end of this section).

#### IEEE 1284 Interface Board Type M19 (D3C0-17)

# **ACAUTION**

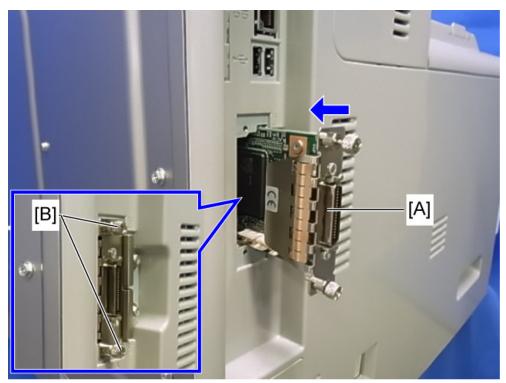
• Turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

You can only install one of the following network interfaces at a time:

- File Format Converter
- IEEE 1284 Interface Board
- IEEE 802.11a/g/n Interface Unit
- USB Device Server Option
- Extended USB board
- **1.** Remove the slot cover [A].



 $\underline{2}$ . Install the interface board [A] into the slot. (Knob-screw  $\times$  2 [B])



d1170019a

3. Make sure that the machine can recognize the option (see Check All Connections at the end of this section).

#### IEEE 802.11a/g/n Interface Unit Type M19 (D3BR-01)

#### **ACAUTION**

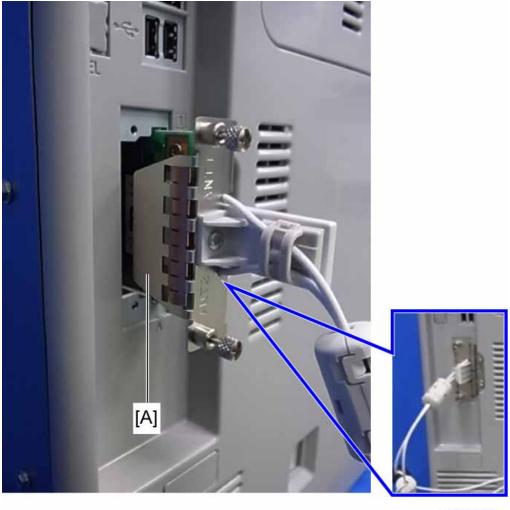
• Turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

You can only install one of the following network interfaces at a time:

- File Format Converter
- IEEE 1284 Interface Board
- IEEE 802.11a/g/n Interface Unit
- USB Device Server Option
- Extended USB board
- 1. Remove the slot cover [A] from the board slot.



**2.** Install the wireless LAN board [A] (Knob  $\mathfrak{P} \times 2$ ) into the board slot.

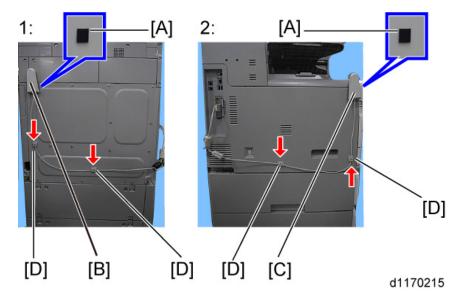


d1170022

- <u>3.</u> Make sure that the machine can recognize the option (see Check All Connections at the end of this section).
- **4.** Do the following steps.
  - Peel off the double-sided tapes on the Velcro fasteners [A], and then attach them [A] at the front left and rear of the machine.
  - Attach "ANT1" (having a black ferrite core) [B] to the rear of the machine.
  - Attach "ANT2" (having a white ferrite core) [C] to the front left (forward) of the machine.



- "ANT1" is a transmission/reception antenna and "ANT2" is a reception antenna. Do not attach them at the wrong places.
- Attach the clamps [D] as shown below.



- 1: Rear
- 2: Left
- 5. Wire the cables and clamp them. ( $\% \times 4$ )



• Make sure that the cables are not slack. Keep them wired tightly along the covers.

You may have to move the machine if the reception is not clear.

- Make sure that the machine is not located near an appliance or any type of equipment that generates strong magnetic fields.
- Put the machine as close as possible to the access point.

#### User Tool Settings for Wireless LAN

Enter the UP mode. Then do the procedure below to perform the initial interface settings for IEEE 802.11a/g/n. These settings take effect every time the machine is powered on.



- You cannot use the wireless LAN if you use Ethernet.
- 1. Press the "User Tool" icon.
- **2.** Press "Machine Features" > "System Settings".



- Select "Interface Settings"> "Network" > "LAN Type". The "LAN Type" (default: Ethernet) must be set for either Ethernet or wireless LAN.
- 3. Select "Interface Settings" > "Wireless LAN". Only the wireless LAN options show.
- **4.** Set the "Communication Mode".
- **<u>5.</u>** Enter the SSID setting. (The setting is case sensitive.)
- **6.** Set the "Ad-hoc Channel". You need this setting when Ad Hoc Mode is selected. The allowed range for the channel settings may vary for different countries.

Region A (mainly Europe and Asia)

Range: 1-13, 36, 40, 44 and 48 channels (default: 11)

#### 2.Installation

In some countries, only the following channels are available:

Range: 1-11 channels (default: 11) Region B (mainly North America)

Range: 1-11, 36, 40, 44 and 48 channels (default: 11)

- 7. Set the "Security Method" to specify the encryption of the Wireless LAN.
  - The WEP (Wired Equivalent Privacy) setting is designed to protect wireless data transmission. The same WEP key is required on the receiving side to unlock encoded data. There are 64 bit and 128 bit WEP keys.

Range of Allowed Settings:

- 64 bit: 10 characters
- 128 bit: 26 characters
- Specify "WPA2" when "Communication Mode" is set to "Infrastructure Mode". Set the "WPA2 Encryption Method" and "WPA2 Authent. Method".

WPA2 Encryption Method: CCMP (AES) is fixed.

WPA2 Authent. Method: Select either "WPA2-PSK" or "WPA2".

If you select "WPA2-PSK", enter the pre-shared key (PSK) of 8-63 characters in ASCII code. When "WPA2" are selected, authentication settings and certificate installation settings are required.

**8.** Press "Wireless LAN Signal" to check the machine's radio wave status using the operation panel.



Press "Restore Factory Defaults" to initialize the following settings:

- Transmission mode
- Channel
- WEP
- SSID
- WEP Key

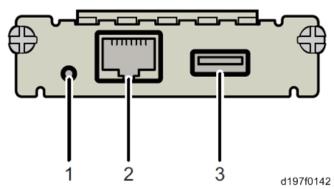
#### SP Mode and UP Mode Settings for IEEE 802.11a/g/n

The following SP commands and UP modes can be set for IEEE 802.11a/g/n:

SP No.	Name	Function	
SP5-840-	WEP Key	Used to select the WEP key (Default: 00).	
011	Select		
UP mode	Name	Function	
	SSID	Used to confirm the current SSID setting.	
	WEP Key	Used to confirm the current WEP key setting.	
	WEP Mode	Used to show the maximum length of the string that can be used for the WEP	
		Key entry.	

# USB Device Server Option Type M19 (D3BC-28, -29)

#### Interface Board Surface



No.	Item	Description
1	Switch	Used to reset to the factory settings.
2	Ethernet port	Used to connect the Ethernet cable.
3	USB port	Used to connect this option to the main machine.
		Do not use this port with other options.



When installing the USB device server option, make sure that the labels 'USB-A' and 'Ethernet' are upside down.



d296c1006

#### Installation Procedure

#### **ACAUTION**

• Turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

You can only install one of the following network interfaces at a time:

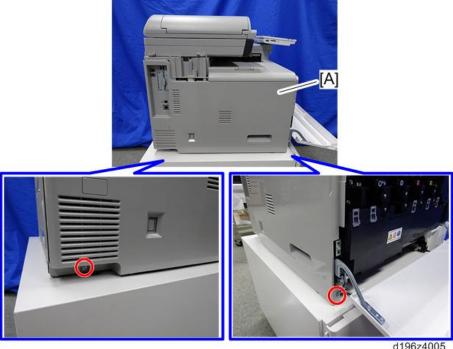
- File Format Converter
- IEEE 1284 Interface Board
- IEEE 802.11a/g/n Interface Unit
- USB Device Server Option
- Extended USB board

#### 

- When you install this option on the main machine for the first time, the interface board must be connected directly to your PC to set up the IP address and other network settings.
- <u>1.</u> Remove the upper left cover [A].

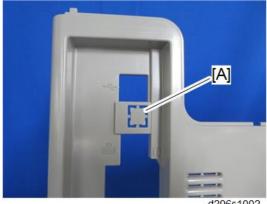


Open the front cover, and then remove the left cover [A]. <u>2.</u>



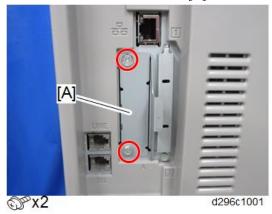
d196z4005

Cut off the USB port cover [A] with nippers or other such tool.

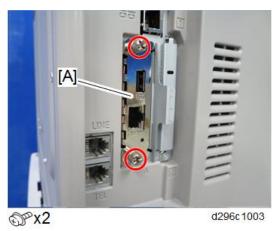


d296c1002

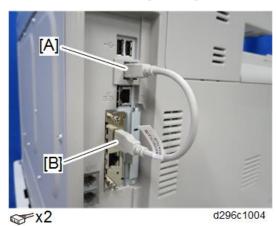
- **<u>4.</u>** Reattach the left cover and upper left cover.
- **<u>5.</u>** Remove the interface slot cover [A].



**6.** Insert the interface board [A] in the interface slot and then fasten it with screws.



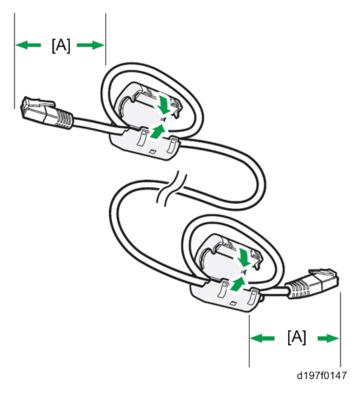
7. Insert the USB cable into the USB port (Type A) [A] on the main machine, and insert the other side of the USB cable into the USB port (Type B) [B] on this option.



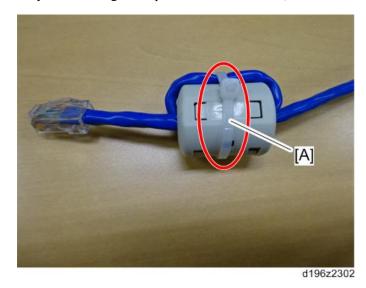
**8.** Attach the ferrite cores to the Ethernet cable, while looping the cable at 3 cm (approx. 1.2 inch) [A] from the

## 2.Installation

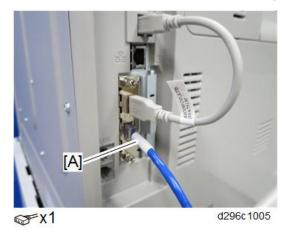
each end of the cable.



9. Only for installing this option in North America, bind both cores with cable ties [A] as shown below.



**10.** Insert the Ethernet cable [A] into the Ethernet port on this option.



- 11. Insert the other end of the Ethernet cable to a PC for network setting.
- <u>12.</u> Plug the power cord and turn ON the power.



- Do not unplug the USB cable while the machine is recognizing this option. It may take between 30 seconds to 1 minute to finish recognizing it (the LEDs on the Ethernet port of this option light up after recognizing this option; see below). If unplugged, connect the cable again.
- 13. Make sure that the machine recognizes this option correctly by doing one of the following:
  - 1. Access the option's IP address from a web browser.
  - 2. Ping the option's IP address from a command prompt on a Windows PC in the same network as the mainframe.

If the IP address cannot be found (DHCP server), use the MAC address. This is the number printed on the seal attached to the printed circuit board for the USB server.



d196z2350

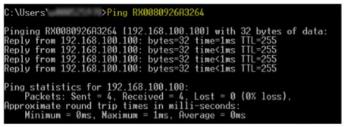
3. Use "RX" + the option's MAC address and access a web browser.

Example: http://RX0080926A3264

#### 2.Installation



4. Ping the "RX" + "MAC address" from the command prompt, on a windows PC which is on the same network as the mainframe.



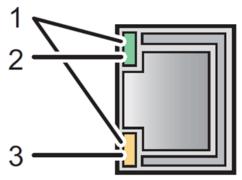
d196z2352



• When installing the USB Device Server Option Type M19, the installation status is not shown on the Configuration Page.

#### What Do the LED Indications Mean?

When this option is properly installed and recognized by the main machine, the LED indicators light up under the following conditions.



d197f0149

No.	Light Color	Lights Up When:
1	Green and Yellow	1000BASE-T operates
2	Green	10BASE-T operates
3	Yellow	100BASE-TX operates

#### Notes for Energy Save Mode Setting

If the machine which has this option enters into the energy save mode, you cannot print because there will be a communication error. Follow the instructions below to disable the machine's entering the energy save mode.

- **1.** Press [Features Settings] on the operation panel.
- **2.** Press [Administrator Tools] in [System Settings].
- **3.** Press [Energy Saver Mode to Disable Print Server].

- **4.** Press [Disable Mode].
- **5.** Press [OK].
- **6.** Press [Features Settings].

#### IP Address Setting

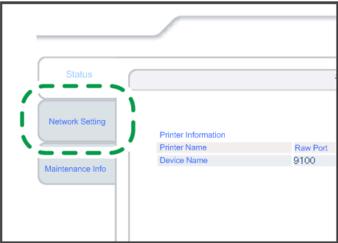
This section describes how to set an IP address on this option manually. Note that you can set an IP address which is not only on the same network segment but also on a different network segment to share a single printer with devices in multiple networks.

#### 

- You cannot change the IP address for this option from the operation panel of the main machine. The setting must be done from a web browser on your PC.
- The network setting of this option is initially assigned as follows: IP address: 192.168.100.100 / Subnet mask: 255.255.255.0
- The network setting of your PC must be in the same network segment to change the network setting of this option.
- **1.** Make a note of the current network settings of your PC.
- **2.** Change the IP address on your PC to [192.168.100.xxx (\*0 255)].
- **3.** Change the subnet mask on your PC to [255.255.255.0].
- **4.** Open a web browser.
- **<u>5.</u>** Type [http://192.168.100.100/] in the address bar.
- **6.** Press the "Enter" key.



- The setting screen for this option appears.
- <u>7.</u> Click [Network Setting].



d197f0134

**8.** Enter "root" in the user name textbox and click [OK].

#### 2.Installation

**9.** Input [IP Address], [Subnet Mask] and [Default Gateway].



- 10. Set other items if necessary.
- **11.** Press [Set].
- 12. Close the web browser.
- 13. Disconnect the Ethernet cable from the PC.
- 14. Connect the Ethernet cable to a network device (e.g. switching hub).
- 15. Set the IP address of this option in the printer driver which you use.

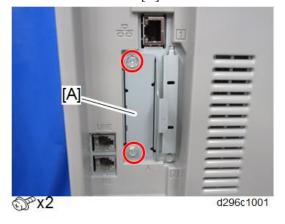
#### Extended USB Board Type M19 (D3BS-01)

#### **ACAUTION**

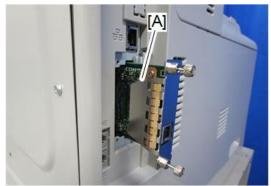
Turn OFF the main power and unplug the power cord from the wall socket. If installing without turning OFF the main power, an electric shock or a malfunction may occur.

You can only install one of the following network interfaces at a time:

- File Format Converter
- IEEE 1284 Interface Board
- IEEE 802.11a/g/n Interface Unit
- USB Device Server Option
- Extended USB Board
- 1. Remove the slot cover [A].



**2.** Install the interface board [A] into the slot and then fasten it with screws.



d296c2039

- 3. Make sure that the machine can recognize the option on Web Image Monitor.
  - 1. Start Web Image Monitor.
  - 2. Log in as the machine administrator.
  - 3. Click [Device Management] > [Configuration] > [Interface Setting].
  - 4. Check that the [USB] is "Active".

#### Check All Connections

- **1.** Plug in the power cord.
- **2.** Turn ON the main power.
- 3. Enter the printer user mode. Then print the configuration page.[User Tools] > [Machine Features] > [Printer Features] > [List Test Print] > [Configuration Page]All installed options are shown in the "System Reference" column.

# 3. Preventive Maintenance

# **Maintenance Tables**

See "Appendices" for the following information:

• Maintenance Tables

# **PM/Yield Parts Settings**

#### Replacement Procedure of the PM/Yield Parts

There are two ways to reset the PM counter for this machine.

- Method 1: Reset by SP3-701 (New Unit Detection). This is the conventional method
- Method 2: Reset by [PM Counter / New Unit Set] Menu

Method 2 is recommended for its ease of operation.



For the following units, there is a new unit detection mechanism. It is not necessary to reset PM counters.

- Fusing unit
- PCDU
- Waste toner bottle (When the bottle is replaced AFTER a waste toner full or near-full message appears on the operation panel)

#### Method 1: By SP3-701 (New Unit Detection)

- **1.** Enter the SP mode.
- **2.** Output the SMC log data using one of the following ways:
  - a) Execute SP5-990-001 to print SMC log data.
  - b) Execute SP5-992-001 to save SMC log data to an SD card. (Refer to "SMC List Card Save Function")



You can print out the PM counter list as follows.

1. In the SP mode menu, press [PM Counter / New Unit Set].



d296c3006

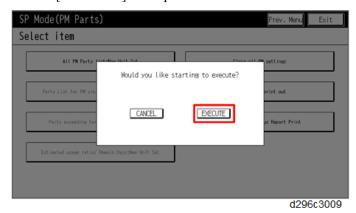
2. Press [Counterlist print out].

#### 3. Preventive Maintenance



d296c3007

3.Press [EXECUTE] to output the PM counter list.



- 4. Press [Exit].
- <u>3.</u> In the SMC data, check the values of the counters in SP7-621-002 to 208, to determine what parts should be replaced. (Refer to the SP table in the appendix.)
- 4. Set the following SPs (New Unit Detection) to "1" to reset the PM counter.

Item	SP
Fusing sleeve belt assembly	SP3-701-116
Pressure roller	SP3-701-118
ITB unit	SP3-701-093
Paper transfer roller unit	SP3-701-109
Waste toner bottle	SP3-701-142
(When the bottle is replaced BEFORE a waste toner full or near-full message	
appears)	
Tray paper feed	Feed roller:SP3-701-147
	Friction pad: SP3-701-
	148
Bypass feed roller	SP3-701-169
ADF	Friction pad: SP3-701-
	206
	Pickup roller: SP3-701-
	207

Item	SP
	Feed roller: SP3-701-208
Toner transport section	K: SP3-701-220
	C: SP3-701-221
	M: SP3-701-222
	Y: SP3-701-223

The PCDU and fusing unit detect a new unit automatically.

- 5. Turn OFF the main power, and unplug the power cord.
- **<u>6.</u>** Replace the PM parts and turn ON the power.

The machine will reset the PM counters automatically. In the case of the development unit, developer initialization will also be done automatically.

7. Exit the SP mode.

#### Method 2: By [PM Counter / New Unit Set] Menu

- **1.** Enter the SP mode.
- **2.** Output the SMC log data using one of the following ways:
  - a) Execute SP5-990-001 to print SMC log data.
  - b) Execute SP5-992-001 to save SMC log data to an SD card. (Refer to "SMC List Card Save Function")



You can print out the PM counter list as follows.

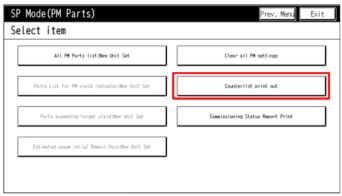
1. In the SP mode menu, press [PM Counter / New Unit Set].



d296c3006

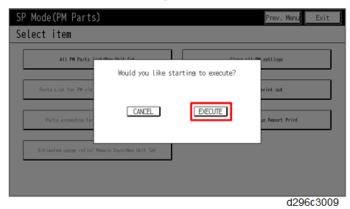
2. Press [Counterlist print out].

#### 3. Preventive Maintenance



d296c3007

3. Press [EXECUTE] to output the PM counter list.



- 4. Press [Exit].
- <u>3.</u> In the SMC data, check the values of the counters in SP 7-621-002 to 208, to determine what parts should be replaced. (Refer to the SP table in the appendix.)
- **4.** In the SP mode menu, press [PM Counter / New Unit Set].



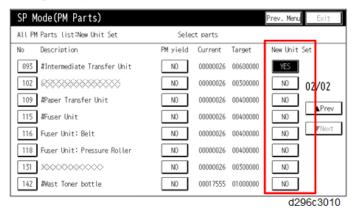
d296c3006

**<u>5.</u>** Press [All PM Parts List : New Unit Set].



**<u>6.</u>** Set the PM part that you want to replace to "YES" under "New Unit Set".

After pressing "YES", the [Exit] key will not be available.



- 7. Turn OFF the power and unplug the power cord.
- **8.** Replace the PM parts and turn ON the power.

The machine will reset the PM counters automatically. In the case of the development unit, developer initialization will also be done automatically.

**9.** Exit the SP mode.

#### After Installing the New PM Parts

- 1. Turn the main power ON, and enter the SP mode.
- 2. Make sure that the PM counters for the replaced units are "0" with SP7-621-002 to 208. If the PM counter for a unit was not reset, then execute the new unit detect setting with SP3-701 again and turn the main power OFF/ON.



You can print out the PM counter list as follows.

1. Press [PM Counter / New Unit Set].

#### 3. Preventive Maintenance



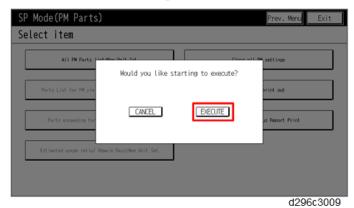
d296c3006

2. Press [Counterlist print out].

SP Mode(PM Parts)	Prev. Menu Exit
Select item	
All PM Parts list:Mew Unit Set	Clear all PM settings
Parts List for PM yield indicator:New Unit Set	Counterlist print out
Parts exceeding target yield:New Unit Set	Commissioning Status Report Print
Estimated usage ratio/ Remain Days:New Unit Set	

d296c3007

3. Press [EXECUTE] to output the PM counter list.



Preparation before Operation Check

- 1. Clean the exposure glasses (for DF and book scanning).
- **2.** Enter the user tools mode.
- **3.** Do the "Automatic Color Calibration (ACC)" for the copier mode and printer mode as follows:
  - Print the ACC test pattern (User Tools > Maintenance > ACC > Start).
  - Put the printout on the exposure glass.

- Put 10 sheets of white paper on the test chart. This ensures a precise ACC adjustment.
- Close the ADF or the platen cover.
- Press "Start Scanning" on the LCD. Then, the machine starts the ACC.
- **<u>4.</u>** Exit the User Tools mode, and then enter the SP mode.
- **5.** Do the "Forced line position adjustment" as follows.
  - First do SP2-111-3 (Mode c).
  - Then do SP2-111-1 (Mode a).
  - To check if SP 2-111-1 was successful, watch the screen during the process. Amessage is displayed at the end. Also, you can check the result with SP 2-194-10 to -12.
- **6.** Exit the SP mode.

#### Operation Check

Check if the sample image has been copied correctly.

# 4. Replacement and Adjustment

#### **Notes on the Main Power Switch**

#### Push Switch

The main power button of this machine has been changed to a push-button switch from the conventional rocker switch. The push switch has characteristics and specifications different from the rocker switch. Care must be taken when replacing and adjusting parts.

Characteristics of the Push Switch (DC Switch)

#### Power is supplied to the machine even when the main power switch is turned OFF.

The push switch in this machine uses DC (direct current). Therefore, if the AC power cord is connected to an electrical outlet, power is supplied to the controller board, the operation unit and other modules even when the main power is turned OFF. When replacing the controller board and the operation unit in this state, not only these boards, it will damage other electrical components.

So, when performing maintenance work such as replacing parts, in addition to turning off the main power with the push switch, always unplug the AC power cord after the LED on the operation panel is turned off.



• If you unplug the power cord before turning off the LED, some icons on the operation panel will not appear at the next start-up. Restarting the machine again will solve this issue.

# When you disconnect the power cord from the AC wall outlet, inside the machine there is still residual charge.

When you disconnect the power cord from the AC wall outlet, there is still residual charge inside the machine for a while. Therefore, if you remove boards in this state, it can cause a blown fuse or memory failure.

How to remove the residual charge inside the machine
 After you unplug the power cord from the AC wall outlet, in order to remove the residual charge from inside the machine, press the main power switch. The charge remaining in the machine is released, and it is possible to remove boards.

#### When you reconnect the AC power cord into an AC wall outlet, the machine will start automatically.

In order to remove the residual charge, push the main power switch after you disconnect the AC power cord. At that time, the power ON flag inside the machine is set. Therefore, after you finish work on the machine and reconnect the power cord to the AC, even if you do not press the main power switch, the machine will start automatically and the moving parts will begin to move. When working on moving parts, be careful that fingers or clothes do not get caught.



Automatic restart deals with cases when you accidentally unplugged the AC power cord or unexpected

power outages. By keeping the power flag ON, after the resumption of power, the machine will start up automatically.

In rare cases, when you reconnect the AC power cord to a power outlet, the machine does not start automatically. In this case, the machine has not failed. The cause is due to the timing of releasing the residual charge. If you press the main power switch when the residual charge was already released, the power ON flag will not be set. At this time, start the machine manually by pressing the main power switch.

#### Shutdown Method

- 1. Press the main power switch [A] on the machine.
- 2. The shutdown message appears. After the shutdown process, the main power is turned off automatically. The LED on the operation panel is turned off when the machine completes the shutdown.



### **ACAUTION**

Before removing and adjusting electrical boards, do the following procedure. Otherwise, the board can be damaged by the residual charge inside the machine and must be replaced.

- 3. Take out the power cord after shutdown.
- 4. Press the power switch for a second to remove the residual charge inside the machine.

#### Forced Shutdown

In case normal shutdown does not complete for some reason, the machine has a forced shutdown function.

To make a forced shutdown, press and hold the main power switch for 6 seconds.

In general, do not use the forced shutdown.

#### Mportant )

Forced shutdown may damage the hard disk and memory, and can cause damage to the machine. Use a
forced shutdown only if it is unavoidable.

#### **Beforehand**

## **ACAUTION**

• Before installing options, please do the following:

If there is a fax unit in the machine, print out all messages stored in the memory, the lists of user-programmed items, and the system parameter list.

If there are printer jobs in the machine, print out all jobs in the printer buffer.

Turn OFF the main switch and disconnect the power cord, the telephone line, and the network cable.

#### 

Always touch a grounded surface to discharge static electricity from your hands before you handle SD cards, printed circuit boards, or memory boards.

#### **U** Note

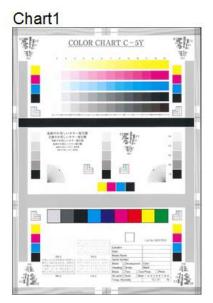
- Before you start to remove components from the machine, do the following:
- Turn OFF the main power switch.
- Make sure that the shutdown process has finished and that the LED on the operation panel has turned OFF.
- Unplug the power cord.
- After the main power switch of the machine has been turned off, the power relay board (SDB) keeps the power supply to the controller until the HDD unit has been shut down safely.

# **Special Tools**

Part Number	Description	Q'ty	
B645 5010	SD Card 128MB	1	
B645 5020	SD Card 1GB	1	
B645 5030	SD Card 2GB	1	
B645 5040	SD Card 8GB	1	
5203 9502	Silicone Grease G-501	1	
A257 9300	Grease Barrierta – S552R 1		
C401 9503	20X Magnification Scope 1		
VSST 9003	C-5Y Color Chart (3 pcs/set)		
B132 9700	Lubricant Powder 1		

**U**Note

• C-5Y Color Chart is a set of two A4 size charts and looks like this.

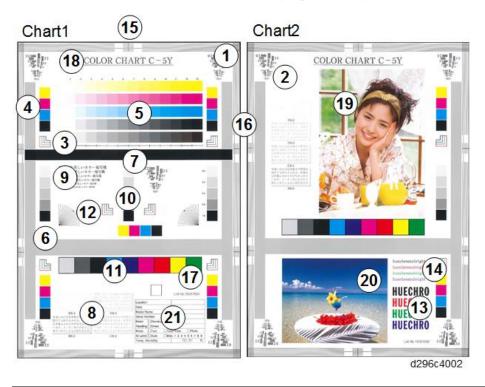




# **Image Adjustment**

# How to Use the Color Charts

Here is an introduction of how to check the image quality using the color charts.



No.	Check Area	Check Item	Description
1	Frame line	Registration	Check the registration amount of the leading edge and trailing edge
		amount	(sub scan direction). Overlay the chart and the copy, then check
			that the frame lines of the side [A] and leading edge [B] do not
			deviate.
			Chart: [A] Copy: [A]
		Margin length	Check the margin length of the leading edge and trailing edge (sub
			scan direction). Overlay the chart and the copy, then check the
			erased length [A] (margin length).
			Chart: Copy: [A]
			<b>(A)</b>
		Perpendicularity	Fold the paper, and check the deviation of the superimposed frame
			lines. If deviations in the main scan direction and sub scan

No.	Check Area	Check Item	Description
			direction are the same, it is a right angle.
			[C]
			1. Check the lengths between the leading edge and front end frame line at measuring positions [A] and [B].  2. Check the lengths between the side edge and lateral frame line at measuring positions [C] and [D].  At this time, position [D] is equivalent to position [A], when making the fold line as shown in the above figure.  3. Check the difference between 1 and 2.  If each deviation is different, it is a parallelogram image (non-right angle).  If the deviations are the same, it is a right angle. If there are deviations, check the feed mechanism for errors such as skewing.  Example:
			Right angle, correct feeding     Right angle, incorrect feeding (Oblique feeding)
			3: Non-right angle, correct feeding (Parallelogram)
			4: Non-right angle, incorrect feeding (Oblique
			feeding+Parallelogram)
		Linearity	Check the linearity with a scale. Check in both the main scan
			direction and sub scan direction.
			Overlay the scale on any frame line, adjust to a position where the
			frame line is not hidden, and measure the most distant position. If
			difficult to check, draw an auxiliary baseline in position with no

No.	Check Area	Check Item	Description
			distortion to the frame line, and measure the deviation length from
			the baseline with the scale.
			1mm
			A: Measuring length, B: Base line, C:Copy
			If meandering, measure the maximum amplitude. If difficult to
			measure, draw an auxiliary baseline, measure the deviation length
			from the baseline with the scale, and sum it up.
			[C] 100mm [B] 1mm #
			A: Measuring length, B: Base line, C:Copy
2	Cornfield	Resolution	Check the number next to the finest set of lines that can be
	pattern		distinguished from each other clearly, and do not blur into each
			other. The intervals between lines in the chart are the following,
			in 15 steps. A higher number means a finer image (higher
			resolution).
			2.0/2.2/2.5/2.8/3.2/3.6/4.0/4.5/5.0/5.6/6.3/7.1/8.0/9.0/10.0
			[lines/mm]
			2.8 3.2 2.2 2.5 2.2 2.0
3	Colored L-	Color registration	Check the distances [A] between the colors making up the RGB
	shaped lines	errors	lines (Y+M/ Y+C/ C+M), using a loupe. $ \begin{array}{c c} K \\ B (C+M) \\ G (Y+C) \\ R (Y+M) \\ \hline \end{array} $ $ \begin{array}{c c} \frac{\psi}{\hbar}[A] \\ \hline \end{array} $ [A]
4	Solid color	Solid density	Check the density of each color patch between the chart and the
	patches		copy.

No.	Check Area	Check Item	Description	
5	13	Halftone density	Check that the density of each color patch in the 3rd row in the	
	gradations		chart and the copy are the same.	
	scale	Gray balance	Check that the K density of the 3rd and 5th rows in the chart and	
			the copy are the same.	
		Gradation	On the copy, check that the densities of each color patch in the 11th	
			and 12th rows are different.	
			10 11 12 13	
		Equal	Check that the magnification is equal in the chart and the copy	
		magnification	using the scale under the gradation patches.	
		(main scan	The scale is 10mm per row. Check 10 consecutive rows.	
		direction)	COLOR CHART C-SY	
6	Halftone	Gray color	Check that the density in the chart and the copy is the same. There	
	area	difference	must be no unevenness in density between the front, rear, and	
			middle.	
7	Solid area	Solid filling	Check that there is no density unevenness in solid color. There	
			should be no color unevenness in density between the front, rear,	
			and middle.	
8	Low contrast	Reproducibility of	Check that "C0.4" is readable in the copy when using the center	
	characters	low contrast	notch (notch 5). In addition, "E0.2" must be deleted.	
			市場に対する場合は   市場に対する場定業まの開発は   国内では200mを含める。 報道の   日本のは 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
			田の2	
9	Six sizes	Character	Check the minimum size of characters that are readable, and that	
	of characters	reproducibility (no	have no broken lines or blurred characters.	
		broken lines or		
		blurred characters)		
10	Gray patches	Gray color	Check that the color and density of the 3rd row in the chart and the	
		difference and	copy are the same.	
		density		
11	Color patch	Color	Check that the density of each color (KCMYRGB) in the chart and	
		reproducibility	the copy are the same.	

## 4. Replacement and Adjustment

No.	Check Area	Check Item	Description
		Color	Check that the density in the chart and a 2nd generation copy are
		reproducibility of	the same.
		2nd generation	
12	Radial lines	Jagged slanting	Check that the lines in the copy are not rough or jagged.
		lines	
		Broken slanting lines	Check that the lines in the copy are not broken.
13	Color bold	Solid color filling	Check that there is no missing color and no unevenness in RGB
	text		(YM/YC/CM) solid colors.
14	Color text	Color text	Check that the reproduced image is the same as the chart.
		reproduction	The following diagram shows examples of errors.
			huechromabright huechromabright huechromabright huechromabright
15	Horizontal	Image position in	In the copy, check the distance between the center line made by
	scale	the main scan	folding the paper and the line at the center of the chart.
		direction	Trim pattern adjustment for each paper feed tray must be
		(Whether the	completed before checking.
		image is at the center of the paper)	
			A: Center line, B: Fold line, C: Distance between the center line and the fold line
16	Vertical	Equal	Check the magnification error in the sub scan direction using the
	scale	magnification (Sub	crossed lines 100mm away from the leading and trailing edges of
		scan direction)	the paper

No.	Check Area	Check Item	Description	
			100mm	
17	Lot number	-	Shows the lot number of the test chart.	
18	Chart name	Reproduction of black characters	Check that the reproduced image is the same as the chart.	
19	Portrait	Reproducibility of	Make a copy after setting the document type to photo mode, and	
	photograph	the skin, hair, and	check the reproducibility of the photo.	
		clothes	Check the reproducibility of the granular state, and tone of color in	
			the skin, hair, and clothes. Also check for overexposure and	
			underexposure.	
20	Landscape	Reproducibility of	Make a copy after setting the document type to photo mode, and	
	photograph	sky blue	check the reproducibility of the photo.	
			Check that the color tone of the chart and the copy are the same.	
21	Notes	Check the	Check the reproducibility, such as the presence of breaks in frame	
		reproducibility (for	lines and characters.	
		example, there	There is a place for writing down the output settings when you	
		should be	print the image samples and/or compare adjustments.	
		no breaks in frame		
		lines and		
		characters).		

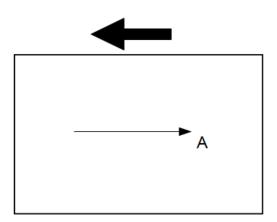
# Scanning

Check the printing registration/side-to-side adjustment and the blank margin adjustment before you do the following scanner adjustments.



• Use C-5Y color chart to do the following adjustments.

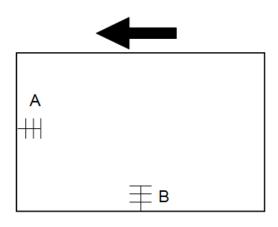
### Scanner Sub-Scan Magnification



A: Sub-scan magnification

- 1. Put the test chart on the exposure glass. Then make a copy from one of the feed stations.
- 2. Check the magnification ratio. Adjust with SP4-008-001(Sub Scan Magnification Adj.) if necessary. Standard: ±1.0%.

### Scanner Leading Edge and Side-to-Side Registration



A: Leading Edge Registration

B: Side-to-side Registration

- 1. Put the test chart on the exposure glass. Then make a copy from one of the feed stations.
- 2. Check the leading edge and side-to-side registration. Adjust the following SP modes if necessary. Standard:  $0 \pm 2$ mm for the leading edge registration,  $0 \pm 2.5$ mm for the side-to-side registration.

What It Does	SP Code
Leading Edge Registration	SP4-010-001
Side-to-Side Registration	SP4-011-001

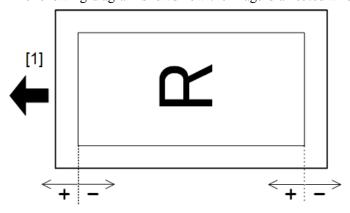
### ADF Adjustment

#### ADF Side-to-Side and Leading Edge Registration

Use A4/LT paper to make a temporary test chart as shown above.

1. Put the temporary test chart on the ADF. Then make a copy from one of the feed stations.

2. Check the leading edge and side-to-side registration. Adjust the following SP modes if necessary. Standard:  $4.2 \pm 2.0$  mm for the leading edge registration,  $2.0 \pm 1.0$  mm for the side-to-side registration. The following diagram shows how the image is affected when you adjust in the + or -. direction.



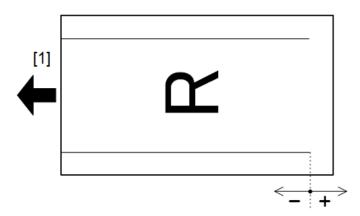
#### 1: Feed direction

SP Code	What It Does	Adjustment Range
SP6-006-001	Side-to-Side Regist: Face	± 3.0 mm
SP6-006-002	Side-to-Side Regist (1-pass): Back	± 2.0 mm
SP6-006-010	Leading Edge Regist (1-pass): Face	± 5.0 mm
SP6-006-011	Leading Edge Regist (1-pass): Back	± 5.0 mm

## ADF Trailing Edge Erase Width

Use A4/LT paper to make a temporary test chart as shown above.

- 1. Put the temporary test chart on the ADF. Then make a copy from one of the feed stations.
- 2. Check the trailing edge erase width. Adjust the following SP modes if necessary. The following diagram shows how the image is affected when you adjust in the + or -. direction.



### 1: Feed direction

SP Code	What It Does	Adjustment Range
SP6-006-014	Trailing Edge Erase Width (1-Pass):Face	± 5.0 mm
SP6-006-015	Trailing Edge Erase Width (1-Pass):Back	± 5.0 mm

### ADF Sub-scan Magnification

1. Put the temporary test chart on the ADF. Then make a copy from one of the feed stations.

2. Check the magnification ratio. Adjust with SP6-017-001(ADF Adjustment L-Edge Mag) if necessary.

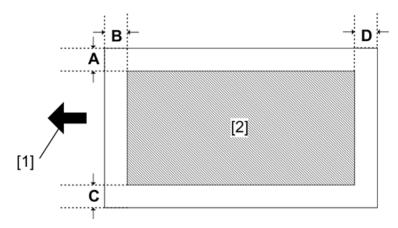
• Standard: ±5.0%

Reduction mode: ±1.0%
Enlargement mode: ±1.0%

### Registration

## Adjustment Standard

### Image Area



[1]: Feed direction, [2]: Image area

Make sure that the registration is adjusted within the adjustment standard range.

After doing the registration adjustment, do the Erase Margin Adjustment in the next section.

### Adjustment standard

• Leading edge (sub-scan direction):

$$B = 3.25 \pm 2.75 \text{ mm}$$

• Trailing edge (sub-scan direction):

$$D = 3.25 \pm 2.75 \text{ mm}$$

• Side to side (main-scan direction):

$$A = C = 2.25 \pm 1.75 \text{ mm}$$

#### Registration Standard

#### Side to side

Adjusts the side-to-side registration for each paper feed station. Use SP mode (SP1-002) to adjust the side-to-side registration for the optional paper feed unit and duplex unit.

SP No.	SP Name	Range
SP1-002-001	Side-to-Side Registration: By-pass Table	± 4.0 mm

SP No.	SP Name	Range
SP1-002-002	Side-to-Side Registration: Tray 1	± 4.0 mm
SP1-002-003	Side-to-Side Registration: Tray 2 $\pm 4.0 \text{ mm}$	
SP1-002-004	Side-to-Side Registration: Tray 3 $\pm 4.0 \text{ mm}$	
SP1-002-005	Side-to-Side Registration: Duplex $\pm 4.0 \text{ mm}$	

# Leading edge, Trailing edge

Adjusts the leading edge registration for each paper type and process line speed. Use SP mode (SP1-001) to adjust the leading edge registration.

SP No.	SP Name	Range
SP1-001-001	Leading Edge Registration: Tray: Plain	± 9.0 mm
SP1-001-002	Leading Edge Registration: Tray: Middle Thick	± 9.0 mm
SP1-001-003	Leading Edge Registration: Tray: Thick	± 9.0 mm
SP1-001-005	Leading Edge Registration: Tray: Plain: 1200	± 9.0 mm
SP1-001-006	Leading Edge Registration: Tray: Middle Thick: 1200	± 9.0 mm
SP1-001-007	Leading Edge Registration: By-pass: Plain	± 9.0 mm
SP1-001-008	Leading Edge Registration: By-pass: Middle Thick	± 9.0 mm
SP1-001-009	Leading Edge Registration: By-pass: Thick	± 9.0 mm
SP1-001-012	Leading Edge Registration: By-pass: Plain: 1200	± 9.0 mm
SP1-001-013	Leading Edge Registration: By-pass: Middle Thick: 1200	± 9.0 mm
SP1-001-014	Leading Edge Registration: Duplex: Plain	± 9.0 mm
SP1-001-015	Leading Edge Registration: Duplex: Middle Thick	± 9.0 mm
SP1-001-016	Leading Edge Registration: Duplex: Thick	± 9.0 mm
SP1-001-017	Leading Edge Registration: Tray: Special 1	± 9.0 mm
SP1-001-018	Leading Edge Registration: By-pass: Special 1	± 9.0 mm
SP1-001-019	Leading Edge Registration: Duplex: Plain: 1200	± 9.0 mm
SP1-001-020	Leading Edge Registration: Duplex: Middle Thick: 1200	± 9.0 mm
SP1-001-021	Leading Edge Registration: Duplex: Special 1	± 9.0 mm
SP1-001-022	Leading Edge Registration: Tray: Special 1: 1200	± 9.0 mm
SP1-001-023	Leading Edge Registration: By-pass: Special 1: 1200	± 9.0 mm
SP1-001-024	Leading Edge Registration: Duplex: Special 1: 1200	± 9.0 mm
SP1-001-041	Leading Edge Registration: Tray: Plain: Std Speed 2	± 9.0 mm
SP1-001-043	Leading Edge Registration: By-pass: Plain: Std Speed 2	± 9.0 mm
SP1-001-045	Leading Edge Registration: Duplex: Plain: Std Speed 2	± 9.0 mm
SP1-001-047	Leading Edge Registration: Tray: Special1: Std Speed 2	± 9.0 mm
SP1-001-048	Leading Edge Registration: By-pass: Special1: Std Speed 2	± 9.0 mm
SP1-001-049	Leading Edge Registration: Duplex: Special1: Std Speed 2	± 9.0 mm

### Adjustment Procedure

- **1.** Enter SP2-109-003.
- 2. Print out the test pattern (14: 1-dot trimming pattern) with SP2-109-003.

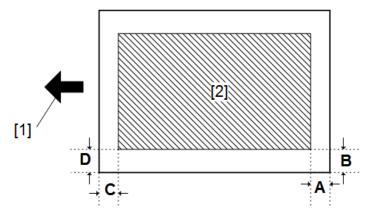


- Registration can change slightly as shown on the previous page. Print some pages of the 1-dot trimming pattern for steps 3 and 4. Then average the leading edge and side-to-side registration values, and adjust each SP mode.
- **3.** Do the leading edge registration adjustment.
  - 1) Check the leading edge registration and adjust it with SP1-001.
  - 2) Select the adjustment conditions (paper type and process line speed).
  - 3) Input the value. Then press [#].
  - 4) Generate a trim pattern to check the leading edge adjustment.
- **4.** Do the side-to-side registration adjustment.
  - 1) Check the side-to-side registration and adjust it with SP1-002.
  - 2) Select the adjustment conditions (paper feed station).
  - 3) Input the value. Then press [#].
  - 4) Generate a trim pattern to check the side-to-side registration adjustment.

## Erase Margin Adjustment



- After adjusting the Leading Edge Registration and Side Registration settings (see the previous section), do the Erase Margin Adjustment. To do this, check the values of Margins A and B.
- If they are not within the specifications (see below), then adjust A and B with SP2-103-001 to -004 as explained below. Then check Margins C and D again.



- [1]: Feed direction, [2]: Image area
- 1. Enter the SP mode.
- 2. Print out the test pattern (14: 1-dot trimming pattern) with SP2-109-003.
- 3. Check the erase margin A and B. Adjust them with SP2-103-001 to -004 if necessary.
  - Leading edge: 0.0 to 9.9 mm (default: 4.2 mm)
  - Side-to-side: 0.0 to 9.9 mm (default: 2.0 mm)

• Trailing edge: 0.0 to 9.9 mm (default: 4.2 mm)

### Color Registration

### Line Position Adjustment

The automatic line position adjustment usually is done for a specified condition to get the best color prints.

Do the following if color registration shifts:

- Do "Auto Color Registration" as follows to do the forced line position adjustment.
- 1. First do SP2-111-003.
- 2. Then do SP2-111-001.

To check if SP2-111-001 was successful, watch the screen during the process. Amessage is displayed at the end. Also, you can check the result with SP2-194-010 to -012.

- You should also do the line position adjustment at these times:
  - After you transport or move the machine (you should do the forced line position adjustment if you install the machine at the user location) if the machine is pre-installed at the workshop and moved to the user location.
  - When you remove or replace the motors, clutches, and/or gears related to the drum/development/transfer sections
  - When you remove or replace the image transfer belt, image transfer belt unit or laser optical housing unit

#### Printer Gamma Correction



• The ACC is usually sufficient to adjust the color balance to get the best print output. You only need the printer gamma correction to fine-tune to meet user requirements.

Use SP modes if you want to modify the printer gamma curve created with ACC. You can adjust the gamma data for the following:

- Highlight
- Middle
- Shadow areas
- IDmax.

The adjustable range is from 0 to 30 (31 steps).

### Copy Mode

### - KCMY Color Balance Adjustment -

The adjustment uses only "Offset" values.



• Never change "Option" values (the default value is 0).

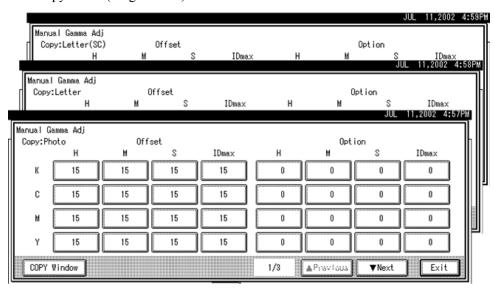
Highlight (Low	Levels 1 through 6 in the C5-Y chart 13-level scale
----------------	---

### 4. Replacement and Adjustment

ID)	
Middle (Middle	Levels 3 through 10 in the C5-Y chart 13-level scale
ID)	
Shadow (High	Levels 7 through 12 in the C5-Y chart 13-level scale
ID)	
ID max	Level 13 in the C5-Y chart 13-level scale (affects the entire image density)
Offset	The higher the number in the range associated with the low ID, middle ID, high ID, and ID
	max, the greater the density.

There are four adjustable modes (can be adjusted with SP4-918-009):

- Copy Photo mode
- Copy Letter mode
- Copy Letter (Single Color) mode
- Copy Photo (Single Color) mode



## - Adjustment Procedure -

- 1. Copy the C-5Y chart in the mode that you want to adjust.
- **2.** Enter the SP mode.
- 3. Select "System SP."
- **4.** Select SP4-918-009.
- **5.** Adjust the offset values until the copy quality conforms to the standard (see the table below).



- 1. Never change the "Option" value (the default value is "0").
- 2. Adjust the density in this order: "ID Max", "Middle", "Shadow", "Highlight".

## - Photo Mode, Full Color -

	Item to Adjust	Level on the C-5Y chart	Adjustment Standard
1	ID max:	1 2 3 4 5 6 7 8 9 10 11 12 13	Adjust the offset value so that the density of level 13
	(K, C, M, and		matches that of level 13 on the C-5Y chart.
	Y)		

2	Middle (Middle	1 2 3 4 5 6 7 8 9 10 11 12 13	Adjust the offset value so that the density of level 7
	ID)		matches that of level 7 on the C-5Y chart.
	(K, C, M, and		
	Y)		
3	Shadow (High	1 2 3 4 5 6 7 8 9 10 11 12 13	Adjust the offset value so that the density of level 11
	ID)		matches that of level 11 on the C-5Y chart.
	(K, C, M, and		
	Y)		
4	Highlight (Low	1 2 3 4 5 6 7 8 9 10 11 12 13	Adjust the offset value so that dirty background does not
	ID)		show on the copy and the density of level 3 is slightly
	(K, C, M, and		lighter than that of level 3 on the C-5Y chart.
	Y)		
5	K Highlight	1 2 3 4 5 6 7 8 9 10 11 12 13	Adjust the offset value so that the color balance of black
	(Low ID)	1 2 3 4 3 0 7 8 9 10 11 12 13	scale levels 3 through 5 in the copy is seen as gray (no C,
	(C,M, and Y)	•	M, or Y should be visible). If the black scale contains C,
	<on full<="" th="" the=""><th></th><th>M, or Y, do steps 1 to 4 again.</th></on>		M, or Y, do steps 1 to 4 again.
	color copy>		

# - Photo Mode, Single Color -

	Item to	Level on the C-5Y chart	Adjustment Standard
	Adjust		
1	ID max: (K)	1 2 3 4 5 6 7 8 9 10 11 12 13	Adjust the offset value so that the density of level 13
			matches that of level 13 on the C-5Y chart.
2	Middle	1 2 3 4 5 6 7 8 9 10 11 12 13	Adjust the offset value so that the density of level 7
	(Middle ID)		matches that of level 7 on the C-5Y chart.
	(K)		
3	Shadow	1 2 3 4 5 6 7 8 9 10 11 12 13	Adjust the offset value so that the density of level 11
	(High ID) (K)		matches that of level 11 on the C-5Y chart.
4	Highlight	1 2 3 4 5 6 7 8 9 10 11 12 13	Adjust the offset value so that dirty background does not
	(Low ID) (K)		show on the copy and the density of level 3 is slightly
			lighter than that of level 3 on the C-5Y chart.

# - Text (Letter) Mode, Full Color -

	Item to	Level on the C-5Y chart	Adjustment Standard
	Adjust	(K)	
1	ID max: (K,	1 2 3 4 5 6 7 8 9 10 11 12 13	Adjust the offset value so that the density of level 13
	C, M, and Y)		matches that of level 13 on the C-5Y chart.
2	Middle	1 2 3 4 5 6 7 8 9 10 11 12 13	Adjust the offset value so that the density of level 7
	(Middle ID)		matches that of level 7 on the C-5Y chart.
	(K, C, M, and		

### 4. Replacement and Adjustment

	Y)		
3	Shadow (High	1 2 3 4 5 6 7 8 9 10 11 12 13	Adjust the offset value so that the density of level 11
	ID)		matches that of level 11 on the C-5Y chart.
	(K, C, M, and		
	Y)		
4	Highlight	1 2 3 4 5 6 7 8 9 10 11 12 13	Adjust the offset value so that dirty background does not
	(Low ID)		show on the copy and the density of level 3 is slightly
	(K, C, M, and		lighter than that of level 3 on the C-5Y chart.
	Y)		

### - Text (Letter) Mode, Single Color -

	Item to	Level on the C-5Y chart	Adjustment Standard
	Adjust	(K)	
1	ID max: (K)	1 2 3 4 5 6 7 8 9 10 11 12 13	Adjust the offset value so that the density of level 13
			matches that of level 13 on the C-5Y chart.
2	Middle	1 2 3 4 5 6 7 8 9 10 11 12 13	Adjust the offset value so that the density of level 7
	(Middle ID)		matches that of level 7 on the C-5Y chart.
	(K)		
3	Shadow	1 2 3 4 5 6 7 8 9 10 11 12 13	Adjust the offset value so that the density of level 11
	(High ID) (K)		matches that of level 11 on the C-5Y chart.
4	Highlight	4 2 2 4 5 6 7 0 0 40 44 42 42	Adjust the offset value so that dirty background does not
	(Low ID) (K)	1 2 3 4 5 6 7 8 9 10 11 12 13	show on the copy and the density of level 3 is slightly
		•	lighter than that of level 3 on the C-5Y chart.



• Text parts of the test pattern cannot be printed clearly after you adjust "shadow" as shown above. At this time, check if the 5 line/mm pattern at each corner is printed clearly. If it is not, adjust the offset value of "shadow" again until it is.

### Printer Mode

There are six adjustable modes (select these modes with printer SP1-102-001):

- 1200 x 1200 photo mode (1bit/4col)
- 600 x 600 photo mode (4bit/4col)
- 600 x 600 photo mode (2bit/4col)
- 600 x 600 photo mode (1bit/4col)
- 1200 x 1200 text mode (1bit/4col)
- 600 x 600 text mode (4bit/4col)
- 600 x 600 text mode (2bit/4col)
- 600 x 600 text mode (1bit/4col)

	K	С	M	Y
Highlight	SP1-104-001	SP1-104-021	SP1-104-041	SP1-104-061

	K	С	M	Y
Shadow	SP1-104-002	SP1-104-022	SP1-104-042	SP1-104-062
Middle	SP1-104-003	SP1-104-023	SP1-104-043	SP1-104-063

### - Adjustment Procedure -

- **1.** Execute ACC for the printer mode.
- **2.** Enter the SP mode.
- 3. Select "Printer SP".
- **4.** Select SP1-102-001. Then select the necessary print mode to adjust. Then select "2" that is used by default printing as priority.
  - 0: 1200 x 1200 photo mode (1bit/4col)
  - 1: 600 x 600 photo mode (4bit/4col)

### 2: 600 x 600 photo mode (2bit/4col) (Default)

- 3: 600 x 600 photo mode (1bit/4col)
- 4: 1200 x 1200 text mode (1bit/4col)
- 5: 600 x 600 text mode (4bit/4col)
- 6: 600 x 600 text mode (2bit/4col)
- 7: 600 x 600 text mode (1bit/4col)
- **<u>5.</u>** Execute SP1-103-001 to print out a color grayscale chart sheet if you want to examine the image quality for these settings.
- **6.** Adjust the color density with SP1-104. Compare the color grayscale chart sheet with the C-5Y chart.



- 1. Adjust the density in this order: "Shadow", "Middle", "Highlight".
- 2. Check that the following reference patches on the grayscale chart are within the following range of the C-5Y chart.

Item to adjust	Reference patch on the grayscale	Level on the C-5Y chart
	chart	(13 rows scale)
	(related to the half tone area)	
Shadow (High ID)	12th patch from the lighter density	C,M,Y: 6 to 10, Center is the 8th
		row
		<b>K:</b> 8 to 12, Center is the 10th row
Middle (Middle	8th patch from the lighter density	C,M,Y: 3 to 7, Center is the 5th
ID)		row
		<b>K:</b> 5 to 9, Center is the 7th row
Highlight (Low	4th patch from the lighter density	C,M,Y: 1 to 4, Center is the 2nd
ID)		row
		<b>K:</b> 1 to 5, Center is the 3rd row

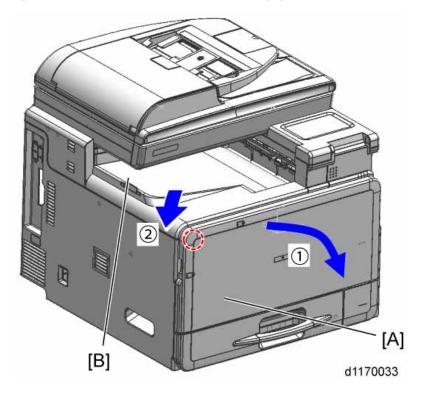
<u>7.</u> Use SP1-105-001 to keep the adjusted settings.

**8.** Turn the main power OFF and ON.

## Color Skew Adjustment

The skew adjustment of this machine should be performed manually. The adjustment procedure is as follows:

 $\underline{\mathbf{1}}$ . Open the front door [A] and then remove the paper exit tray [B]. ( $\mathfrak{G}^{p} \times 1$ )

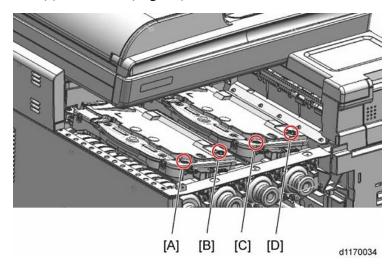


- 2. Close the front door and execute MUSIC (SP2-111-004).
- 3. Check the result for each color with the following SPs.
  - SP2-117-004 (K)
  - SP2-117-002 (C)
  - SP2-117-001 (M)
  - SP2-117-003 (Y)

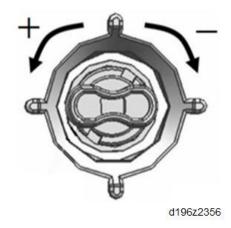
#### **U** Note

- If all of the SP values are within  $\pm 5$ , go to Step 5.
- If any of the SP values are not within  $\pm 5$ , go to Step 4.
- 4. Rotate the knob(s) shown in the diagram [A] to [D] at 90 degree intervals until the SP value for the affected

color(s) is within  $\pm 5$  (target: 0).



- **U** Note
  - There are two knobs on each of the two LD units. A click is felt every 90 degree rotation.
  - Turning the knob **clock wise** by 90 degrees changes the SP value by -1.
  - Turning the knob **counter-clock wise** by 90 degrees changes the SP value by +1.



- Example:

  SP value for magenta in Step 4 was "+6" → Turn knob [C] 6 clicks (1 1/2 rotations) clockwise.
- SP value for yellow in Step 4 was "-7" → Turn knob [D] 7 clicks (1 3/4 rotations) counterclockwise.
- **<u>5.</u>** Reattach all parts that you removed in the above steps.



• Do not touch the LD units while installing the Paper Exit Tray. Otherwise, the LD unit may move, and you may have to adjust the color skew again.

# **Exterior Covers**

# Front Cover

1. Pull out the paper tray.



 $\underline{\mathbf{2.}}$  Remove the front lower cover [A] ( $\mathfrak{S}^{p} \times 1$ )



- <u>3.</u> Open the front cover.
- **<u>4.</u>** Remove the front cover [A] ( $\widehat{\mathbb{W}} \times 2$ , pins  $\times 2$ )



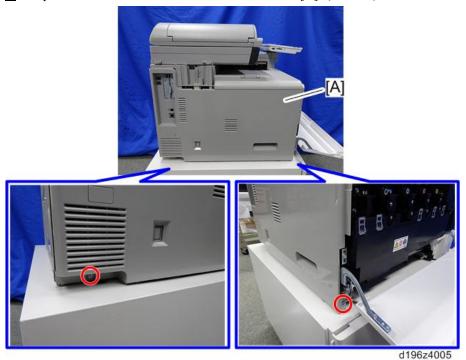
# Upper Left Cover

**<u>1.</u>** Remove the upper left cover [A]. ( $\mathfrak{S}^{p} \times 1$ )



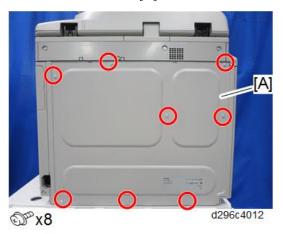
# Left Cover

- 1. Remove the upper left cover (Upper Left Cover)
- **2.** Pull out the paper tray.
- 3. Open the front cover and remove the left cover [A].  $( \circ \circ )$



## Rear Cover

**1.** Remove the rear cover [A].



# Right Rear Cover

1. Open the right cover.



Remove the right rear cover [A]  $( \circ \circ )$  × 3) <u>2.</u>



**U** Note

Remove the right rear cover while pushing it downward.

# Paper Exit Tray

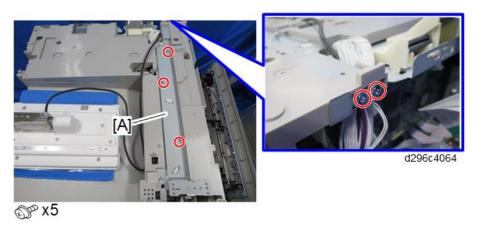
1. Open the front cover.

 $\underline{2.}$  Remove the paper exit tray [A]. ( $\mathfrak{S}^{p} \times 1$ )

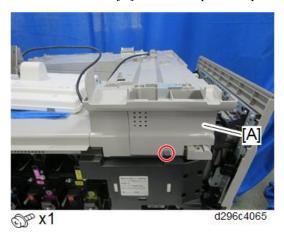


## Scanner Inner Cover

- 1. Remove the ADF and scanner unit (Scanner Unit with the ADF)
- 2. Remove the operation panel (Operation Panel)
- **3.** Remove the bracket [A].

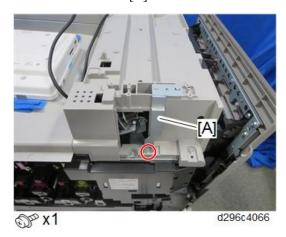


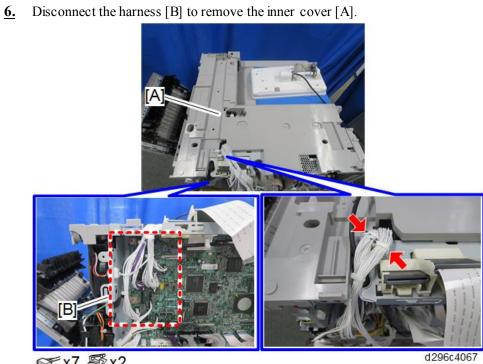
**4.** Remove the cover [A] under the operation panel.



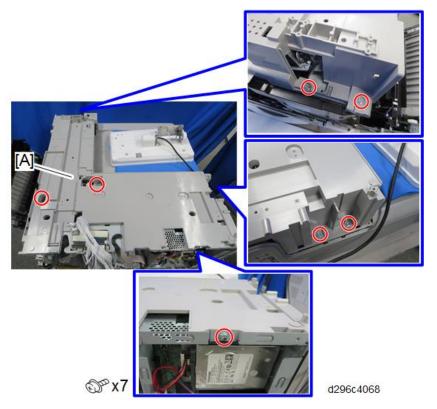
## 4. Replacement and Adjustment

# **<u>5.</u>** Remove the bracket [A].



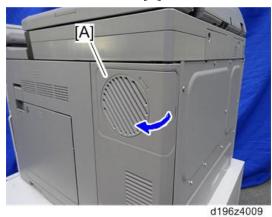


# Remove the scanner inner cover [A].

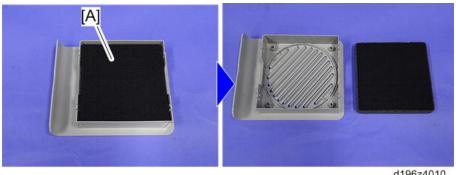


# Ozone Filter

<u>1.</u> Remove the filter cover [A].



Remove the ozone filter [A] from the filter cover. <u>2.</u>



d196z4010

# **Operation Panel**

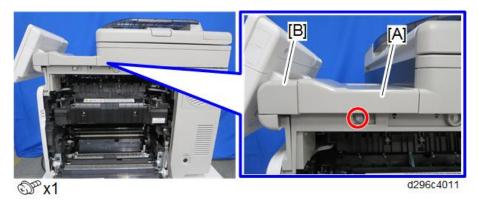
The replacement procedures for the other parts are included in the FSM for the Smart Operation Panel, because these parts are also used with other models.

## Operation Panel

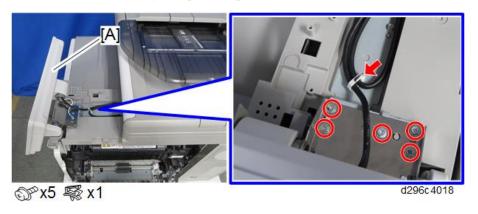
1. Open the right cover.



**2.** Remove the front right cover [A] and hinge cover [B].

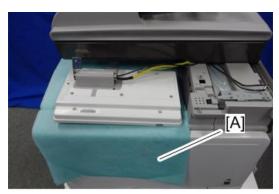


**3.** Remove the screws fixing the operation panel [A].



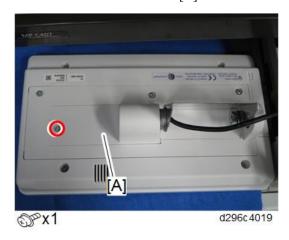
• Spread a cloth or service mat [A] on the paper exit tray to protect the display. Place the operation

panel on the paper exit tray so that the display faces down.

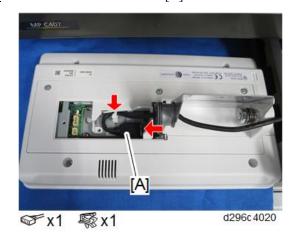


d196z4103

# **<u>4.</u>** Remove the small rear cover [A].

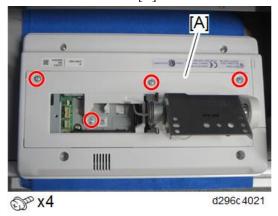


# **<u>5.</u>** Disconnect the connector [A].

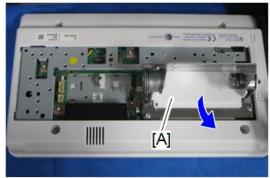


## 4. Replacement and Adjustment

## **<u>6.</u>** Remove the rear cover [A].

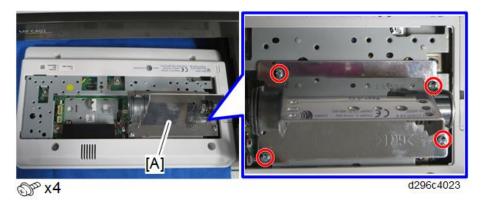


# 7. Remove the hinge base cover [A].



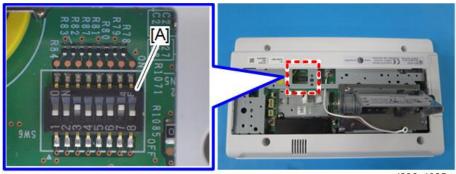
d296c4022

# **8.** Remove the hinge base [A].



# Check before Installing the New Operation Panel

There is a DIP switch [A] on the sub board in the operation panel unit.



d296c4025

The switch setting to use depends on the model.

For the C307/C407 series, make sure that switches 3 and 7 are ON. Otherwise, SC672-11 occurs when starting the machine.

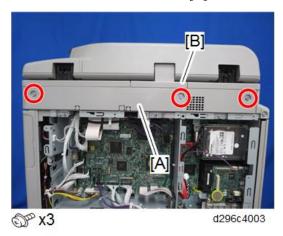
## Internal Parts

Refer to the FSM for the Smart Operation Panel.

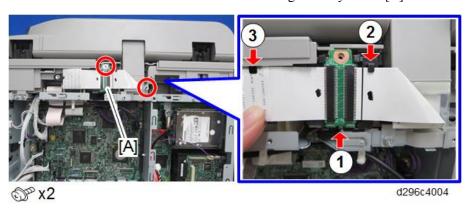
# **ADF**

## ADF Unit

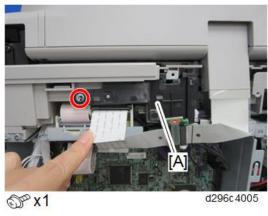
- 1. Remove the rear cover. (Rear Cover)
- 2. Remove the scanner rear cover [A] and scanner rear small cover [B].



3. Release the two screws and three tabs for attaching the relay board [A] and FFC to release the FFC.

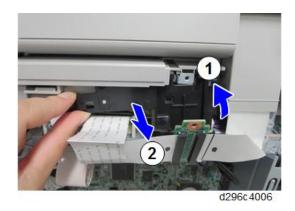


4. Remove the FFC fixing bracket [A] on the back side of the FFC.

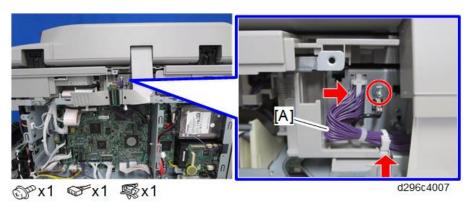


**U**Note

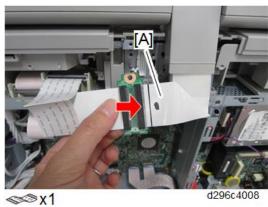
Remove the FFC fixing bracket while turning it counterclockwise and releasing the tab.



# **<u>5.</u>** Disconnect the harness [A] from the ADF.



# **6.** Disconnect the FFC [A] from the relay board.



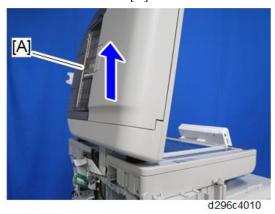
**U**Note

Disconnect the FFC for the relay board by pulling it out straight, because it does not have a lock mechanism. When reassembling, the FFC must be connected straight.

<u>7.</u> Remove the shoulder screw for fixing the ADF.



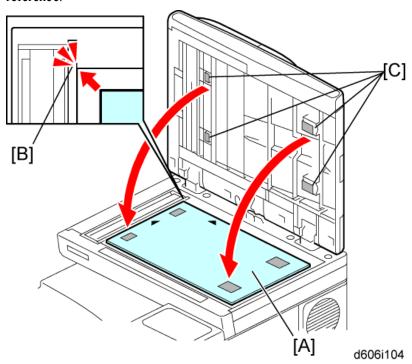
**8.** Remove the ADF unit [A] from the machine.



## When Installing the ADF

- 1. Open the ADF.
- **2.** Do the following steps:
  - Place the platen sheet [A] on the exposure glass.
  - Align the platen sheet with Velcro tape [C], with the rear left corner [B] on the exposure glass as a

reference.



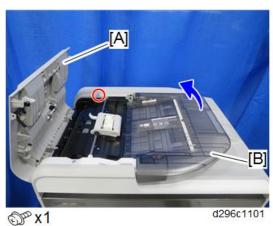
- **3.** Close the ADF.
- **4.** Reopen the ADF.
- **<u>5.</u>** Press the surface of the platen sheet gently to fix it on the ADF firmly.

## Adjustment after ADF Unit Replacement

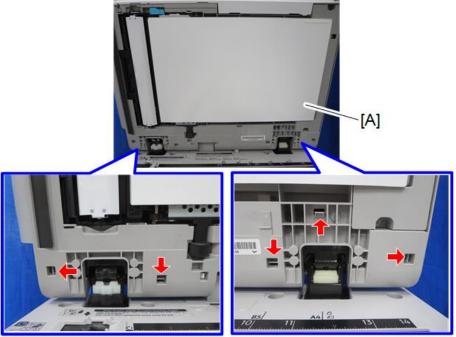
See "Adjustment after CIS Unit Replacement".

## ADF Rear Cover

- **1.** Open the ADF top cover [A] and remove the screw.
- **2.** Lift the original tray [B].

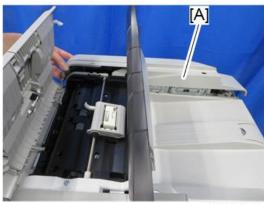


3. Open the ADF [A], and release the five tabs of the ADF rear cover by using a thin screwdriver.



d296c1102

 $\underline{\mathbf{4.}}$  Remove the ADF rear cover [A].

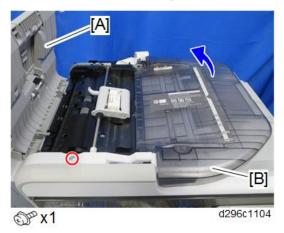


d296c1103

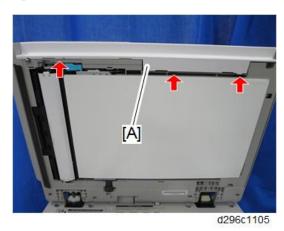
# ADF Front Cover

1. Open the ADF top cover [A].

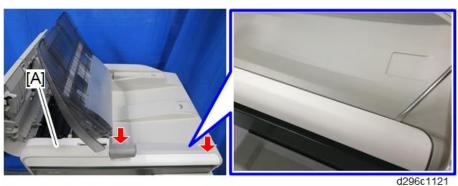
**2.** Remove the screw, and lift up the original tray [B].



<u>3.</u> Open the ADF, then release the three tabs of the ADF front cover [A].



**4.** Close the ADF slightly, then remove the ADF front cover [A] while releasing the two tabs with a thin screwdriver.



## Original Feed Unit

**1.** Open the ADF top cover.

2. Slide the shaft [A] of the original feed unit toward the rear to remove it.



d296c1106

## Pickup Roller, Feed Roller

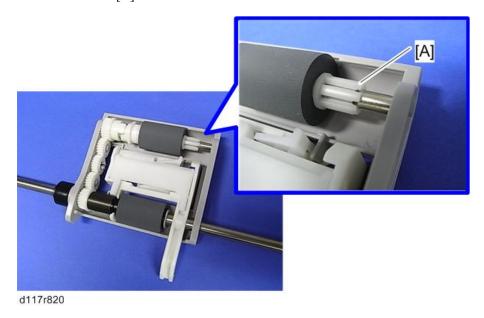
## Before Replacing the Pickup Roller and Feed Roller

Before replacing the pickup roller and feed roller, reset the PM counter.

- **1.** Turn the power ON.
- 2. Reset the PM counter. (Refer to Replacement Procedure of the PM/Yield Parts)
- **3.** Turn the power OFF.

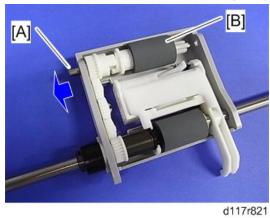
## Replacing the Pickup Roller

- 1. Remove the original feed unit. (Original Feed Unit)
- **2.** Release the hook [A].



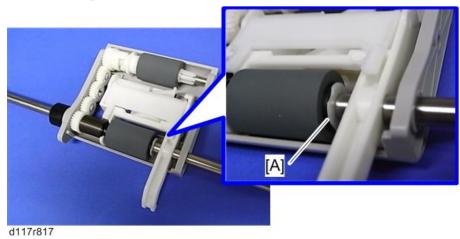
198

3. Slide the shaft [A], and then remove the pickup roller [B].

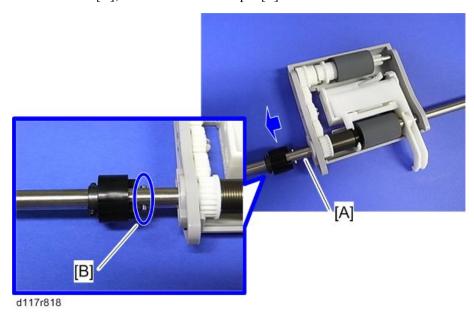


Replacing the Feed Roller

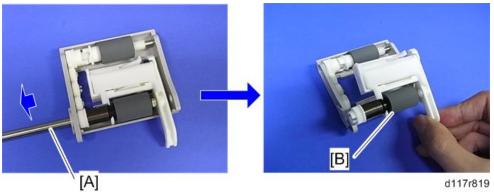
- 1. Remove the original feed unit. (Original Feed Unit)
- **2.** Remove the clip [A].



3. Slide the shaft [A], and then remove the pin [B].



**<u>4.</u>** Slide the shaft [A], and then remove the feed roller [B].



### ADF Friction Pad

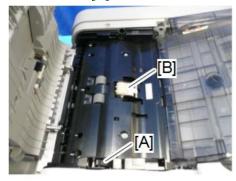
## **Before Replacing the Friction Pad**

Before replacing the friction pad, reset the PM counter.

- **1.** Turn the power ON.
- 2. Reset the PM counter. (Refer to Replacement Procedure of the PM/Yield Parts)
- **3.** Turn the power OFF.

## Replacing the Friction Pad

- 1. Remove the original feed unit. (Original Feed Unit)
- 2. Push the lever [A] and then remove the friction pad [B].



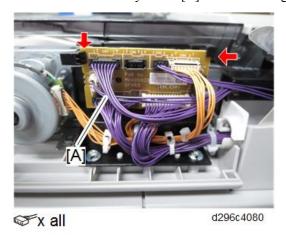


m0a0k0067

## ADF Relay Board

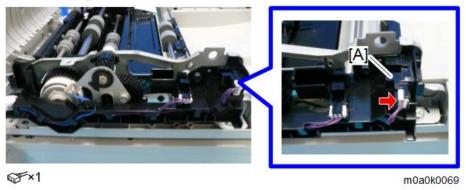
**1.** Remove the ADF rear cover. (ADF Rear Cover)

**2.** Remove the ADF relay board [A] while releasing the hook.

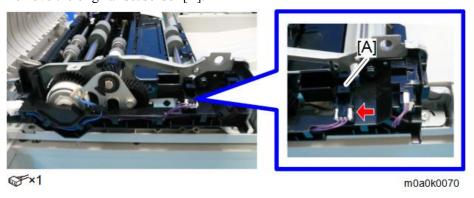


# Top Cover Set Sensor, Original Set Sensor

- **1.** Remove the ADF front cover (ADF Front Cover)
- **<u>2.</u>** Remove the top cover set sensor [A].



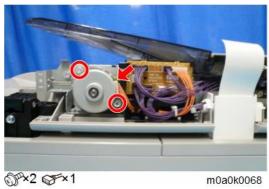
**3.** Remove the original set sensor [A].



## ADF Drive Motor

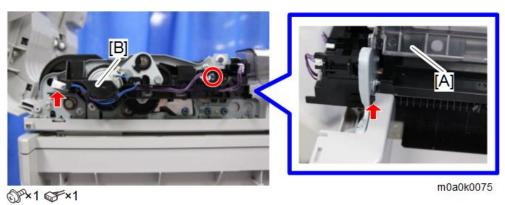
**1.** Remove the ADF rear cover. (ADF Rear Cover)

**2.** Remove the ADF drive motor [A].

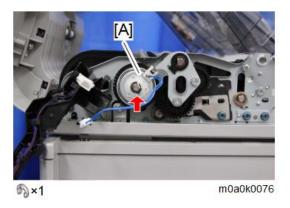


## ADF Feed Clutch

- **1.** Remove the ADF front cover. (ADF Front Cover)
- 2. Release the hook while swinging up the original tray [A], and then remove the harness guide [B].

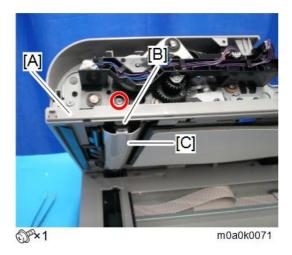


**3.** Remove the ADF feed clutch [A].

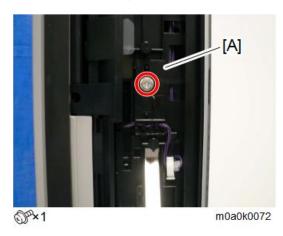


## ADF Registration Sensor

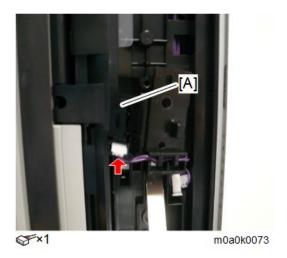
- **1.** Remove the ADF front cover. (ADF Front Cover)
- **2.** Open the ADF [A].
- 3. Slide the hook [B], and then remove the white plate [C].



**4.** Remove the ADF registration sensor holder [A].



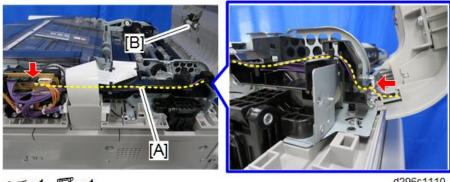
**<u>5.</u>** Remove the ADF registration sensor [A] from the holder.



## ADF Feed Sensor

1. Remove the ADF rear cover. (ADF Rear Cover)

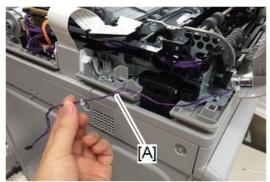
**2.** Disconnect the harness [A] from the ADF top cover [B], and release the clamp.



**ℱ**х1 **蘂** х1

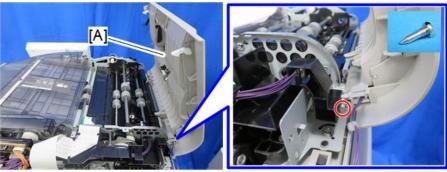
d296c1110

<u>3.</u> Remove the harness [A] from the harness guide.



d296c1125

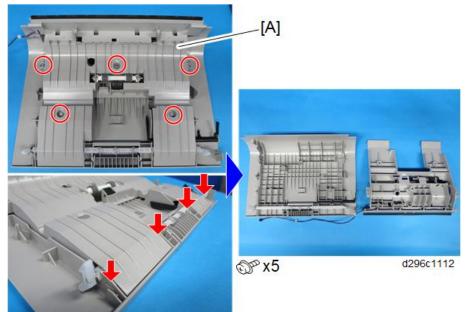
 $\underline{\mathbf{4.}}$  Remove the ADF top cover [A].



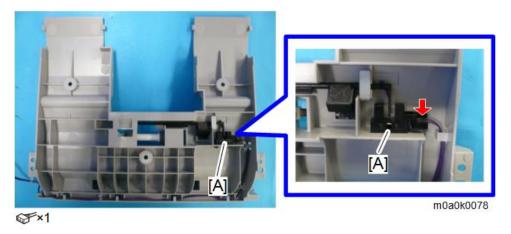
Pivot screw x1

d296c1111

**5.** Remove the five screws and release the four tabs, and then remove the inner cover [A].



**<u>6.</u>** Remove the ADF feed sensor [A].



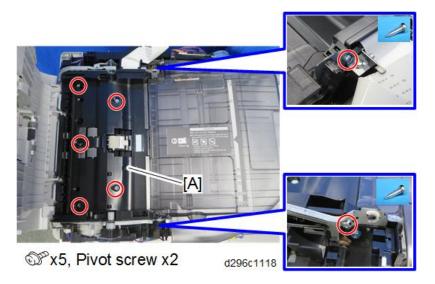


• When reattaching the ADF top cover, make sure it is set correctly so that the two tabs fit into the holes.



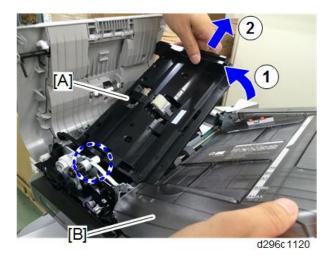
## CIS Unit

- **1.** Remove the ADF rear cover. (ADF Rear Cover)
- **<u>2.</u>** Remove the ADF front cover. (ADF Front Cover)
- **3.** Remove the original feed unit. (Original Feed Unit)
- **<u>4.</u>** Remove the ADF inner cover [A].

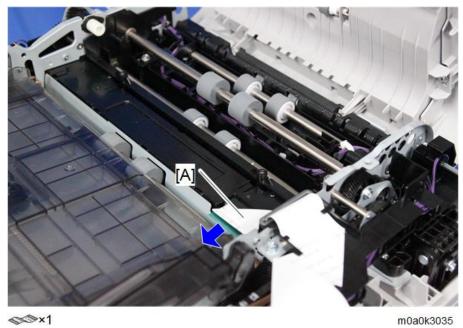




Lift the back of the ADF inner cover [A] while swinging up the original tray [B], and then slide the ADF inner cover toward the back of the ADF unit.



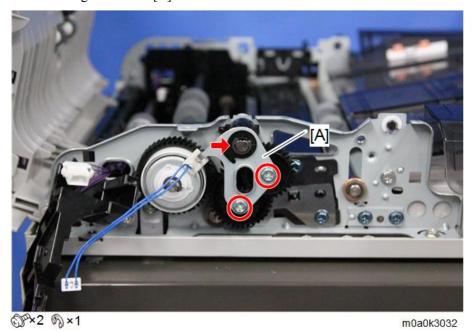
## 5. Disconnect the FFC [A].



**<u>6.</u>** Release the hook while swinging up the original tray [A], and then remove the harness guide [B].

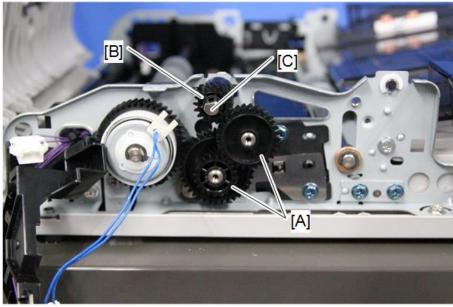


### 7. Remove the gear bracket [A].



**8.** Remove the two gears [A].

Do not remove the gear [B], to prevent the inner pin [C] from dropping into the machine.

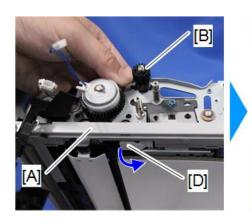


m0a0k3033

**9.** Open the ADF unit [A] while holding the gear [B] by hand, and open the scanning guide plate (rear side) [C] by pulling the release lever [D].

#### ( Important

- Hold the gear [B]. It is not fixed, and may drop into the machine.
- Open the scanning guide plate (rear side) [C] before replacing the CIS unit. Otherwise, the surface could be damaged.





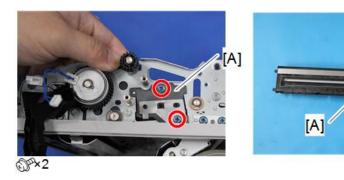
m0a0k3034

m0a0k3036

10. Pull out the CIS unit [A] from the ADF unit.

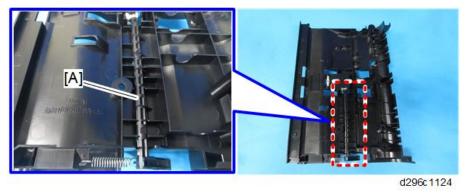


The CIS unit can be easily removed by pushing it from behind.

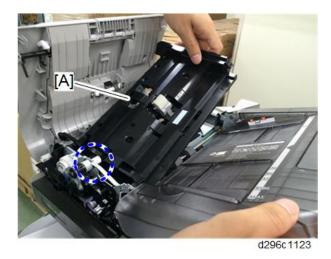




When reattaching the ADF inner cover, make sure that the shaft [A] fits into the groove (this is the shaft of the lock lever for the friction pad on the back side of the cover). If the shaft does not fit, the ADF top cover will not be closed.



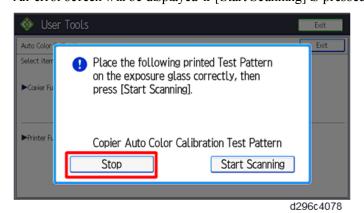
When reattaching the ADF inner cover [A], move it under the coupling shaft (marked by the dashed circle) of the original feed unit, and then you can install the ADF inner cover correctly.



Adjustment after CIS Unit Replacement

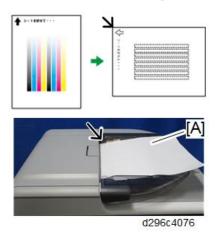
Correct the color deviation of the CIS after replacing the ADF unit or CIS unit.

- <u>1.</u> Perform the registration adjustment of the ADF (back side). (ADF Side-to-Side and Leading Edge Registration)
- 2. Print an ACC test pattern.[User Tools] icon > [Machine Features] > [Maintenance] > [Auto Color Calibration] > [Copier Function] > [Start] > [Start Printing]
- <u>3.</u> Press [Stop].An error screen will be displayed if [Start Scanning] is pressed.

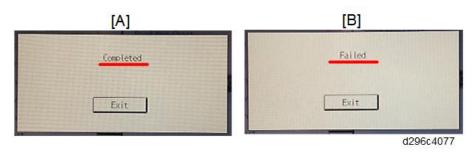


4. Turn over the ACC test pattern [A] and set it on the ADF. (Set the arrow position of the test pattern in

accordance with the arrow position of the photograph below.)



- **<u>5.</u>** Exit the User Tools mode, and then enter the SP mode.
- **<u>6.</u>** Execute SP4-958-001 (Read/Restore Std: Rear: Read New Chart).
- <u>7.</u> When the correction is completed successfully, [A] is displayed. If it failed, [B] will be displayed. Repeat steps 4 to 6.





The causes of the failure may be as follows.

- The test pattern was not set correctly.
- A jam occurred at the time of reading.
- The ACC test pattern is abnormal (e.g. a pattern is missing).
- The reading position has deviated (4mm or more) due to skewing for example.

## Scanner

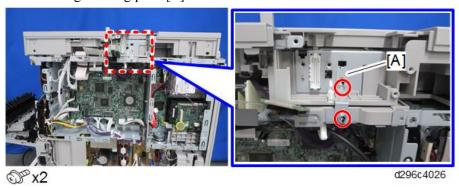
### Scanner Unit

- 1. Remove the ADF. (ADF Unit)
- **2.** Remove the right rear cover. (Right Rear Cover)
- **3.** Remove the upper left cover. (Upper Left Cover)
- **4.** Remove the front right cover [A].



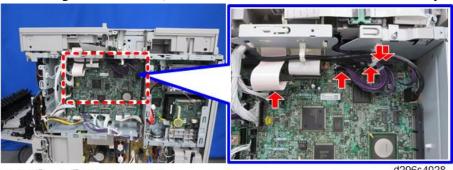
d196z4100

**<u>5.</u>** Remove the grounding plate [A].



**<u>6.</u>** Disconnect the harnesses and FFC from the scanner unit.

When lifting the scanner unit, move the harnesses out of the frame so that they do not interfere.



❤ x3 🚭 x1 ≪ x1 d296c4

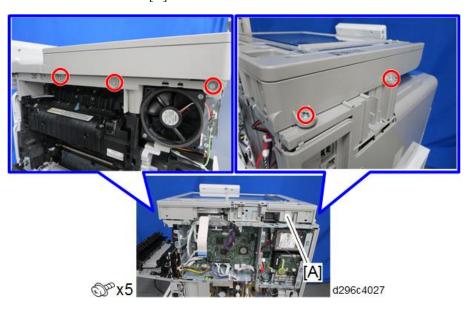


• When disconnecting or connecting the FFC, push the lock button to unlock it as shown below.



d296c4017

- If the FFC is not connected correctly, SC101 may occur.
- 7. Remove the scanner unit [A].



### Scanner Unit with the ADF

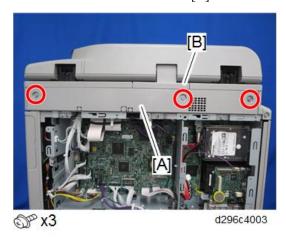
- 1. Remove the rear cover. (Rear Cover)
- **2.** Remove the right rear cover. (Right Rear Cover)
- **3.** Remove the upper left cover. (Upper Left Cover)

**4.** Remove the front right cover [A].

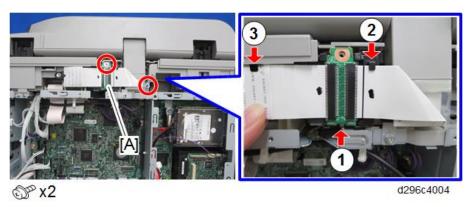


d196z4100

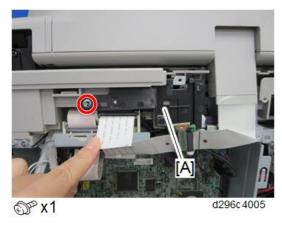
 $\underline{\mathbf{5.}}$  Remove the scanner rear cover [A] and scanner rear small cover [B].



 $\underline{\mathbf{6.}}$  Release two screws and three tabs for attaching the relay board [A] and FFC, to release the FFC.

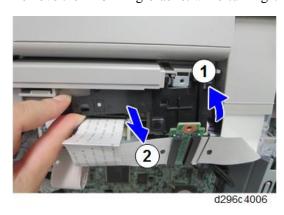


7. Remove the FFC fixing bracket [A] on the back side of the FFC.

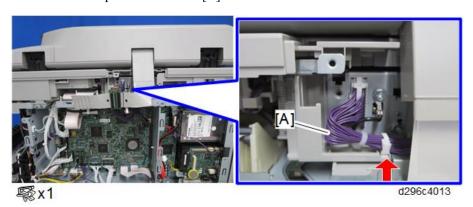


**U** Note

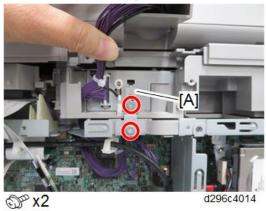
Remove the FFC fixing bracket while turning it counterclockwise and releasing the tab.



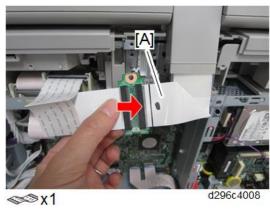
 $\underline{8.}$  Release the clamp for the harness [A] to the ADF.



### **9.** Remove the grounding plate [A].



### 10. Disconnect the FFC [A] from the relay board.



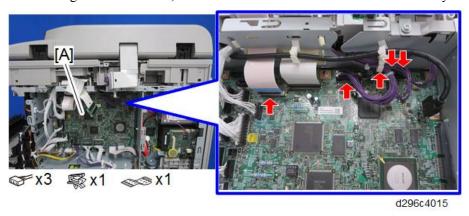
**U**Note

Disconnect the FFC for relay board by pulling it out straight, because it does not have a lock mechanism.

When reassembling, the FFC must be connected straight.

### 11. Disconnect the harnesses and FFC for the scanner unit.

When lifting the scanner unit, move the harnesses out of the frame so that they do not interfere.



**U** Note

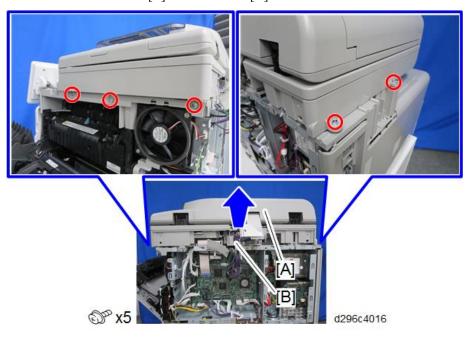
When disconnecting or connecting the FFC, push the lock button to unlock it as shown below.



d296c4017

If the FFC is not connected correctly, SC101 may occur.

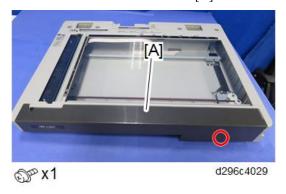
## 12. Remove the scanner unit [B] with the ADF [A].



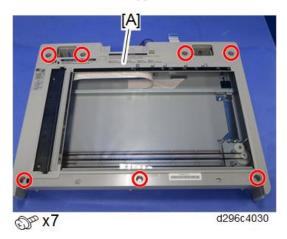
## ADF Set Sensor

1. Remove the scanner unit. (Scanner Unit)

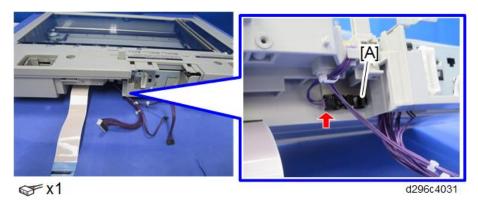
## **2.** Remove the scanner front cover [A].



## $\underline{\mathbf{3.}}$ Remove the scanner upper cover [A].



## **<u>4.</u>** Remove the ADF set sensor [A].



### Scanner Front Cover

1. Open the right cover, and then remove the front right cover [A].



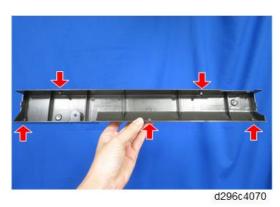
d196z4100

- **2.** Open the ADF.
- <u>3.</u> Remove the scanner front cover [A]. Use a short screwdriver.





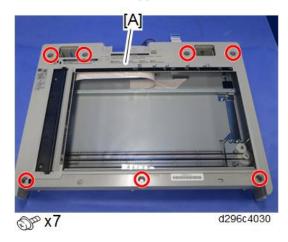
There are five tabs on the back of the scanner front cover.



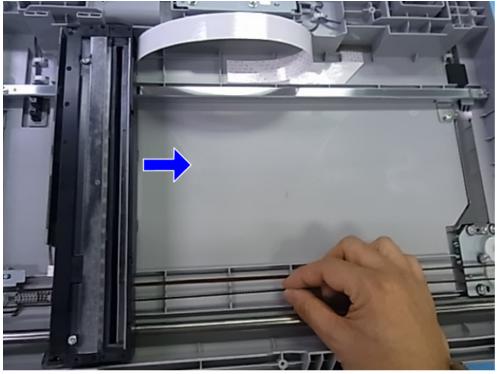
Scanner HP Sensor

- 1. Remove the ADF unit. (ADF Unit)
- 2. Remove the scanner front cover. (Scanner Front Cover)

## **3.** Remove the scanner upper cover [A].



## **<u>4.</u>** Move the scanner carriage to the right.

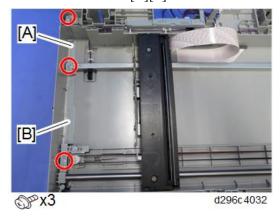


d1180008

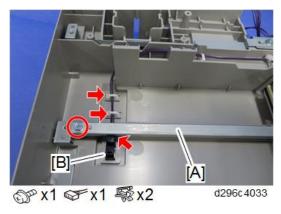
### 

- To move the carriage, hold the carriage belt and move it carefully.
- Never hold the carriage itself.

**5.** Remove the brackets [A][B].

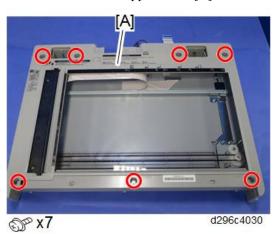


**<u>6.</u>** Remove the scanner HP sensor [B] while lifting up the bracket [A] slightly.



### Scanner Motor

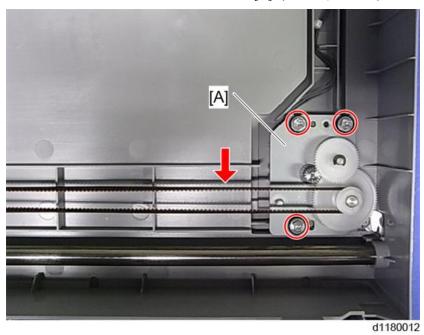
- 1. Remove the ADF unit. (ADF Unit)
- <u>2.</u> Remove the scanner front cover. (Scanner Front Cover)
- **3.** Remove the scanner upper cover [A].



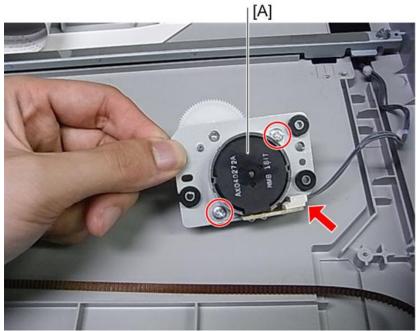
# **<u>4.</u>** Remove the shield plate [A]. ( $^{\circ}$ × 2)



**<u>5.</u>** Remove the scanner motor with the bracket [A]. ( $^{\circ\circ}$  × 3, belt × 1)



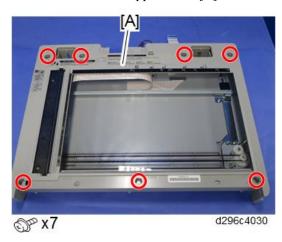
**<u>6.</u>** Remove the scanner motor [A].  $(\checkmark \times 1, \checkmark \times 2)$ 



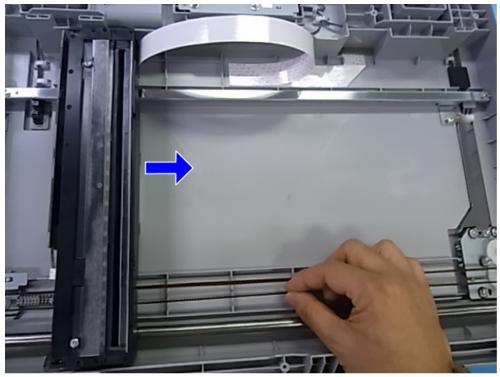
d1180013

## Scanner Carriage

- 1. Remove the ADF unit. (ADF Unit)
- <u>2.</u> Remove the scanner front cover. (Scanner Front Cover)
- **3.** Remove the scanner upper cover [A].



**<u>4.</u>** Move the carriage to the right.

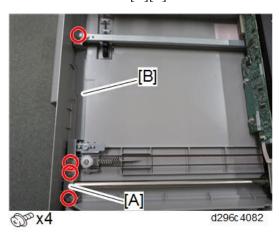


d1180008

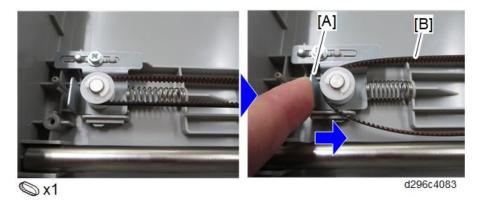
### 

- To move the carriage, hold the carriage belt and move it carefully.
- Never hold the carriage itself.

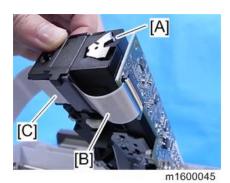
## **5.** Remove the brackets [A][B].



**6.** Slide the bracket [A] and then detach the carriage belt [B] from the pulley.

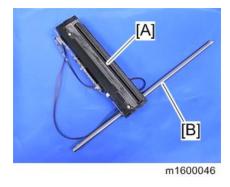


7. Disconnect the FFC [B] while lifting up the scanner carriage [A]. (\*\*x1)



**U**Note

- In the area [C], the FFC is attached with double-sided tape. Do not try to strip the FFC [B] off by force.
- When reassembling, be sure to align the tape position where originally attached.
- **8.** Remove the shaft [B] from the carriage [A].





• Never wipe off the grease on the shaft of the scanner carriage.

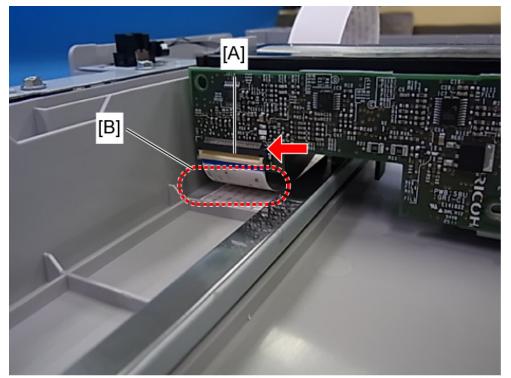
### Reinstalling the Scanner Carriage

Make sure that the FFC of the carriage is correctly connected and routed referring to the following points.

• The FFC [A] must be connected straight, and not at an angle.

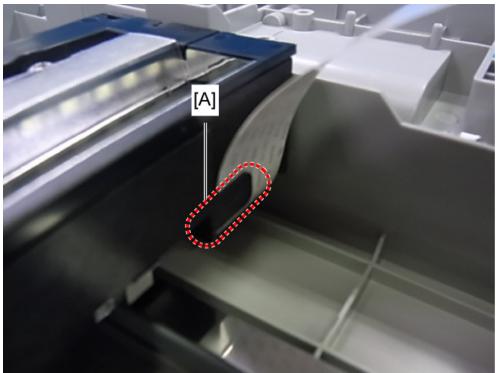
### 

- Never connect the FFC to the carriage connector at an angle. Otherwise, the BiCU or the SBU may be damaged.
- The FFC must not be sagging and must not drag on the bottom of the scanner unit [B].



d1170737

• The FFC must be hooked at part [A] of the carriage.



d1170738

## **Laser Optics**

### **MARNING**

• Turn off the main power switch and unplug the machine before beginning any of the procedures in this section. Laser beams can cause serious eye injury.

#### Caution Decal Location

The caution decal is attached as shown below.



d238m1031



d296c0003

#### Laser Units



- The machine has two laser units. This procedure describes replacement of laser unit 1. Replacement of laser unit 2 can be done in the same way.
- **1.** Remove the paper exit tray (Paper Exit Tray)
- **2.** Remove the screw and connector. Disconnect the stopper of the FFC of the laser unit 1 [A]. ( $^{\circ}$  × 1,  $^{\circ}$  × 1,  $^{\circ}$  × 2)

Repeat this procedure with the laser unit 2 [B].



• Be sure to install the washer under the screw when assembling.

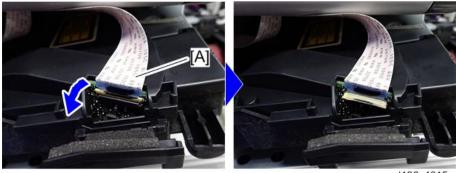


3. Pull the laser unit [A] out slightly, open the connector cover, and then disconnect the FFC [B]. ( × 1)





• Unlock the FFC [A] by lowering the white tab.



d196z4015

• Never touch the shield glass under the laser units when replacing them.

#### Adjustment after Laser Unit Replacement

Do the following settings after replacing the laser unit.

#### Initializing the D-Phase data and shading data

- 1. Plug in and turn on the main power switch of the machine.
- **2.** Enter the SP mode.
- **3.** Execute SP2-110-006 to upload the data for new laser unit to the MFP.



If failed, execute SP2-110-006 again. Otherwise the machine cannot print normally.

- 4. Exit SP mode.
- 5. Cycle the main power off/on.
- **6.** Enter the SP mode.
- 7. Execute SP3-011-001 (Manual ProCon: Exe, Normal ProCon).

#### **Executing Skew Adjustment**

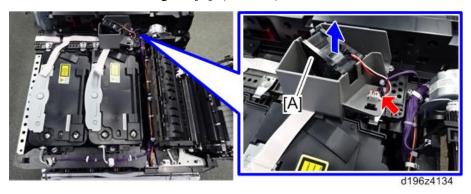
Do the skew adjustment manually.

Refer to "Color Skew Adjustment"

#### LD Unit Cooling Fan

- 1. Remove the scanner inner cover. (Scanner Inner Cover)
- **2.** Remove the paper exit tray (Paper Exit Tray)

# 3. Remove the LD unit cooling fan [A]. $(\times 1)$



## **PCDU**, Toner Supply

#### PCDU (Photo Conductor and Development Unit)

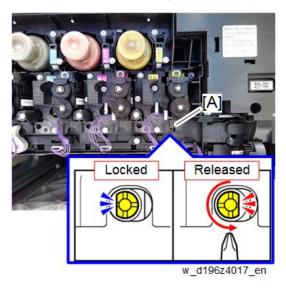
#### Mportant )

- The PCDU (K) for MP C307 is different from the one for MP C407. Make sure that you use the correct part number when ordering a PCDU (K).
- 1. Remove the waste toner bottle. (Waste Toner Bottle)
- **2.** Only when removing the PCDU (K), release the ITB contact lever [A].





- This step is not required for removing the PCDU (CMY).
- 3. Check that the ITB has no tension before removing the PCDU. Otherwise, the ITB may be damaged. To release the tension of the ITB, turn the ITB contact cam's screw [A] counterclockwise, until the flat part of the half moon on the screw points to the right.



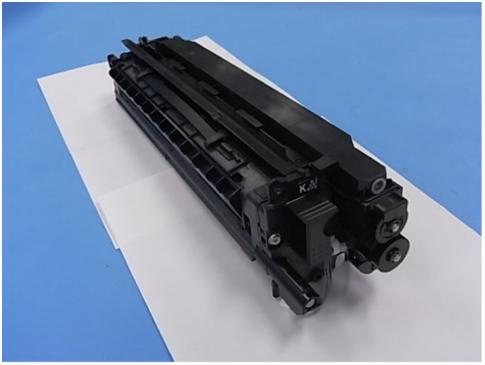
**4.** Remove the PCDU [A] ( $^{\circ}$  × 2,  $^{\circ}$  × 1,  $^{\circ}$  × 1)



d196z4017

## **ACAUTION**

- Before putting the PCDU back in the machine, check that the ITB has no tension. See step 3 for how to do this.
- 5. Put the removed PCDU on a flat surface with a sheet of paper under it.



d1170059

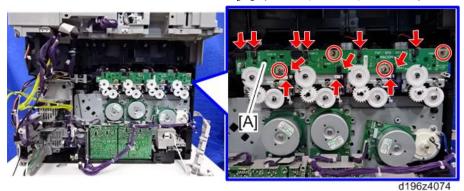
**U** Note

- After replacing the PCDU, set the ITB contact lever released in step 2.
- A new unit detection mechanism for the PCDU clears the PM counters automatically.
- After replacing the PCDU, do the skew adjustment manually. See "Color Skew Adjustment".

#### Toner Bottle Detection Board

**1.** Remove the power pack (Development). (Power Pack (Development))

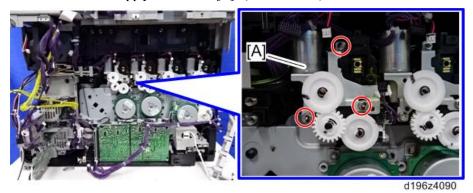
**2.** Remove the toner bottle detection board [A]. ( $\mathfrak{P} \times 4$ ,  $\mathfrak{P} \times 3$ ,  $\mathfrak{P} \times 9$ )



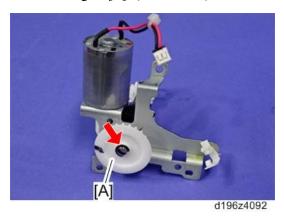
### Toner Supply Motors



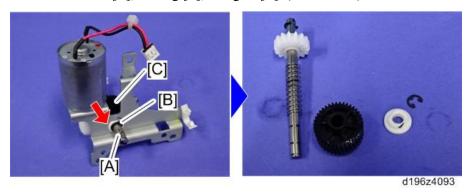
- The following is the replacement procedure for Y. The motors for the other three colors can be replaced with the same procedure as Y.
- 1. Remove the toner bottle detection board. (Toner Bottle Detection Board)
- $\underline{\mathbf{2.}}$  Remove the toner supply motor unit [A]. ( $\mathfrak{S}^{p} \times 3$  each)



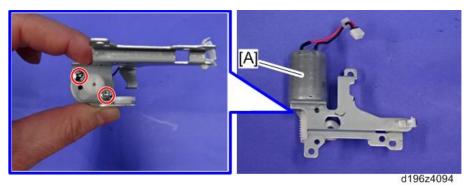
3. Remove the gear [A].  $(\%) \times 1$  each)



**4.** Remove the shaft [A], bearing [B], and gear [C].  $(\Re) \times 1$  each)



**<u>5.</u>** Remove the toner supply motor [A]. ( $^{\circ}$  × 2 each)



### Toner Transport Section

#### **Before Replacing the Toner Transport Section**

Before replacing the toner transport section (the toner sub-hopper), reset the PM counter and execute the forced toner supply.

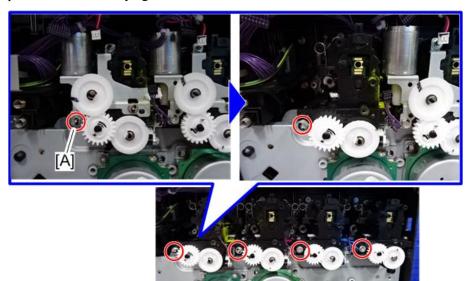
- **1.** Turn the power ON.
- **2.** Enter the SP mode.
- 3. Set the following SPs (Manual New Unit Set) to "1" depending upon the color of the replaced unit to reset the PM counter.
  - SP3-701-220 (Manual New Unit Set: Toner Sub Hopper:Bk)
  - SP3-701-221 (Manual New Unit Set: Toner Sub Hopper:C)
  - SP3-701-222 (Manual New Unit Set: Toner Sub Hopper:M)
  - SP3-701-223 (Manual New Unit Set: Toner Sub Hopper:Y)
- 4. Set the following SPs (Toner supply flag) to "1" depending upon the color of the replaced unit.
  - SP3-510-031 (Image Quality Adj.: Exec Flag Init Toner Replenishment: Bk)
  - SP3-510-032 (Image Quality Adj.: Exec Flag Init Toner Replenishment: C)
  - SP3-510-033 (Image Quality Adj.: Exec Flag Init Toner Replenishment: M)
  - SP3-510-034 (Image Quality Adj.: Exec Flag Init Toner Replenishment: Y)
- **5.** Exit from the SP mode.
- **<u>6.</u>** Turn the power OFF.

### **Replacing the Toner Transport Section**

1. Remove the toner supply motors (All colors). (Toner Supply Motors)

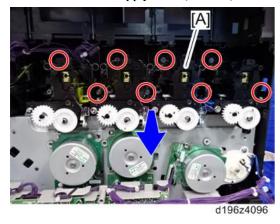


• After removing the toner supply motor, secure four screws [A] on the toner transport section to prevent toner from flying off.



d196z4095

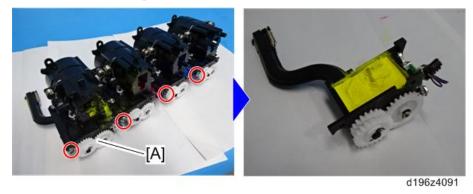
- **<u>2.</u>** Remove the toner bottles (all colors).
- 3. Remove the PCDU (all colors). (PCDU (Photo Conductor and Development Unit))
- **<u>4.</u>** Remove the toner supply unit. ( $^{\circ}$  × 8)



**U** Note

• Pull out the toner supply unit upward at an angle.

# **<u>5.</u>** Remove the toner transport section [A]. $( ^{\bigcirc} \times 1)$



## **Waste Toner**

### Waste Toner Bottle

### **Before Replacing the Waste Toner Bottle**

When you replace the waste toner bottle AFTER a waste toner full or near-full message appears on the operation panel, the PM counters are automatically cleared after turning the main power ON.

When you replace the waste toner bottle BEFORE a waste toner full or near-full message appears on the operation panel, do the following procedure to reset the PM counter.

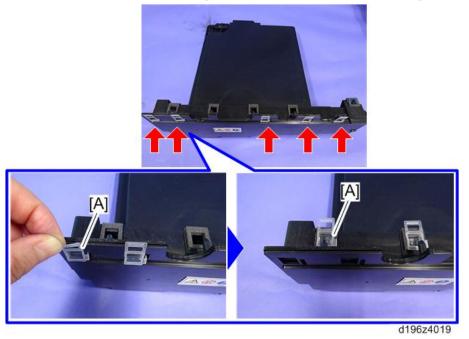
- **1.** Turn the power ON.
- **2.** Reset the PM counter. (Refer to Replacement Procedure of the PM/Yield Parts)
- **3.** Turn the power OFF.

### Replacing the Waste Toner Bottle

- **1.** Pull out the paper tray.
- **2.** Open the front cover.
- 3. Pull out the waste toner bottle [A].



4. Install the five waste toner bottle caps on the waste toner inlets. The examples [A] in the photo are for black.



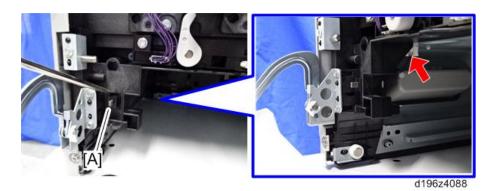
## Waste Toner Full Sensor

- 1. Remove the waste toner bottle. (Waste Toner Bottle)
- **2.** Remove the waste toner full sensor [A].  $(\checkmark \times 1, hook \times 2)$



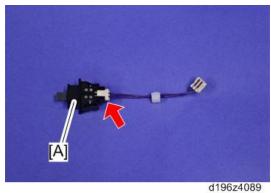
### Waste Toner Bottle Set Switch

- 1. Remove the waste toner bottle. (Waste Toner Bottle)
- **2.** Remove the waste toner bottle set switch [A].  $(\checkmark \times 1)$



**U** Note

- Release the tab with a jeweler's screwdriver to remove the switch.
- 3. Remove the harness from the waste toner bottle set switch [A].  $\times 1$



# Image/Paper Transfer

ITB (Image Transfer Belt) Unit

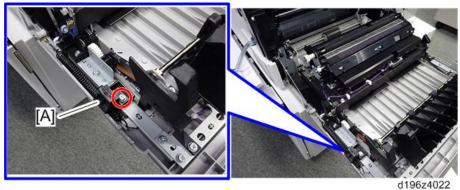
#### **Before Replacing the ITB Unit**

Before replacing the ITB unit, reset the PM counter.

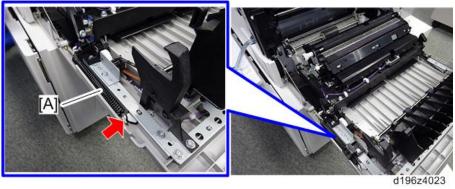
- 1. Turn the power ON.
- 2. Reset the PM counter. (Refer to Replacement Procedure of the PM/Yield Parts)
- **3.** Turn the power OFF.

## Replacing the ITB Unit

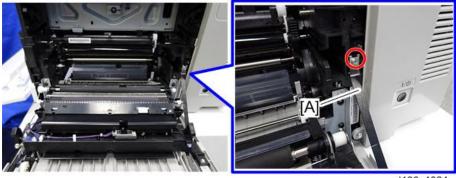
- 1. Remove all the PCDUs (PCDU (Photo Conductor and Development Unit))
- **2.** Remove the fusing unit. (Fusing Unit)
- 3. Remove the tension spring cover [A]. ( $^{\circ}$  × 1)



**<u>4.</u>** Release the tension spring [A]. ( $^{\sim}$  × 1)



 $\underline{5}$ . Release the tension belt [A]. ( $\mathfrak{S}^{p} \times 1$ )



d196z4024

**<u>6.</u>** Put a sheet of paper [A] on the duplex unit with the short edge of the paper pointing towards the ITB unit.



d196z4025



- This is to protect the paper transfer unit from toner when removing the ITB unit.
- 7. Remove the ITB unit securing bracket [A].  $( ^{\circ} \times 1)$



#### **8.** Pull out the ITB unit [A].



After Replacing the Image Transfer Belt Unit

Do the following after replacing the ITB unit.

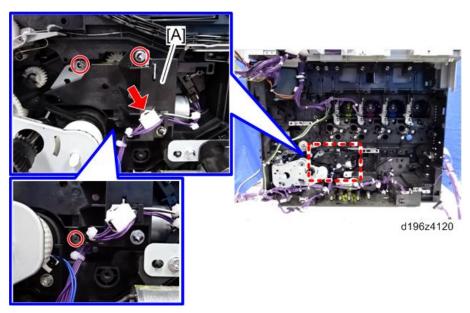
- **1.** Enter the SP mode.
- 2. Set SP1-001-031 (Leading Edge Registration Std. Measure: On/Off) to "1".
- **3.** Execute SP2-111-004 (Forced Line Position Adj. Mode d).
- **4.** SP values from SP1-001-033 to 040 (Leading Edge Registration Offset Standard: 1 to 8) are updated by the above steps.

#### 4. Replacement and Adjustment

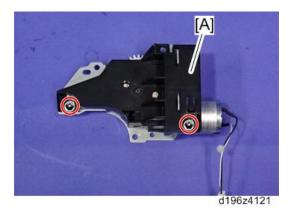
- Reset SP1-001-031 to "0". <u>5.</u>
- Exit from the SP mode. <u>6.</u>
- <u>7.</u> Turn the main power off and on.

#### ITB Contact Motor

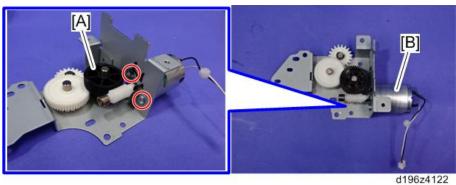
- Remove the drive unit. (Drive Unit) <u>1.</u>
- Remove the ITB contact unit [A]. (  $\mathfrak{S}^p \times 3$ ,  $\mathfrak{T}^* \times 1$ ) <u>2.</u>



Remove the cover [A].  $( \circ ) \times 2 )$ <u>3.</u>

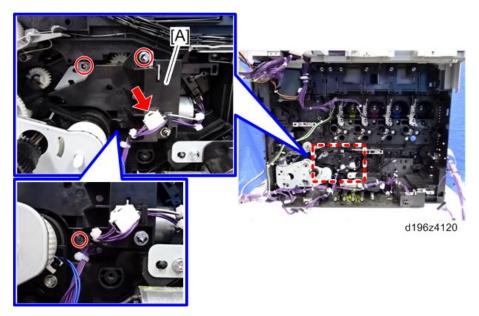


Remove the gear [A] and ITB contact motor [B]. ( $^{\circ}$  × 2)



## ITB Contact HP Sensor

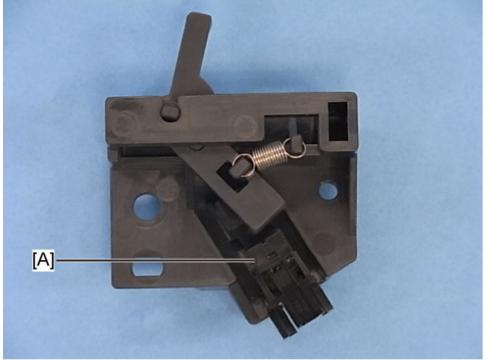
- 1. Remove the drive unit. (Drive Unit)
- **<u>2.</u>** Remove the ITB contact unit [A]. ( $\mathfrak{P} \times 3$ ,  $\mathfrak{F} \times 1$ )



3. Remove the ITB contact HP sensor with the bracket [A]. ( $^{\circ}$  × 1,  $^{\circ}$  × 1)



## $\underline{\mathbf{4.}}$ Remove the ITB contact HP sensor [A]. (Hook $\times$ 2)



d1170198

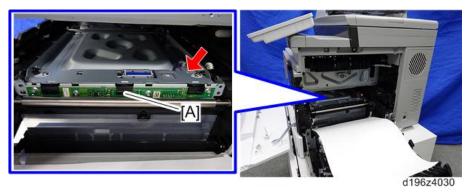
## ID Sensor

- Remove the ITB unit. (ITB (Image Transfer Belt) Unit) <u>1.</u>
- Remove the guide plate [A]. ( $\mathfrak{S}^{p} \times 2$ ) <u>2.</u>



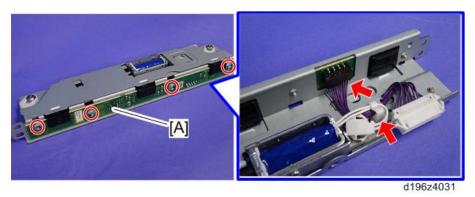
d196z4029

Remove the ID sensor [A] with the bracket.  $(\checkmark \times 1)$ 



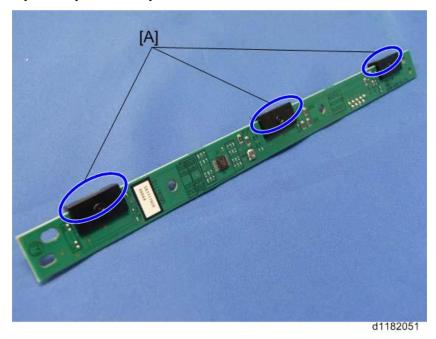
**<u>4.</u>** Remove the ID sensor [A]. ( $\mathfrak{S}^{*} \times 4$ ,  $\mathfrak{S}^{*} \times 1$ ,  $\mathfrak{S}^{*} \times 1$ )

244



**U**Note

- When cleaning the ID sensor, wipe the parts [A] with a damp cloth.
- Do not wipe it with a dry cloth, or the ID sensor may attract dirt because of static electricity. Let it dry naturally if necessary.

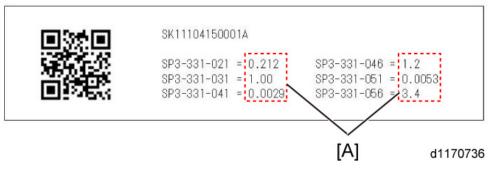


#### After Installing a New ID Sensor Board

Do the following adjustment after installing a new ID sensor board.

- 1. Plug in and turn on the main power.
- **2.** Enter the SP mode.
- **3.** Enter all correction coefficients [A] for the ID sensor with the SP modes, referring to the barcode sheet provided with the new ID sensor board.

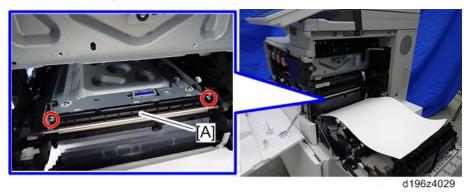
#### 4. Replacement and Adjustment



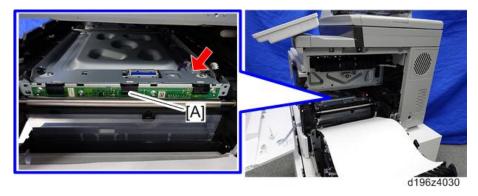
- **U** Note
  - For example, enter "1.2" with SP3-331-046.
- **4.** Exit the SP mode.

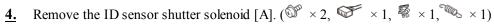
#### ID Sensor Shutter Solenoid

- 1. Remove the ITB unit. (ITB (Image Transfer Belt) Unit)
- **<u>2.</u>** Remove the guide plate [A]. ( $\mathfrak{S}^{\circ} \times 2$ )



 $\underline{\mathbf{3.}}$  Remove the ID sensor [A] with the bracket. ( $\checkmark$  × 1)







Paper Transfer Roller Unit

#### Before Replacing the Paper Transfer Roller Unit

Before replacing the paper transfer roller unit, reset the PM counter.

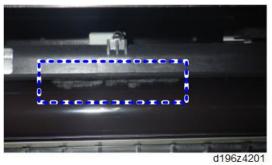
- **1.** Turn the power ON.
- 2. Reset the PM counter. (Refer to Replacement Procedure of the PM/Yield Parts)
- **3.** Turn the power OFF.

#### Replacing the Paper Transfer Roller Unit

**1.** Open the right door.



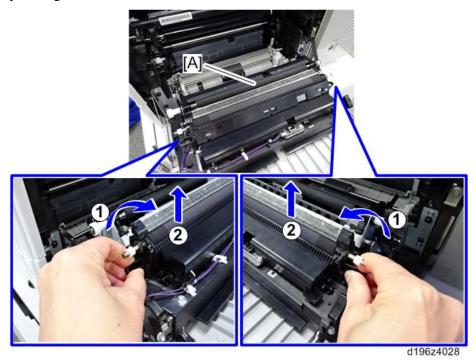
• If you find paper dust on the registration section when you open the duplex unit, remove the dust. Otherwise, the dust causes lines on the image.



2. Remove the paper transfer unit [A] while holding the knobs on both ends of the paper transfer roller with

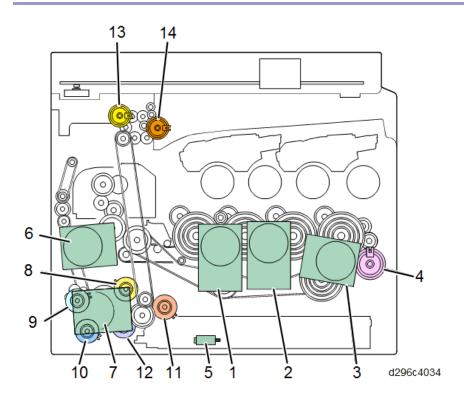
## 4. Replacement and Adjustment

your fingers.



# **Drive**

#### Overview



- 1. Development motor (CMY)
- 2. Drum motor (CMY)
- 3. Drum motor (K)
- 4. Development clutch (K)
- 5. Tray lift motor
- 6. Fusing motor
- 7. Paper transport motor
- 8. Registration clutch
- 9. Duplex clutch
- 10. Bypass feed clutch
- 11. Paper feed clutch
- 12. Bypass lift clutch
- 13. Reverse clutch
- 14. Paper exit clutch

#### Development Motor (CMY)

1. Remove the power pack (Transfer) with the bracket. (Power Pack (Transfer))

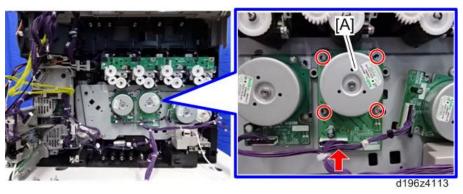
**2.** Remove the development motor (CMY) [A]. ( $^{\circ}$  × 4,  $^{\circ}$  × 1)



d196z4112

#### Drum Motor (CMY)

- 1. Remove the power pack (Transfer) with the bracket. (Power Pack (Transfer))
- **2.** Remove the drum motor (CMY) [A]. ( $^{\circ}$  × 4,  $^{\circ}$  × 1)



#### Drum Motor (K)

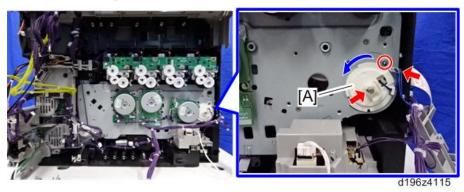
- 1. Remove the power pack (Transfer) with the bracket. (Power Pack (Transfer))
- **2.** Remove the drum motor (K) [A]. ( $^{\circ}$  ×4,  $^{\circ}$  ×1)



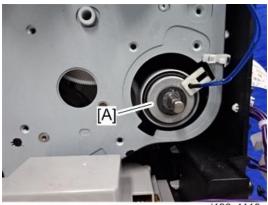
#### Development Clutch (K)

**1.** Remove the drum motor (K). (Drum Motor (K))

**2.** Remove the development clutch cover [A] by rotating it counterclockwise.  $( \mathcal{O} \times 1, \mathcal{R} \times 1, \mathcal{R} \times 1)$ 

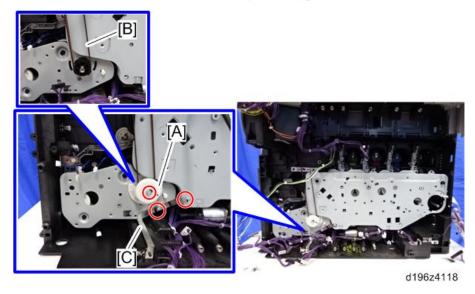


**3.** Remove the development clutch [A].

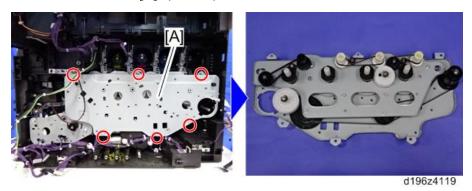


Drive Unit

- 1. Remove the toner transport section. (Toner Transport Section)
- **2.** Remove the development motor (CMY). (Development Motor (CMY))
- **3.** Remove the drum motor (CMY). (Drum Motor (K))
- **<u>4.</u>** Remove the drum motor (K). (Drum Motor (K))
- **<u>5.</u>** Remove the development clutch (K). (Development Clutch (K))
- **<u>6.</u>** Remove the gear cover [A], belt [B], and grounding plate [C]. ( $\mathfrak{S}^p \times 3$ ,  $\mathfrak{S} \times 1$ )



# $\underline{7.}$ Remove the drive unit [A]. ( $^{\circ}$ × 6)

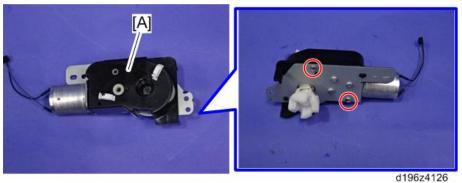


## Tray Lift Motor

- Remove the drive unit. (Drive Unit) <u>1.</u>
- Remove the tray lift motor unit [A]. ( $^{\circ}$  × 2,  $^{\circ}$  × 2,  $^{\circ}$  × 1) <u>2.</u>



Remove the motor cover [A].  $(\mathfrak{O}^{\circ} \times 2)$ <u>3.</u>



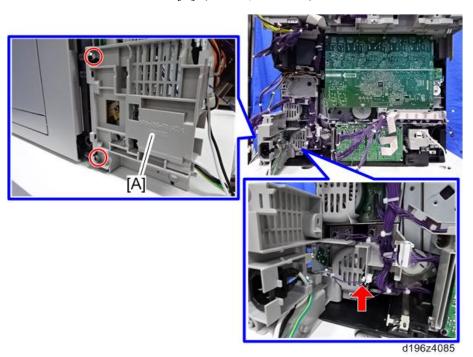
**<u>4.</u>** Remove the tray lift motor [A]. ( $^{\circ}$  × 2)



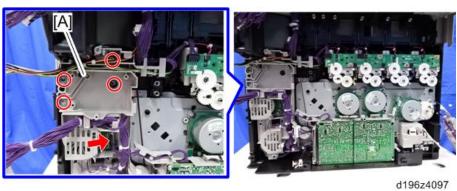
d196z4127

# Fusing Motor

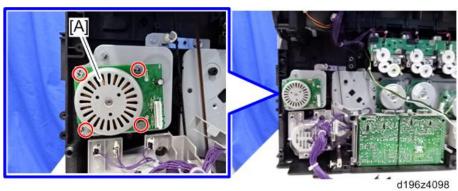
- 1. Remove the PSUs with the bracket. (PSU (AC), PSU (DC))
- **2.** Remove the DC switch cover [A]. ( $\mathfrak{S}^{*} \times 2$ ,  $\mathfrak{S}^{*} \times 1$ )



- 3. Remove the power pack (Development). (Power Pack (Development))
- **<u>4.</u>** Release the harness and remove the harness guide [A]. ( $^{\circ}$  × 4,  $^{\circ}$  × 1)

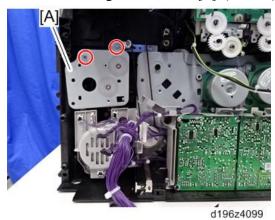


**<u>5.</u>** Remove the fusing motor [A].  $(\mathfrak{P} \times 4)$ 



## Paper Transport Motor

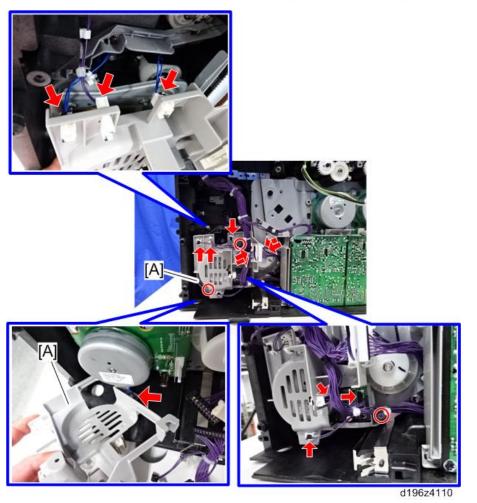
- 1. Remove the fusing motor. (Fusing Motor)
- **2.** Remove the fusing motor bracket [A].  $(\mathfrak{D}^{2} \times 2)$



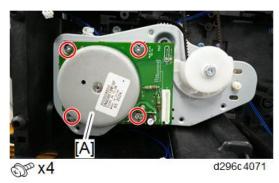
3. Remove the harness guide [A]. ( $^{\circ}$  × 3,  $^{\circ}$  × 14)



• There are connectors behind the harness guide. Remove the guide carefully.

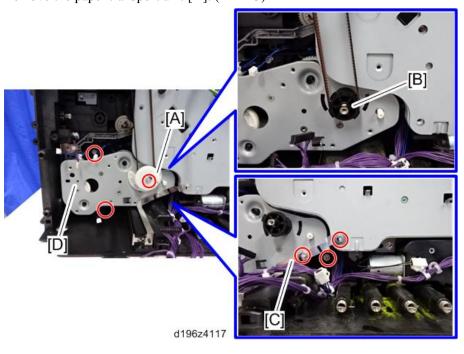


#### **<u>4.</u>** Remove the paper transport motor [A].

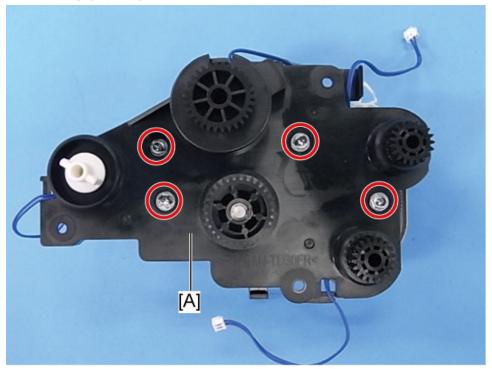


## Duplex Clutch, Bypass Feed Clutch, Registration Clutch, Paper Feed Clutch

- 1. Remove the paper transport motor. (Paper Transport Motor)
- 2. Remove the power pack (Transfer) with the bracket. (Power Pack (Transfer))
- 3. Remove the gear cover [A] and gear [B]. ( $\mathfrak{O}^{\circ} \times 1$ ,  $\mathfrak{D} \times 1$ )
- **4.** Remove the grounding plate [C].  $( \mathcal{O}^{\circ} \times 2)$
- **<u>5.</u>** Remove the paper transport unit [D].  $( \mathfrak{D}^p \times 3)$

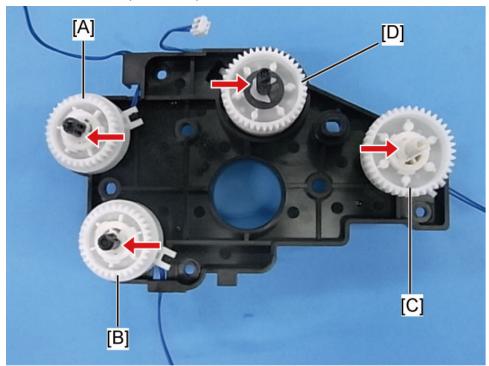


# **<u>6.</u>** Remove the paper transport unit cover [A]. ( $^{\textcircled{op}} \times 4$ )



d1170175

# $\underline{7.}$ Remove each clutch. ( $\mathbb{R} \times 1$ each)



d1170176

[A]: Duplex clutch

[B]: Bypass feed clutch

[C]: Paper feed clutch

[D]: Registration clutch

# **Fusing**

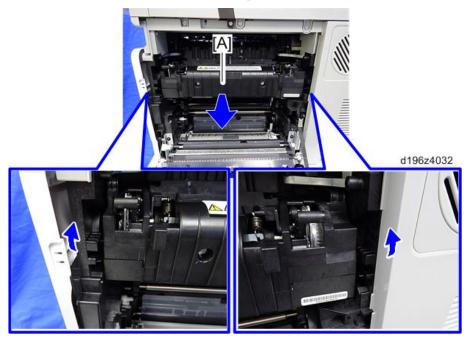
Fusing Unit

#### **ACAUTION**

Turn off the main switch and wait until the fusing unit cools down before beginning any of the procedures in this section. The fusing unit can cause serious burns.

#### Mportant )

- Basically, the entire fusing unit must be replaced when SC544-00 or SC554-00 occurs.
- In some cases, the fusing unit need not be replaced if SC544-00 or SC554-00 occurs. See "Actions When SC544-00 or SC554-00 Occurs" for these cases.
- 1. Release the left and right lock levers, then pull out the fusing unit [A].



#### Fusing Upper Cover

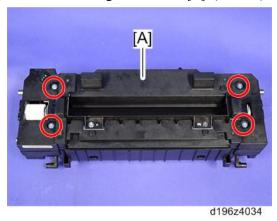
- Remove the fusing unit. (Fusing Unit) <u>1.</u>
- Remove the fusing upper cover [A]. ( $^{\circ}$  × 4)



d196z4033

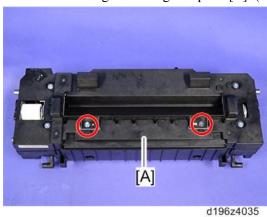
#### Fusing Lower Cover

- **1.** Remove the fusing unit. (Fusing Unit)
- **2.** Remove the fusing lower cover [A].  $(\mathfrak{P} \times 4)$



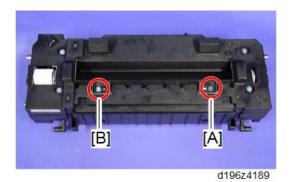
#### Fusing Entrance Guide Plate

- 1. Remove the fusing unit. (Fusing Unit)
- **2.** Remove the fusing entrance guide plate [A].  $( \mathcal{O}^{\circ} \times 2 )$



**U** Note

- There are two screw holes for each screw on the entrance guide plate. Use the outer holes when tightening the entrance guide plate.
- Different types of screws are used for [A] and [B]:
  - [A]: Shoulder screw
  - [B]: Double sems screw (a screw with a washer)



#### Fusing Thermostat

- 1. Remove the fusing upper cover. (Fusing Upper Cover)
- **2.** Remove the fusing thermostat [A].  $(\mathfrak{P} \times 2)$



• Never re-use a thermostat that has activated. Use a new thermostat for replacement.

#### Fusing Thermistor (NC Sensor)



**U** Note

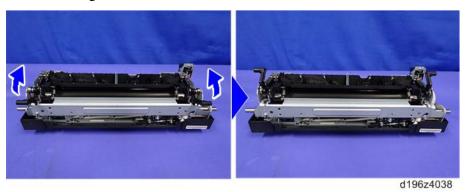
- If the hook of the fusing thermistor is broken, the fusing thermistor cannot be attached. Replace the entire fusing unit in that case.
- 1. Remove the fusing upper cover. (Fusing Upper Cover)
- **2.** Push the hooks and remove the fusing thermistor [A]. ( × 1).



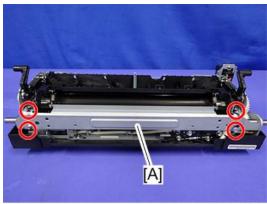
259

## Fusing Pressure Roller Thermistors

- 1. Remove the fusing upper cover (Fusing Upper Cover)
- 2. Raise the fusing lever.



3. Remove the bracket [A]. ( $^{\circ}$  × 4)



d196z4039

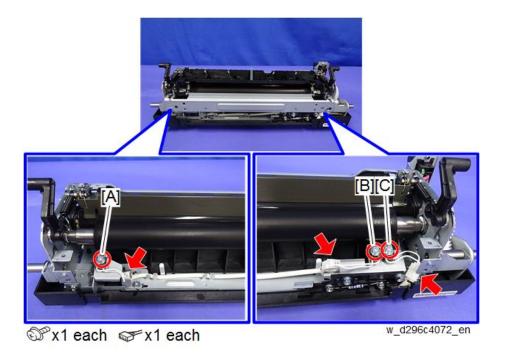
**U** Note

• Lift the fusing lever while removing the upper screws.



d196z4049

- **<u>4.</u>** Remove the pressure roller thermistors [A], [B] or [C].
  - A: Pressure roller thermistor (Front)
  - B: Pressure roller thermistor (Center)
  - C: Pressure roller thermistor (Rear)



#### Pressure Roller

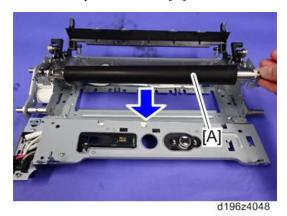
#### **Before Replacing the Pressure Roller**

Before replacing the pressure roller, reset the PM counter.

- **1.** Turn the power ON.
- 2. Reset the PM counter. (Refer to Replacement Procedure of the PM/Yield Parts)
- **3.** Turn the power OFF.

#### Replacing the Pressure Roller

- 1. Remove the fusing sleeve belt assembly. (Fusing Sleeve Belt Assembly)
- **2.** Remove the pressure roller [A].



Fusing Sleeve Belt Assembly

#### **Before Replacing the Fusing Sleeve Belt Assembly**

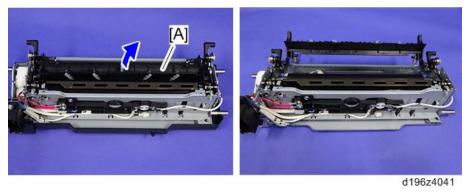
Before replacing the fusing sleeve belt assembly, reset the PM counter.

#### 4. Replacement and Adjustment

- **1.** Turn the power ON.
- 2. Reset the PM counter. (Refer to Replacement Procedure of the PM/Yield Parts)
- **3.** Turn the power OFF.

#### Replacing the Fusing Sleeve Belt Assembly

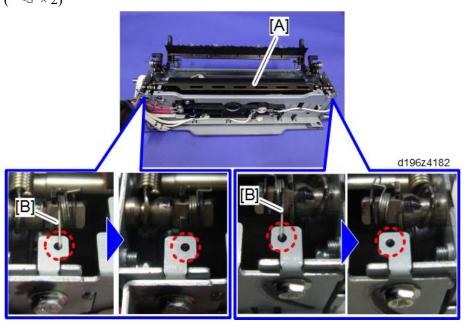
- 1. Remove the fusing lower cover. (Fusing Lower Cover)
- **2.** Remove the fusing entrance guide plate. (Fusing Entrance Guide Plate)
- **3.** Remove the fusing upper cover. (Fusing Upper Cover)
- **<u>4.</u>** Raise the fusing exit guide plate [A].



### **CAUTION**

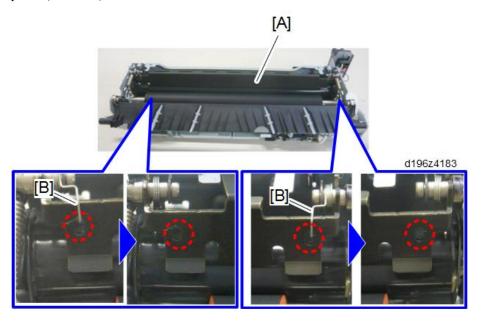
Place a cloth or sheet of paper under the fusing unit when removing the fusing lower cover. Otherwise, the screw(s) and gear(s) exposed after removing the cover will scratch or transfer grease to the work surface.

**<u>5.</u>** Remove the springs [B], which are on both ends of the separation plate [A], from the holes in the frame.  $(^{5}\times 2)$ 

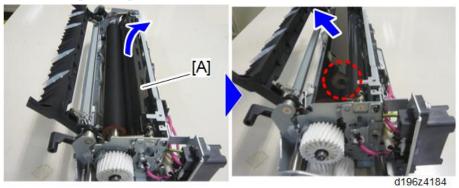


**6.** Remove the springs [B], which are on both ends of the separation plate [A], from the holes in the separation

plate. ( $\times$  2)



7. Rotate the separation plate [A], and remove it from the frame.

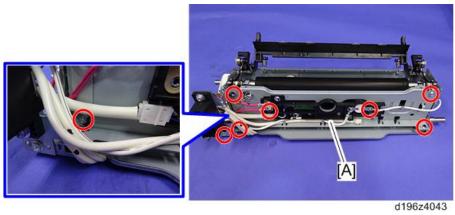


## **ACAUTION**

Do not apply excess force to the separation plate when removing it, to prevent the separation plate from deforming.

When reattaching the separation plate, make sure that the plate is firmly attached to the frame hole.

- **8.** Remove the fusing lamp harnesses.  $(\mathcal{Y} \times 2)$

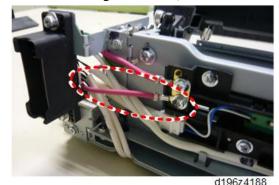


263

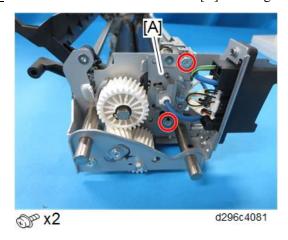
#### 4. Replacement and Adjustment

**U** Note

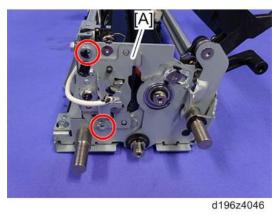
When reattaching the harness, route the harness exactly the same way as before removal.



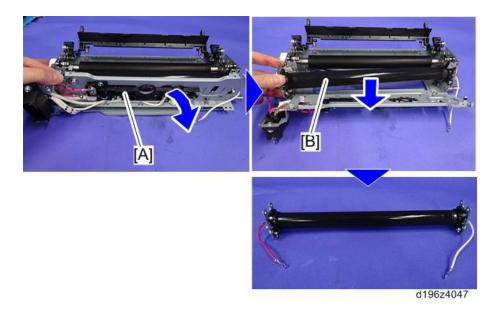
10. Remove the screws of the frame [A] at the right.



 $\underline{\textbf{11.}} \ \ \text{Remove the screws of the frame [A] at the left.} \ (\textcircled{9}^{\times} \times 2)$ 



12. Pull out the rear frame [A], and take out the fusing sleeve belt assembly [B].



#### **ACAUTION**

Do not touch the surface of the fusing sleeve belt assembly.

When reattaching the rear frame, do not let the fusing sleeve belt hit the projection of the thermostat and the frame.



When reattaching the fusing sleeve belt assembly, do not let the fusing sleeve belt assembly hit the projection of the sensor or the screws on the stay.

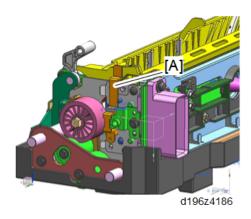


Make sure that both side plates fit right into the locating bosses of the frame before securing the screws.



The new fusing sleeve belt assembly has a jig [A], which must be removed. Set the fusing sleeve belt assembly first, tighten the screws, then remove the jig.

## 4. Replacement and Adjustment



## Fusing Entrance Sensor

**1.** Open the right door.

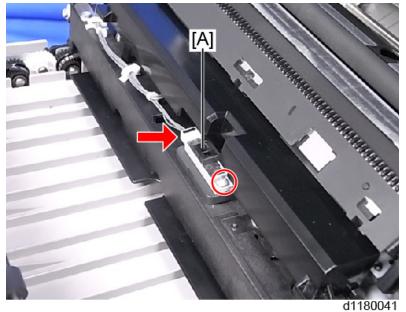


• If you find paper dust in the registration section when you open the right door, remove the dust.

Otherwise, the dust can cause lines on the image.

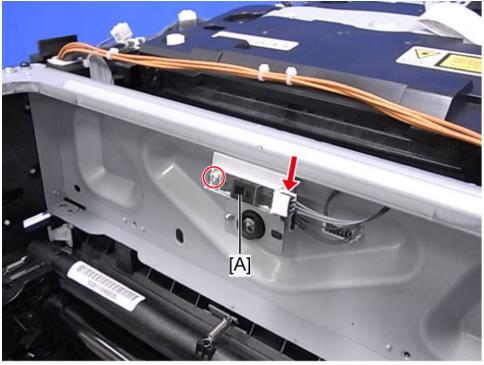


**<u>2.</u>** Remove the fusing entrance sensor [A]. ( $\mathfrak{P} \times 1$ ,  $\mathfrak{P} \times 1$ )



Fusing Exit Sensor

- 1. Remove the paper exit unit. (Paper Exit Unit)
- **2.** Remove the fusing exit sensor [A]. ( $\mathfrak{P} \times 1$ ,  $\mathfrak{F} \times 1$ )

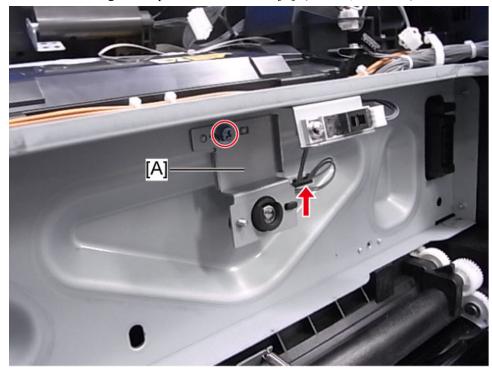


d1170127

#### Fusing Thermopile

1. Remove the paper exit unit. (Paper Exit Unit)

**2.** Remove the fusing thermopile with the bracket [A]. ( $\mathfrak{P} \times 1$ ,  $\mathfrak{P} \times 1$ )



d1170128

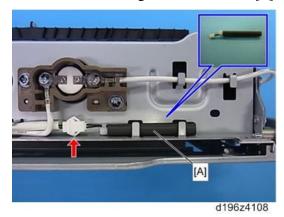


d1170129

## New Fusing Unit Detection Fuse

1. Remove the fusing upper cover. (Fusing Upper Cover)

 $\underline{2}$ . Remove the new fusing unit detection fuse [A] if the old blown fuse is attached. ( $\checkmark$  x 1)



 $\underline{\mathbf{3}}$ . Connect the fuse connector, and insert the fuse into place from the upper side.

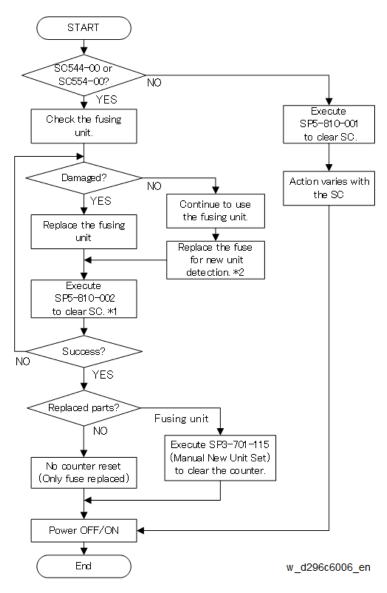


 Refer to the flow chart below when SC544-00 or SC554-00 occurs. (Actions When SC544-00 or SC554-00 Occurs)

#### Actions When SC544-00 or SC554-00 Occurs

Basically, the entire fusing unit must be replaced when SC544-00 or SC554-00 occurs. However, it is possible to continue to use the old fusing unit when there is no damage found when you inspect the fusing unit in accordance with the flow chart shown below.

#### 4. Replacement and Adjustment



\*1:

Do not open the door when doing the procedure in this flow chart ("SC reset failure" will be shown.). The SC reset will be successful if the fuse for new fusing unit detection is blown if the machine door is open during the SC reset, and it will not be successful if it is not blown. The SC reset should be performed again if it fails. "SC reset failure" will be shown when this SP (SP5-810-002) is executed if an SC other than SC544-00/SC554-00 occurred.

\*2: If there is no fuse for new unit detection (such as in the fusing unit that comes with the machine from the factory), install a fuse.

#### Important

- Never use a damaged fusing unit.
- Inspect the entire fusing unit carefully if you will continue to use this unit.

# **Paper Feed**

Paper Feed Roller, Friction Pad (Standard Tray)

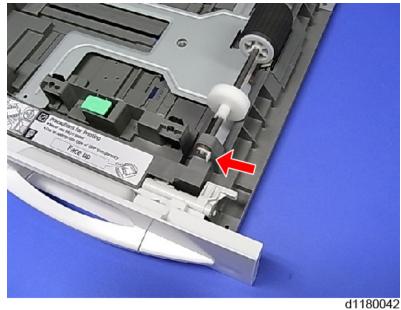
### Before Replacing the Paper Feed Roller and Friction Pad

Before replacing the paper feed roller and friction pad, reset the PM counter.

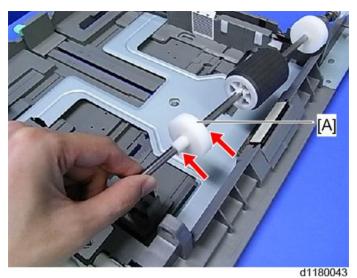
- **1.** Turn the power ON.
- 2. Reset the PM counter. (Refer to Replacement Procedure of the PM/Yield Parts)
- **3.** Turn the power OFF.

## Replacing the Paper Feed Roller and Friction Pad

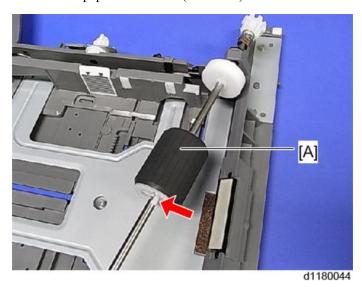
- **1.** Pull out the paper tray.
- **2.** Pull out the bearing. ( $\Re \times 1$ )



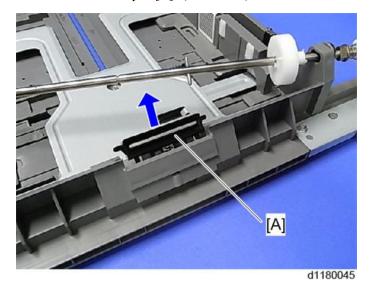
3. Lift up the shaft, then remove the sub paper feed roller [A].  $( \times 2)$ 



**<u>4.</u>** Remove the paper feed roller. (Hook  $\times$  1)



 $\underline{5}$ . Remove the friction pad [A]. (Hooks  $\times$  2)

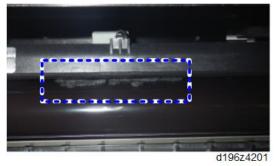


## Registration Sensor, Paper Feed Sensor

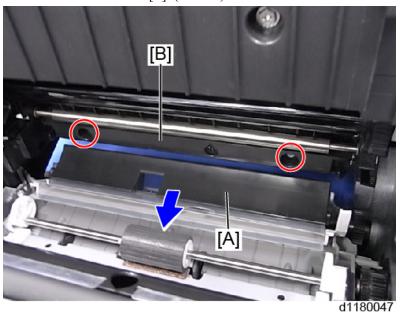
**1.** Open the right door.

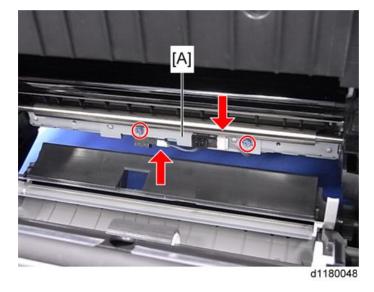


• If you find paper dust in the registration section when you open the duplex unit, remove the dust. Otherwise, the dust can cause lines on the image.



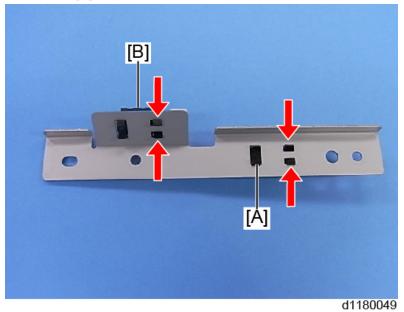
- **2.** Pull down the guide plate [A].
- $\underline{\mathbf{3.}}$  Remove the sensor cover [B].  $(\mathfrak{D}^{2} \times 2)$





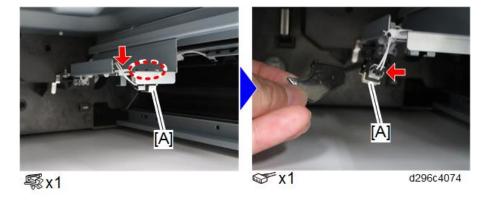
 $\underline{5}$ . Remove the registration sensor [A]. (Hook  $\times$  2)

**<u>6.</u>** Remove the paper feed sensor [B]. (Hook  $\times$  2)



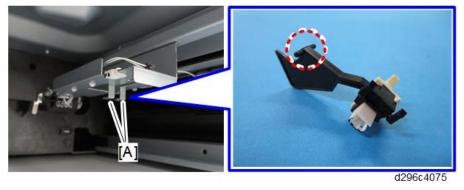
## Tray Paper End Sensor

- 1. Remove the waste toner bottle. (Waste Toner Bottle)
- **2.** Remove the tray paper end sensor [A]. ( $\checkmark$  1, hook  $\times$  2)



**U** Note

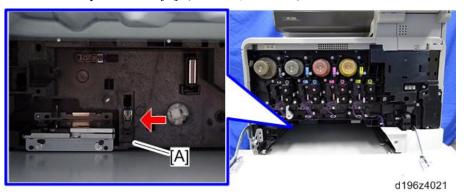
When reattaching the tray paper end sensor, make sure that the shaft of the feeler is hooked onto the bracket [A].



274

### Tray Lift Sensor

- 1. Remove the waste toner bottle. (Waste Toner Bottle)
- **2.** Remove the tray lift sensor [A].  $( > 1, hook \times 2)$



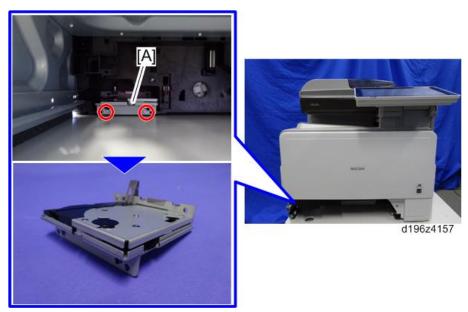
### Draw-in Unit

- 1. Remove the PSU fan. (PSU Fan)
- 2. Remove the rear cover. (Rear Cover)
- 3. Remove the screw.  $(\mathfrak{P} \times 1)$

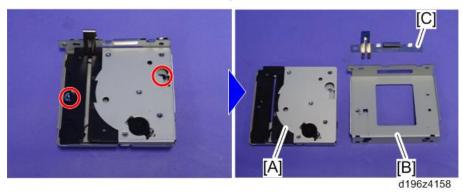


d196z4156

 $\underline{\textbf{4.}}$  Remove the draw-in unit [A] with bracket. ( $\mathfrak{G}^{\times} \times 2$ )

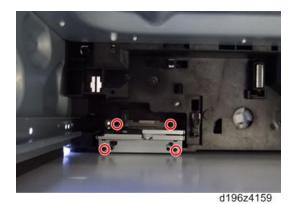


**5.** Remove the bracket [B] and grounding plate [C] from the draw-in unit [A].





• When installing the draw-in unit, fit the bracket's holes onto the bosses on the mainframe. ( $^{\circ}$  × 4)



276

# **Bypass**

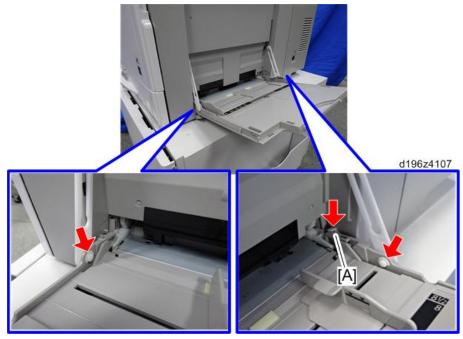
### Bypass Tray

## 1. Open the bypass tray [A].



d1170089

# **<u>2.</u>** Remove the stopper [A], and E-rings. ( $\mathbb{C} \times 2$ , Stopper $\times 1$ )

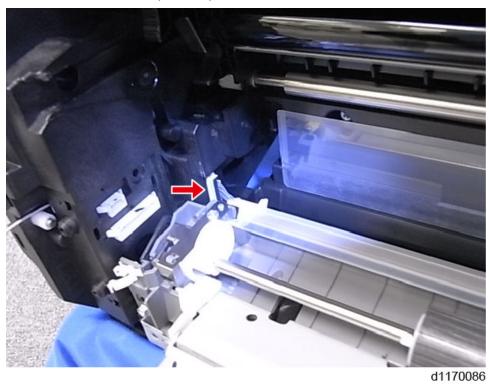


3. Close the bypass tray [A] slightly and pull it out upwards.

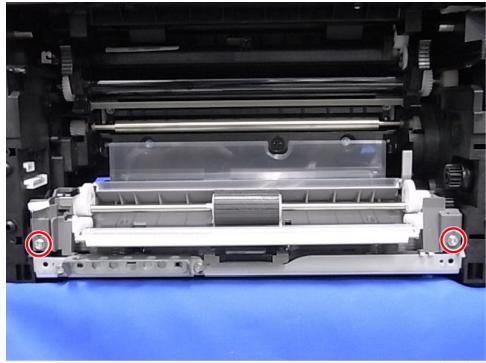


### Bypass Feed Unit

- 1. Remove the duplex unit. (Duplex Unit)
- **<u>2.</u>** Disconnect the connector.  $(X \times 1)$



# 3. Remove the two screws. $( ^{\circ \circ} \times 2)$



d1170087

### **4.** Remove the bypass feed unit [A].



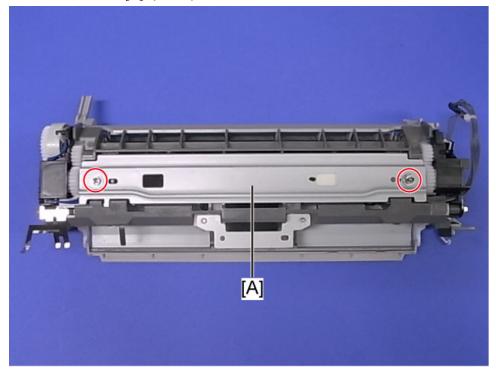
• Lift up the left side of the unit and remove it while pulling it out forward.

### Bypass Paper End Sensor

**U** Note

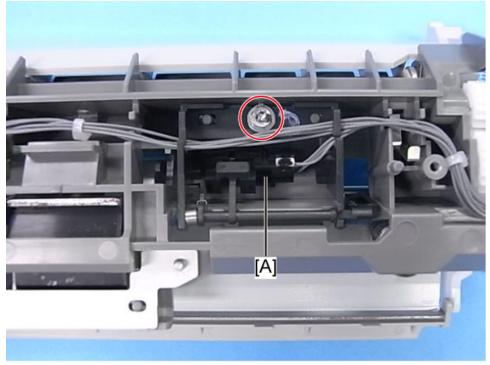
1. Remove the bypass feed unit. (Bypass Feed Unit)

# **<u>2.</u>** Remove the bracket [A]. $(\mathfrak{P} \times 2)$



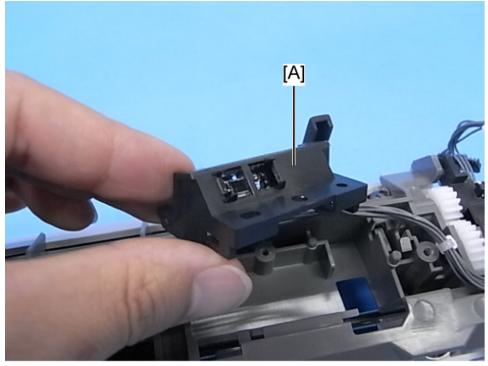
d1170116

# 3. Remove the bypass paper end sensor with the holder [A]. $(\mathfrak{S}^{p} \times 1)$



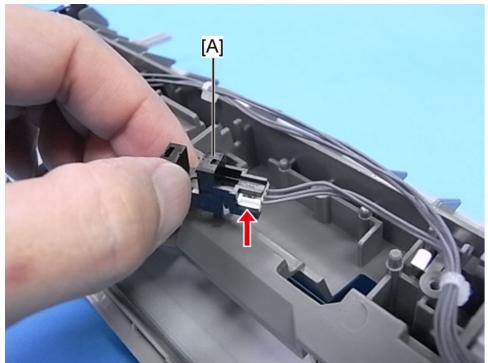
d1170117

## $\underline{\mathbf{4.}}$ Remove the sensor holder [A]. (Hook $\times$ 2)



d1170118

# **<u>5.</u>** Remove the bypass paper end sensor [A]. $(\checkmark \times 1)$

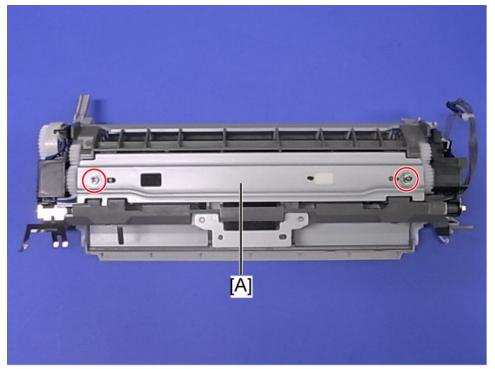


d1170119

### Bypass Paper Width Sensor

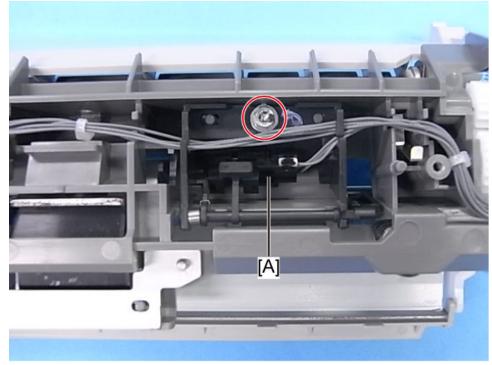
1. Remove the bypass feed unit. (Bypass Feed Unit)

# **<u>2.</u>** Remove the bracket [A]. $(\mathfrak{D}^{\circ} \times 2)$



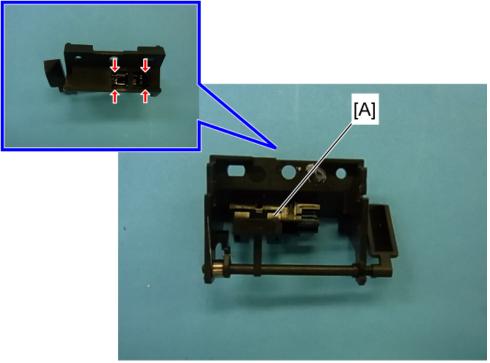
d1170122

# 3. Remove the bypass paper width sensor with the holder [A]. ( $^{\circ}$ × 1)



d1170117

#### $\underline{\mathbf{4}}$ . Remove the bypass paper width sensor [A]. (Hooks $\times$ 4)



d1170742

#### Bypass Feed Roller

#### Before Replacing the Bypass Feed Roller

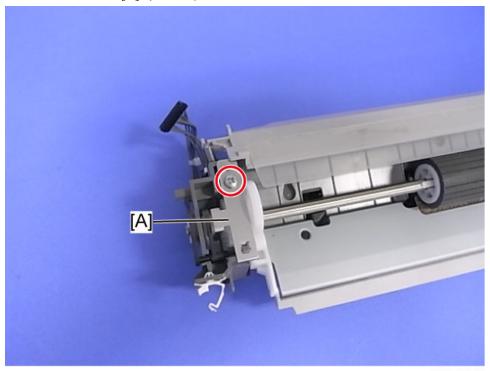
Before replacing the bypass feed roller, reset the PM counter.

- **1.** Turn the power ON.
- 2. Reset the PM counter. (Refer to Replacement Procedure of the PM/Yield Parts)
- **3.** Turn the power OFF.

#### Replacing the Bypass Feed Roller

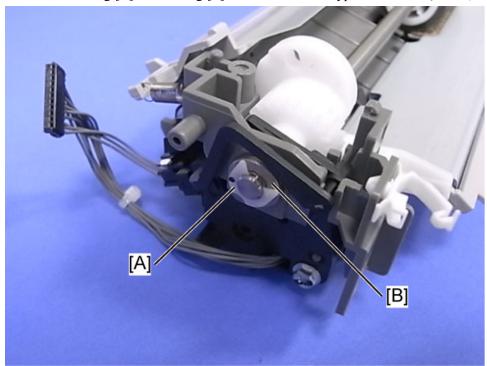
1. Remove the bypass feed unit. (Bypass Feed Unit)

# 



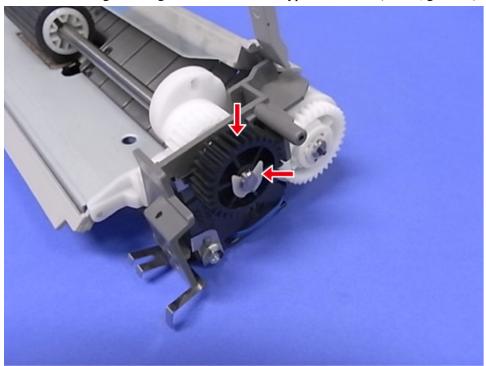
d1170067

 $\underline{\mathbf{3.}}$  Remove the E-ring [A] and bearing [B] at the front of the bypass feed unit. ( $\mathbb{C} \times 1$ , bearing  $\times 1$ )



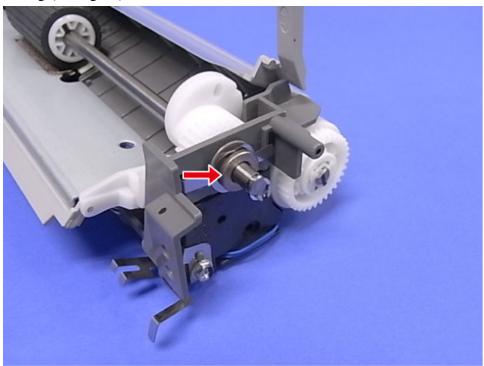
d1170068

**<u>4.</u>** Remove the E-ring and the gear at the rear of the bypass feed unit. ( $\mathbb{C} \times 1$ , gear  $\times 1$ )



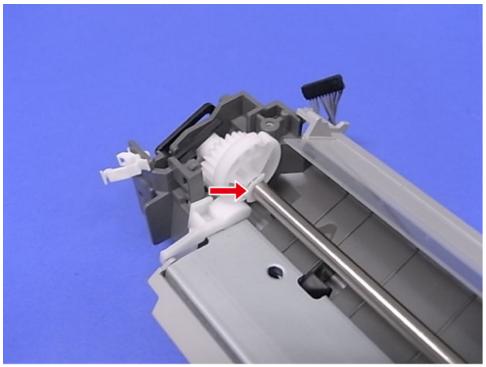
d1170069

### **5.** Bearing (bearing $\times$ 1)



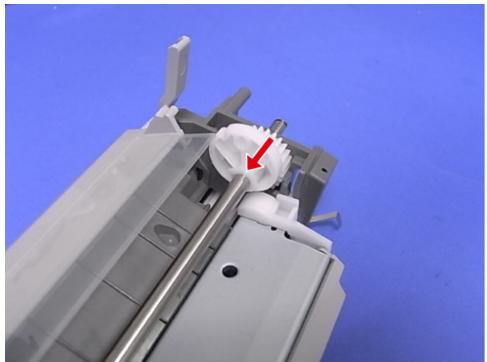
d1170070

# **<u>6.</u>** E-ring at the front of the bypass feed unit ( $\mathbb{C} \times 1$ )

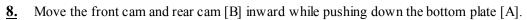


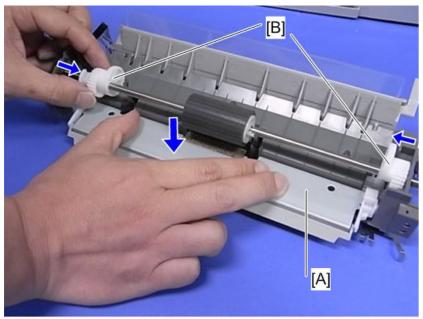
d1170071

# <u>7.</u> E-ring at the rear of the bypass feed unit ( $\mathbb{C} \times 1$ )



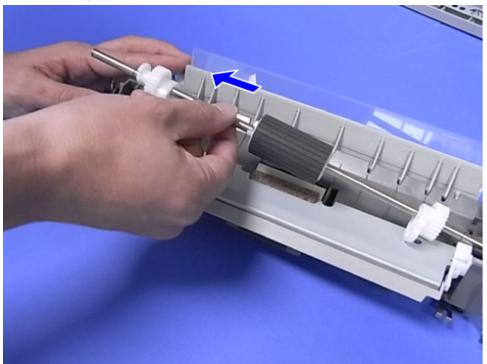
d1170072





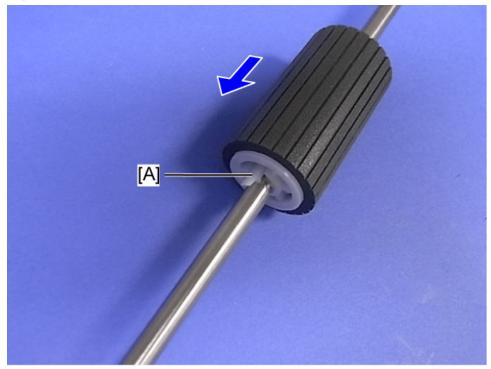
d1170073

**9.** Remove the bypass feed roller with the shaft from the front side.



d1170074

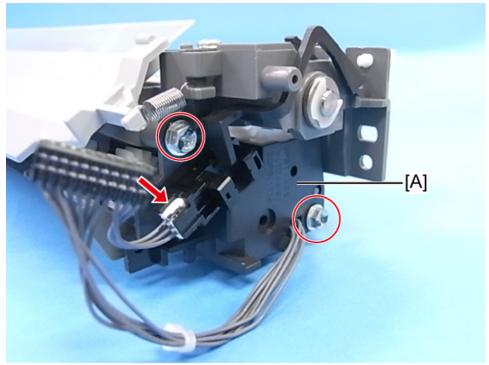
## $\underline{10}$ . Bypass feed roller [A] (Hook × 1)



d1170075

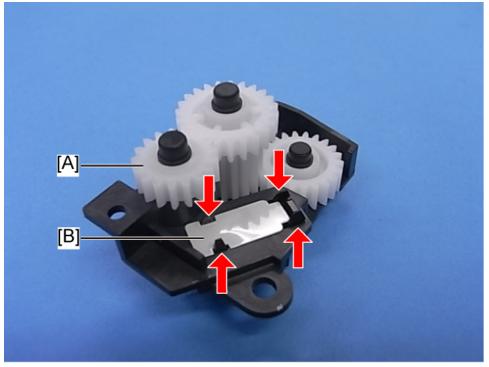
### Bypass Lift Sensor

- 1. Remove the bypass feed unit. (Bypass Feed Unit)
- $\underline{\mathbf{2.}}$  Remove the sensor holder [A]. ( $\mathfrak{S}^p \times 2$ ,  $\mathfrak{S}^p \times 1$ )



d1170120

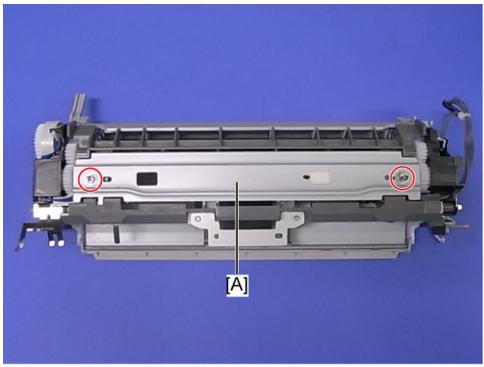
3. Remove the gear [A] and bypass lift sensor [B]. (Hooks  $\times$  4)



d1170121

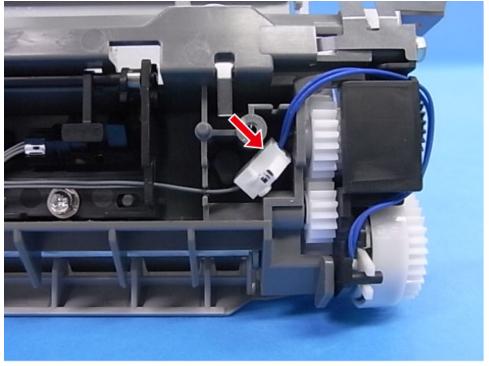
### Bypass Lift Clutch

- 1. Remove the bypass feed unit. (Bypass Feed Unit)
- **2.** Remove the bracket [A].  $(\mathfrak{D}^{\times} \times 2)$



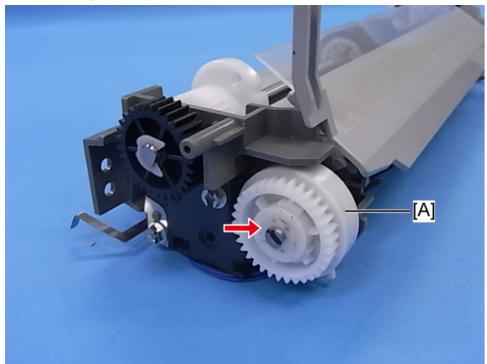
d1170122

# 3. Disconnect the connector of the clutch. $(\times \times 1)$



d1170123

# **<u>4.</u>** Remove the bypass lift clutch [A]. ( $\mathbb{C} \times 1$ )

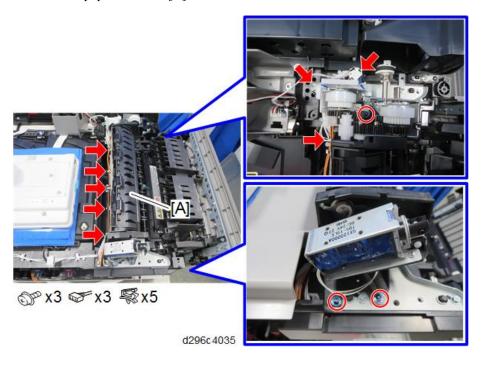


d1170124

## Paper Exit

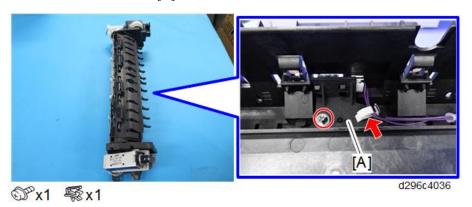
### Paper Exit Unit

- 1. Remove the scanner inner cover. (Scanner Inner Cover)
- **2.** Remove the paper exit unit [A].

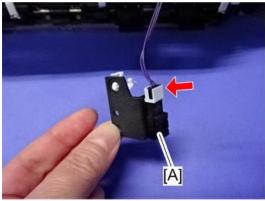


### Paper Exit Sensor

- 1. Remove the paper exit unit. (Paper Exit Unit)
- **2.** Remove the sensor holder [A].



3. Remove the paper exit sensor [A]. ( × 1)



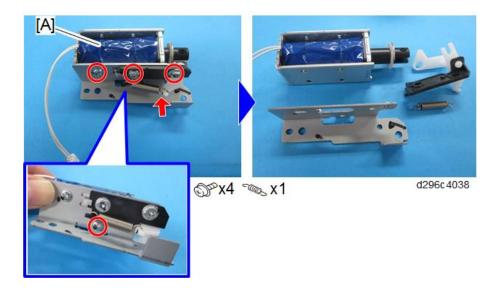
d196z4138

#### Exit Junction Gate Solenoid

- 1. Remove the paper exit unit. (Paper Exit Unit)
- **2.** Remove the exit junction gate solenoid [A] with the bracket.



**3.** Remove the bracket from the exit junction gate solenoid [A].





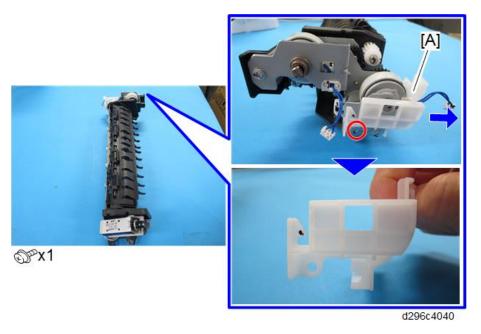
When reattaching the exit junction gate solenoid, make sure that the solenoid works in conjunction with the exit junction gate.



### Paper Exit Clutch, Reverse Clutch

1. Remove the paper exit unit. (Paper Exit Unit)

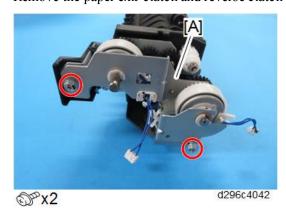
### **2.** Remove the cover [A].



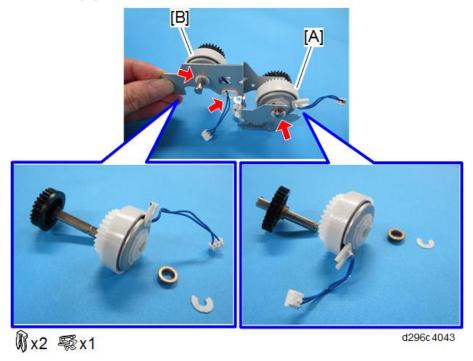
### 3. Pull out the bearing [A].



**4.** Remove the paper exit clutch and reverse clutch with the bracket [A].



**<u>5.</u>** Remove the paper exit clutch [A] and reverse clutch [B].



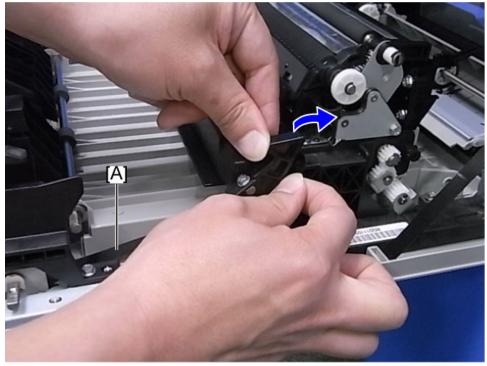
### **Duplex**

#### Duplex Unit

1. Open the right door.



2. Push the lever and reduce the tension of the belt [A], then remove the belt.

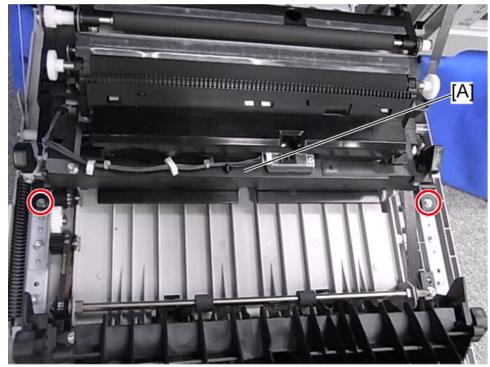


d1170077

### **ACAUTION**

When reattaching the duplex unit, make sure that the belt [A] is attached firmly. If the belt is not attached, the right door will not be opened even if the opening/closing lever is operated. For details, please refer to When you cannot open the right door \_JP.

3. Remove the two screws on the paper transport unit [A]. ( × 2)



d1170078

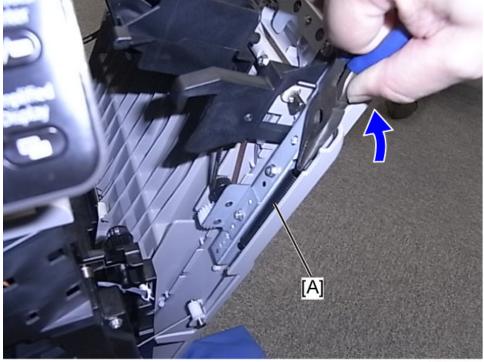
**<u>4.</u>** Lift the paper transport unit [A].



**<u>5.</u>** Remove the tension spring cover [A].  $( ^{\bigcirc P} \times 1)$ 

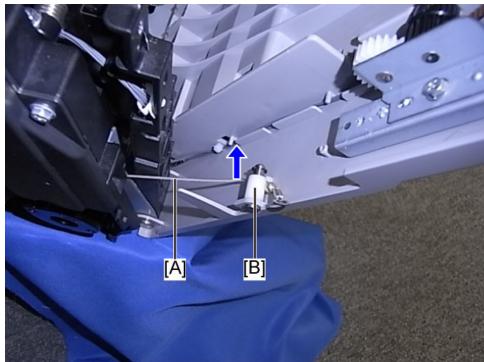


**<u>6.</u>** Lift the duplex unit, then remove the tension spring [A].



d1170080

7. Release the tension wire [A] from the roller [B].

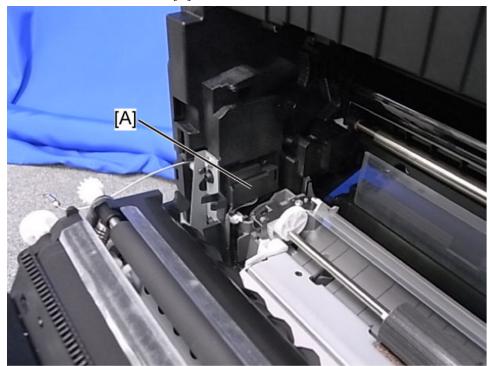


d1170081

### **8.** Restore the paper transport unit [A].

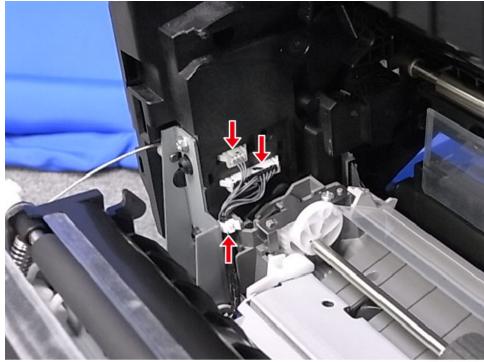


**<u>9.</u>** Remove the connector cover [A].



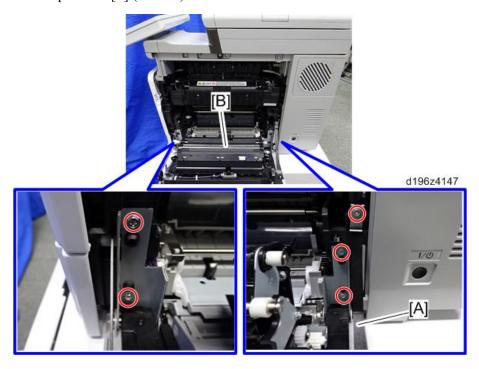
d1170083

## 10. Disconnect the connectors. $(\checkmark \times 2, \% \times 1)$



d1170084

- 11. Release the belt [A] and then remove the duplex unit [B].
  - Belt [A] ( × 1)
  - Duplex unit [B] ( ×4)



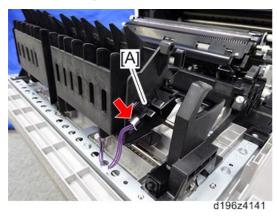
Duplex Entrance Sensor

**1.** Open the right door.

**2.** Remove the sensor cover [A]. (Hooks  $\times$  3)

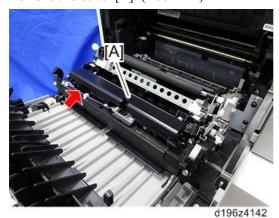


3. Remove the duplex entrance sensor [A].  $(\checkmark \times 1)$ 

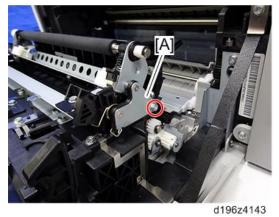


### Duplex Exit Sensor

- 1. Remove the paper transfer roller unit. (Paper Transfer Roller Unit)
- **2.** Remove the cover [A]. (Hook  $\times$  1)



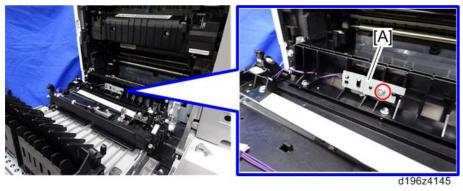
## **3.** Remove the bracket [A]. $( \mathfrak{D}^{\times} \times 1)$



 $\underline{\mathbf{4.}}$  Remove the registration roller unit [A].



 $\underline{\mathbf{5.}}$  Remove the sensor bracket [A].  $(\mathcal{O}^{*} \times 1)$ 



**<u>6.</u>** Remove the duplex exit sensor [A].  $(\checkmark \times 1)$ 



d196z4146

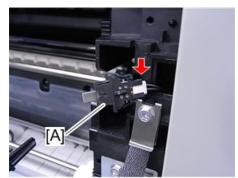
### Right Cover Switch

- 1. Open the right door.
- **2.** Release the tab of the right cover switch [A] with a jeweler's screwdriver.



d196z4139

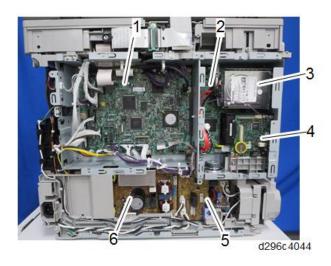
 $\underline{\mathbf{3.}}$  Remove the right cover switch [A].  $(\mathbf{5.4} \times 1)$ 

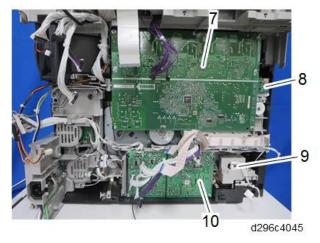


d1182511

# **Electrical Components**

### Electrical Components Overview



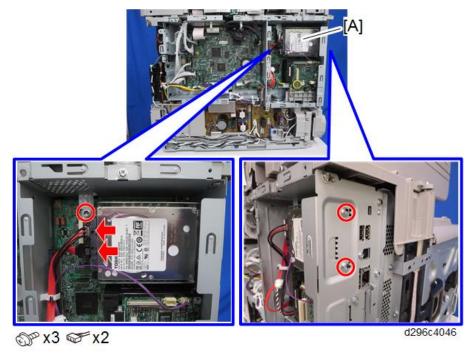


- 1. BiCU
- 2. Controller Board
- 3. HDD
- 4. FCU (if the machine has the fax unit)
- 5. PSU (AC)
- 6. PSU (DC)
- 7. Power Pack (Development)
- 8. Toner Bottle Detection Board
- 9. AC Detection Board
- 10. Power Pack (Transfer)

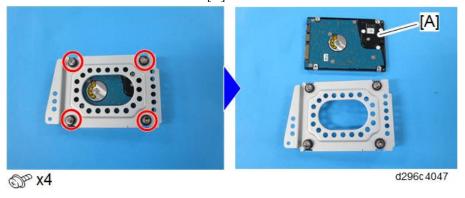
#### HDD



- Before replacing the HDD, copy the address book data to an SD card with SP5-846-051 if there is no problem.
- If the customer uses the Data Overwrite Security, IC card reader, or OCR unit, these applications must be installed again after replacing the HDD.
- 1. Remove the rear cover. (Rear Cover)
- **2.** Remove the left cover. (Left Cover)
- **3.** Remove the HDD with the bracket [A].



**4.** Remove the bracket from the HDD [A].



#### Adjustment after Replacement

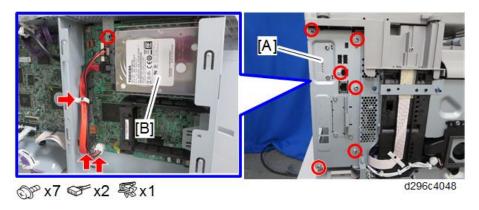
- 1. Do SP5-832-001 to initialize the HDD.Initialization should be performed for the HDD which was already formatted before.
- 2. If applicable, do SP5-846-052 to restore the address data from SD card to the HDD.

- 4. Replacement and Adjustment
- **3.** Cycle the power Off/On.

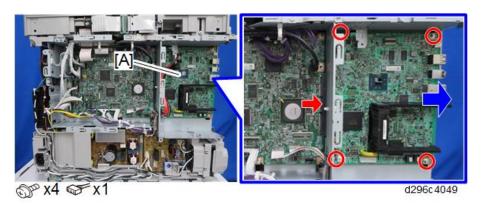
#### Controller Board



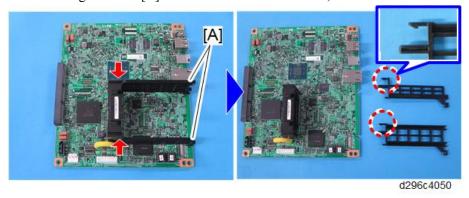
- Keep NVRAMs away from any objects that can cause static electricity. Static electricity can damage NVRAM data.
- 1. Remove the rear cover. (Rear Cover)
- **2.** Remove the left cover. (Left Cover)
- 3. Remove the FCU (if the machine has the fax unit) (Refer to the FSM for Fax Option)
- **<u>4.</u>** Remove the controller box cover [A] with the HDD [B].



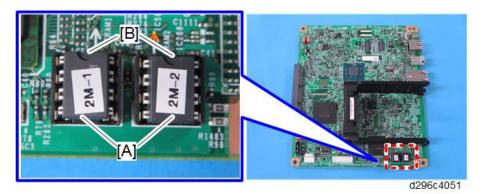
**<u>5.</u>** Pull out the controller board [A].



**6.** Remove the guide rails [A] from the old controller board, and install them on the new controller board.



7. Remove the two used NVRAMs from the old controller board, and install them on the new controller board.





- Make sure the NVRAM [A] is installed at the correct mounting location and orientation. Install the NVRAM so that the indentation on the NVRAM corresponds with the mark [B] on the controller board.
- Incorrect installation of the NVRAM will damage both the controller board and NVRAM.

#### NVRAM on the controller board

#### **CAUTION**

- SC195 (Machine serial number error) will be displayed if you forget to attach the NVRAM.
- If you mounted the NVRAM in the wrong direction, each component needs to be replaced because a short circuit was caused in the controller board and the NVRAM.
- Installing a new NVRAM initializes SPs and issues an SC. Reset the SC with the procedure below.
- 1. Make sure that you have the SMC report (factory settings). This report comes with the machine.
- **2.** Output the SMC log using one of the following methods:
  - To print SMC log data, execute SP5-990-001.
  - To save SMC log data to an SD card, execute SP5-992-001 (SMC List Card Save Function).
- **3.** Turn off the main power switch.
- **<u>4.</u>** Insert a blank SD card in the SD slot 2, and then turn on the main power switch.
- **<u>5.</u>** Use SP5-824-001 to upload the NVRAM data from the controller board.
- **6.** Make sure the customer has a backup of their address book data. If not, obtain the backup by referring to SP5-846-051.



- The address data stored in the machine will be discarded later during this procedure. So be sure to obtain a backup of the customer's address book data.
- Note that the counters for the user will be reset when doing the backup/restore of the address book data.
- If they have a backup of the address book data, use their own backup data for restoring. This is because there is a risk that the data cannot be backed up properly depending on the NVRAM condition.
- 7. Do the following steps if the machine has the fax unit. If not, skip this step:
  - 1. Print the Box List with the User Tools/Counter.

- [User Tools/Counter] [Facsimile Features] [General Settings] [Box Setting: Print List]
- 2. Print the Special Sender List by pressing these buttons in the following order.
  - [User Tools/Counter] [Facsimile Features] [Reception Settings] [Program Special Sender: Print List]
- 3. Write down the following fax settings.
  - [Receiver] in [User Tools/Counter] [Facsimile Features] [Reception Settings] [Reception File Settings] [Forwarding].
  - [Notify Destination] in [User Tools/Counter] [Facsimile Features] [Reception Settings] [Reception File Settings] [Store].
  - [Specify User] in [User Tools/Counter] [Facsimile Features] [Reception Settings] [Stored Reception File User Setting].
  - [Notify Destination] in [User Tools/Counter] [Facsimile Features] [Reception Settings] [Folder Transfer Result Report].
  - Specified folder in [User Tools/Counter] [Facsimile Features] [Send Settings] [Backup File TX Setting].
  - [Receiver] in [User Tools/Counter] [Facsimile Features] [Reception Settings] [Reception File Settings] [Output Mode Switch Timer].
  - [Store: Notify Destination] in [User Tools/Counter] [Facsimile Features] [Reception Settings] [Output Mode Switch Timer].
  - All the destination information shown on the display.



- In the fax settings, address book data is stored with entry IDs, which the system internally
  assigns to each data. The entry IDs may be changed due to re-assigning in backup/restore
  operations.
- 4. Make sure that there is no transmission standby file. If any standby file exists, ask the customer to delete it or complete the transmission.
- **8.** Turn the main power OFF and unplug the power supply cord.
- **9.** Push the main power switch ON again to discharge the residual charge.
- **10.** Replace the NV-RAM with a new one.
- **11.** Turn the power ON.



- SC673 appears at start-up, but this is normal behavior. This is because the controller and the smart
  operation panel cannot communicate with each other due to changing the SP settings for the
  operation panel.
- 1. Change the SP settings for the operation panel.
  - SP5-748-101: (OpePanel Setting: Op Type Action Setting): Change bit 0 from "0" to "1".
  - SP5-748-201: (OpePanel Setting: Cheetah Panel Connect Setting): Change the value from "0" to "1".
- 12. Cycle the main power OFF/ON with the SD card where the NV-RAM data has been uploaded in SD slot 2.

#### Mportant )

- SC992 appears at start-up, but this is normal behavior. This is because information written to the NV-RAM and on the hard disk do not match due to replacement of the NV-RAM. Go to Step 13.
- 13. Download the NV-RAM data stored in the SD card to the brand-new NV-RAM using SP5-825-001 (NV-RAM Data Download).
  - **U** Note
    - The download will take a couple of minutes.
- **14.** Turn the main power OFF and remove the SD card from SD slot 2.
- **15.** Turn the main power ON.
- **16.** Restore the original settings of the following SPs, referring to the SMC data obtained in step 2.
  - **U**Note
    - SP5-825-001 does not download the following SP data to the new NV-RAM. So you must set them manually.
  - a. SP5-985-001(Device Setting: On Board NIC)
  - b. SP5-985-002(Device Setting: On Board USB)
- <u>17.</u> If the security functions (HDD Encryption and HDD Data Overwrite Security) were applied, set the functions again.
- 18. Ask the customer to restore their address book. Or restore the address book data using SP5-846-052 (UCS Setting: Restore All Addr Book), and ask the customer to ensure the address book data has been restored properly.
  - Mportant
    - If you have obtained the backup of the customer's address book data, delete the backup immediately after the NV-RAM replacement to avoid accidentally taking out the customer's data.
- **19.** Output the SMC log using one of the following methods:

To print SMC log data, execute SP5-990-001.

To save SMC log data to an SD card, execute SP5-992-001 (SMC List Card Save Function).



- Check that the counters are reset.
- **20.** Make sure that the list output in step 7-1 through step 7-3 matches the destination information in step 7-4. If not, set it to the setting before replacement.
- **21.** Execute the process control (SP3-011-001).

#### 

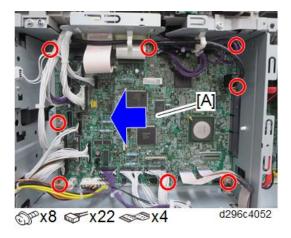
- Try all the items below if NVRAM upload (SP5-824-001) or download (SP5-825-001) cannot be done.
- Check the SP values that changed on the SMC you printed out in step 2. Adjust the values
  manually. Make sure that the values of SP5-045-001 and SP5-302-002 are the same as before
  replacing.
- Replace all PM parts because all PM counters will be reset.



• If a message tells you need an SD card to restore displays after the NVRAM replacement, create a "SD card for restoration" and restore with the SD card. Refer to "Encryption Key Restoration"

#### BiCU

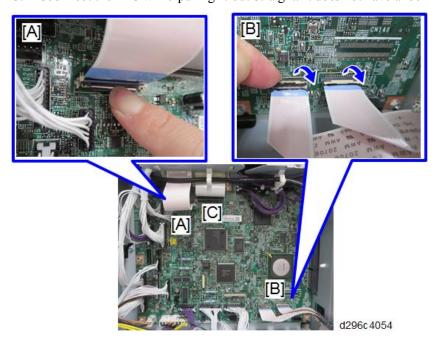
- **1.** Remove the rear cover. (Rear Cover)
- 2. Slide the BiCU [A] in the direction of the blue arrow below and remove it.



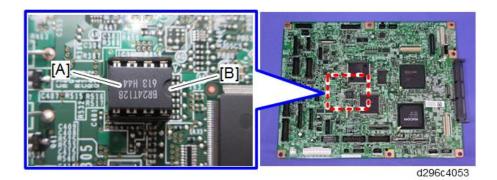


There are three kinds of FFC connectors.

- A: Disconnect the FFC while pushing the lock lever.
- B: Disconnect the FFC while lifting up the lock lever.
- C: Disconnect the FFC while pulling it out straight. It does not have a lock mechanism.



**3.** Remove the NVRAM from the old BiCU and attach it to the new BiCU.





- Attaching the used NVRAM to the new BiCU allows users to use old data such as SP settings.
- SC995 occurs when replacing the BiCU. Execute SP5-811-004 then turn the main power off and on.
- Install a new NVRAM [A] so that the indentation [B] on the NVRAM corresponds with the mark on the BiCU. Incorrect installation of the NVRAM will damage both the BiCU and NVRAM.

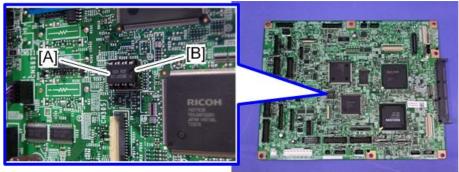
#### Replacing the NVRAM (EEPROM) on the BiCU



- The following shows the procedure for replacing the NVRAM on the BiCU with a new NVRAM.
- 1. Make sure that you have the SMC report (factory settings). This report comes with the machine.
- **2.** Output the SMC data ("ALL") using SP5-990-001/SP5-992-001.
- **3.** Turn off the main switch.
- 4. Insert a blank SD card in the SD slot #2, and then turn on the main switch.
- **<u>5.</u>** Use SP5-824-001 to upload the NVRAM data from the BiCU
- **<u>6.</u>** Turn off the main power switch and unplug the power cord.
- 7. Replace the NVRAM on the BCU with a new one.



• Install a new NVRAM [A] so that the indentation [B] on the NVRAM corresponds with the mark on the BiCU. Incorrect installation of the NVRAM will damage both the BiCU and NVRAM.



d19674058

**8.** Plug in, and then turn on the main switch.



• When the power is turned ON, SC195-00 appears. Continue with the following steps.

#### 4. Replacement and Adjustment

9. Select the destination setting (SP5-131-001 - JPN: 0, NA: 1, EU/AA/TWN/CHN: 2).

### Mportant )

- After changing the EEPROM, some SPs do not have the correct values.
- Because of this, steps 10 to 12 must be done.
- 10. Set the machine serial number SP5-811-001, Area selection SP5-807-001, CPM set SP5-882-001.

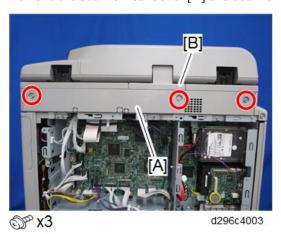


- For information on how to configure the above SPs, contact the supervisor in your branch office.
- 11. Cycle the power off/on.
- 12. Use SP5-801-002 "Memory Clear Engine".
- 13. Turn off the machine, and then turn it back on.
- **14.** From the SD card where you saved the NV-RAM data in step 5, download the NV-RAM data with SP5-825-001.
- 15. Turn off the machine, and then remove the SD card from SD slot 2.
- **16.** Turn on the main power switch.
- <u>17.</u> Check the factory setting sheet and the SMC data printout from step 2, and set the user tool and SP settings so they are the same as before.
- **18.** Execute ACC (Copy and Printer).

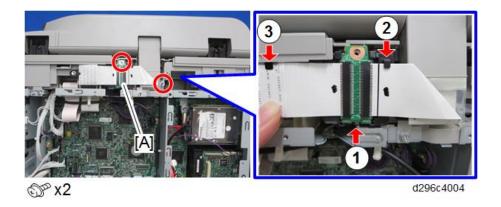
#### Controller Box



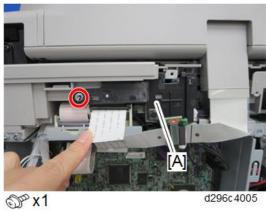
- If the optional counter interface unit is installed, remove the optional counter interface unit before removing the controller box.
- 1. Remove the rear cover. (Rear Cover)
- **2.** Remove the left cover. (Left Cover)
- **3.** Remove the right rear cover. (Right Rear Cover)
- **4.** Remove the scanner rear cover [A] and scanner rear small cover [B].



**<u>5.</u>** Release two screws and two tabs for attaching the relay board [A] and FFC, to release the FFC.

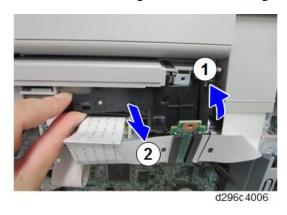


 $\underline{\mathbf{6.}}$  Remove the FFC fixing bracket [A] on the back side of the FFC.



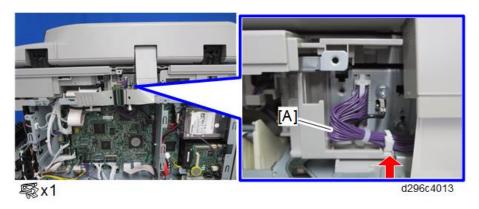
**V** Note

Remove the FFC fixing bracket while turning it counterclockwise and releasing the tab.

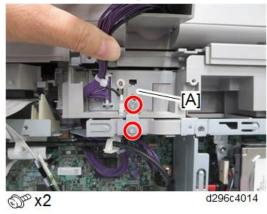


## 4. Replacement and Adjustment

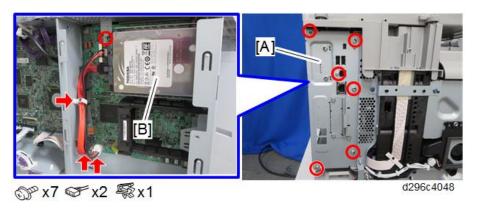
7. Release the clamp of the harness to the ADF [A].



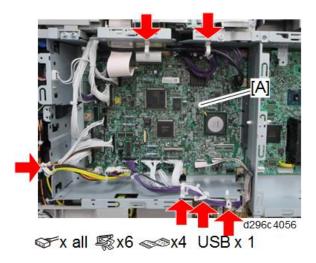
**8.** Remove the grounding plate [A].



**9.** Remove the controller box cover [A] with the HDD [B].

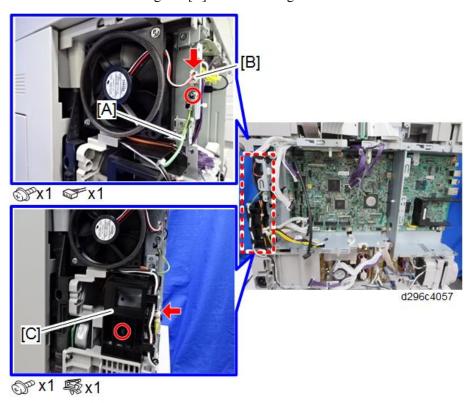


10. Disconnect all the connectors on the BiCU [A].Remove the clamps to make room for removal of the BiCU [A].

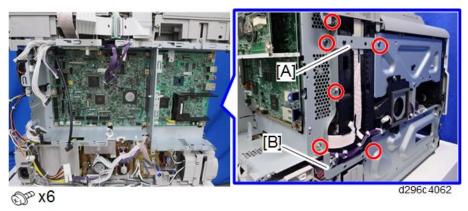


# 11. Do the following steps:

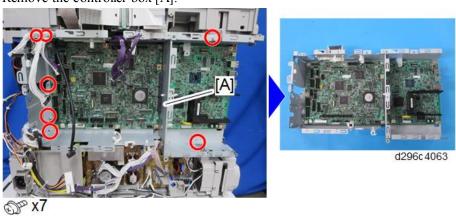
- Remove the grounding wire [A] and connector [B] from the left side of the controller box.
- Remove the harness guide [C] while releasing the harnesses on it.



12. Remove the brackets ([A] and [B]), and two screws from the right side of the controller box.



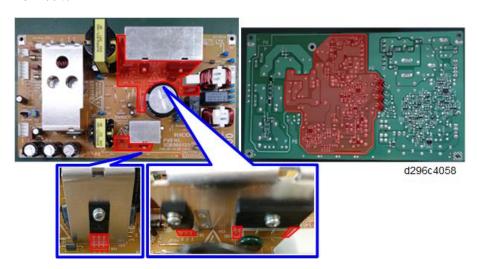
 $\underline{13.}$  Remove the controller box [A].



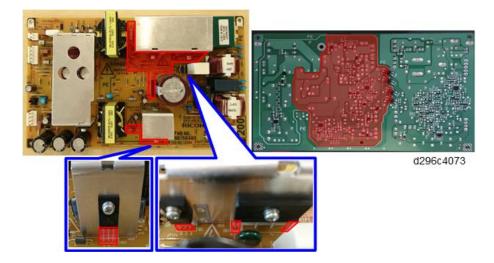
# PSU (AC), PSU (DC)

# **CAUTION**

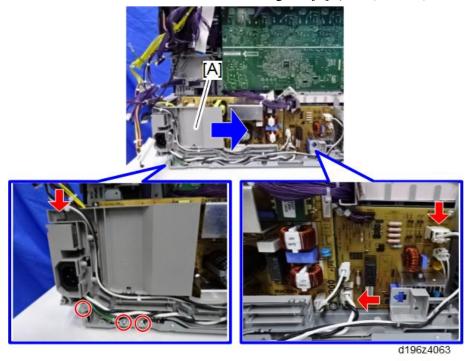
- Do not touch the areas outlined in red in the following diagrams when replacing the PSU. Residual charge on the board may cause electric shock.
- For 100V:



# • For 200V:

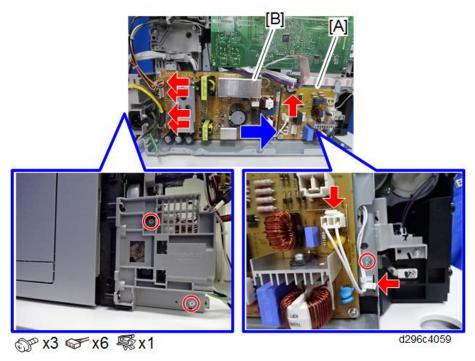


- 1. Remove the controller box. (Controller Box)
- **2.** Remove the PSU fan. (PSU Fan)
- 3. Disconnect the harness and remove the harness guide [A]. ( $^{\circ}$ ×3,  $^{\circ}$ ×2, Hook ×1)

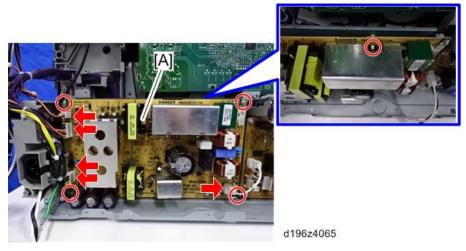


- $\underline{\mathbf{4.}}$  The next step varies according to the parts that you want to remove.
  - For removing the PSUs with the bracket, disconnect the connectors on the PSU(AC) [A] and PSU

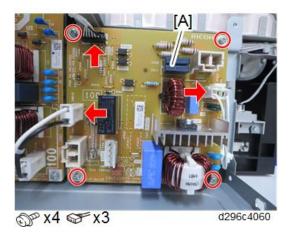
(DC) [B].



• For removing the PSU(DC) alone, remove the PSU(DC) [A]. ( \*\* ×4, \*\*×5, Locking wire saddle ×1)



• For removing the PSU (AC) alone, remove the PSU (AC) [A].

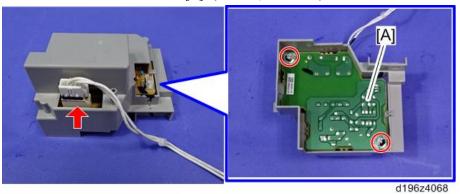


# AC Detection Board

- 1. Remove the PSU with the bracket. (PSU(AC), PSU(DC))
- **2.** Remove the AC detection board with the bracket [A]. ( $\mathfrak{P} \times 1$ ,  $\mathfrak{P} \times 1$ )

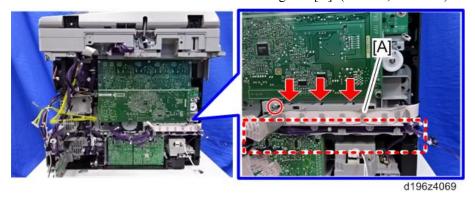


3. Remove the AC detection board [A]. ( $^{\circ}$  × 2,  $^{\circ}$  × 1)



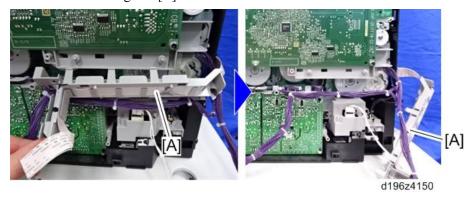
# Power Pack (Development)

- 1. Remove the PSU with the bracket. (PSU(AC), PSU(DC))
- **2.** Disconnect the harness and remove the harness guide [A]. ( $^{\circ}$  × 1, hook × 3)

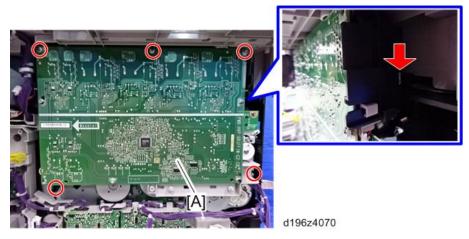




• Release the harness guide [A] as shown below.



 ${\bf \underline{3.}}$  Remove the power pack (Development) [A] with the bracket. ( ${\bf \mathbb{G}}^{2}\times 5, hook\times 1$ )



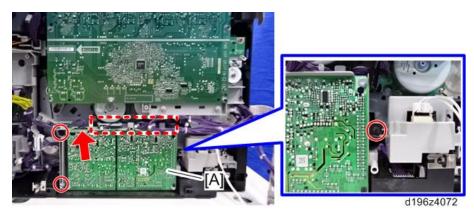
**<u>4.</u>** Remove the power pack (Development) [A]. ( $^{\circ}$  × 5,  $^{\circ}$  × 1)



# Power Pack (Transfer)

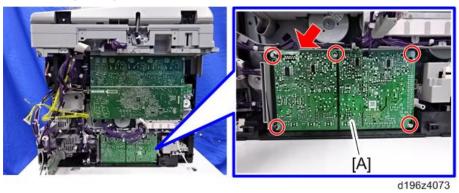
- 1. Remove the PSU with the bracket. (PSU(AC), PSU(DC))
- 2. Disconnect the harness attached to the power pack's bracket, and then remove the power pack [A] with the

bracket.  $(\mathscr{O} \times 3, \mathscr{O} \times 1)$ 



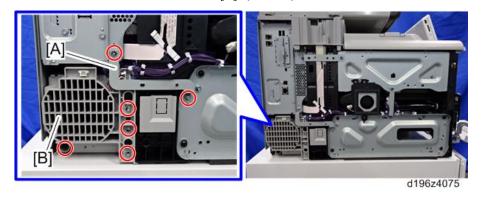
# Removing the Power Pack (Transfer) Alone

- 1. Remove the PSU with the bracket. (PSU (AC), PSU (DC))
- **2.** Remove the power pack (Transfer) [A].  $@ \times 5$ ,  $\times 1$

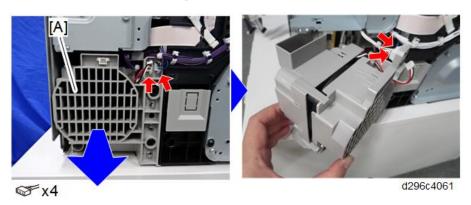


# PSU Fan

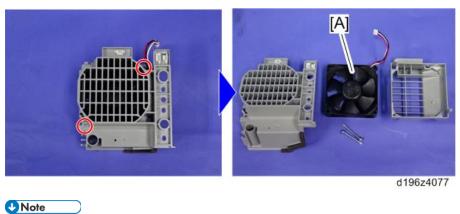
- 1. Remove the left cover. (Left Cover)



**4.** Disconnect the connectors and pull out the PSU fan [A] with the cover.



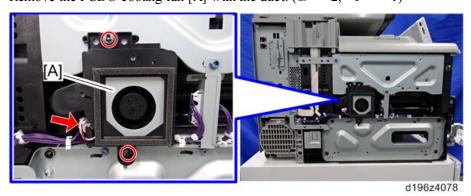
**<u>5.</u>** Remove the cover from the PSU fan [A].  $( \mathfrak{P} \times 2)$ 



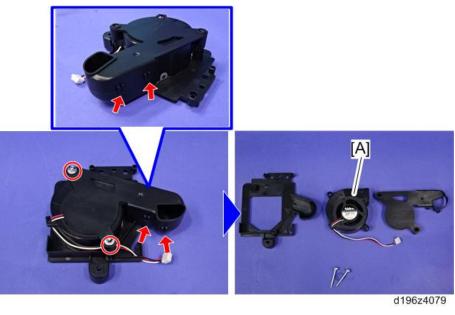
• Install the PSU fan with its label facing the inside of the machine.

# PCDU Cooling Fan

- 1. Remove the left cover. (Left Cover)
- **2.** Remove the PCDU cooling fan [A] with the duct.  $(\Im^2 \times 2, \Im^2 \times 1)$



3. Remove the PCDU cooling fan [A]. ( $^{\circ}$  × 2, hook × 4)



**U** Note

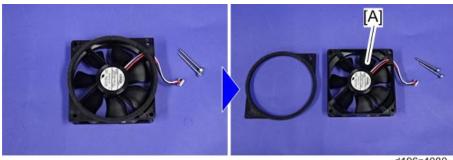
Install the PCDU cooling fan with its label facing the inside of the machine.

### Fusing Fan

- Remove the right rear cover. (Right Rear Cover) <u>1.</u>
- Remove the fusing fan [A] with the cover. ( $^{\circ}$   $\times$  2,  $^{\circ}$   $\times$  1) <u>2.</u>



<u>3.</u> Remove the cover from the fusing fan [A].



d196z4080

# **CAUTION**

Install the fusing fan with its label facing the outside of the machine.

# Temperature/Humidity Sensor

- **1.** Pull out the paper tray.
- **2.** Remove the front lower cover [A].  $(\mathfrak{P} \times 1)$



d196z4002

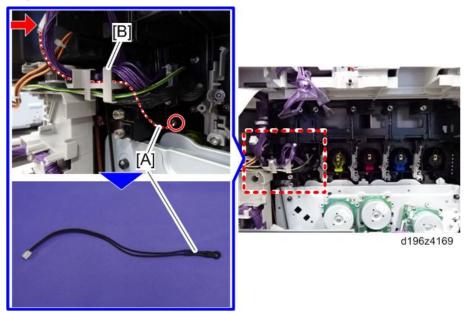
3. Remove the temperature/humidity sensor [A]. ( $^{\circ}$  × 1,  $^{\circ}$  × 1)



## Image Creation Temperature Sensor

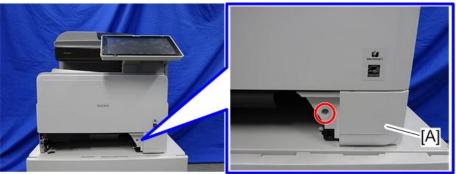
- 1. Remove the toner transport section. (Toner Transport Section)
- 2. Remove the image creation temperature sensor [A] while releasing the harness of the image creation

temperature sensor from the harness guide [B]. ( $^{\circ}$  × 1,  $^{\circ}$  × 1)



# Interlock Switches

- **1.** Pull out the paper tray.
- **<u>2.</u>** Remove the front lower cover [A].  $(\mathfrak{O}^p \times 1)$



d196z4002

Remove the cover [A]. ( $^{\circ}$  × 1) <u>3.</u>



d196z4082

## 4. Replacement and Adjustment

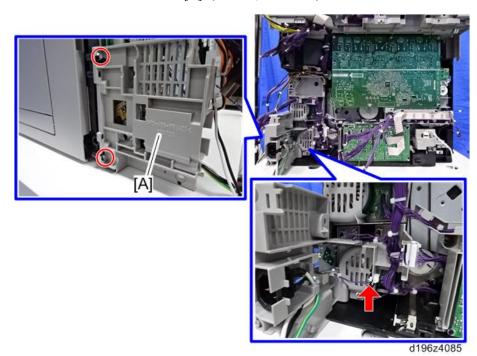


**<u>5.</u>** Remove the Interlock switches [A].  $\checkmark$  each 2)

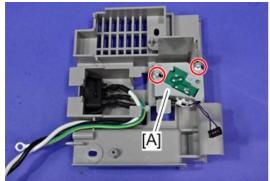


# DC Switch

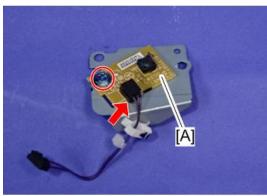
- 1. Remove the PSU with the bracket. (PSU(AC), PSU(DC))



3. Remove the DC switch [A] with the bracket.  $(SP \times 2)$ 



Remove the DC switch [A].  $(P \times 1, P \times 1)$ 



d196z4087

# Service Program Mode

## SP Tables

See "Appendices" for the following information:

- Service Program Mode
- SP Tables SP1-XXX
- SP Tables SP2-XXX
- SP Tables SP3-XXX
- SP Tables SP4-XXX
- SP Tables SP5-XXX
- SP Tables SP6-XXX
- SP Tables SP7-XXX
- SP Tables SP8-XXX
- Printer SP Mode
- Scanner SP Mode
- Input and Output Check

# Firmware Update (SD Card)

## Overview

In order to update the firmware of this machine, it is necessary to download the latest version of firmware on a SD card.

Insert the SD card in SD card slot 2 beside the left rear of the controller box.

# Types of firmware update files, supported update methods:

Individual firmware	N/A	Available	Available	N/A
Package firmware	Available	Available	Available	Available
	SFU	SD Card	RFU	ARFU

# Firmware Type

Firmware type	Firmware location
System/Copy	Controller Board
Engine	BiCU
Operation Panel	Smart Operation Panel
ADF	ADF
Bank	Bank
FCU	FCU
Network Support	Smart Operation Panel – CPU board
Bank2	Bank
BIOS	BiCU
HDD format option	Controller Board
RPCS	Controller Board
PS	Controller Board
RPDL	Controller Board
R98	Controller Board
R16	Controller Board
RPGL	Controller Board
R55	Controller Board
RTIFF	Controller Board
PCL	Controller Board
PCLXL	Controller Board
MSIS	Controller Board
PDF	Controller Board
PictBridge	Controller Board
PJL	Controller Board

Firmware type	Firmware location
MediaPrint: JPEG	Controller Board
MediaPrint: TIFF	Controller Board
XPS	Controller Board
FONT	Controller Board
FONT1	Controller Board
FONT2	Controller Board
Copy apl	Smart Operation Panel – CPU board
NetworkDocBox	Smart Operation Panel – CPU board
Fax apl	Smart Operation Panel – CPU board
Printer apl	Smart Operation Panel – CPU board
Scanner apl	Smart Operation Panel – CPU board
Remote Fax apl	Smart Operation Panel – CPU board
MIB	Smart Operation Panel – CPU board
Websupport	Smart Operation Panel – CPU board
WebUapl	Smart Operation Panel – CPU board
CSPF	Smart Operation Panel – CPU board

# What is Included in the Firmware Package

Modules included in the firmware package are indicated by ticks ( $\checkmark$ ).

Firmware not included in the package require updating by SD cards, etc.

Included	Firmware
-	aics
✓	animation
✓	Application Site
✓	BluetoothService
✓	CheetahSystem
-	CSPF
-	Data Erase Onb
-	EcoInfoWidget
✓	Engine
-	External Auth
✓	Fax
-	FaxInfoWidget
✓	GWFCU3.8-9(WW)

#### Procedure

#### ( Important

- A SD card is a precision device, so when you handle an SD card, respect the following.
- When the power is switched ON, do not insert or remove a card.
- During installation, do not switch the power OFF.
- Since the card is manufactured to high precision, do not store it in a hot or humid location, or in direct sunlight.
- Do not bend the card, scratch it, or give it a strong shock.
- Before downloading firmware on an SD card, check whether write-protection of the SD card is canceled. If write-protection is enabled, an error code (error code 44, etc.) will be displayed during download, and the download will fail.
- Before updating firmware, remove the network cable from this machine.
- If SC818 is generated during software update, switch the power OFF -> ON, and complete the update which was interrupted.
- During software update, network cables, remove interface cables, wireless boards, etc., (so that they are not accessed during update).

#### Update procedure

- 1. First download the new firmware to the SD card.
- **2.** Turn OFF the power.
- **3.** Remove the SD card slot covers [A].



4. Insert the SD card into SD card slot 2 [A: Lower Slot].

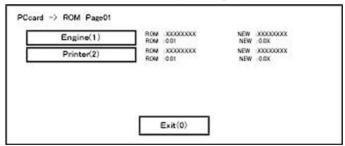




- Check whether the card is properly in the SD card slot. When a SD card is inserted, a click is heard, and it is locked.
- To remove the card, release by pressing once.
- **5.** Turn ON the power.
- **<u>6.</u>** Wait until the update screen starts (about 45 seconds).

When it appears, "Please Wait" is displayed.

<u>7.</u> Check whether a program installation screen is displayed. (English display) When the SD card contains two or more software modules, they are displayed as follows.



#### << When two or more software names are displayed>>

- 1. Press the module selection button or [1] [5] on the 10-key pad.
- 2. Choose the appropriate module. (If already selected, cancel the selection)

#### Operation of keys or buttons

Keys or buttons to press	Contents
[Exit] or 10-key pad [0]	Returns to normal screen.
[Start] Key	Select all modules.
[Clear/Stop] key	Cancel all selections.

## **Display contents**

On the above screen, two programs, i.e., engine firmware and printer application are displayed. (The screen may change depending on the firmware or application).

The display contents are as follows:

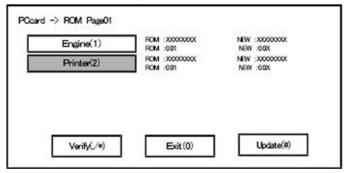
Display	Contents	
ROM:	Display installed module number / version information.	
NEW:	Display module number / version information in the card.	

The upper row corresponds to the module name, the lower row corresponds to the version number.

**8.** Select the module with the module selection button or 10 key pad operation. The selected module is highlighted, and [Verify] and [Update] are displayed.



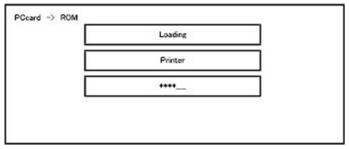
 Depending on the combination of modules to update, it may not be possible to select all of them simultaneously.



#### << Key or button operations>>

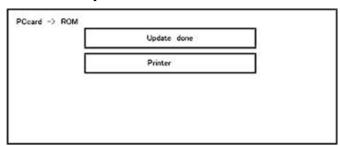
Keys or buttons to press	Contents	
[Update] or [#] key	Update the ROM of the selected module.	
[Verify] button or [./*] key	Perform verification of the selected module.	

- **9.** Press the [Update] or [#] key, and perform software update.
- **10.** During firmware update, a "firmware update/ verification progress screen" is displayed. When firmware update is complete, a "firmware update end screen" is displayed.



- In the middle row, the name of the module currently being updated is displayed. (in this case, the printer module is being updated)
- In the lower row, a progress bar is displayed in ten steps. (The more \*, the more the progress.)

#### << Firmware update end screen>>



• This screen is displayed when all selected firmware modules are to be updated. "Printer" in the second row shows that the module updated last is the printer. (When more than one were updated simultaneously, only the module that was updated last is displayed.)

- When Verify has completed normally, the Update done display of the above screen is "Verify done." If "Verify Error" is displayed, reinstall the software of the application displayed in the lower row.
- 11. After turning the main power OFF, remove the SD card.
- 12. Turn the main power ON again, and check whether the machine is operating normally.
- **13.** Return the SD card slot cover to the original position.



- When the power supply is switched OFF during firmware update, update is interrupted, and the power is switched ON again, normal operation cannot be guaranteed.
- To guarantee operation, an update error continues to be displayed until update is successful.
- In this case, insert the SD card again, switch the power ON, and continue download of firmware from the SD card automatically.
- The PS3 firmware program is included in the preinstalled PDF firmware. In the default state, although the PS3 firmware program is hidden in the disabled state, the function is enabled by installing the PS3 card. (The program installed in the PS3 card is a dongle (key) for enabling the PS3 function).
- Due to the above specification, the self-diagnosis result report shows the ROM module number / software version of the PDF firmware at the PS location.

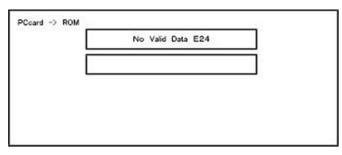
#### Preparation

- If the SD card is blank, copy the entire "romdata" folder onto the SD card.
- If the card already contains the "romdata" folder, copy the "D296" folder onto the card.
- If the card already contains folders up to "D296", copy the necessary firmware files (e.g. D296xxxx.fwu) into this folder.



• Do not put multiple machine firmware programs on the same SD card. Copy the only model firmware you want.

#### Error Screens During Updating



EXX shows an error code.

For error codes, refer to the following table:

#### **Error Code List**

Code	Contents	Solutions
20	Physical address mapping cannot be	Switch the main power supply off and on to try
	performed.	again.
		• Re-insert the SD card to reboot it.
		• Replace the controller board if the above solutions
		do not solve the problem.
21	Insufficient memory for the download	• Switch the main power supply off and on to try
		again.
		• Replace the controller board if the updating cannot
		be done by switching the power off and on.
22	Decompression of compressed data failed.	• Switch the main power supply off and on to try
		again.
		• Replace the SD card used for the update.
		• Replace the controller board if the above solutions
		do not solve the problem.
24	SD card access error	• Re-insert the SD card.
		• Switch the main power supply off and on to try
		again.
		• Replace the SD card used for the update.
		• Replace the controller board if the above solutions
		do not solve the problem.
32	The SD card used after download suspension	• Insert the SD card containing the same program as
	is incorrect.	when the firmware update was suspended, and
	SD cards are different between the one which	then switch the main power supply off and on to
	was inserted before power interruption and	try again.
	the one which was inserted after power	• There is a possibility that the SD card is damaged
	interruption.	if the update cannot be done after the correct SD
		card has been inserted. In this case, try again with
		a different SD card.
		• Replace the controller board if the above solutions
		do not solve the problem.
		Replace all relevant boards if the update is done
		for the BiCU and FCU.
		Replace the operation panel unit if the update is
		done for the operation panel.
33	Card version error.	• Install the correct ROM update data for each
	The wrong card version is downloaded.	version in the SD card.
34	Destination error.	• Install the correct ROM update data for each
	A card for the wrong destination is inserted.	destination (JPN/ EXP/ OEM) in the SD card.

Code	Contents	Solutions
35	Model error.	Install the correct ROM update data for each
	A card for the wrong model is inserted.	model in the SD card.
36	Module error.	Install the program to be updated in advance.
	The program to be downloaded does not	There is a possibility that the SD card containing
	exist on the main unit.	the program to be updated has not been mounted.
	The download destination specified by the	Check to confirm that the SD card has been
	card does not match up to the destination for	correctly mounted.
	the main unit's program.	The SD card is incorrect if the program to be
		updated has been correctly installed. In this case,
		insert the correct SD card.
38	The version of the downloaded program has	Make sure that the program to be overwritten is
	not been authorized for the update.	the specified version.
40	Engine download fails.	Switch the main power supply off and on to try
		again.
		If the download fails again, replace the controller
		board and the BiCU.
41	Fax download fails.	Switch the main power supply off and on to try
		again.
		If the download fails again, replace the controller
		board and the FCU board.
42	Control panel / language download fails.	Switch the main power supply off and on to try
		again.
		If the download fails again, replace the controller
		board and the operation panel unit.
43	Printing download fails.	Switch the main power supply off and on to try
		again.
		The SD card media is damaged if the update fails
		again. Replace the SD card media.
44	The data to be overwritten cannot be	Switch the main power supply off and on to try
	accessed when controller-related programs	again.
	are downloaded.	Install the correct ROM update data in the SD
		card.
		Replace the controller board if the data to be
		overwritten is contained on the controller board.
49	Firmware updates are currently prohibited.	The setting of Update Firmware in the
		Administrator Tools has been set to [Prohibit] by
		an administrator. Amend the setting to [Do not
		Prohibit] and try again.

Code	Contents	Solutions
50	The results of the electronic authorization	Install the correct ROM update data in the SD
	check have rejected the update data.	card.
57	@Remote is not connected at the date/time	Check the @Remote connection.
	reserved for receiving the package firmware	
	update from the network.	
58	Update cannot be done due to a reception	Check the @Remote connection.
	route problem.	
59	HDD is not mounted.	Check the HDD connection.
60	HDD could not be used during the package	Try again.
	firmware update.	Replace the HDD if the download fails again.
61	The module ID for the package firmware	Prepare the correct package files.
	update is incorrect.	
62	The configuration of the package firmware	Prepare the correct package files.
	update files is incorrect.	
63	Reception fails due to the power off at the	Update is to be done automatically when the next
	reserved date/time of the remote firmware	reception time has elapsed.
	update from the network.	
64	Reception fails due to the power off at the	Reset the reservation date/time for the remote
	reserved date/time of the package firmware	update.
	update from the network.	
65	Reception fails due to the status error of the	Update is to be done automatically when the next
	machine at the reserved date/time of the	reception time has elapsed.
	remote firmware update from the network.	
66	Reception failed due to the status error of the	Reset the reservation date/time for the remote
	machine at the reserved date/time of the	update.
	package firmware update from the network.	
67	Acquisition of the latest version information	Check that the network is connected correctly.
	from the Gateway fails at the reserved	
	date/time of the remote firmware update	
	from the network.	
68	Acquisition of the latest version information	Check that the network is connected correctly.
	from the Gateway fails.	
69	Download fails at the reserved date/time of	Check that the network is connected correctly.
	the remote firmware update from the	
	network.	
70	Package firmware download from the	Check that the network is connected correctly.
	network fails.	

Code	Contents		Solutions
71	Network communication error occurs at the	•	Check that the network is connected correctly.
	reserved date/time of the package firmware		
	update from the network.		
72	The setting of @Remote is invalid at the	•	Set the setting of @Remote Service in the
	reserved date/time of the package firmware		Administrator Tools to [Do not Prohibit].
	update from the network.		
57	@Remote is not connected at the date/time	•	Check the @Remote connection.
	reserved for receiving the package firmware		
	update from the network.		
58	Update cannot be done due to a reception	•	Check the @Remote connection.
	route problem.		
59	HDD is not mounted.	•	Check the HDD connection.
60	HDD could not be used during the package	•	Try again.
	firmware update.	•	Replace the HDD if the download fails again.
61	The module ID for the package firmware	•	Prepare the correct package files.
	update is incorrect.		
62	The configuration of the package firmware	•	Prepare the correct package files.
	update files is incorrect.		
63	Reception fails due to the power off at the	•	Update is to be done automatically when the next
	reserved date/time of the remote firmware		reception time has elapsed.
	update from the network.		
64	Reception fails due to the power off at the	•	Reset the reservation date/time for the remote
	reserved date/time of the package firmware		update.
	update from the network.		
65	Reception fails due to the status error of the	•	Update is to be done automatically when the next
	machine at the reserved date/time of the		reception time has elapsed.
	remote firmware update from the network.		
66	Reception failed due to the status error of the	•	Reset the reservation date/time for the remote
	machine at the reserved date/time of the		update.
	package firmware update from the network.		
67	Acquisition of the latest version information	•	Check that the network is connected correctly.
	from the Gateway fails at the reserved		
	date/time of the remote firmware update		
	from the network.		
68	Acquisition of the latest version information	•	Check that the network is connected correctly.
	from the Gateway fails.		
69	Download fails at the reserved date/time of	•	Check that the network is connected correctly.

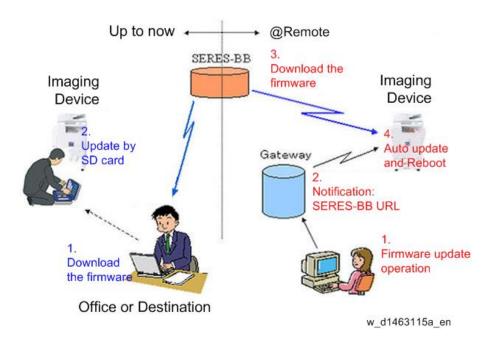
Code	Contents	Solutions
	the remote firmware update from the	
	network.	
70	Package firmware download from the	Check that the network is connected correctly.
	network fails.	
71	Network communication error occurs at the	Check that the network is connected correctly.
	reserved date/time of the package firmware	
	update from the network.	
72	The setting of @Remote is invalid at the	Set the setting of @Remote Service in the
	reserved date/time of the package firmware	Administrator Tools to [Do not Prohibit].
	update from the network.	



- The PDF firmware installed as standard contains a program required to print PS3 data as default. However, this PS3 program is normally disabled.
- The PS3 firmware is a dongle (key) which enables PS3 data printing functions. When the PS3 firmware is installed, the PS3 program in the PDF firmware is enabled. Due to this specification, the self-diagnosis result report shows the ROM part number/software version of the PDF firmware contained in the PS3 program.

# Firmware Update (Remote Firmware Update)

In this machine, software can be updated by remote control using @Remote.



Types of firmware update files, supported update methods:

	SFU	SD Card	RFU	ARFU
Individual firmware	N/A	Available	Available	N/A
Package firmware	Available	Available	Available	Available

### RFU Performable Condition

RFU is performable for a device which meets the following conditions.

- 1. The customer consents to the use of RFU.
- 2. The device is connected to a network via TCP/IP for @Remote.

# Firmware Update (Smart Firmware Update)

## **ACAUTION**

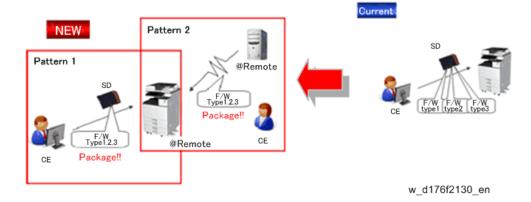
A HDD unit must be installed on the machine to enable the SFU or the package firmware update via SD card.

#### Overview

Each firmware module (such as System/Copy, Engine, etc) used to be updated individually. However, an all-inclusive firmware package (package ALL) is now available.

There are two ways to update using the firmware package.

- Package Firmware Update via a network: SFU (Smart Firmware Update)
- Package Firmware Update with an SD card



#### Package Firmware Update via a network: SFU (Smart Firmware Update)

- There are two methods for SFU.
  - Immediate Update: To update the firmware when visiting
  - Update at the next visit: To set the date and time for downloading. The firmware will be automatically downloaded beforehand and updated at the following visit.
- "Update at the next visit" is recommended since firmware download may take some minutes due to the network condition.



• SFU requires the connection to @Remote via a device which has the embedded @Remote communicating function. When a machine is connected to @Remote via an intermediate device (RC Gate), the SFU function is disabled.

Other than SFU, package firmware update can also be performed by using the following three methods.

- Package Firmware Update via a network: ARFU (Auto Remote Firmware Update)
- Package Firmware Update via an SD Card
- Package Firmware Update via a network: RFU (Remote Firmware Update)

## Types of firmware update files, supported update methods:

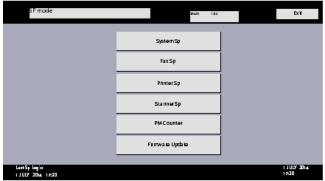
	SFU	SD Card	RFU	ARFU
Individual firmware	N/A	Available	Available	N/A
Package firmware	Available	Available	Available	Available

# Immediate Update

Enter the [Firmware Update] menu in the SP mode and update the package firmware.

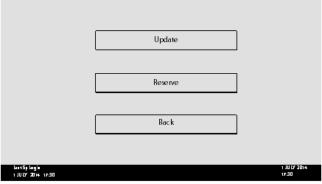


- The [Firmware Update] button will appear even when a machine is connected to @Remote with a device which does not have an embedded @Remote communicating function.
- If an error code is displayed, refer to Error Screens During Updating (Error Screens During Updating).
- **1.** Enter the SP mode.
- **2.** Touch [Firmware Update].



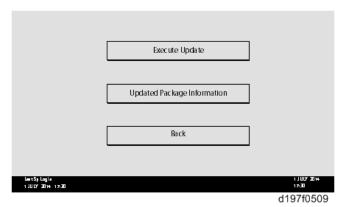
d197f0507

## 3. Touch [Update].

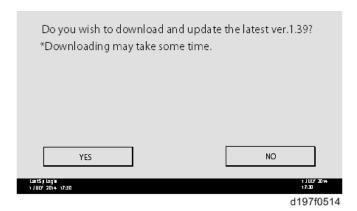


d197f0508

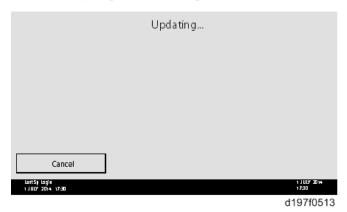
### **4.** Touch [Execute Update].



# 5. Touch [YES].



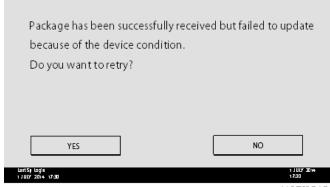
**<u>6.</u>** The following display will be displayed.



**U** Note

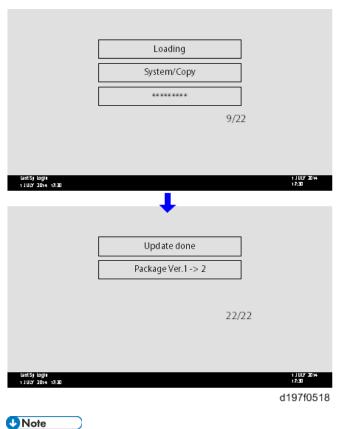
- If the error code E66, which indicates that the download of the firmware has failed, is displayed, implement this procedure from step 1.
- Update will be started automatically after the download is finished.
- When the machine is in the update mode, the automatic update is suspended if a print job is implemented. After the print job is finished, touch [YES] on the display shown with the following

picture to restart updating.



d197f0515

- 7. [Update done] is displayed.
  - The machine will automatically reboot itself.



• The figures at the lower right of the display indicate "Number of updated items/ All items to be updated".

## Update at the Next Visit (Reserve)

It is possible to set the machine to download the package firmware which is necessary for SFU in advance, and then perform the actual installation at the next service visit. This saves waiting time for the firmware to download at the service visit.

#### How to Set the Machine to Download Firmware Later (RESERVE)

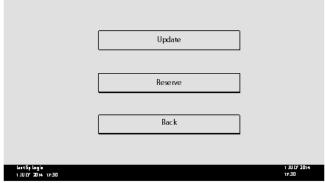
Enter the [Firmware Update] menu in the SP mode and update the package firmware.



- The [Firmware Update] button will appear even when a machine is connected to @Remote with a device which does not have an embedded @Remote communicating function. If an error code is displayed, refer to Error Screens During Updating (Error Screens During Updating).
- 1. Enter the SP mode.
- 2. Touch [Firmware Update].

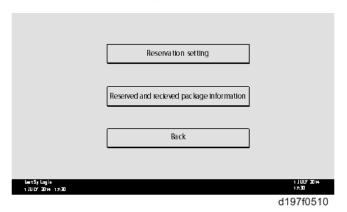


3. Touch [Reserve].



d197f0508

**4.** Touch [Reservation setting].



5. Enter the dates and times of next visit and start of receiving data.

• "Next time to visit this customer": The package firmware will be automatically downloaded by this

time/date.

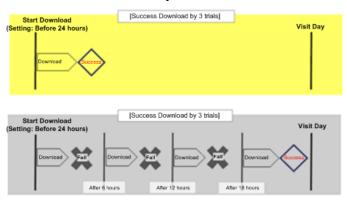
• "When to receive? (1-7)": The download of the package firmware will begin this number of days before the next visit.



d197f0512

#### Successful Download

In the two diagrams below, the firmware is set to be downloaded by the day before the next scheduled visit. In the first diagram, the download is successful on the first try. In the second diagram, the download fails three times and is successful on the fourth try.



w\_d197f0507\_en

- If the firmware download fails or cannot be completed due to the network settings/condition, no power to the machine, or other reason, the machine will continue retrying every six hours until the scheduled deadline (up to a maximum of four tries). For example, if the download is set for the day before the next visit, the machine will attempt the download at 24 hours before the visit, and then continue trying every six hours (max. four tries total).
- The retry is only performed in cases when the firmware download has failed.
- If the machine is in Energy Saver mode when the download is scheduled to begin, the download will be performed in the background and the machine/panel will stay in Energy Saver mode.
- The download will continue uninterrupted even if the customer initiates a print job, copy job, fax receiving or other operation while the download is in progress.
- The download will be terminated if the customer turns the power off while the download is in progress.
- If the download cannot be completed successfully by the time of the next scheduled visit, the machine will stop trying to download the firmware.

## How to Check if the Firmware Downloaded with RESERVE

- **1.** Enter the SP mode.
- **2.** Touch [Firmware Update].



d197f0507

## **3.** Touch [Reserve].

	Update	
	_	
	Reserve	
	Back	
6 s t Sp log is 1 JULY 2014 17:30		1 JULY 2014 17:30

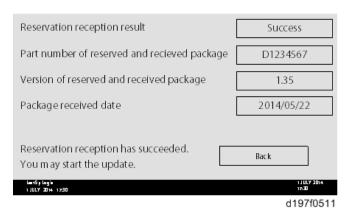
d197f0508

## **<u>4.</u>** Touch [Reserve and received package information].

	Reservation setting	
	Reserved and recieved package information	
	Back	
		. 11114
ետ է5 բեռը՝ ո 1 ՍՍԷՐ 2014-17:30		1 JULY 2014 17:30
		d197f0510

**<u>5.</u>** Check the information displayed.

When the package firmware is downloaded successfully, the details of the download result are displayed as the following picture shows.



**U**Note

• This information will only be displayed if the reserved firmware has already been downloaded. If not, all the data items are indicated with "-".

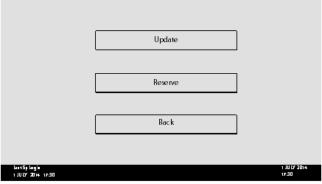
## How to Install Firmware Downloaded with RESERVE

- **1.** Enter the SP mode.
- **2.** Touch [Firmware Update].



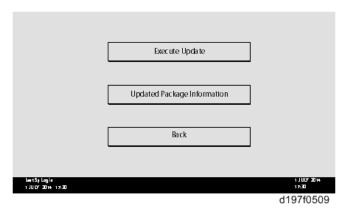
d197f0507

## 3. Touch [Update].

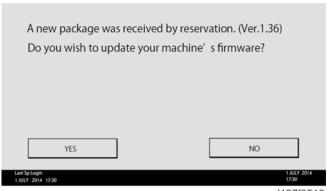


d197f0508

Touch [Execute Update].



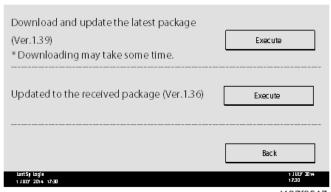
- Check the version of the received package firmware, and then touch [YES]. **5.** 
  - Update is started.



d197f0516

**U** Note

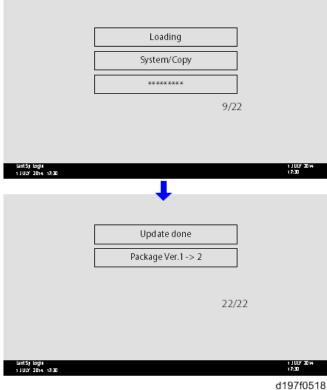
If the version of the reserved package in the HDD is older than the latest version, the messages shown in the following picture are displayed.



d197f0517

- If you wish to download the latest version, touch [Execute] beside the message "Download and update the latest package." Then update of the package firmware will be started.
- If you wish to update using the firmware in the HDD (old version), touch [Execute] beside the message "Update to the received package."
- **<u>6.</u>** [Update done] message is displayed.

The machine will automatically reboot itself.





The figures at the lower right of the display indicate "Number of updated items/ All items to be updated".

#### Update via SD card

Update with an SD card, which is the conventional method, is available if you write the package firmware to the SD card.



- If an error code is displayed, refer to Error Screens During Updating (Error Screens During Updating).
- 1. Create a new folder in the SD card, and then name it "package".
- 2. Copy the package firmware (xxxxxxxx.pkg) to this folder.



d197f0504

Mportant 1

If you copy the package firmware into the conventional "romdata" folder, the update will not work.

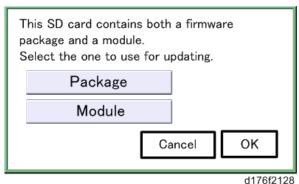
- Only one version of the package firmware should be copied into the folder. If you copy multiple
  versions of package firmware to the SD card, the machine will select only one version of the
  firmware randomly.
- **3.** Turn the power OFF.
- **4.** Insert the SD card which contains the package into SD card slot 2 (for service).
- **5.** Turn the power ON and touch [Update].



d176f2127

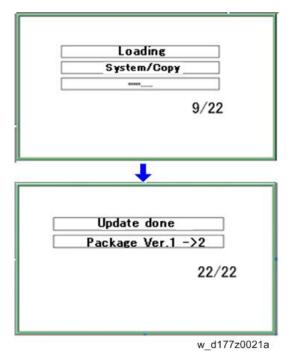


• When the SD card contains both a firmware package and one or more modules, the following display may show up. Select [Package] and touch [OK] to move to step 4 above.



**<u>6.</u>** Update is started automatically after the package firmware download to the HDD has been completed.

7. When update is completed, "Update done" is displayed.



- **U**Note
  - The figures at the lower right of the display indicate "Number of updated items/ All items to be updated".
- **8.** Turn the main power switch OFF, and then pull out the SD card from SD card slot 2.
- **9.** Turn the power ON.

## Firmware Update (Auto Remote Firmware Update)



• Auto remote firmware update (ARFU) requires connection to the Internet. Be sure to get permission from the customer before setting up this feature.

#### Overview

By Auto Remote Firmware Update (ARFU), the firmware is updated by checking the global server every 76 hours and downloading the latest package if it is newer than the one installed on the machine.

#### **Function Overview**



#### Types of firmware update files, supported update methods:

	SFU	SD Card	RFU	ARFU
Individual firmware	N/A	Available	Available	N/A
Package firmware	Available	Available	Available	Available

#### What is Included in the Firmware Package

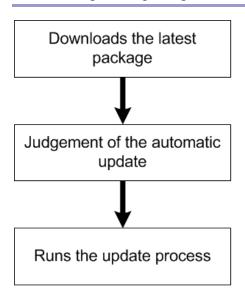
Modules included in the firmware package are indicated by ticks  $(\checkmark)$  in the firmware download web site.

Firmware not included in the package require updating by SD cards, etc.

Included	Firmware
-	aics
✓	animation
✓	Application Site
✓	BluetoothService
✓	CheetahSystem
-	CSPF
-	Data Erase Onb
-	EcoInfoWidget
✓	Engine
-	External Auth
✓	Fax
-	FaxInfoWidget

Included	Firmware
✓	GWFCU3.8-9(WW)

## Downloading and Updating Process



w\_d238z5024e\_en

#### Downloads the Latest Package

The machine checks the server for the latest package version.

If the version of the package on the global server is later than that of the package installed on the machine, or if the machine has not downloaded the firmware package, the machine downloads the latest package in the background even when the customer is using the machine.

If download fails, the machine will retry downloading 76 hours later.

The downloaded package can also be used with SFU (Smart Firmware Update). A package downloaded with SFU (Smart Firmware Update) can be used with ARFU (Auto Remote Firmware Update) and vice versa.

When replacing the hard disk, the firmware package data becomes lost from the hard disk. Even if the latest firmware is on the new hard disk, be sure to receive the latest package data.

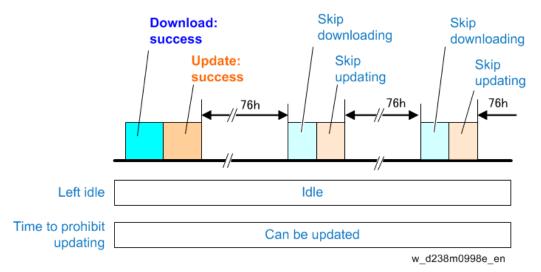
When the machine connects to the server where the package files are stored, the DNS settings and the name solution by DNS are needed. The machine will still try to download the package even if the name cannot be resolved, but will fail because the name is not resolved.

The time and date to send the next inquiry to the global server can be checked with SP5-886-116 (Farm Update Setting: Auto Update Next Date).

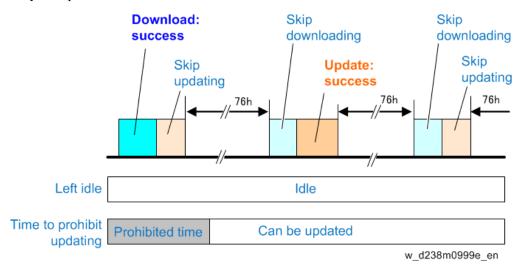
The auto remote firmware update is executed every 76 hours.

#### Judgement of ARFU

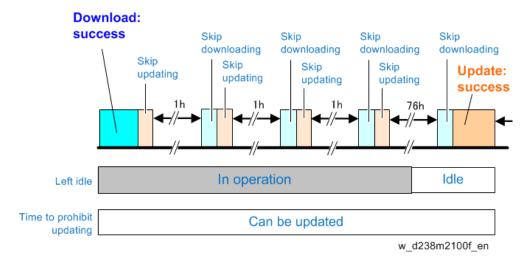
Update judgement is done when the latest update package is successfully downloaded, or the package has already been downloaded.



If the judgement timing is in the range of the update prohibited time or day set with SP or WIM, the machine will retry the update after 76 hours.



If the machine is in use when the judgement process runs, the process is retried. Retry is done up to three times every hour (can be changed with SP) and if the machine is in use for all three retries, the machine will retry the update after 76 hours

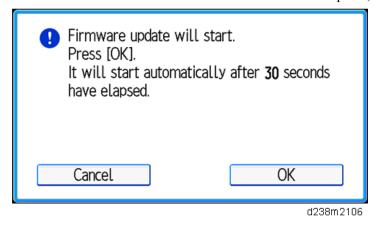


## Situations judged as machine in use

No.	Situations judged as machine in use
1	When the control panel is used within 30 seconds
2	During firmware update
3	While firmware update is disabled
4	While printing (copy, printer, fax, re-printing via network)
5	While scanning (copy, scanner, fax)
6	Retrieving image data via network
7	While initial setting (User Tools settings) or SP is being set
8	While fax is transferring data
9	During on hook / on handset
10	During the PC-FAX process (from PC to machine data transfer to the end of the job)
11	While shifting to/from the energy server mode
12	When not being able to run firmware update due to the modules that are running
	e.g.) Waiting for DCS transfer (refer to appendix), accessing devices such as HDD/SD card, etc.
13	While displaying a preview
14	While the document server function is in use
15	Connecting to TWAIN
16	During the interrupt copy process
17	While displaying the printer menu
18	While updating the display for the document server function via WIM or for stored fax documents
19	While writing log information
20	While accessing the address book
21	During SC

## Update Process

When the machine has decided to run the auto firmware update, the following message is displayed.



The popup will have "Cancel" and "OK" buttons and the update process will start either when the "OK" button is selected or 30 seconds has passed.

When the "Cancel" button is selected, the machine will run the "Retry update" process.

When the device update and three retries in recovery mode both fail, it is determined as a device defect and will display an SC for the defective device. If such an SC appears, replace the indicated board. In the case of SC845, the SC cannot be reported to the call center.

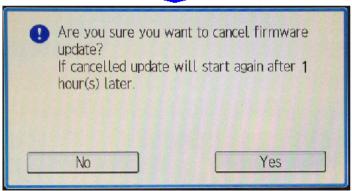
## Device and corresponding SC number

Device name	SC number
Engine board	SC845-01
Controller board	SC845-02
Operation panel (normal panel)	SC845-03
Operation panel (smart panel)	SC845-04
FCU	SC845-05

## Canceling the update

It is possible to cancel the Auto Remote Firmware Update (ARFU) or update in recovery mode from the operation panel.





d238m2107

But this is not possible while updating the operation panel itself. On the other hand, the update for the operation panel will run at the final stage of the update. Thus canceling the update at that stage has no real effect. When the update is cancelled, the machine will reboot when updates for all modules of one of the following devices is done.

- 1. Engine Board
- 2. FCU

- 3. Controller Board
- 4. Operation Panel

For example, when the update process is cancelled while updating the first module of the operation panel, the machine will reboot when all modules in the operation panel have been updated.

The firmware contents included in the package can be referred to in the release note in the SERES release of the package.

The next update will run 76 hours after the cancellation. The old (cancelled) package will be discarded if the package downloaded 76 hours later is the latest.

## Checking the ARFU Result

- **1.** Enter the SP mode.
- **2.** Press [Firmware update].
- 3. Press [Update].
- **4.** Press [Update Package Information].
- 5. If the firmware package is the same as the one on the global server, the update was completed successfully. Otherwise, check the result using the logging date.

In SP7-520-041 to -045 (Update Log: Auto:Version), you can check the versions of the packages updated by ARFU. (-041 displays the latest result. It is also printed on the SMC sheet.)

## Checking the Result Using the Logging Data

- 1. Enter the SP mode.
- **2.** Press [System/Copy].
- 3. Check the results for ARFU by SP7-520-051 to 060 (Update Log: Auto:Result)"-051" is the latest update result. For details about the number of each result log, see the next section "Related SP."

#### Related SP

SP Number	Selection	Overview
	Def.	
SP5-886-111	0: OFF	Sets auto update by ARFU ON/OFF.
	1: ON	
SP5-886-112	0: OFF	Will not run the update when update prohibited time setting is ON and the
	1: ON	current time is in the range of the time set.
SP5-886-113	0 to 23	• Start time < End time: Prohibited time is from the start time to the end
	9	time on the same day.
SP5-886-114	0 to 23	Start time > End time: Prohibited time is from the start time to the end
	17	time on the next day.
		• Start time == End time: Prohibited time setting is disabled. (Update will

SP Number	Selection <b>Def.</b>	Overview	
		not be prohibited.)	
SP5-886-115	0: OFF	Even when the update function is disabled, downloading the package is	
	1: ON	allowed.	
		The downloaded package can be used with SFU.	
SP5-886-116	Display	Displays when the latest package check will run.	
	only		
SP5-886-117	1 to 24	Set time for the next version check after retry.	
	1		
SP5-886-120	0x00	Update will not run if the corresponding bit for each day below is set to 1.	
		Prohibited at all times: bit 7	
		Monday: bit 6	
		• Tuesday: bit 5	
		Wednesday: bit 4	
		• Thursday: bit 3	
		• Friday: bit 2	
		Saturday: bit 1	
		Sunday: bit 0	
		This setting is not changed by the prohibited time setting.	
		e.g.) Prohibited on Mon., Fri., Sat., and Sun. : 0x47 (01000111)	
SP7-520-011 to	Display	History of dates and times when update has started.	
015	only	The five most recent are recorded, the lowest number being most recent.	
		If the last update failed, this is not recorded.	
SP7-520-021	Display	History of dates and times when update has finished.	
to 025	only	The five most recent are recorded, the lowest number being most recent.	
		The record is created when the update has successfully finished.	
		When the update is cancelled, no record is created.	
SP7-520-031	Display	History of the package numbers (including suffix) for which update has	
to 035	only	completed.	
		The five most recent are recorded, the lowest number being most recent.	
		The record is created when the update has successfully finished.	
		When the update is cancelled, no record is created.	
SP7-520-041	Display	History of the package versions for which update has completed.	
to 045	only	The five most recent are recorded, the lowest number being most recent.	
		The record is created when the update has successfully finished.	
		When the update is cancelled, no record is created.	
SP7-520-051	Display	History of the results of the download and the update.	
to 060	only	Refer below for the numbers set.	

# Numbers set for the result history for SP7-520-051 to $060\,$

No.	Result	Description
1	Downloading with SFU	Cannot download or update because the machine is now
		downloading the package for SFU.
2	HDD not installed	Cannot download or update because the machine has no HDD.
3	Updating with SFU	Cannot download or update because the machine is being updated
		with SFU.
4	HDD error	Cannot download or update because the HDD cannot be used.
5	Version information obtain error	Cannot download or update because the version information
		cannot be obtained.
6	Update download error	Cannot download or update because the update download failed.
		In the non @Remote method, this shows that the download failed
		because there was no proxy set.
7	Name resolution error	Cannot download or update because the name cannot be resolved
		upon downloading the update.
8	Auto update setting disabled	The package has been downloaded but will not run the update
		because SP5-886-111 (auto update setting) is disabled and SP5-
		886-115 (auto download setting for SFU) is enabled.
9	Update prohibited time	Cannot start to update because the auto update prohibited time
		setting (SP5-886-112) is enabled and the time update initiated
		was in the range of prohibited time (SP5-886-113 to 114).
		Or the day which update was initiated was a day for which update
		was prohibited (SP5-886-120).
10	Update postponed due to machine in	Cannot start update due to the following conditions when update
	use	was initiated.
		• The machine is in use by a user (the panel was used within
		30 seconds)
		Machine offline for other reasons
		Operation prohibited
		Displaying SP/UP menu
		Firmware update is running with another method
		Configuration change prohibited
		Verifying the operation panel (smart panel)
11	Update cancelled by user	Update was cancelled because a user selected "Cancel" in the
		popup shown before starting the update.
12	Offline failed	Cannot start to update because the machine is offline for other
		reasons.
13	Update successful	Update was started and successfully completed.

No.	Result	Description
14	Update failed	Update was started but failed.
15	Update deemed completed	Update was cancelled after the process was initiated because a user selected "Cancel". There is no need to resume the update due
		to one of the following reasons:
		A newer update has been released and received.
		When retrying ARFU, the update has already been
		completed by another method.
16	Update cancelled by user after	Update was cancelled after the process initiated because a user
	update initiated	selected "Cancel" during the update.
17	Version information obtain error	Cannot download or update because the name cannot be resolved
	(communication error occurred for	when obtaining version information.
	hostname)	
18	Version information obtain error	Cannot download or update because the proxy verification failed
	(proxy verification failure)	with proxy settings when obtaining version information.
19	Version information obtain error	Cannot download or update because an error other than proxy
	(other than proxy verification failure	verification with proxy settings occurred when obtaining version
	when proxy is set)	information.
20	Update download error (proxy	Cannot download or update because the proxy verification failed
	verification failure)	with proxy settings when downloading the package.
21	Update download error (other than	Cannot download or update because an error other than proxy
	proxy verification failure when	verification with proxy settings occurred when downloading the
	proxy is set)	package.
22	Update by retry successful	After power failure, unsuccessful update, or rebooting, update by
		retry is executed successfully.
		However, this does not apply to the case where the update was
		cancelled after the process was initiated because a user selected
		"Cancel".
		In this case, the update is "successful" if the retry is not executed
		between the start and completion of the next update (76 hours
		after the cancellation).

## **Updating JavaVM**

#### Creating an SD Card for Updating

- 1. Download the update modules from Firmware Download Center. As one of the model modules, "Java VM v12 UpdateTool" is available for download. (The version differs depending on the model.)
- 2. Unzip the downloaded file. Copy the whole "sdk" folder to the root of the SD card directly below.



• When unzipping the downloaded file, two subfolders ("update" and "sdk") exist in the "sdk" folder. Rather than just copying the subfolder "sdk", copy the whole folder "sdk".

#### Updating Procedure

#### **CAUTION**

- SD card can be inserted with the machine power off.
- During the updating process, do not turn OFF the power.
- If you turn OFF the power during the updating, the machine performance is not guaranteed. (There is a possibility that an SC and boot failure occurs.)
- If you accidentally turn OFF the power during the updating, retry the updating procedure from the beginning. (If the update fails again, you will need to replace the controller board.)
- 1. If the boot priority application is set to the ESA application, switch to the copy application. ([System Settings]-[General Features]-[Function Priority])
- 2. Insert the SD card you created into the service slot, and then turn ON the power.
- 3. Take a note of the current Heap size. ([Extended Feature Settings] [Administrator Tools] [Heap/Stack Size Settings])
  - The Heap size setting is changed to the initial setting when updating.
- **4.** Turn OFF the power.
- **<u>5.</u>** Insert the SD card for update into the service slot.
- **6.** Turn ON the power.
- 7. After booting Java VM, update of the application is started. "Updating SDK/J" appears in the banner message of the touch panel display. (Estimated time: about 2 minutes)
- 8. After completing the update and starting the Java VM, "Update SDK / J done SUCCESS" appear in the banner message of the touch panel display. After turning OFF the power, remove the SD card from the slot. When you fail to update, "Update SDK/J done FAIL" is displayed. You can confirm the cause of the error message below.
- **9.** Turn ON the power.
- **10.** Reconfigure the Heap size. ([Extended Feature Settings]-[Administrator Tools]-[Heap/Stack Size Settings]). See the manual for the ESA application to know what value to set for the heap size.
- <u>11.</u> Return to the previous setting for the boot priority application.

 $\underline{\mbox{Update results are output as a text file on the SD card called "sdkjversionup.log" in the "\sdk \update" folder.}$ 

Result	File contents	Description of the output
Success	script file = /mnt/sd0/sdk/update/bootscript	Boot script path
	2012/08/22 17:57:47 start	Boot scripts processing start time
	2012/08/22 17:59:47 end SUCCESS	End time boot script processing, the results
Failure	script file = /mnt/sd0/sdk/update/bootscript	Boot script path
	2012/08/22 17:57:47 start	Boot scripts processing start time
	XXXX Error	Error message (Possibly multiple)
	2012/08/22 17:57:57 end FAIL	End time boot script processing, the results

Error Message	Cause	Remedy
PIECEMARK	Applied the wrong updating	Use the correct updating tool for this model.
Error,machine=XXXXX	tool (Using the updating	
	tool of a different model)	
pasePut() - error : The file of the	Inadequacy with the SD	Re-create the SD card for updating.
copy origin is not found	card for updating	
Put Error!	(Files are missing in the	
	updating tool)	
paseCopy() - error : The file of	Inadequacy SD card for	Inadequacy SD card for updating
the copy origin is not found.	updating	(Files in the updating tool are missing)
Copy Error!	(Files in the updating tool	
	are missing)	
[file name: XX] error,No space	Writing destination is full.	Uninstall the unnecessary SDK applications.
left on device	(The NAND flash memory	If you can not uninstall it, implement
pasePut() - error : The	on the controller board is	escalation, stating the "model name,
destination directory cannot be	full.)	application configuration, SMC sheet (SP5-
made.		990-006/024/025), and error file."
pasePut() - error : fileCopy		
Error.		
Put Error!		
[file name: XX] error,No space	Writing destination is full.	Uninstall the unnecessary SDK applications.
left on device	(The NAND flash memory	If you can not uninstall it, implement
paseCopy() - error : The	on the controller board is	escalation stating the "model name,
destination directory cannot be	full.)	application configuration, SMC sheet (SP5-
made.		990-006/024/025), and error file."
paseCopy() - error : fileCopy		
Error.		

Error Message	Cause	Remedy
Copy Error!		
Put Error! *1	Error, not normally	If you cannot uninstall it, implement
Copy Error! *1	expected to occur	escalation stating the "model name,
Delete Error!		application configuration, SMC sheet (SP5-
[XXXXX] is an unsupported		990-006/024/025), and error file."
command.		*1
Version Error		Without the foregoing error message, only
		"Put Error / Copy Error" will be displayed

## Capturing the Device Logs

#### Overview

With this feature, you can save device logs that are stored in the machine (HDD or operation panel) on an SD card. It allows the Customer Engineer to save and retrieve error information for analysis.

The Capturing Log feature saves device logs for the following four.

- Controller device log including operation log
- Engine device log
- FCU device log
- Operation panel log

## 

- In older models, a technician enabled the logging tool after a problem occurred. After that, when the problem had been reproduced, the technician was able to retrieve the device log.
- However, this new feature saves the device logs at the time that problems occur. Then you can copy the logs to an SD card.
- You can retrieve the device logs using a SD card without a network.
- Analysis of the device log is effective for problems caused by the software. Analysis of the device log is
  not valid for the selection of defective parts or problems caused by hardware.
- Make sure to shut down and reboot the machine once before retrieving the Debug Logs. Otherwise, the latest settings may not be collected when the debug logs are retrieved.

#### Types of device logs that can be saved

Type	Storage Timing	Destination (maximum
		storage capacity)
Controller device	Saved at all times	HDD (4 GB) or SD card
log including		connected to the service
operation log		slot.
		When the data gets over
		4.0 GB, the older data is
		deleted.
Engine device log	When an engine SC occurs	HDD or SD card
	When paper feeding/output stop because of a jam	connected to the service
	When the machine doors are opened during normal	slot (Up to 300 times)
	operation	
FCU device log	When a specified amount of FCU device log is stored	HDD or SD card
	in the FCU. If fax application is unavailable (e.g. not	connected to the service
	installed), the machine does not transfer the log.	slot
Operation panel log	When an error related to the operation panel occurs.	Memory in the operation
		panel.



- Device logs are not saved in the following conditions:
- While erasing all memory
- While data encryption equipment is installed
- While changing the firmware configuration
- Forced power OFF (accidentally disconnecting the outlet)
- Engine device log while the machine is shutting down
- When the power supply to the HDD is off because of energy saving (engine OFF mode/STR mode)
- When one of the following SCs occurs: SC672, SC816, SC819, SC878, SC899, SC859, SC860, SC861, SC863, or SC864



- The following logs are not saved:
- Logs related to the energy saver mode (Engine-off, suspend-mode, or other cases)

Network communication log

Logs related to NRS

IP-FAX log

Access log for unauthorized users (guests)

- HTTP session timeout log
- Auto log-out log
- IC card related log
- Authorization for Fax

#### Security of the Operation Log

The following operation logs related to security are not saved.

- User ID
- Password
- IP address
- Telephone number
- Encryption key
- Transition to SP mode

#### Retrieving the Device Logs via Operation Panel



- Retrieve device logs to identify the date of occurrence of the problems and to find details of the problems
- e.g.: At around 8:00 am on March 10, an engine stall occurred. The operation panel does not respond. Turn the main power supply off / on.
- Analysis of the device log is effective for problems caused by the software. Analysis of the device log is
  not valid for the selection of defective parts or problems caused by hardware.

1. Insert the SD card into the slot on the side of the operation panel or the service slot.

### 

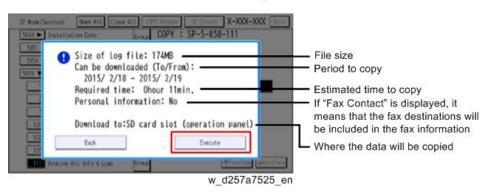
- It is recommended to use the SD card (2 GBs\* or 8 GBs\*\*) provided as a service part. This is because the log data can be acquired much faster than when using commercially available SD cards.
- Format the SD card by using SD Formatter from Panasonic before copying the logs: https://www.sdcard.org/downloads/formatter\_3/ (free software)
- Insert the SD card into the machine's service slot instead of the SD slot on the side of the operation panel.
- \* The part number of the SD card with 2 GBs that is registered as a service part is "B6455030".
- \*\* The part number of the SD card with 8 GBs that is registered as a service part is "B6455040".
- **2.** Turn ON the main power.
- **3.** Enter SP mode.
- **4.** Specify the date that the problem occurred in SP5-858-101 (Start Date) by setting it to the year-month-day calendar format.
  - For example, if a problem occurred on February 1, 2015, the date should be set to "20150201", as shown above.
  - Be sure to confirm the date when the problem occurred before obtaining the logs.
- 5. Specify the number of days to collect the logs in SP5-858-102 (Days of Tracing).
  - "2" is set by default, which is the minimum needed for investigating the problem.
  - A value of "1" to "180" can be set.
- **<u>6.</u>** Execute SP5-858-111 (Acquire All Info & Logs) to copy all of the log types to an SD card.

It is possible to obtain the logs separately by the following SPs.

SP	Collectable Information and/or Logs
SP5-858-	All of the information and logs that are collected by executing the SPs from SP5-858-121 to
111	SP5-858-145, and SMC.
SP5-858-	Configuration page
121	
SP5-858-	Font page
122	
SP5-858-	Print settings list
123	
SP5-858-	Error log
124	
SP5-858-	Fax information (whether the fax destinations are included or not depends on the setting of
131	SP5-858-103.)
SP5-858-	Controller log, engine log, operation panel log, FCU, and SMC.
141	

SP	Collectable Information and/or Logs
SP5-858-	Controller log
142	
SP5-858-	Engine log
143	
SP5-858-	Operation panel log
144	
SP5-858-	FCU log
145	
SP5-992-	SMC
001	

<u>7.</u> After executing the SP for copying the information and/or logs, a confirmation screen will appear. To proceed with obtaining the information and/or logs, tap "Execute"





• The approximate time it takes to transfer the debug log is as follows. Transfer time may be affected by the type or format of the SD card.

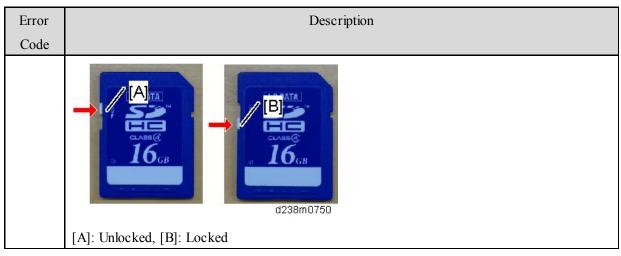
Controller device log (GW device log): 2 - 20 minutes

Engine device log: 2 minutes

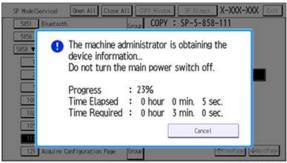
Operation panel device log: 2 - 20 minutes

If the estimated time is not calculated due to an error, an error code will be displayed.

Error	Description	
Code		
-1	Other.	
-2	No SD card is inserted in the service slot or in the SD slot on the side of the operation panel. In	
	this case, insert an SD card into either of the SD slots.	
-3	The SD card is locked. In this case, unlock the SD card, as shown below.	



**8.** Wait for the information and/or logs to be copied to the SD card.



d257a7121

- **9.** After a message stating that the process has completed appears on the operation panel, confirm that the LED light next to the SD card slot is not flashing and then remove the SD card.
- **10.** Make sure that the SD card access LED is off, then remove the SD card.



- The process of obtaining logs fails in the following cases:
  - When the size of the logs to obtain exceeds the amount of space available on the SD card.
  - When the SD card is removed while the logs are being copied to it.
  - When the SD card is not formatted.
- If 'failed' appears on the touch panel display, turn the power off, and then recover from step 1 again.

## Retrieving the Device Logs via Web Image Monitor

The device logs can be retrieved via the Web Image Monitor.

1. Access the following URL and logon as an administrator: http://[IP address or host name]/web/entry/df/websys/direct/getSysInfo.cgi

RICOH Web Im	age Monitor
Login User Name : Login Password :	Login
Cancel	d238m0884

2. Specify the date that the problem occurred and the number of days to download the logs. If the fax destinations need to be included in the fax information, set "On" as "Obtain Fax Destination(s) Information". Then click "Download".

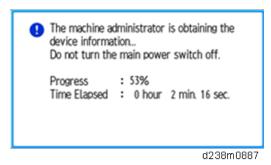


- **U**Note
  - "3" is set by default for "Number of days, including date fault occurred, to obtain". However "2", which is the minimum needed for investigating the problems, is recommended for reducing the downloading time.
  - "Obtain Fax Destination(s) Information" is set to "Off" by default.
- <u>3.</u> The confirmation screen will appear and the information and/or logs will start downloading. To proceed to download the information and/or logs, wait for the open-or-save dialog to appear.



- To cancel downloading, click "Cancel".
- To reconfigure some settings, click "Download again".

• Operation panel when downloading the logs:



**<u>4.</u>** After a while, the open-or-save dialog will appear. Specify where to download and save the file.



• The debug logs are saved with the following file names. These names are the same as the files downloaded with SD card.

## The device logs are saved with the following file names.

Controller log (mmesg)	/LogTrace/[the model number]/watching/[yyyymmdd_hhmmss]_[a unique value].gz	
Engine device log	/LogTrace/[Machine Serial]/engine/[yyyymmdd_hhmmss].gz	
Operation panel log	/LogTrace/[the model number]/opepanel/[yyyymmdd_hhmmss].tar.gz	
SMC	/LogTrace/[the model number]/smc/[the model number]_[5992XXX]_[yyyymmdd]_[hhmmss].csv	
Configuration	/LogTrace/[the model number]/gps/ConfigrationPage/ConfigrationPage_	
page	[yyyymmdd_hhmmss].csv	
Font page	<ul> <li>/LogTrace/[the model number]/gps/FontPage/FontPage_PCL_[the page number]_[yyyymmdd_hhmmss].jpg</li> <li>/LogTrace/[the model number]/gps/FontPage/FontPage_PDF_[the page number]_[yyyymmdd_hhmmss].jpg</li> <li>/LogTrace/[the model number]/gps/FontPage/FontPage_PS_[the page number]_[yyyymmdd_hhmmss].jpg</li> </ul>	
Print settings	/LogTrace/[the model	
list	number]/gps/PrintSettingList/PrintSettingList_RPGL_[yyyymmdd_hhmmss].txt  • /LogTrace/[the model number]/gps/PrintSettingList/PrintSettingList_RTIFF_[yyyymmdd_hhmmss].csv	
Error log	/LogTrace/[the model number]/gps/ErrorLog/[yyyymmdd_hhmmss].csv	

Fax information	/LogTrace/[the model number]/faxreport/[yyyymmdd_hhmmss].csv
FCU debug log	/LogTrace/[Machine Serial]/fculog/[yyyymmdd_hhmmss].gz

## **NVRAM Data Upload/Download**

## Uploading Content of NVRAM to an SD card

Do the following procedure to upload SP code settings from NVRAM to an SD card.



- This data should always be uploaded to an SD card before the NVRAM is replaced.
- Make sure that the write protection of an SD card is unlocked.
- 1. Do SP5-990-001 (SP Print Mode: All(Data List)) before you switch the machine off. You will need a record of the NVRAM settings if the upload fails.

Make sure to shut down and reboot the machine once before printing the SMC. Otherwise, the latest settings may not be collected when the SMC is printed.

- **2.** Turn OFF the power.
- **3.** Remove the SD slot cover [A].



4. Insert the SD card into SD card slot 2 (lower) [A].



- **5.** Turn ON the power.
- **6.** Do SP5-824-001 (NVRAM Data Upload) and then press [Execute].
- <u>7.</u> The following files are coped to an NVRAM folder on the SD card when the upload procedure is finished. The file is saved to the path and the following filename:

#### **NVRAM\<serial number>.NV**

Here is an example with Serial Number "K5000017114":

#### NVRAM\K5000017114.NV

**8.** In order to prevent an error during the download, be sure to mark the SD card that holds the uploaded data with the number of the machine from which the data was uploaded.



• You can upload NVRAM data from more than one machine to the same SD card.

## Downloading an SD Card to NVRAM

Do the following procedure to download SP data from an SD card to the NVRAM in the machine.

- The NVRAM data download may fail if the SD card with the NVRAM data is damaged, or if the connection between the controller and BCU is defective.
- Do the download procedure again if the download fails.
- Do the following procedure if the second attempt fails:
- Enter the NVRAM data manually using the SMC print you created before uploading the NVRAM data.
- 1. Turn OFF the power.
- **2.** Remove the SD slot cover.
- 3. Insert the SD card with the NVRAM data into SD card slot 2 (lower).
- **4.** Turn ON the power.
- **5.** Do SP5-825-001 (NVRAM Data Download) and press [Execute].



• The serial number of the file on the SD card must match the serial number of the machine for the NVRAM data to download successfully. The download fails if the serial numbers do not match.

This procedure does not download the following data to the NVRAM:

- Total Count
- C/O, P/O Count

# Address Book Upload/Download

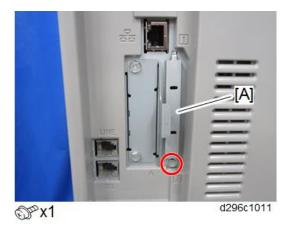
## Information List

The following information is possible to be uploaded and downloaded.

Information		
Registration No.	Select Title	
User Code	• Folder	
• E-mail	Local Authentication	
Protection Code	Folder Authentication	
Fax Destination	Account ACL	
Fax Option	New Document Initial ACL	
Group Name	LDAP Authentication	
Key Display		

## Download

- 1. Prepare a formatted SD card.
- 2. Make sure that the write-protection on the SD card is off.
- **3.** Turn OFF the power.
- **<u>4.</u>** Remove the SD slot cover [A] at the left rear side of the machine.



**5.** Install the SD card into the SD card slot 2 (lower) [A] (for service use).



d296c1012

- **6.** Turn ON the power.
- 7. Enter the SP mode.
- **8.** Do SP5-846-051 (Backup All Addr Book).
- **9.** Exit the SP mode, and then turn OFF the power.
- **10.** Remove the SD card form the SD card slot 2 (lower).
- 11. Install the SD slot cover.



- If the capacity of SD card is not enough to store the local user information, an error message is displayed.
- Carefully handle the SD card, which contains user information. Do not take it back to your location.

#### Upload

- 1. Turn OFF the power.
- 2. Remove the SD slot cover at the left rear side of the machine.
- 3. Install the SD card, which has already been uploaded, into the SD card slot 2 (lower).
- **4.** Turn ON the power.
- **5.** Enter the SP mode.
- **<u>6.</u>** Do SP5-846-052 (Restore All Addr Book).
- 7. Exit the SP mode, and then turn OFF the power.
- **8.** Remove the SD card form the SD card slot 2 (lower).
- **9.** Install the SD slot cover.



- The counter in the user code information is initialized after uploading.
- The information of an administrator and supervisor cannot be downloaded nor uploaded.
- If there is no data of address book information in the SD card, an error message is displayed.

## **SMC List Card Save Function**

#### Overview

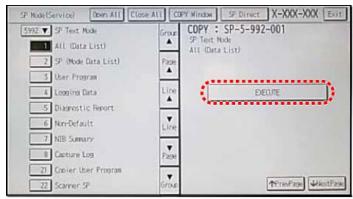
The SMC List Card Save (SP Text Mode) function is used to save the SMC list as CSV files to the SD card inserted into the operation panel SD card slot.



 Make sure to shut down and reboot the machine once before exporting the SMC sheet data. Otherwise, the latest settings may not be collected when the SMC is exported.

#### Procedure

- 1. Turn OFF the power.
- 2. Insert the SD card into the operation panel SD-card slot, and then turn ON the power.
- 3. Enter SP mode.
- **4.** Select [System/Copy SP].
- **5.** Select SP5-992-001 (SP Text Mode) and press [EXECUTE].



d1440127

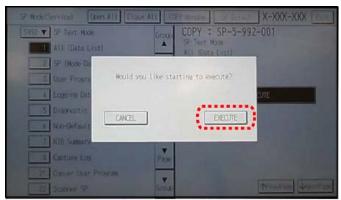
**6.** Select a detail SP number shown below to save data on the SD card.

#### SP5-992-xxx (SP Text Mode)

Detail No.	SMC Categories to Save
001	All (Data List)
002	SP (Mode Data List)
003	User Program
004	Logging Data
005	Diagnostic Report
006	Non-Default
007	NIB Summary
008	Capture Log
021	Copier User Program
022	Scanner SP
023	Scanner User Program

Detail No.	SMC Categories to Save
024	SDK/J Summary
025	SDK/J Application Info
026	Printer SP
027	Smart Operation Panel SP
028	Smart Operation Panel UP

## 7. Press [EXECUTE].



d1440128

**8.** Press [EXECUTE] again to start. Press [CANCEL] to cancel the saving.



d1440130

**9.** "It is executing it" is shown on the screen while executing.



d1440129

10. Wait for 2 to 3 minutes until "Completed" is shown.



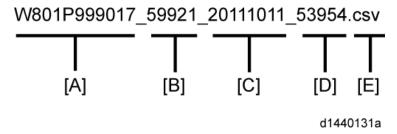
• The SMC list saving may take from 2 to 3 minutes to complete.

• Press [CANCEL] to abort executing.

#### 11. Press [Exit] to exit from SP mode.

#### File Names of the Saved SMC Lists

The SMC list data saved on the SD card will be named automatically. The file naming rules are as follows. Example:



A:

#### Machine serial number (fixed for each machine)

B:

#### SP number saved in this file.

First four digits (5992) in this part are fixed. The other one or two digits are the detail SP number(s). In this case, it is one digit. Therefore, this file is of SP5-992-001 (All data list). See the upper SP table for the correspondence between SP detail numbers and the contents.

 $\mathbf{C}$ :

#### File creation date

Year/Month/Day ("Zero" will be omitted if each is one digit.)

D:

#### File creation time

Hour/Minute/Second ("Zero" will be omitted if each is one digit.)

E:

#### File Extension CSV (Comma Separated Value)

This part is fixed.



- A folder named by the machine serial number will be created on the SD card when this function is executed.
- This function can save the SMC list data only to an SD card inserted into the operation panel SD card slot.

## Error Messages

SMC List Card Save error message:

#### Failed:

FACTOR: Read-only file system, No space left on device.

If an error occurs, pressing "Exit" will cause the device to discard the job and return to the ready state.

## **UP/SP Data Import/Export**

#### UP Data Import/Export

#### Data that can be Imported and Exported

- Copier / Document Server Features
- Printer Features
- Scanner Features
- Facsimile Features
- Browser Features
- Extended Feature Settings
- Program (Document Server)
- Program (Copier)
- Program (Scanner)
- Web Image Monitor Setting
- Web Service Settings
- System Settings

#### Data that cannot be Imported or Exported

- Some System Settings \*1 \*2
  - \*1 The setting for the date, settings that require the device certificate, and settings that need to be adjusted for each machine (for example, image adjustment settings) cannot be imported or exported.
  - \*2 Settings only for executing functions and settings only for viewing cannot be imported or exported.
- Extended Feature Settings
- Address book
- Programs (fax function)
- Programs (printer function)
- User stamp in Copier / Document Server Features
- Settings that can be specified via telnet
- @Remote-related data
- Counters
- EFI printer unit settings
- Settings that can only be specified via Web Image Monitor or Web Service (for example, Bonjour, SSDP setting)

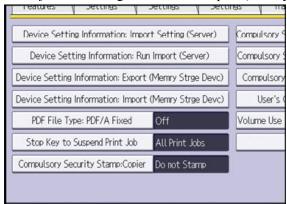
#### **Exporting Device Information**

This can be exported / imported by an administrator with all privileges.

When exporting SP device information from the control panel, the data is saved on an SD card.

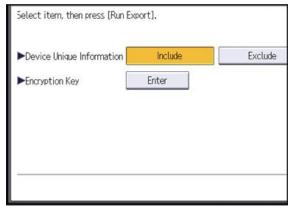
- 1. Insert an SD card into the media slot on the side of the control panel.
- 2. Log in from the control panel as an administrator with all privileges.

- 3. Press [User Tools] icon > [Machine Features] > [System Settings].
- **4.** Press [Administrator Tools].
- **5.** Press [Device Setting Information: Export (Memry Strge Devc)].



w\_d1825501

**6.** Set the export conditions.



w d1825502

- Specify whether to [Include] or [Exclude] the "Device Unique Information". "Device Unique Information" includes the IP address, host name, fax number, etc.
- Specify an encryption key.
- **7.** Press [Run Export].
- **8.** Press [OK].
- **9.** Press [Exit].
- **10.** Log out.



- If data export fails, the details of the error can be viewed in the log.
- When device Information is periodically imported, it is necessary to create the device setting information file with special software and store it on the web server.

#### Importing Device Information

This can be exported / imported by an administrator with all privileges.

Import device information saved on an SD card.

1. Insert an SD card into the media slot on the side of the control panel.

- **2.** Log in from the control panel as an administrator with all privileges.
- **3.** [User Tools] icon > [Machine Features] > [System Settings].
- **4.** Press [Administrator Tools].
- **<u>5.</u>** Press [Device Setting Information: Import (Memry Strge Devc)].
- **6.** Configure the import conditions.

▶Device Setting Info. File		
Device Secting into. The		
►Image for Home Screen		
▶Device Unique Information	Include	Exclude
►Encryption Key	Enter	

w d1825503

- Press [Select] of the "Device Setting Info. File" to select the file(s) to import.
- When inserting a file into a home screen, press [Select] for the Image for Home screen and select the file. You cannot use this setting when using the Smart Operation Panel.
- Specify whether to [Include] or [Exclude] the "Device Unique Information". "Device Unique Information" includes the IP address, host name, fax number, etc.
- Enter the encryption key that was specified when the file was exported.
- 7. Press [Run Import].
- **8.** Press [OK].
- **9.** Press [Exit].

The machine restarts.



• If data export fails, the details of the error can be viewed in the log.

#### SP Data Import/Export

#### Data that can be Imported and Exported

- System SP
- Printer SP
- Fax SP
- Scanner SP

#### **Exporting Device Information**

When exporting SP device information from the control panel, the data is saved on an SD card.

- 1. Insert an SD card into the media slot on the side of the control panel.
- 2. Enter SP mode.

- 3. Do SP5-749-001 (Import/Export: Export).
- **4.** Select "Target" SP settings (System/Printer/Fax/Scanner) to be exported.
- **<u>5.</u>** Select "Option" settings (Unique/Secret).

Item	Specification	Note
Unique	Unique information of the machine is	Unique information that can be updated
	included in the exported file if you select	#1. Items that are to be used to identify the
	"Unique" setting.	machine.
		Example: Network Information/ Host name /
		Information related to fax number /Mail address
		assigned to the machine
		#2. Items for specifying the options equipped on
		the machine.
		Example: Lot number for developer
		Unique information that cannot be updated
		#1. Items that may cause a problem if imported
		Example: Serial number / Information related to
		@Remote
		#2. Items for managing the history of the machine
		Example: Time and date / Counter information /
		Installation date
		#3. Setting values for the Engine
Secret	Secret information is exported if you select	Secret information
	"Secret" setting.	#1. Data that cannot be exported without being
		encrypted.
		(Exported data is encrypted.)
		Example: Password / Encryption key / PIN code
		#2. Confidential information for the customer
		Example: User name / User ID / Department code
		/ Mail address / Phone number
		#3. Personal information
		Example: Document name / Image data
		#4. Sensitive information for the customer
		Example: MAC address / Network parameters

<sup>\*</sup> The IP address is exported when both 'Unique' and 'Secret' are selected.

#### **<u>6.</u>** Select "Crpt config" setting (Encryption).

1		
Encryption	Select whether to encrypt or not when	If the encryption function is used, setting of an
	exporting.	encryption key is required by direct input.
	If you push the "Encryption" key, you	Type the arbitrary password using the soft
	can export secret information.	keyboard

	Can enter up to 32 characters
--	-------------------------------

- 7. Press [Execute].
- **8.** Press [OK].



• If data export fails, the details of the error can be viewed in the log.

#### Importing Device Information

Import device information saved on an SD card.

- 1. Insert an SD card into the media slot on the side of the control panel.
- **2.** Enter SP mode.
- **3.** Do SP5-749-101(Import/Export: Import)
- **4.** Select a unique setting.
- **<u>5.</u>** Press [Encryption Key], if the encryption key was created when the file was exported.
- **<u>6.</u>** Select an encryption setting.

Unique	If you want to apply the unique information to the target	Refer to the above
	machine, select the "Unique" key.	information.
Encryption	Encryption If an encrypted file is selected as the import file, this setting is	
	required.	

- 7. Press [Execute].
- **8.** Press [OK].



• If data export fails, the details of the error can be viewed in the log.

#### Possible Solutions for Import/Export Problems

The access log file is created when export/import is executed. The file is stored in the same location as the exported device setting information file.

If an error occurs, check the log's result code in the access log file first. Values other than 0 indicate that an error occurred.

The result code will appear in the circled area illustrated below.

- Example of a log file

#### 5. System Maintenance

```
"1.0.0"
"ExecType", "Date", "SerialNo", PnP", "Model", "Destination", "IP", "Host", "Storage", "FileNam e", "FileID", "Totalltem", "NumOfOkitem", "ResultCode", "ResultName", "Identifier"
"IMPORT"
"2012-07-05T15:29:16+09:00"
"30:35-7M0014"
"Brand Name"
"Product Name"
"0"
"10"
"10.250.155.125"
"RNP00267332582D"
"SD"
"201207051519563C35-710220.csv"
"201207051519563C35-710220.csv"
"201207051519563C35-710220"
"1"
"TargetID", "ModuleID", "PrefiD", "Item", "NgCode", "NgName"

W_d1825500
```

If you cannot solve the problem or do not know how to solve it after checking the code, note down the error log entry, then contact your supervisor.

Result Code	Cause	Solutions
2 (INVALID	A file import was attempted between	Import files exported from the same model
REQUEST)	different models or machines with	with the same device configurations.
	different device configurations.	
4 (INVALID	Failed to write the device information to	Check whether the destination device is
OUTPUT DIR)	the destination device.	operating normally.
7( MODULE	An unexpected error occurred during	Switch the power off and then back on, and
ERROR)	import or export.	then try the operation again. If the error
		persists, contact your supervisor.
8 (DISK FULL)	The available storage space on the	Execute the operation again after making sure
	external medium is insufficient.	there is enough storage space.
9 (DEVICE	Failed to write or read the log file.	Check whether the path to the folder for
ERROR)		storing the file or the folder in which the file
		is stored is missing.
10 (LOG	The hard disk is faulty.	Contact your supervisor.
ERROR)		
20 (PART	Failed to import some settings.	The reason for the failure is logged in
FAILED)		"NgCode". Check the code.
		Reason for the Error (Ng-Name)
		2. INVALID VALUE
		The specified value exceeds the allowable
		range.
		3. PERMISSION ERROR
		The permission to edit the setting is missing.
		4. NOT EXIST

Result Code	Cause	Solutions
		The setting does not exist in the system.
		5. INTERLOCK ERROR
		The setting cannot be changed because of the
		system status or interlocking with other
		specified settings.
		6. OTHER ERROR
		The setting cannot be changed for some other
		reason.
21 (INVALID	Failed to import the file because it is in	Check whether the file format is correct.
FILE)	the wrong format in the external medium.	The import file should be a CSV file.
22 (INVALID	The encryption key is not valid.	Use the correct encryption key.
KEY)		



- When exporting device information from the control panel, the data can be saved only on an SD card.
- The file format for exports is CSV.

### **Test Pattern Printing**

Printing Test pattern: SP2-109

Some of these test patterns are used for copy image adjustments but most are used primarily for design testing.



- Do not operate the machine until the test pattern is printed out completely. Otherwise, an SC occurs.
- 1. Enter the SP mode and select **SP2-109-003**.
- 2. Enter the number for the test pattern that you want to print and press [#].
- 3. When you want to select the single color of Magenta, Yellow or Cyan for printing a test pattern, select the color with SP2-109-005 (2: Magenta, 3: Yellow, 4: Cyan).
- 4. When you want to change the density of printing a test pattern, select the density with SP2-109-006 to -009 for each color.



- If you select "0" with SP2-109-006 to -009, the color to be adjusted to "0" does not come up on a test pattern.
- 5. When you are prompted to confirm your selection, touch "Yes" to select the test pattern for printing.
- 6. Touch "Copy Window" to open the copy window, then select the settings for the test print (paper size etc.).



- If you want to use black and white printing, touch "Black & White" on the LCD. If you want to use color printing, touch "Full Color" on the LCD.
- 7. Press the "Start" key to start the test print.
- 8. After checking the test pattern, touch "SP Mode" on the LCD to return to the SP mode display.
- 9. Reset all settings to the default values.
- 10. Touch "Exit" twice to exit SP mode.

No.	Pattern	No.	Pattern
0	None	12	Independent Pattern (2-dot)
1	Vertical Line (1dot)	13	Independent Pattern (4-dot)
2	Vertical Line (2dot)	14	Trimming Area
3	Horizontal Line (1dot)	15	Hound's Tooth Check (Vertical)
4	Horizontal Line (2dot)	16	Hound's Tooth Check (Horizontal)
5	Grid Vertical Line	17	Band (Horizontal)
6	Grid Horizontal Line	18	Band (Vertical)
7	Grid Pattern Small	19	Checker Flag Pattern
8	Grid Pattern Large	20	Grayscale (Vertical Margin)
9	Argyle Pattern Small	21	Grayscale (Horizontal Margin)
10	Argyle Pattern Large	22	Two Beam Density Pattern
11	Independent Pattern (1-dot)	23	Full Dot Pattern

#### **Card Save Function**

#### Overview

#### Card Save:

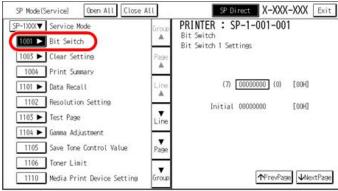
- The Card Save function is used to save print jobs received by the printer on an SD card with no print output. Card Save mode is toggled using printer Bit Switch #1 bit number 4. Card Save will remain enabled until the SD card becomes full, or until all file names have been used.
- Captures are stored on the SD card in the folder /prt/cardsave. File names are assigned sequentially from PRT00000.prn to PRT99999.prn. An additional file PRT.CTL will be created. This file contains a list of all files created on the card by the card save function.
- Previously stored files on the SD card can be overwritten or left intact. Card Save SD has "Add" and "New" menu items.
  - Card Save (Add): Appends files to the SD Card. Does not overwrite existing files. If the card becomes full or if all file names are used, an error will be displayed on the operation panel. Subsequent jobs will not be stored.
  - Card Save (New): Overwrites files in the card's /prt/cardsave directory.

#### Limitation:

 Card Save cannot be used with PJL Status Readback commands. PJL Status Readbacks will not work. In addition they will cause the Card Save to fail.

#### Procedure

- 1. Turn OFF the power.
- 2. Insert the SD card into slot 2 (lower), and then turn ON the power.
- 3. Enter SP mode.
- **4.** Select the [Printer SP].
- 5. Select SP1-001 (Bit Switch).

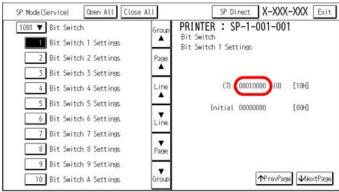


d257a7528

**<u>6.</u>** Select "Bit Switch 1 Settings" and use the numeric keypad to turn bit 4 ON and then press the "#" button to register the change. The result should look like: 00010000. By doing this, Card Save option will appear in the

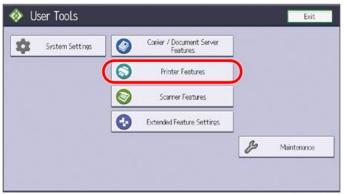
#### 5. System Maintenance

"List/Test Print" menu.



d257a7529

- 7. Press [Exit] to exit SP Mode.
- **8.** Press [User Tools] icon > [Machine Features].
- **9.** Press [Printer Features].



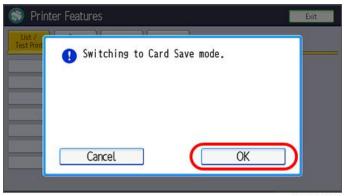
d257a7530

<u>10.</u> Card Save (Add) and Card Save (New) should be displayed on the screen. Select Card Save (Add) or Card Save (New).



d257a7532

11. Press [OK] and then exit the "User Tools" menu.



d257a7533

- 12. Press [Printer (Classic)] icon.
- 13. "Card Save" is be displayed in the top left of the display panel.



d257a7531

- 14. Send a job to the printer. The Communicating light should start blinking.
- 15. As soon as the printer receives the data, it will be stored on the SD card automatically with no print output. Nothing is displayed on the screen, indicating that a Card Save operation was successful.
- **16.** Press [Reset] to exit Card Save mode.
- <u>17.</u> Change the Bit Switch Settings back to the default 00000000. Press [#] in the numeric keypad to register the changes.
- **18.** Remove the SD card after the power is turned OFF.

#### Error Messages

#### Card Save error messages:

- Init error: A card save process (e.g. card detection, change to kernel mode) failed to initialize.
- Card not found: Card cannot be detected in the slot.
- **No memory:** Insufficient working memory to process the job.
- Write error: Failed to write to the card.
- Other error: An unknown error occurred.

If an error occurs, pressing [OK] will cause the device to discard the job and return to the ready state.

## Self-Diagnostic Mode

#### Service Call Conditions

The 'SC Table' section shows the SC codes for controller errors and other errors. The latter are put into four types. The type is determined by their reset procedures. The table shows the classification of the SC codes.

Type	Display	How to reset	SC call or SC
			alarm in customer
			support system
Α	The SC is immediately	Reset the SC (set SP5-810-001) and then cycle	Occurrence &
	displayed on the operation	the power OFF and ON.	alarm count
	panel when SC occurs.	<b>△</b> CAUTION	<b>4</b>
	The error involves the fusing	When canceling a fusing unit SC,	Immediate alarm
	unit. The machine operation is	(SC544-00/SC554-00/SC564-	
	disabled. The user cannot	00/SC574-00), perform part	
	reset the error.	replacement in accordance with the	
		above procedure.	
В	When a function is selected,	Turn the operation switch OFF and ON.	Occurrence &
	the SC is displayed on the		alarm count
	operation panel.		<b>4</b>
	The machine cannot be used		Power OFF and
	(down-time mitigation).		ON
			<b>4</b>
			Alarm count and
			alarm only if
			recurrence
C	No display on the operation	The machine operates as usual.	Occurrence
	panel.	Only the SC history is updated.	<b>4</b>
	The machine operates as		Logging count &
	usual.		alarm count
D	The SC is displayed on the	Turn the power OFF and ON.	Occurrence &
	operation panel.		alarm count ↓
	The machine cannot be used		Power OFF and
	(machine-error SC).		ON
			<b>4</b>
			Alarm count and

Type	Display	How to reset	SC call or SC
			alarm in customer
			support system
			alarm only if
			recurrence

#### **U** Note

- When an ordinary SC (type D) is generated, an automatic reboot is performed. When an event is reported by the customer support system, even in the event of an ordinary SC, reboot is not performed. During automatic reboot, a confirmation screen is displayed after the reboot.
- When automatic reboot occurs twice continuously, an SC is displayed without rebooting, and logging count is performed. Also, when an SMC print is output, an \* mark is added alongside the SC number for clarity.
- Automatic reboot can be enabled or disabled with SP5-875-001 (SC automatic reboot setting) (default value: OFF).

#### SC Logging

When an SC is generated, the "total count value when the SC is generated" and the "SC code" are logged. However, if the total count value during the SC is the same as last time, logging is not performed. Logged data can be checked by outputting an administrative report (SMC print). The SC history is logged up to the last 10 entries, and if there are more than 10 entries, data are progressively deleted starting from the oldest.

#### SC Automatic Reboot

When an ordinary SC (pattern D) is generated, automatically reboot is performed. Automatic reboot or reboot by user operation can be set by SP5-875-001 (SC automatic reboot setting out) (default value: 1 "OFF").

When a type D occurs, automatic reboot is done or the machine display asks the customer if it can reboot.

However, when the SC occurs twice in a short time, the machine sends a report to the @Remote server without rebooting. This is because just rebooting may not be a good solution if an SC occurs twice.

When an automatic reboot is performed, a confirmation screen is displayed after reboot. The confirmation screen can be cancelled by pressing the [OK] key (display is not cancelled only when the main power switch is switched OFF to ON).

#### Screen display during reboot

• Status display on the current screen

Post-processing

- Post-processing ..... Post-processing during printing, etc.
- Automatic reboot .... After operation end

	•	-	-	
Until	autom	atic	rebo	ot
$\Box\Box$				ПП

• Reset key (Reboot key)

Key to perform reboot

# Cancel key is not displayed.

• Turn on spanner LED (same as when an SC is generated).

#### **Operation during SC reboot**

• Timing of SC reboot

When @Remote is enabled, and when a NRS alarm\*1 is not generated, the corresponding SC is the object of an automatic reboot.

\*1 NRS alarm: Issued when an ordinary SC (type D) is generated twice while the total counter counts 10 times.

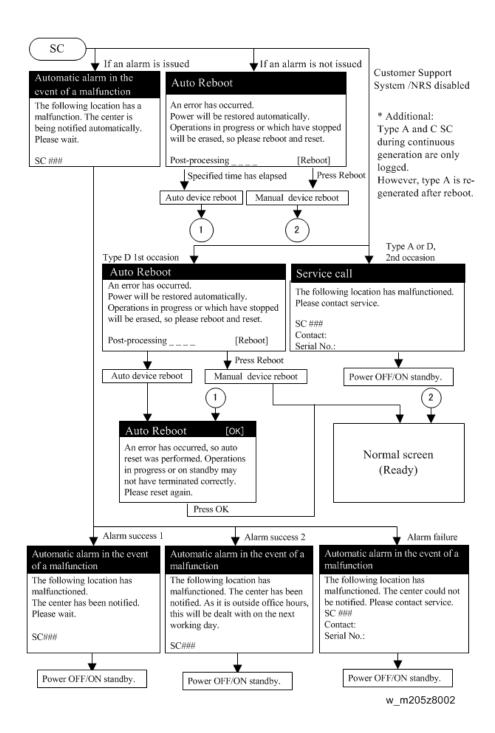
• Time to automatic reboot

Reboot is performed 30 seconds after an engine reboot is possible, after the end of post-processing during printing, etc.

At that time, a reboot is performed even if the MFP is operating. The engine does not start process control when a reboot is possible.

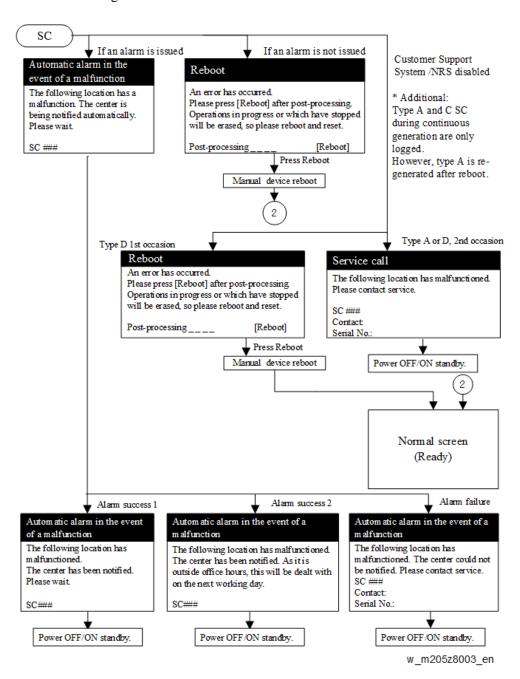
• Automatic reboot

See the flowchart below.



#### SC Manual Reboot

When the automatic reboot is disabled in SP5-875-001 (SC automatic reboot setting), user reboot the machine manually. See the flowchart below.



# SC1xx: Scanning

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
SC101-	D	LED error	
01		The peak white level is less than the prescribed value.	
		This SC is detected when the machine adjusts the LED's light intensity or before just	
		scanning.	
		Loose connector	
		Defective scanner carriage	
		Defective BiCU	
		Damaged harness (FFC)	
		Dirty or incorrect white plate	
		Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the	
		following steps. Check if the SC reoccurs by cycling the power after each step.	
		Reconnect the following connectors:	
		SBU-BiCU harness (FFC) connector	
		SBU-LEDB (scanner lamp board) harness (FFC) connector (SBU)	
		2. Check the white plate (Exposure glass).	
		Clean or replace the white plate if damaged.	
		3. Replace the scanner carriage	
		4. Replace the BiCU.	
		5. Replace the harness (FFC).	

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC101-	D	LED error (LED illumination adjustment)
02		The peak white level is less than the prescribed value.
		This SC is detected when the machine adjusts the LED's light intensity.
		Defective LED
		LED driver error
		Disconnected connectors or damaged harness (power/signal)
		Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the
		following steps. Check if the SC reoccurs by cycling the power after each step.
		1. Reconnect the connectors (power/signal).
		2. Replace the scanner carriage
		3. Replace the harness (power/signal).

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC102-	D	LED intensity adjustment error

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
00		The peak white level cannot be in the prescribed value even though adjusting several times.
		This SC is detected when the machine adjusts the LED's light intensity.
		Loose connector
		Defective scanner carriage
		Defective BiCU
		• Damaged harness (FFC)
		Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the
		following steps. Check if the SC reoccurs by cycling the power after each step.
		1. Reconnect the following connectors:
		SBU-BiCU harness (FFC) connector
		SBU-LEDB (scanner lamp board) harness (FFC) connector (SBU)
		2. Check the white plate (Exposure glass).
		Clean the white plate and/or replace the exposure glass.
		3. Replace the scanner carriage.
		4. Replace the BiCU.
		5. Replace the harness (FFC).

SC No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC111-	D	LED error (scanning): rear side
01		The peak white level is less than the prescribed value.
		Loose connector
		Defective CIS
		Damaged harness
		Dirty or incorrect white plate
		Defective BiCU
		Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the
		following steps. Check if the SC reoccurs by cycling the power after each step.
		1. Clean or replace the ADF's white plate (rear side).
		2. Reconnect the connectors (FFC) between the CIS and BiCU.
		3. Replace the CIS.
		4. Replace the harness (FFC).
		5. Replace the BiCU.

SC No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC112-	D	LED illumination adjustment error: rear side
00		The white level peak reached the prescribed threshold when the white plate was scanned
		after a specified number of adjustments.

SC No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		• Loose connector
		• Defective CIS.
		Damaged harness
		Dirty or incorrect white plate
		Defective BiCU
		Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the
		following steps. Check if the SC reoccurs by cycling the power after each step.
		1. Clean or replace the ADF's white plate (rear side).
		2. Reconnect the connectors (FFC) between the CIS and BiCU.
		3. Replace the CIS.
		4. Replace the harness (FFC).
		5. Replace the BiCU.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC120-	D	Scanner home position (HP) error 1
00		The scanner HP sensor did not go OFF:
		During homing operation (power ON, leaving low power mode)
		During auto adjustment (power ON, leaving low power mode)
		During document, book scanning
		Motor driver error
		Defective motor
		Defective HP Sensor
		Disconnected connectors or damaged harness
		Timing belt, pulley, wires or scanner carriage failure
		Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the
		following steps. Check if the SC reoccurs by cycling the power after each step.
		1. Replace the scanner HP sensor.
		2. Replace the scanner motor.
		3. Replace the harness.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC121-	D	Scanner home position (HP) error 2
00		The scanner HP sensor did not go ON:
		During homing operation
		During auto adjustment
		During document, book scanning
		Motor driver error

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		Defective motor
		Defective HP Sensor
		Disconnected connectors or damaged harness
		• Timing belt, pulley, wires or carriage failure
		Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the
		following steps. Check if the SC reoccurs by cycling the power after each step.
		1. Replace the scanner HP sensor.
		2. Replace the scanner motor.
		3. Replace the harness.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC141-	D	Black level detection error
00		Black level is not less than the prescribed value.
		This SC is detected when: the scanner power is turned on and the machine returns from the
		energy saver mode.
		Loose connector
		Defective scanner carriage
		Defective BiCU
		Damaged harness (FFC)
		Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the
		following steps. Check if the SC reoccurs by cycling the power after each step.
		1. Reconnect the connector between the SBU and BiCU (FFC).
		2. Replace the scanner carriage.
		3. Replace the BiCU.
		4. Replace the harness (FFC)

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC142-	D	White level detection error
00		The white peak level cannot be in the prescribed value when adjusting the scanner gain.
		This SC is detected when the scanner power is turned on and the machine returns from the
		energy saver mode.
		Defective SBU
		Defective LED
		Defective BiCU
		Loose connector
		Damaged harness (FFC)
		Defective scanner motor

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		Dirty or incorrect mirror and/or lens
		• Dirty or incorrect white plate
		Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the
		following steps. Check if the SC reoccurs by cycling the power after each step.
		1. Reconnect the following connectors:
		SBU-BiCU harness (FFC) connector
		SBU-LEDB (scanner lamp board) harness (FFC) connector (SBU)
		2. Check the white plate (Exposure glass)
		Clean the white plate and/or replace the exposure glass.
		3. Replace the scanner carriage.
		4. Replace the BiCU.
		5. Replace the harness (FFC).

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC144-	D	SBU communication error
00		The machine cannot detect that the SBU is connected.
		Defective scanner carriage
		Defective BiCU
		Loose connector or damaged harness
		Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the
		following steps. Check if the SC reoccurs by cycling the power after each step.
		1. Reconnect the connector between the scanner carriage and BiCU (FFC).
		2. Replace the scanner carriage.
		3. Replace the BiCU.
		4. Replace the harness (FFC).

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)		
SC151-	D	Black level correction error: rear side		
00		The automatic adjustment has failed to correct the black level (rear side) to the permissible		
		range.		
		Loose connector		
		Defective CIS		
		Defective BiCU		
		• Damaged harness (FFC)		
		Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the		
		following steps. Check if the SC reoccurs by cycling the power after each step.		
		1. Reconnect the connectors between the CIS and BiCU (FFC).		

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		2. Replace the CIS.
		3. Replace the BiCU.
		4. Replace the harness (FFC).

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC152-	D	White level correction error: rear side
00		The automatic adjustment has failed to correct the white level (rear side) to the permissible
		range.
		Defective CIS
		Defective BiCU
		Loose connector
		Damaged harness (FFC)
		Dirty or incorrect white plate (rear side)
		Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the
		following steps. Check if the SC reoccurs by cycling the power after each step.
		1. Clean or replace the white plate (rear side).
		2. Reconnect the connectors between the CIS and BiCU (FFC).
		3. Replace the CIS.
		4. Replace the BiCU.
		5. Replace the harness (FFC).

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC154-	D	CIS communication error: rear side
00		The machine cannot detect that the CIS is connected.
		This SC is detected when: the main power is turned on and the machine returns from the
		energy saver mode.
		Defective CIS
		Defective BiCU
		Loose connector
		Damaged harness
		Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the
		following steps. Check if the SC reoccurs by cycling the power after each step.
		1. Reconnect the connector between the CIS and BiCU (FFC).
		2. Replace the CIS.
		3. Replace the BiCU.
		4. Replace the harness between the CIS and BiCU (power/signal).

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC161-	D	BiCU error (DRAM initialization failure)
20		The DRAM initialization flow is not completed successfully.
		This SC is detected when: the main power is turned on and the machine returns from the
		energy saver mode.
		Defective BiCU
		Defective DRAM device
		Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do the
		following steps. Check if the SC reoccurs by cycling the power after each step.
		1. Reconnect all the connectors on the BiCU board if disconnected, or loose.
		2. Replace the BiCU.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC180-01	В	BiCU error (Double-feed detection failure)
		Error signal is detected during the failure detection operation.
		Disconnected connectors or damaged harness
		Sensors abnormal output
		Defective double-feed sensors
		Check the double-feed sensor and harnesses.
		2. Replace the harnesses for double-feed sensors.
		3. Replace the double-feed sensors.
		4. Replace the ADF relay board.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC195-00	D	Serial Number Mismatch
		Serial number stored in the memory does not have the correct code.
		EEPROM defective
		BiCU replaced without original EEPROM
		1. Check the serial number with SP5-811-002.
		2. If the stored serial number is incorrect, contact your supervisor.

## SC2xx: Exposure

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC202-	D	Polygon motor error 0: ON timeout: Bk, Cy
01		
SC202-	D	Polygon motor error 1: ON timeout: Ma, Ye
03		
		Polygon mirror motor cannot rotate correctly.
		This SC is detected when the polygon mirror motor starts rotating, or its rotating speed is
		changed.
		Polygon mirror motor failure
		Motor driver error
		Polygon mirror motor harness is defective, disconnected, or short-circuited
		BiCU failure (Incorrect polygon motor control signal, damaged Laser ASIC)
		Defective PSU or power supply part for polygon motor
		Fuse blown out
		Incorrect AC voltage
		1. Cycle the power OFF/ON.
		2. Check the harness between LD unit and BiCU.
		3. Check CN300 (a connector with five pins) for the polygon mirror motor from the
		PSU.
		There is no problem if your multimeter indicates 24±2V.
		4. Replace the LD unit (Polygon mirror motor).
		5. Replace the harness between the LD unit and BiCU.
		6. Replace the BiCU.
		7. Replace the fuse.
		8. Replace the PSU.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC203-	D	Polygon motor error 0: OFF timeout: Bk, Cy
01		
SC203-	D	Polygon motor error 1: OFF timeout: Ma, Ye
03		
		Polygon mirror motor cannot stop correctly.
		This SC is detected when the polygon mirror motor is deactivated.
		Polygon mirror motor failure
		Motor driver error
		Polygon mirror motor harness is defective, disconnected, or short-circuited
		BiCU failure (Incorrect polygon motor control signal, damaged Laser ASIC)

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		Defective PSU or power supply part for polygon motor
		• Fuse blown out
		Incorrect AC voltage
		1. Cycle the power OFF/ON.
		2. Check the harness between LD unit and BiCU.
		3. Check CN300 (a connector with five pins) for the polygon mirror motor from the
		PSU.
		There is no problem if your multimeter indicates 24±2V.
		4. Replace the LD unit (Polygon mirror motor).
		5. Replace the harness between the LD unit and BiCU.
		6. Replace the BiCU.
		7. Replace the fuse.
		8. Replace the PSU.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC204-	D	Polygon motor error 0: XSCRDY signal error: Bk, Cy
01		
SC204-	D	Polygon motor error 1: XSCRDY signal error: Ma, Ye
03		
		Polygon mirror motor cannot rotate correctly.
		This SC is detected when the polygon mirror motor is deactivated.
		Polygon mirror motor failure
		Motor driver error
		Polygon mirror motor harness is defective, disconnected, or short-circuited
		BiCU failure (Incorrect polygon motor control signal, damaged Laser ASIC)
		Defective PSU or power supply part for polygon motor
		Fuse blown out
		1. Cycle the power OFF/ON.
		2. Check the harness between LD unit and BiCU.
		3. Check CN300 (a connector with five pins) for the polygon mirror motor from the
		PSU.
		There is no problem if your multi meter indicates 24±2V.
		4. Replace the LD unit (Polygon mirror motor).
		5. Replace the harness between the LD unit and BiCU.
		6. Replace the BiCU.
		7. Replace the fuse.
		8. Replace the PSU.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)		
SC220-01	D	Laser synchronizing detection error: start position LD1: Bk/C		
SC220-03	D	Laser synchronizing detection error: start position LD1: M/Y		
		Synchronizing detection signal cannot be received.		
		This SC is detected when:		
		The machine starts up.		
		The machine is copying.		
		Defective LD unit (Synchronizing mechanism or LDB failure)		
		BiCU failure (Damaged laser ASIC)		
		Disconnected LDB harness		
		1. Cycle the power off/on.		
		2. Check for condensation on the LDB.		
		3. Check the harness between LDB (Synchronizing mechanism) and BiCU.		
		4. Replace the LD unit.		
		5. Replace the BiCU.		
		6. Replace the harness between LDB and BiCU.		

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
SC230-01	D	FGATE ON error: Bk	
SC230-02	D	FGATE ON error: Cy	
SC230-03	D	FGATE ON error: Ma	
SC230-04	D	FGATE ON error: Ye	
		FGATE signal cannot be received even when the laser is ready to emit.	
		This SC is detected when the machine is copying.	
		Connection error between BiCU and Controller	
		BiCU failure (Damaged laser ASIC)	
		1. Cycle the power off/on.	
		2. Check the connection between BiCU and Controller.	
		3. Replace the BiCU.	

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC231-01	D	FGATE OFF error: Bk
SC231-02	D	FGATE OFF error: Cy
SC231-03	D	FGATE OFF error: Ma
SC231-04	D	FGATE OFF error: Ye
		FGATE signal is not OFF even when the laser is ready to end.
		This SC is detected when the machine is copying.
		Connection error between BiCU and Controller

No.	Type		Details (Symptom, Possible Cause, Troubleshooting Procedures)
		•	BiCU failure (Damaged laser ASIC)
		1.	Cycle the power off/on.
		2.	Check the connection between IPU and Controller.
		3.	Replace the BiCU.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)			
SC240-01	D	LD error: Bk			
SC240-02	D	LD error: Cy			
SC240-03	D	LD error: Ma			
SC240-04	D	LD error: Ye			
		The LD current is more than the prescribed current during emitting light.			
		LD driver cannot be initialized correctly.			
		Disconnected LDB harness.			
		This SC is detected when:			
		The machine starts up.			
		The machine is copying.			
		LDB harness connection error			
		Deteriorated LD (LD broken)			
		LDB (LD driver) failure			
		LDB harness failure			
		1. Cycle the power off/on.			
		2. Check the harness between LDB and IPU.			
		3. Replace the LD unit.			
		4. Replace the harness between LDB and BiCU.			

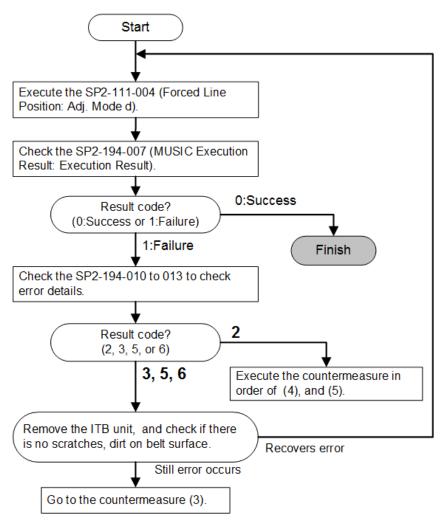
No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
SC272-01	D	LD driver communication error: Bk	
SC272-02	D	LD driver communication error: Cy	
SC272-03	D	LD driver communication error: Ma	
SC272-04	D	LD driver communication error: Ye	
		Power source for LD driver is incorrect.	
		This SC is detected when:	
		The machine starts up.	
		The machine returns from energy saver mode.	
		Covers are closed.	
		BiCU failure (LD5V Power error)	
		LDB failure (LD drive error)	

No.	Type		Details (Symptom, Possible Cause, Troubleshooting Procedures)
		• LI	DB harness failure
		• In	nterlock switch failure
		1. Cy	ycle the power off/on.
		2. Cl	heck the harness between LDB and BiCU.
		3. Re	eplace the BiCU.
		4. Re	eplace the LD unit.
		5. Re	eplace the harness between LDB and BiCU.
		6. Re	eplace the interlock switch.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC285-00	С	MUSIC error
		The results of MUSIC pattern reading failed 4 times.
		The ID sensor cannot detect the MUSIC pattern
		Color registration error is larger than the specified value
		Refer to "When SC285-00 (MUSIC error) Is Displayed"

#### When SC285-00 (MUSIC error) Is Displayed

As SC285-00 is a logging SC (SC Type C), it is not displayed at once when an error occurs. Though the equipment can be operated, check the SC history and perform a recovery operation if the SC has occurred.



If a MUSIC fail cannot be cleared, perform countermeasures from (2) to (5) in this order. If SC370 occurs when operating MUSIC, refer to the recovery procedure for the SC370.

w\_d296c6002\_en

#### Countermeasure (1): Large drifting

An abnormal value may be contained in the SP where the MUSIC corrected result is saved.

- 1. Execute SP2-180-001 (Line Pos. Adj.: Clear Color Regist.).
- 2. Execute SP2-111-004 (Forced Line Position: Adj. Mode d).
- 3. Check SP2-194-007 (MUSIC Execution Result: Execution Result).

#### Counterme asure (2): MUSIC pattern density Error

Execute MUSIC and check the result.

- 1. Execute SP3-011-001 (Manual ProCon :Exe : Normal ProCon).
- 2. Execute SP2-111-004 (Forced Line Position: Adj. Mode d).
- 3. Check SP2-194-007 (MUSIC Execution Result: Execution Result).

#### Counterme asure (3): Image transfer belt/ Image transfer unit defective

- 1. Execute SP2-112-001 (TM/ID Sensor Check: Execute).
- 2. Check SP2-112-010 (TM/ID Sensor Check: Display Result: Front-Center-Rear).

- Normal if the result is "111"
  - -->Execute other countermeasures.
- Vsg adjustment failed if the result is "2xx", "x2x", or "xx2"
  - -->Execute recovery operation for SC370
- There is a high probability that contaminants, scars, or irregularities may exist on the belt if the result is "3xx", "x3x", or "xx3"
  - -->Execute the following procedure;
- 1. Remove the ITB unit, and check for abnormalities such as contaminants or scars, and set it after cleaning.
- 2. Execute SP2-111-004 (Forced Line Position: Adj. Mode d).
- 3. Check SP2-194-007 (MUSIC Execution Result: Execution Result).
- 4. If it fails, replace the ITB unit.
- There is a high probability that contaminants or curl may exist on the belt if the result is "5xx", "6xx", "7xx", "8xx", "x5x", "x6x", "x7x", "x8x", "xx5", "xx6", "xx7", or "xx8".
  - --> Execute the following procedure
- 1. Remove the ITB unit, and check for abnormalities such as contaminants or scars, and set it after cleaning.
- 2. Execute SP2-111-004 (Forced Line Position: Adj. Mode d).
- 3. Check SP2-194-007 (MUSIC Execution Result: Execution Result).
- 4. If it fails, replace the ITB unit.

#### Counterme asure (4): ID sensor defective

Follow the next step if executing SP2-111-004 (Forced Line Position: Adj. Mode d) and SP2-194-007 (MUSIC Execution Result: Execution Result) fails.

- 1. Clean the ID Sensor.
- 2. Check the harness and connector for ID sensor.
- 3. Replace the ID sensor.
- 4. Replace the BiCU.

#### Counterme asure (5): ID Sensor Shutter Defective

Check if there is no problem concerning the mechanism (interference or deformation).

- 1. Execute SP5-804-021 (OUTPUT Check: TM sensor Shutter Solenoid) to operate the ID sensor shutter solenoid to check opening/closing of the shutter.
- 2. Check for a broken harness or connector disconnection.
- 3. If the problem cannot be solved, replace the BiCU.

## SC3xx: Image Processing

### **Image Processing 1: Charge and Development**

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC312-	D	Charge roller feed back voltage error: Bk
01		
SC312-	D	Charge roller feed back voltage error: Cy
02		
SC312-	D	Charge roller feed back voltage error: Ma
03		
SC312-	D	Charge roller feed back voltage error: Ye
04		
		The feedback voltage of the charge AC for each color is 0.15V or less for consecutive 200ms
		after the charge AC is activated in the standard or half line speed.
		Disconnected/incorrect harness for the power pack
		Damaged/incorrect PCU
		Power pack failure
		Disconnected harness/connector
		Troubleshooting procedure:
		1. Check the drum condition:
		Check the terminal to see if there is dust, damage, or deformation. Check the continuity
		as well.
		If not good, replace the PCDU. If the SC reoccurs, go to the next step.
		2. Check all the related connectors are firmly connected:
		If not good, reconnect the connector. Check if the SC reoccurs by cycling the power
		off/on. If the SC reoccurs, go to the next step.
		3. Check the mainframe condition:
		Check if there is dust on the terminal for charging, or any damage/deformation. Check
		the continuity between the power packs and charging terminal.
		If the SC reoccurs, go to the next step.
		4. Check the power pack:
		Try installing a new power pack to determine whether the power pack is the cause. If
		the SC does not occur with the new one, the old power pack was defective.
		5. Replace the BiCU.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC325-	D	Development motor (CMY) error
00		The motor LOCK signal is detected for more than 2 seconds while the motor START signal
		is ON.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		PCDU overload
		Defective the motor
		Replace the PCDU.
		Replace the development motor (CMY).

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC325-	D	Development motor (CMY) error (When motor is deactivated)
01		The motor LOCK signal is not detected for more than 2 seconds while the motor START
		signal is OFF.
		Defective development motor (CMY)
		Disconnected harness for the motor
		Defective BiCU
		Replace the development motor (CMY).
		Replace the harness for the development motor (CMY).
		Replace the BiCU.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC396-	D	Drum motor (K) error
00		
SC397-	D	Drum motor (CMY) error
00		
		The motor LOCK signal is detected for more than 2 seconds while the motor START signal
		is ON.
		PCDU overload
		Drum motor (K) failure (SC396)
		Drum motor (CMY) failure (SC397)
		Replace the PCDU.
		Replace the drum motor (K) (SC396)
		Replace the drum motor (CMY) (SC397)

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC396-	D	Drum motor (K) error (When motor is deactivated)
01		
SC397-	D	Drum motor (CMY) error (When motor is deactivated)
01		
		The motor LOCK signal is not detected for more than 2 seconds while the motor START
		signal is OFF.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		• Drum motor (K) failure (SC396)
		• Drum motor (CMY) failure (SC397)
		Disconnected harness for the drum motor
		Defective BiCU
		PCDU torque increased
		• Replace the drum motor (K) (SC396)
		• Replace the drum motor (CMY) (SC397)
		Reconnect the connector for the drum motor.
		Replace the harness for the drum motor.
		• Replace the BiCU.
		Replace the PCDU.

### **Image Processing 2: Drum**

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC360-	D	TD sensor (Vt high) error 1: Bk
01		
SC360-	D	TD sensor (Vt high) error 1: Cy
02		
SC360-	D	TD sensor (Vt high) error 1: Ma
03		
SC360-	D	TD sensor (Vt high) error 1: Ye
04		
		• $\mu$ count is higher than the threshold which detects no developer
		$\bullet$ $\mu$ count is lower than the upper/lower target thresholds three consecutive times.
		• TD sensor (mu sensor, $\mu$ sensor) failure
		Harness loose or disconnected
		An old PCDU may be installed
		Troubleshooting procedure:
		1. Check all the related connecters are connected.
		If not good, reconnect the connectors. Check if the SC reoccurs by cycling the power
		off/on. If the SC reoccurs, go to next step.
		2. Check the development unit (e.g. Gear/harness disconnected? Heat protection seal
		removed? Using an old PCDU?).
		If not good, replace the development unit. If the SC reoccurs, go to the next step.
		3. Check whether the TD sensor is deformed, scratched, damaged or has dust
		sticking to it.
		If not good, replace the PCDU. If the SC reoccurs, go to the next step.
		4. Check the TD sensor harnesses, and the harness between the mainframe and

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		PCDU.
		If not good, replace the harness. If the SC reoccurs, go to the next step.
		5. Replace the BiCU.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC361-	D	TD sensor (Vt) upper limit error: Bk
01		12 sensor (vi) apper mine error. En
SC361-	D	TD sensor (Vt) upper limit error 1: Cy
02		12 sensor (10) apper mine office 1. Cy
SC361-	D	TD sensor (Vt) upper limit error 1: Ma
03		
SC361-	D	TD sensor (Vt) upper limit error 1: Ye
04		
		The machine detects that Vt (TD sensor output, SP3-210-001) is higher than the upper limit
		threshold for the specified consecutive times.
		TD sensor connector is disconnected
		To check if the issue is resolved:
		1. Cycle the power off/on.
		2. Feed one sheet of paper.
		3. Check Vt with SP3-210-001 through -004.
		4. Check if Vt is higher than the upper threshold (specified in SP3-211-002).
		Incorrect: Vt is higher than the upper threshold
		Correct: Vt is equal to or lower than the upper threshold
		Troubleshooting procedure:
		1. Check all the connectors are firmly connected.
		If not, reconnect the connectors. Check if the SC reoccurs by cycling the power off/on.
		If the SC reoccurs, go to the next step.
		2. Check the development unit (e.g. Gear/harness disconnected? Heat protection seal
		removed? Using an old PCDU?).
		If not good, replace the PCDU. If the SC reoccurs, go to the next step.
		3. Check the TD sensor.
		If not good, replace the TD sensor. If the SC reoccurs, go to the next step.
		4. Check the parameters (e.g. SP3-030-061 through -064 should be changed from its
		initial value, but could be not changed due to possible NVRAM clearing).
		If not good, replace the PCDU and initialize the developer. This corrects the TD sensor
		settings.
		5. Check the toner supply unit, especially if the image density is too low.
		If the toner bottle is empty, the toner supply route is clogged, and/or the toner supply

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		motor operates incorrectly, then correct the problem. If the SC reoccurs, go to the next
		step.
		6. Check the harness connection.
		If not good, replace the harness between BiCU and PCDU.
		7. Replace the BiCU.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC362-01	D	TD sensor (Vt) lower limit error: Bk
SC362-02	D	TD sensor (Vt) lower limit error 1: Cy
SC362-03	D	TD sensor (Vt) lower limit error 1: Ma
SC362-04	D	TD sensor (Vt) lower limit error 1: Ye
		The value of Vt (SP3-210-003) is lower than the threshold for times specified.
		TD sensor connector is disconnected.
		Check the connection of the TD sensor connector.
		Check if the TD sensor harness is connected firmly.
		Replace the TD sensor if any abnormality is found.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC370-	D	ID sensor calibration error
00		The reflection light output voltage of the ID sensor (Vsg_reg) is not adjusted within the
		target range.
		Upper limit: Default: 4.5 V
		Lower limit: Default: 3.5 V
		Disconnected ID sensor connectors
		Dirty or defective ID sensor
		Defective image transfer belt
		To check if the issue is resolved:
		• Do Vsg adjustment (SP3-320).
		• Check the result in SP3-323-001.
		Correct: The result is "1"
		Incorrect: The result is not "1"
		Troubleshooting procedure:
		1. Check all the connectors are firmly connected.
		If not, reconnect the connectors. Check if the SC reoccurs by cycling the power off/on.
		If the SC reoccurs, go to the next step.
		2. Clean the detecting part of the ID sensor

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		Note
		• Do not wipe with a dry cloth.
		If the SC reoccurs, go to the next step.
		3. Check the ID sensor shutter.
		If the shutter does not move correctly, replace the shutter solenoid. If the SC reoccurs,
		go to the next step.
		4. Replace the drum and/or ITB if the following is found:
		Scratches, toner filming, wavy belt, or insufficient cleaning
		5. Replace the ID sensor.
		If the SC reoccurs, go to the next step.
		6. Check and connect the related harness if it is disconnected.
		7. Replace the BiCU.

# **SC4xx: Image Processing**

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC442-	D	Image transfer belt contact motor error
00		ITB contact HP sensor cannot detect the sensor feeler condition within a specified time even
		when the ITB contact motor rotates.
		• Contact/Release: 5 sec.
		• Homing: 10 sec.
		• Sampling interval: 0.01 sec.
		Broken harness or defective connectors
		Disconnected connector of ITB contact sensor or motor
		Defective ITB contact motor
		Image transfer belt unit not installed
		1. Set the ITB unit firmly.
		2. Replace the ITB unit.
		3. Clean the ITB contact HP sensor.
		4. Check the harnesses.
		5. Replace the ITB contact HP sensor.
		6. Replace the ITB contact motor.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC491-	С	High voltage power: Charge/Development bias output error
00		Incorrect PWM signal is detected 10 times for consecutive 0.02 sec.
		Hardware related causes:
		Contact failure
		Loose connector (Controller side)
		Grounding, open-circuit in the high voltage route
		Arc discharge due to lack of space
		Shorted harness (Controller side)
		BiCU malfunction (Signal error)
		Power pack (Development/Transfer) failure
		Load related causes:
		Short-circuit
		Arc discharge due to lack of space
		Deteriorated drum (overcurrent)
		Condensated drum (overcurrent)
		Incorrect gap between drum and charge roller (incorrect PCDU)
		PCDU not installed firmly
		First, cycle the main power off/on to check if this SC occurs again.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)		
		If this SC reoccurs, do the following:		
		1. Remove and install the PCDU again to make sure that the PCDU is firmly set. Cycle the		
		main power off/on to check if this SC occurs again. If the SC occurs again, go to the		
		next step.		
		2. Check if there are scratches on the drum surface. If you can see the internal element of		
		the drum (plain pipe) on the surface, go to the next step, because too much electricity		
		can flow at this point, which caused the SC.		
		3. Replace the PCDU and cycle the main power off/on to check if this SC occurs again.		
		4. Reconnect the connector (CN561) on the BiCU and cycle the main power off/on. Be		
		careful not to bend the connector pins when reconnecting. If the SC occurs again, go to		
		the next step.		
		5. Reconnect the connector (CN801) on the power pack (charge/development) and cycle		
		the main power off/on. If the SC occurs again, go to the next step.		
		6. Remove and install the power pack (charge/development) again and cycle the main		
		power off/on. Check if the spring near the power pack terminal bends and comes in		
		contact with other contacts. Cycle the main power off/on to check if this SC occurs		
		again.		
		7. Replace the power pack (charge/development) and cycle the main power off/on to check		
		if the SC occurs again.		
		8. Replace the BiCU and cycle the main power off/on to check if the SC occurs again.		
		9. Make sure that the harnesses on the power pack (charge/development) are not shorted.		
		If not good, replace the harness and cycle the main power off/on.		

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC492-00	C	High voltage power: Transfer bias output error
		Incorrect PWM signal is detected for 0.2 sec.
		Hardware related causes:
		Contact failure
		Loose connector (Controller side)
		Grounding, open-circuit in the high voltage route
		Shorted harness (Controller side)
		BiCU malfunction (Signal error)
		Power pack (Transfer) failure
		Load related causes:
		Increased impedance in the paper transfer roller
		Increased impedance in the ITB
		Open-circuit
		Transfer unit not installed firmly

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		This is a logging SC (No action required).

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC497-	С	Image creation temperature sensor error
00		The thermistor output of the temperature sensor is not within the prescribed range (more
		than 0.5 V to less than 3.0 V).
		Damaged or loose connector
		Defective Image creation temperature sensor
		Cycle the main power off/on to check if this SC occurs again.
		If this SC reoccurs, do the following:
		1. Reconnect all the related connectors, and cycle the main power off/on to check if the
		SC reoccurs.
		2. Replace the image creation temperature sensor, and cycle the main power off/on to
		check if the SC reoccurs.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC498-	C	Temperature/humidity sensor error
00		<ul> <li>The thermistor output of the temperature sensor is not within the prescribed range (more than 3.0V to less than 0.5V.</li> <li>The thermistor output of the humidity sensor is not within the prescribed range (2.4V or more).</li> </ul>
		<ul> <li>Damaged or loose connector</li> <li>Defective temperature/humidity sensor</li> </ul>
		Cycle the main power off/on to check if this SC occurs again.
		If this SC reoccurs, do the following:
		1. Reconnect all the related connectors, and cycle the main power off/on to check if the
		SC reoccurs.
		2. Replace the temperature/humidity sensor, and cycle the main power off/on to check if
		the SC reoccurs.

## SC5xx: Paper Feed and Fusing

## Paper feed

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC501-	В	1st paper tray lift motor malfunction
00		This SC occurs if no paper is detected within the prescribed time when the tray is set
		correctly, and the tray lift motor starts rotating CW or CCW.
		Incorrect/disconnected tray lift motor connector
		Loose, disconnected or damaged tray lift sensor connector
		An obstruction such as jammed paper scraps blocks the motor operation
		Replace the transport motor.
		2. Reconnect the connector.
		3. Replace the harness.
		4. Replace the BiCU.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC502- 00	В	2nd paper tray lift motor malfunction (optional paper feed unit)
SC503- 00	В	3rd paper tray lift motor malfunction (optional paper feed unit)
		When the tray is lifted up, the tray lift motor error, or sensor error is detected.
		PFU tray lift motor disconnection or loose harness
		PFU tray lift sensor disconnection or loose harness
		PFU Tray bottom plate HP sensor disconnection or loose harness
		Other defective mechanical parts
		Do the following steps. Cycle the power off/on after doing each step to check if the SC
		occurs.
		1. Reconnect the connector of the PFU tray bottom plate HP sensor.
		2. Reconnect the connector of the PFU tray lift sensor.
		3. Replace the lift lever encoder, gear encoder for tray lift unit ('rising unit' in the parts
		catalog), and the tension spring for paper feed.
		4. Replace the PFU tray lift motor.
		5. Replace the harness.
		6. Replace the board in the tray.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC508-	В	Bypass bottom plate error
00		The signal from the bypass lift sensor does not change for two seconds after the bypass lift
		clutch was activated.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		If this condition occurs three consecutive times, this SC is generated.
		Disconnected or defective connectors of the bypass lift clutch
		Disconnected or defective bypass lift sensor
		Defective bypass bottom plate detection filler
		1. Check or replace the connectors of the bypass lift clutch.
		2. Check or replace the bypass lift sensor.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC524-00	D	Transport motor error
		The motor LOCK signal is detected for more than 2 seconds while the motor is ON.
		Paper transport unit overload
		Defective transport motor
		1. Replace the paper transport unit.
		2. Replace the transport motor.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC524-01	D	Transport motor error (While the motor is OFF)
		The motor LOCK signal is not detected for more than 2 seconds while the motor is OFF.
		Defective transport motor
		Disconnected harness for the motor
		Defective BiCU
		1. Replace the transport motor.
		2. Replace the harness for transport motor.
		3. Replace the BiCU.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC525-00	В	Transport motor error: bank 1
		The motor LOCK signal from a bank 1 is detected while the motor is ON.
SC526-00	В	Transport motor error: bank 2
		The motor LOCK signal from a bank 1 is detected while the motor is ON.
		Motor overload
		Defective motor
		Disconnected connectors
		Damaged harness
		Do the following steps. Check if the SC reoccurs by cycling the power after each step.
		1. Reconnect the connector.
		2. Replace the harness.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		3. Replace the transport motor.

## **Fusing**

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC530-	D	Fusing heater exhaust fan motor error
00		
SC531-	D	Development cooling fan motor error
00		
SC532-	D	Writing cooling fan motor error
00		
SC533-	D	PSU fan motor error
00		
		The motor LOCK signal is detected 50 consecutive times (for 5 seconds) while the motor is
		ON.
		Defective fan motor
		Disconnected harness
		Defective BiCU
		1. Replace the fan motor.
		2. Replace the harness.
		3. Replace the BiCU.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC530-	D	Fusing heater exhaust fan motor error (While the motor is OFF)
01		
SC531-	D	Development cooling fan motor error (While the motor is OFF)
01		
SC532-	D	Writing cooling fan motor error (While the motor is OFF)
01		
SC533-	D	PSU fan motor error (While the motor is OFF)
01		
		The motor LOCK signal is not detected 140 consecutive times (for 14 seconds) while the
		motor is OFF.
		Defective fan motor
		Disconnected or defective harness
		Defective BiCU
		1. Replace the fan motor.
		2. Check or replace the harness.
		3. Replace the BiCU.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC540-00	D	Fusing motor error
		The motor LOCK signal is detected for 2 seconds while the motor is ON.
		Defective motor
		Disconnected or defective harness
		Defective BiCU
		Fusing unit torque increased
		1. Replace the fusing motor.
		2. Check or replace the harness.
		3. Replace the BiCU.
		4. Replace the fusing unit.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC540-01	D	Fusing motor error (While the motor is OFF)
		The motor LOCK signal is not detected for 2 seconds while the motor is OFF.
		Defective motor
		Defective harness
		Defective BiCU
		1. Replace the fusing motor.
		2. Replace the harness.
		3. Replace the BiCU.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC541-	A	Fusing thermopile error
01		
SC541-	D	Fusing thermopile error (Low power)
11		
		The machine detects the value of AD is the prescribed value for 0.2 consecutive seconds
		after the fusing lamp is activated.
		Broken thermopile
		Connector contact failure
		1. Reconnect the connector between the fusing unit and the BiCU.
		2. Replace the fusing thermopile
		3. Replace the harness between the fusing unit and the BiCU.
		4. Replace the BiCU.
		5. Replace the PSU (AC).

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC542-	A	Fusing thermopile reload error
02		Fusing temperature failed to reach a temperature of 80 degrees C after passing seven
		seconds when:
		The machine starts warming up.
		The machine returns from energy saver mode.
		The fusing lamp is activated.
SC542-	A	Fusing thermopile reload error
03		Fusing temperature failed to reach the reload permit temperature after passing eight
		seconds when:
		The machine starts warming up.
		The machine returns from energy saver mode.
		The fusing lamp is activated.
		Dirty or deformed thermopile lenses
		Input voltage out of specification (out of warranty)
		Fuse blown out
		1. Check the power supply voltage (Reconnect the power cord).
		2. Check and clean the thermopile lenses or replace the fusing thermopile.
		3. Replace the fusing unit.
		4. Replace the BiCU.
		5. Replace the PSU (AC).

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC542-	D	Fusing thermopile cannot reload (low power)
12		Fusing temperature failed to reach a temperature of 80 degrees C after passing seven
		seconds when:
		The machine starts warming up.
		The machine returns from energy saver mode.
		• The fusing lamp is activated.
SC542-	D	Fusing thermopile cannot reload (low power)
13		Fusing temperature failed to reach the reload permit temperature after passing eight
		seconds when:
		• The machine starts warming up.
		The machine returns from energy saver mode.
		• The fusing lamp is activated.
		Dirty or defective thermopile lenses
		Thermopile modification/float
		• Input voltage out of specification (out of warranty)

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		Thermostat blown out.
		1. Check the power supply voltage (Reconnect the power cord).
		2. Check and clean the thermopile lenses or replace the fusing thermopile.
		3. Replace the fusing unit.
		4. Replace the BiCU.
		5. Replace the PSU (AC).

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC543-	A	Fusing thermopile overheat (software error)
00		Fusing thermopile detects a temperature of 240 degrees C or more for 10 seconds after the
		relay is activated.
		Triac short
		Defective BiCU
		1. Reconnect the connector between the fusing unit and BiCU.
		2. Replace the fusing thermopile.
		3. Replace the harness between the fusing unit and BiCU.
		4. Replace the BiCU.
		5. Replace the PSU (AC).
		6. Replace the fusing unit (if the problem cannot be resolved).

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC544-	A	Fusing thermopile overheat (hardware error)
00		Fusing thermopile detects a temperature of 250 degrees C.
		Triac short
		Defective BiCU
		Defective fusing control system
		Basically, the entire fusing unit must be replaced when SC554-00 occurs. For details, refer
		to "Actions When SC544-00 or SC554-00 Occurs."
		Do the following steps:
		1. Inspect the fusing sleeve belt unit, and replace if damaged.
		2. Reconnect the connector between the fusing unit and BiCU.
		3. Replace the fusing thermopile.
		4. Replace the harness between the fusing unit and BiCU.
		5. Replace the BiCU.
		6. Replace the PSU (AC).

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC545-01	A	Fusing lamp consecutive full power
SC545-11	D	Fusing lamp consecutive full power (low power)
		Fusing lamp runs at full power for consecutive four seconds after reloading the machine
		Defective thermistor
		Broken fusing lamp
		Thermostat blown out.
		1. Check there is paper remaining in the fusing unit.
		2. Check the power supply voltage (Reconnect the power cord).
		3. Replace the fusing lamp.
		4. Replace the fusing thermopile.
		5. Replace the BiCU.
		6. Replace the PSU (AC)

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC547-	D	Zero cross error: fusing lamp relay contact welding
01		Zero cross signal is detected when the fusing relay is deactivated.
		This SC is detected when:
		The main power is turned on.
		The machine returns from the engine-off mode.
		The interlock switch is deactivated.
		Damaged fusing relay
		Fusing relay drive circuit failure
		1. Make sure that the harness between the PSC (AC) and BiCU is firmly connected.
		2. Replace the PSU (AC).
		3. Replace the BiCU.
SC547-	D	Zero cross error: fusing lamp relay contact defective
02		Zero cross signal cannot be detected if the fusing relay is activated.
		This SC is detected when:
		The main power is turned on.
		The machine returns from the engine-off mode.
		The interlock switch is turned off or on.
		Broken fusing relay (open circuit)
		Fusing relay circuit failure
		PSU fuse (24VS) worn out
		1. Make sure that the harness between the PSU (AC) and BiCU is firmly connected.
		2. Replace the PSU (AC).
		3. Replace the BiCU.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		4. Replace the harness between the PSU (AC) and BiCU.
SC547-	D	Zero cross error: low frequencies error
03		The frequency of the power source is lower than 44Hz.
		This SC is detected when the main power is ON.
		Unstable frequency
		1. Check the frequency is 45Hz or more.
		If not, the power supply from the wall socket may be the cause. Ask for your
		supervisor or the electrician in charge at the site.
		2. Replace the PSU (AC).

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC549-	D	Fusing Center Low Temperature
00		After passing 60 seconds when FGATE is ON, thermopile detects a temperature of -100
		degrees C from the compensated target temperature for consecutive 60 seconds.
		Fusing lamp disconnection during paper passing
		• Loose connector
		1. Check the input voltage and reconnect the power cord.
		2. Replace the fusing lamp.
		3. Replace the fusing thermopile
		4. Replace the BiCU.
		5. Replace the PSU (AC).

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC554-	A	Fusing thermistor (NC sensor) detects high temperature (Hard)
00		Fusing thermistor (NC sensor) detects a temperature of 250 degrees C
		Shorted triac
		Defective BiCU
		Defective fusing control system
		Basically, the entire fusing unit must be replaced when SC554-00 occurs. For details, refer
		to "Actions When SC544-00 or SC554-00 Occurs."
		Do the following steps:
		1. Inspect the fusing sleeve belt unit, and replace if damaged.
		2. Reconnect the connector between the fusing unit and the BiCU.
		3. Replace the fusing thermistor.
		4. Replace the harness between the fusing unit and the BiCU.
		5. Replace the BiCU.
		6. Replace the PSU (AC).

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC557-	С	Zero cross frequency error
00		The frequency of the power source is 66Hz or more. This SC is detected just after the main
		power is turned ON.
		Noise (High frequency)
		Defective PSU
		1. Check the power supply source.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC559-	A	Consecutive fusing jam
00		The paper jam counter for the fusing unit reaches three consecutive times (the fusing exit
		sensor does not detect the paper).
		Paper jam in the fusing unit.
		Replace the separation plate.
		2. Replace the gear (fusing unit).
		3. Replace the fusing unit.
		4. Replace the fusing motor.
		5. Replace the gear (mainframe), if damaged.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC561-	A	Pressure roller thermistor (center) disconnection
01		
SC561-	A	Pressure roller thermistor (center) disconnection (low power)
11		
		Pressure roller thermistor (center) detects a temperature of -20 degrees C for 20 consecutive
		seconds after the fusing lamp is activated when the machine starts, or during feeding paper
		or in low power.
		Thermistor disconnection
		Loose connector
		1. Reconnect the connectors between the fusing drawer connector, the BiCU, and the
		pressure roller thermistor.
		2. Replace the thermistor.
		3. Replace the fusing unit.
		4. Replace the harnesses between the BiCU and the fusing unit.
		5. Replace the BiCU.
		6. Replace the PSU (AC).

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC562-	A	Pressure roller thermistor (center) cannot be reloaded
02		
SC562-	A	Pressure roller thermistor (center) cannot be reloaded (low power)
12		
		Pressure roller thermistor (center) detects that the temperature does not reach a temperature
		of 40 degrees C for 25 consecutive seconds when the main power is turned on.
		Dirty or deformed thermistor
		• Input voltage out of specification (out of warranty)
		Thermostat blown out
		1. Check the input voltage and reconnect the power cord.
		2. Replace the fusing thermostat.
		3. Replace the fusing lamp.
		4. Replace the thermistor.
		5. Replace the BiCU.
		6. Replace the PSU (AC).

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC563-	A	Pressure roller overheat (software error): Center
00		Pressure roller thermistor (center) detects a temperature of 248 degrees C 10 times after the
		fusing relay is ON.
		Shorted triac
		Defective BiCU
		1. Reconnect the connectors between the fusing drawer connector, BiCU, and the
		pressure roller thermistor.
		2. Replace the thermistor.
		3. Replace the harnesses between the BiCU and pressure roller thermistor.
		4. Replace the BiCU.
		5. Replace the fusing unit if all the above steps cannot resolve the issue.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC564-	A	Pressure roller overheat (hardware error): Center
00		Pressure roller thermistor (center) detects a temperature of 248 degrees C.
		Shorted triac
		Defective BiCU
		Defective fusing control system
		1. Reconnect the connectors between the fusing drawer connector, BiCU, and the
		pressure roller thermistor.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		2. Replace the thermistor.
		3. Replace the harnesses between the BiCU and pressure roller thermistor.
		4. Replace the BiCU.
		5. Replace the fusing unit if all the above steps cannot resolve the issue.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC571-	A	Pressure roller thermistor (rear) disconnection
01		
SC571-	A	Pressure roller thermistor (rear) disconnection (low power)
11		Pressure roller thermistor (rear) detects a temperature of -20 degrees C or less for 20
		consecutive seconds after the fusing lamp is activated in a specified condition.
		Thermistor disconnection
		Loose connector
		1. Check the input voltage and reconnect the power cord.
		2. Reconnect the connectors between the fusing drawer connector, the BiCU, and the
		pressure roller thermistor.
		3. Replace the thermistor.
		4. Replace the fusing unit.
		5. Replace the harnesses between the BiCU and the fusing unit.
		6. Replace the BiCU.
		7. Replace the PSU (AC).

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC572-	A	Pressure roller thermistor (rear) cannot be reloaded
02		
SC572-	D	Pressure roller thermistor (rear) cannot be reloaded (low power)
12		
		Fusing temperature failed to reach a temperature of 50 degrees C when 100 seconds passes
		after starting a job where the paper width is wider than 206 mm AND is equal or smaller
		than 216 mm.
		Dirty or deformed thermistor
		• Input voltage out of specification (out of warranty)
		Thermostat blown out
		1. Check the input voltage and reconnect the power cord.
		2. Replace the fusing thermostat.
		3. Replace the fusing lamp.
		4. Replace the thermistor.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		5. Replace the BiCU.
		6. Replace the PSU (AC).

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)			
SC573-	A	Pressure roller overheat (rear) (software error)			
00		Pressure roller thermistor (rear) detects a temperature of 248 degrees C for 10 consecutive			
		times in a specific machine condition.			
		Shorted triac			
		Defective BiCU			
		1. Reconnect the connectors between the fusing drawer connector, the BiCU, and the			
		pressure roller thermistor.			
		2. Replace the thermistor.			
		3. Replace the harnesses between the BiCU and the pressure roller thermistor.			
		4. Replace the BiCU.			
		• Replace the fusing unit if all the above steps cannot resolve the issue.			

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
SC574-	A	Pressure roller (rear) overheat (hardware error)	
00		Pressure roller thermistor (rear) detects a temperature of 248 degrees C.	
		Shorted triac	
		Defective BiCU	
		Defective fusing control system	
		1. Reconnect the connectors between the fusing drawer connector, the BiCU, and the	
		pressure roller thermistor.	
		2. Replace the thermistor.	
		3. Replace the harnesses between the BiCU and the pressure roller thermistor.	
		4. Replace the BiCU.	
		Replace the fusing unit if all the above steps cannot resolve the issue.	

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC581-	A	Fusing thermistor disconnection
01		
SC581-	A	Shorted fusing thermistor
02		
SC581-	D	Fusing thermistor disconnection (low power)
11		
SC581-	D	Shorted fusing thermistor (low power)

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
12		
		The machine detects the value of AD is the prescribed value for 0.2 consecutive seconds
		after the fusing lamp is activated
		• Thermopile disconnection (SC581-01)
		• Shorted fusing thermistor (SC581-02)
		• Loose connector
		1. Check the input voltage and replace the power plug (SC581-11/-12).
		2. Reconnect the connectors between the fusing unit, fusing drawer connector, and BiCU.
		3. Replace the fusing thermistor.
		4. Replace the fusing unit.
		5. Replace the harnesses between the BiCU and the fusing drawer connector.
		6. Replace the BiCU.
		7. Replace the PSU (AC).

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)				
SC591-	A	Pressure roller thermistor (front) disconnection				
01						
SC591-	D	Pressure roller thermistor (front) disconnection (low power)				
11						
		Pressure roller thermistor (front) detects a temperature of -20 degrees C or less for 20				
		consecutive seconds when the fusing lamp is activated.				
		Thermistor disconnection				
		• Loose connector				
		1. Reconnect the connectors between the fusing unit, fusing drawer connector, and BiCU.				
		2. Replace the thermistor.				
		3. Replace the fusing unit.				
		4. Replace the harnesses between the BiCU and the fusing drawer connector.				
		5. Replace the BiCU.				
		6. Replace the PSU (AC).				

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
SC592-	A	ressure roller thermistor (front) cannot be reloaded	
02			
SC592-	D	Pressure roller thermistor (front) cannot be reloaded (low power)	
12			
		The machine temperature does not reach a temperature of 50 degrees C when 100 seconds	
		passes after starting a job where the paper width is wider than 206 mm AND is equal or	

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
		smaller than 216 mm.	
		Dirty or deformed thermistor	
		• Input voltage out of specification (out of warranty)	
		Thermostat blown out	
		1. Check the input voltage and replace the power plug.	
		2. Replace the fusing thermostat	
		3. Replace the fusing lamp.	
		4. Replace the thermistor.	
		5. Replace the BiCU.	
		6. Replace the PSU (AC).	

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)		
SC593-	A	Pressure roller thermistor (front) high temperature (software error)		
00		Pressure roller thermistor (front) detects a temperature of 248 degrees C for consecutive 10		
		times when the fusing lamp is activated.		
		Shorted triac		
		Defective BiCU		
		<ol> <li>Reconnect the connectors between the fusing unit, fusing drawer connector, and BiCU.</li> <li>Replace the thermistor.</li> </ol>		
		3. Replace the harnesses between the BiCU and the fusing drawer connector.		
		4. Replace the BiCU.		
		Replace the fusing unit if all the above steps cannot resolve the issue.		

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
SC594-	A	Pressure roller thermistor (front) high temperature (hardware error)	
00		Pressure roller thermistor (front) detects a temperature of 248 degrees C.	
		Shorted triac	
		Defective BiCU	
		Defective fusing control system	
		Reconnect the connectors between the fusing unit, fusing drawer connector, and	
		BiCU.	
		2. Replace the thermistor.	
		3. Replace the harnesses between the BiCU and the fusing drawer connector.	
		4. Replace the BiCU.	
		Replace the fusing unit if all the above steps cannot resolve the issue.	

## **SC6xx:** Communication

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)		
SC622-	D	1st paper tray communication error		
00		While the BiCU communicates with an optional unit, an SC code is displayed if one of		
		following conditions occurs.		
		• The BiCU receives the break signal which is generated by the peripherals only just		
		after the main power is turned on.		
		• When the BiCU does not receive an OK signal from a PFU 100ms after sending a		
		command to it.  • Defective the PFU controller board		
		Defective the BiCU		
		Loose or disconnected connector		
		Replace the PFU controller board (1st paper tray).		
		Replace the BiCU.		
		Set the 1st paper tray again.		

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
SC623-	D	2nd paper tray communication error	
00		This SC is not issued for this machine.	
		When a communication error signal between the 1st paper tray and 2nd paper tray is	
		received.	
		<ul> <li>Loose or disconnected connector</li> <li>Defective PFU controller board</li> <li>Replace the PFU controller board (2nd paper tray).</li> </ul>	
		• Replace the PFU controller board (1st paper tray).	
		• Set the 1st and 2nd paper tray again.	

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC636-02	D	IC card error (Version error)
		The version of the expanded authentication module is not correct.
		Incorrect module version
		Install the correct file of the expanded authentication module.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC637-01	D	Tracking Information notification error (Tracking application error)
		Tracking information was lost.
		Tracking SDK application error
		Internal notification error

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		Cycle the main power off and on.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC637-02	D	Tracking Information notification error (Management server error)
		Tracking information was lost.
		Communication with tracking management server failed.
		Network error
		tracking management server error
		Tracking SDK application error
		Cycle the main power off and on.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC641-00	D	Communication error between engine and controller
		Although frame is sent from controller, engine does not reply to it.
		Controller Board soft error
		BiCU soft error
		BiCU and controller board connection error
		Cycle the main power off and on.
		Check the connection between the BiCU and the controller board.

### SC645-01-04

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC650-	С	Remote service modem communication error (Dialup authentication failure)
01		• An error related to communication (dialup connection, modem board etc.) using the RC
		Gate Type M was detected or an error that prevents RC Gate operation was detected at
		power on.
		Displayed only when an error is detected while RC Gate is operating.
		SC is not issued if an error occurs during RC Gate installation (because it can be
		referenced using SP).
		SP settings invalid
		Modem connector disconnected
		Modem board disconnected
		Wireless LAN card disconnected
		Check the following SPs.
		SP5-816-156 (Remote Service: Dial Up User Name)
		SP5-816-157 (Remote Service: Dial Up Password)

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
SC650-	С	Remote Service Modem Communication Error (dialup failing because of incorrect modem	
04		configuration)	
		• An error related to communication (dialup connection, modem board etc.) using the RC	
		Gate Type M was detected or an error that prevents RC Gate operation was detected at	
		power on.	
		Displayed only when an error is detected while RC Gate is operating.	
		SC is not issued if an error occurs during RC Gate installation (because it can be	
		referenced using SP).	
		SP settings invalid	
		Modem connector disconnected	
		Modem board disconnected	
		Wireless LAN card disconnected	
		Software bug.	

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC650-	С	Remote Service Modem Communication Error (insufficient current or connection fault)
05		• An error related to communication (dialup connection, modem board etc.) using the RC
		Gate Type M was detected or an error that prevents RC Gate operation was detected at
		power on.
		Displayed only when an error is detected while RC Gate is operating.
		SC is not issued if an error occurs during RC Gate installation (because it can be
		referenced using SP).
		SP settings invalid
		Modem connector disconnected
		Modem board disconnected
		Wireless LAN card disconnected
		The line is not supported and nothing can be done.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC650-	С	Remote Service Modem Communication Error (RC Gate Type M was installed but modem
13		is not present (detected during operation))
		An error related to communication (dialup connection, modem board etc.) using the RC
		Gate Type M was detected or an error that prevents RC Gate operation was detected at
		power on.
		Displayed only when an error is detected while RC Gate is operating.
		SC is not issued if an error occurs during RC Gate installation (because this error can be
		referred by using SP).

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		SP settings invalid
		Modem connector disconnected
		Modem board disconnected
		Wireless LAN card disconnected
		If a modem board is not installed, install it.
		• Check again if the modem driver configurations (SP5-816-160, SP5-816-165 to 171,
		and SP5-816-165 to 171) are correct.
		• If the problem is not solved, replace the modem.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC650-	С	Remote Service Modem Communication Error (RC Gate Type N was installed but modem is
14		present or wired/wireless LAN is not working correctly)
		• An error related to communication (dialup connection, modem board etc.) using the RC
		Gate was detected or an error that prevents RC Gate operation was detected at power
		on.
		Displayed only when an error is detected while RC Gate is operating.
		SC is not issued if an error occurs during RC Gate installation (because this error can be
		referred by using SP).
		SP settings invalid
		Modem connector disconnected
		Modem board disconnected
		Wireless LAN card disconnected
		If a modem board is attached, remove it.
		Check if wired/wireless LAN works.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
Sc651-01	С	Illegal Remote Service Dial-up (Chat program parameter error)
		An unexpected error occurred when RC Gate Type M dialed up the NRS Center.
		Software bug
		Logging only.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC651-02	С	Illegal Remote Service Dial-up (Chat program execution error)
		An unexpected error occurred when RC Gate dialed up the NRS Center.
		Software bug
		Logging only.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC652-	A	Remote service ID2 mismatching
00		There was an authentication mismatch between ID2 for @Remote, the controller board, and
		NVRAM.
		Used controller board installed
		Used NVRAM installed (such action is not allowed.)
		• If this occurs during RC Gate installation:
		Check the validity of the certificate and the NVRAM, check the machine serial number,
		write the common certificate, and then begin installation again.
		• If this occurs after RC Gate installation:
		Clear the RC Gate install status, check the validity of the certificate and the NVRAM,
		check the machine serial number, write the common certificate, and then begin
		installation again.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC653-	A	Incorrect remote service ID2
00		ID2 stored in the NVRAM has either of the following problems.
		Number of characters is not 17.
		Includes a character that cannot be printed.
		All spaces
		• NULL
		Replace the NVRAM.
		Clear the RC Gate install status, write the common certificate, and then begin installation
		again.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC664-	D	ASIC – SRAM Communication error
01		When the machine starts or returns from the energy saver mode, a connection error
		signal between ASIC and SRAM device is detected.
		Defective BiCU
		Cycle the main power off/on.
		Replace the BiCU.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC665-	D	BiCU control signal connection error
05		
SC665-	D	BiCU control signal connection error
07		

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC665-	D	BiCU control signal connection error
08		
		When the machine starts or returns from the energy saver mode, a connection error signal
		between CPU and slave device is detected, or the machine cannot access all I/O IPU-ASICs
		correctly.
		SC665-11 through -031: When the machine starts or returns from the energy saver mode, a
		connection error between CPU and ASIC is detected.
		1. Incorrect FFC connection
		2. Damaged FFC (disconnection or dust)
		3. BiCU failure (Deteriorated board, sticking dust, or damaged parts)
		Cycle the main power off/on.
		Replace the BiCU.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC667-	D	Master device mode setting error
01		When the machine starts or returns from the energy saver mode, a CPU mode setting error
		is detected.
		BiCU failure
		• Cycle the power off/on.
		• Replace the BiCU.
SC667-	D	Srave device 1 mode setting error
10		When the machine starts or returns from the energy saver mode, an error in the slave device
		1 is detected.
		BiCU failure
		• Cycle the power off/on.
		• Replace the BiCU.
SC667-	D	ASIC operation mode setting error
40		-
		BiCU failure
		Cycle the power off/on.
		• Replace the BiCU.

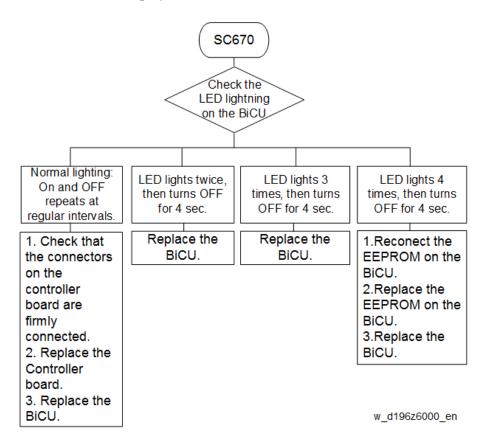
No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC669-	D	EEPROM error
00		The TD sensor cannot be recovered after retrying three times for EEPROM communication
		error.
		Corrupted data due to noise

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		Incorrect EEPROM installation
		Defective EEPROM
		Defective BiCU
		1. Cycle the main power off/on.
		2. Turn the main power off and re-insert the EEPROM, then turn the main power on.
		3. Turn the main power off and replace the EEPROM, then turn the main power on.
		4. Turn the main power off and replace the BiCU, then turn the main power on.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC670-	D	Engine start up error when main power switch on (* Refer to "When SC670 Is Displayed"
01		below)
		/ENGRDY signal was not asserted when the machine was turned on or returned from
		energy saver mode.
		EC response was not received within specified time from power on.
		PC response was not received within specified time from power on.
		SC response was not received within specified time from power on.
		Writing to Rapi driver failed (the other party not found through PCI).
		Engine board does not start up.
		Check the connection between the engine board and the controller board.
		If it is always reproduced, replace the engine board. If the problem persists, consider
		replacing the controller board or other boards between them.
		If reproducibility is low, multiple causes are to be considered, such as software, engine
		board, controller board, and PSU.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC670-	D	Engine is down when machine starts up (SC reboot can not be performed) (* See "When
02		SC670 Is Displayed" below)
		Machine-down was detected after the /ENGRDY signal was not asserted.
		The engine board was reset at an unexpected time
		Check the connection between the engine board and the controller board.
		If it is always reproduced, replace the engine board. If the problem persists, consider
		replacing the controller board or other boards between them.
		If reproducibility is low, multiple causes are to be considered, such as software, engine
		board, controller board, and PSU.

#### When SC670 is Displayed



No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC672-	D	Controller start up error
10		After the machine was powered on, communication between the controller and the
		operation panel was not established.
		Controller stalled
		Board installed incorrectly
		Controller board defective
		Operation panel connector loose, broken or defective
		Controller late
		Cycle the main power off and on.
		Check the connection of the controller board.
		Replace the controller board.
		Check the control panel harness.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC672-	D	Controller start up error
11		After the machine was powered on, communication between the controller and the operation

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
		panel was not established, or communication with controller was interrupted after a normal	
		startup.	
		Controller stalled	
		Board installed incorrectly	
		Controller board defective	
		Operation panel connector loose, broken or defective	
		Controller late	
		Incorrect Dip Switch Setting on Smart Operation Panel	
		Cycle the main power off and on.	
		• Check the connection of the controller board.	
		Replace the controller board.	
		• Check the control panel harness.	
		Make sure that the DIP switch numbers 3 and 7 are ON.	

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
SC672-12	D	Controller start up error	
		Communication with controller was interrupted after a normal startup.	
		Controller stalled	
		Board installed incorrectly	
		Controller board defective	
		Operation panel connector loose, broken or defective	
		Controller late	
		Cycle the main power off and on.	
		• Check the connection of the controller board.	
		• Replace the controller board.	
		Check the control panel harness.	

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
SC672-	D	Controller start up error	
13		The operation panel detects that the controller is down due to other reason shown in SC672-	
		10, SC672-11, and SC672-12.	
		• Controller stalled	
		Board installed incorrectly	
		Controller board defective	
		Operation panel connector loose, broken or defective	
		Controller late	
		Cycle the main power off and on.	

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
		Check the connection of the controller board.	
		Replace the controller board.	
		• Check the control panel harness.	

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
SC672-99	D	Controller start up error	
		The operation panel software ended abnormally.	
		Controller stalled	
		Board installed incorrectly	
		Controller board defective	
		Operation panel connector loose, broken or defective	
		Controller late	
		Cycle the main power off and on.	

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
SC673-	D	Operation panel Flair communication error (Smart Operation Panel)	
10		This SC is issued only for the machine that has the Smart Operation Panel installed.	
		Communication between Smart Operation Panel and main machine (this is called "Flair")	
		communication") is not sent to Smart Operation Panel.	
		• SP setting (SP5-748-201) for Smart Operation Panel is not activated.	
		The CATS module (controller) did not see the response to notification of monitoring service	
		module (operation panel)	
		Cycle the main power off and on.	
		• Set SP5-748-201 to "1: Connect" if the value is "0: Not connect"	

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
SC681-	D	Toner bottle: ID chip communication error	
**		Corrupted ID data	
		Disconnected ID chip	
		No ID chip	
		Noise	
		Check the SC's branch number (-** part) and do the above steps for the corresponding	
		color.	
		<b>◆</b> Note	
		If the last digit of the SC's branch number (-**) is:	
		1 or 6, then do the above steps for K	
		2 or 7, then do the above steps for M	

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
		3 or 8, then do the above steps for C	
		4 or 9, then do the above steps for Y	
	Clean the ID chip.		
		Check the toner bottle detection board, and replace if damaged.	
		Reconnect the connectors between the BiCU and toner bottle detection board.	
	Set the toner bottle again.		
	Replace the harness between the BiCU and toner bottle detection board.		
	Replace the BiCU.		

### SC681 Details

	No.	Detail	Causes
681	01 - 04	Invalid device ID	Noise, Incorrect connection, Malfunction
	06 - 09	Channel error	Noise, Incorrect connection, Malfunction
	11 - 14	Device Error	Noise, Incorrect connection
	16 - 19	Communication error (interrupted)	Noise, Incorrect connection
	21 - 24	Communication timeout	Noise, Incorrect connection, Malfunction
	26 - 29	Device stops (logically)	Noise, Incorrect connection, Malfunction
	31 - 34	Full of buffer (request)	Noise, Incorrect connection, Malfunction
	36 - 39	Verification error	Noise, Incorrect connection

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
SC682-	D	TD sensor communication error	
**		TD sensor cannot be recovered after retrying three times for an ID chip communication	
		error.	
		Corrupted ID data	
		Disconnected ID chip	
		No ID chip	
		• Noise	
		Remove the PCU and check the connector condition.	
		2. Re-insert the harness (BiCU side) between the BiCU and the TD sensor.	
		3. Replace the PCDU (if the TD sensor works incorrectly)	
		4. Replace the harness between the BiCU and the TD sensor.	
		5. Replace the BiCU.	
		Check the SC's branch number (-** part) and do the above steps for the corresponding	
		color.	
		Note	
		• If the last digit of the SC's branch number (-**) is:	

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
		1 or 6, then do the above steps for K	
		2 or 7, then do the above steps for M	
		3 or 8, then do the above steps for C	
		4 or 9, then do the above steps for Y	

### SC682 Details

	No.	Description	Cause
682	01 - 04	Invalid device ID	Noise, Incorrect connection, Malfunction
	06 - 09	Channel error	Noise, Incorrect connection, Malfunction
	11 - 14	Device Error	Noise, Incorrect connection
	16 - 19	Communication error (interrupted)	Noise, Incorrect connection
	21 - 24	Communication timeout	Noise, Incorrect connection, Malfunction
	26 - 29	Device stops (logically)	Noise, Incorrect connection, Malfunction
	31 - 34	Full of buffer (request)	Noise, Incorrect connection, Malfunction
	36 - 39	Verification error	Noise, Incorrect connection
	51	Verification error (during storing to EEPROM)	Noise
	52	Verification error (SRAM)	Noise

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC687-00	D	PER Not Received Error
		Unable to receive the PER command of the I/F commands from the controller.
		Unable to prepare the image data with the controller.
		Communication error
		Inside of the controller defective
		Cycle the main power off/on.

## SC7xx: Peripherals

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC790-00	D	Too many paper tray units
		An attachment identification code is other than "01H" or "02H".
		Number of paper tray units is more than the machine specification.
		1. Reduce the number of paper tray units within the machine specification.

# SC8xx: Overall System

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC816-**	[0x0000]	Energy save I/O subsystem error
SC816-01	D	Subsystem error
SC816-02	D	Sysarch (LPUX_GET_PORT_INFO) error
SC816-03	D	Transition to STR was denied.
SC816-04	D	Interrupt in kernel communication driver
SC816-05	D	Preparation for transition to STR failed.
SC816-07	D	Sysarch (LPUX_GET_PORT_INFO) error
SC816-08	D	Sysarch (LPUX_ENGINE_TIMERCTRL) error
SC816-09	D	Sysarch (LPUX_RETURN_FACTOR_STR) error
SC816-10	D	Sysarch (LPUX_GET_PORT_INFO) error
to 12		
SC816-13	D	open() error
SC816-14	D	Memory address error
SC816-15	D	open() error
to 18		
SC816-19	D	Double open() error
SC816-20	D	open() error
SC816-22	D	Parameter error
SC816-23,	D	read() error
24		
SC816-25	D	write () error
SC816-26	D	write() communication retry error
to 28		
SC816-29,	D	read() communication retry error
30		
SC816-35	D	read() error
SC816-36	D	Subsystem error
to 96		
		Energy save I/O subsystem detected some abnormality.
		Energy save I/O subsystem defective
		Energy save I/O subsystem detected a controller board error (non-response).
		Error was detected during preparation for transition to STR.
		C816-99 occurs as a subsystem error except any error from -06 to 96.
		Check if the SC occurs by turning the power OFF then ON. If the SC occurs again, do
		the following steps. Check if the SC reoccurs by cycling the power after each step.
		1. Update the "System/Copy" firmware and the other system firmware to the latest

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		version.
		2. Disable the STR shift function with SP5-191-001 (Power Str Set).
		3. Replace the controller board.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC817-	В	Monitor error: File detection / Digital signature error
00		Bootloader cannot read any of diagnostic module, kernel, or root filesystem.
		• In a bootloader SD card, the digital signature checking for any of diagnostic module,
		kernel, or root filesystem is failed.
		Any of the following items does not exist or is broken OS Flash ROM, Diagnostic
		module in SD card, Kernel, Root filesystem
		• Any of the following items is revised fraudulently: Diagnostic module in SD card,
		Kernel, Root filesystem
		ROM update for controller system
		Use another booting SD card having a valid digital signature

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC818-	D	Watchdog timer error
00		The system program fell into a bus-hold state or an endless loop of the program interruption
		occurred, causing other process to stop.
		System program defective
		Controller board defective
		Optional board defective
		Cycle the main power off and on.
		Replace the controller board.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC819-	D	Kernel halt error
00		[xxxx]: Detailed error code
		Due to a control error, a RAM overflow occurred during system processing. One of
		the following messages was displayed on the operation panel.
	[0x5032]	HAIC-P2 error
		HAIC-P2 decompression error (An error occurred in the ASIC
		compression/decompression module.)
		The code data saved in the HDD was broken for an unexpected reason. (HDD)
		device defective)
		The code data saved to memory was broken for an unexpected reason. (Memory

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		device defective)
		ASIC defective
		Data other than code data was unzipped due to a software malfunction.
		Cycle the main power off and on.
		Replace the HDD.
		Replace the memory
		Replace the controller board.
		• Fix the software
	[0x6261]	HDD defective
		Received file system data was broken even if the initialization succeeds and there was
		no error reply from the HDD.
		Power supply disconnection during data writing to the HDD.
		Replace the HDD.
		This SC may occur when turning on the machine for the first time with a new HDD.
		In this case, turn the main power off/on.
	[0x696e]	gwinit processing end
		If the SCS process is ended for some reason
		If an unexpected error occurs at SCS processing end, gwinit processing also halts
		(this result is judged a kernel stop error, by gwinit specification)
		"0x69742064" -> "init died"
		Cycle the main power off and on.
	[0x766d]	VM full error
		Occurs when too much RAM is used during system processing
		"vm_pageout: VM is full"
		Cycle the main power off and on.
	Console	Other error (characters on operation panel)
	string	System detected internal mismatch error
		Software defective
		Insufficient memory
		Hardware driver defective (RAM, flash memory)
		Replace with a larger capacity RAM, or flash memory.
		Replace the controller board.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC820-00	С	Self-diagnostics error: CPU
		[XXXX]: Detailed error code
	[0001]	TLB change (store) exception error

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	[0002]	TLB miss (load) exception error
	[0003]	TLB miss (store) exception error
	[0004]	Read address exception error
	[0005]	Write address exception error
	[0006]	Instruction bus exception error
	[0007]	Data bus exception error
	[8000]	System call exception error
	[0009]	Break exception error
	[000A]	Invalid instruction exception error
	[000B]	Co-processor exception error
	[000C]	Overflow exception error
	[000D]	UTLB miss exception error
	[0010]	Interrupt line 0 error
	[0011]	Interrupt line 1 error
	[0012]	Interrupt line 2 error
	[0013]	Interrupt line 3 error
	[0014]	Interrupt line 4 error
	[0015]	Interrupt line 5 error
		Unexpected exception or interrupt occurred
		CPU device error
		The boot monitor program or self-diagnostic program is broken.
		Replace the controller board
		Reinstall the controller system software.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC820-00	С	Self-diagnostics error: CPU
		[XXXX]: Detailed error code
	[00FF]	Uninitialized interrupt error
		Cache error (such as a parity error) occurred.
		CPU device error
		Local bus defective
		Cycle the main power off and on.
		Reinstall the controller system software.
		Replace the controller board
		Replace the connected controller option with a new one.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC820-00	С	Self-diagnostics error: CPU
		[XXXX]: Detailed error code
	[0601]	Read address exception error
	[0602]	Write address exception error
	[0605]	System call exception error
	[0606]	Break exception error
	[0607]	Invalid instruction exception error
	[0609]	Overflow exception error
		Exception does not occur though executing exception by intention.
		CPU device error
		Replace the controller board

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC820-00	С	Self-diagnostics error: CPU
		[XXXX]: Detailed error code
	[060A]	Interrupt line 0 mask exception error
	[060B]	Interrupt line 1 mask exception error
	Interrupt line 2 mask exception error	
	[060D]	Interrupt line 3 mask exception error
	[060E]	Interrupt line 4 mask exception error
		Interrupt does not occur though setting interrupt by timer.
		CPU device error
		ASIC device error
		Replace the controller board.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC820-00	С	Self-diagnostics error: CPU
		[XXXX]: Detailed error code
	[0610]	CPU interrupt timer 2 set error
		Interrupt does not occur though setting interrupt by CPU interrupt timer.
		CPU device error
		Replace the controller board

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC820-00	С	Self-diagnostics error: CPU
		[XXXX]: Detailed error code
	[0612]	ASIC interrupt error

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		Interrupt occurs in an ASIC.
		ASIC device error
		Peripherals device error
		Replace the controller board
		Replace the connected controller option with a new one

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC820-00	С	Self-diagnostics error: CPU
		[XXXX]: Detailed error code
	[06FF]	CPU master clock error
		Pipeline clock frequency ratio of CPU is different from specified value.
		CPU device error
		Module bit that initializes the CPU is defective
		Replace the controller board.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC820-00	D	Self-diagnostics error: CPU
		[XXXX]: Detailed error code
	[0701]	Instruction cache capacity error
		The CPU cannot read the instruction cache stored in the primary cache.
		-
		-

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC820-00	D	Self-diagnostics error: CPU
		[XXXX]: Detailed error code
	[0702]	Instruction cache error
		The program executed in the instruction cache result was different from expected.
		CPU cache defective
		Memory too slow
		Replace the controller board
		Replace the memory device.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC820-	D	Self-diagnostics error: CPU
00		[XXXX]: Detailed error code
	[0703]	Instruction uncache error

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
	[0704]	Instruction cache hit error	
	[0705] Instruction cache clear error		
		Data in the instruction cache which is set in the primary instruction cache of the CPU is	
		different from the contents of the pre-set	
		-	
		-	

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
SC820-	D	Self-diagnostics error: CPU	
00		[XXXX]: Detailed error code	
	[0706]	Data cache capacity error	
	[0707]	Data cache error	
	[0708]	Data uncache error	
		Data in the data cache which is set in the primary data cache of the CPU is different from	
		the contents of the pre-set	
		-	
		-	

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC820-00	D	Self-diagnostics error: CPU
		[XXXX]: Detailed error code
	[0709]	Data cache hit error
	[070A] Data cache clear error	
		In spite of writing data only in the cache area, data is updated in the non-cache area
		CPU device error
		Replace the controller board
		Replace the memory device.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC820-00	D	Self-diagnostics error: CPU
		[XXXX]: Detailed error code
	TLB virtual address error	
	[0804]	TLB global error
[0807] UTLB miss error [0808] TLB read miss error		UTLB miss error
		TLB read miss error
	[0809]	TLB write miss error
	[080A]	TLB modify error

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		Error occurred during TLB checking.
		CPU device error
		Replace the controller board

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC820-00	D	Self-diagnostics error: CPU
		[XXXX]: Detailed error code
	[4002]	Single precision arithmetic error
	[4003]	Double precision arithmetic error
	[4004]	Exception error
	[4005]	Exception mask error
		Error occurred during a calculation with the co-processor in the CPU.
		CPU device error
		Replace the controller board

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC821-	D	Self-diagnostics error: ASIC
00		[xxxx]: Detailed error code
	[0B00]	ASIC register check error
		The write-&-verify check has occurred in the ASIC.
		Defective ASIC device
		Replace the controller board.
[0B06		ASIC detection error
		Error in the I/O ASIC for system control detection
		Defective ASIC
		Defective North Bridge and PCII/F
		Replace the controller board.
	[0D05]	Comparison error of CPU and ASIC timer
		The CPU checks if the ASIC timer works correctly compared with the CPU timer. If the
		ASIC timer does not function in the specified range, this SC code is displayed.
		Defective ASIC timer device
		Defective CPU device
		Replace the controller board.
	[50A1]	Video bridge device detection error
		Video bridge device is not detected.
		Video bridge device ASIC (HARP or KLAVIER) defective.
		Connection error between PCI I / F of the controller ASIC and video bridge device

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		ASIC.
		Replace the controller board
	[50A2]	Video bridge device (ASIC) register error
		The CPU detects the video bridge device, but detects error data from the video bridge
		device.
		Defective I/F between the video bridge device and the controller
		Replace the controller board.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC822-	D	Self-diagnostic error: HDD
00		[xxxx]: Detailed error code
	[3003]	HDD timeout
		Check performed only when HDD is installed:
		HDD device busy for over 31sec.
		After a diagnostic command is set for the HDD, but the device remains busy for over
		6sec.
		HDD defective
		HDD harness disconnected, defective
		Controller board defective
		Replace the HDD.
		Replace the HDD connector.
		Replace the controller board.
	[3004]	Diagnostic command error
		No response to the self-diagnostic command from the ASIC to the HDD.
		HDD defective
		Replace the HDD.
	[3013]	HDD timeout (first machine)
		HDD device busy for over 31 seconds.
		A diagnostic command is set for the HDD, but the device remains busy for over 6
		seconds.
		Defective HDD device
		Defective HDD connector
		Defective ASIC device
		Replace or remove the HDD device.
		Replace the HDD connector
		Replace the controller board
	[3014]	Diagnostics command error (First machine)

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		Result of the issuance of diagnostic command is error.
		Defective HDD device
		Replace the HDD device.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC823-00	В	Self-diagnostics error: NIC
		[XXXX]: Detailed error code
	[6101]	MAC address check sum error
		The result of the MAC address check sum does not match the check sum stored in ROM.
		Defective SEEP ROM
		Defective I2C bus (connection)
		Replace the controller board.
	[6104]	PHY IC error
		The PHY IC on the controller cannot be correctly recognized.
		Defective PHY chip
		Defective ASIC MII I/F
		Replace the controller board.
	[6105]	PHY IC loop-back error
		An error occurred during the loop-back test for the PHY IC on the controller.
		PHY chip
		Defective MAC of ASIC (SIMAC/COMIC/CELLO)
		Defective I/F with the PHY board
		Defective solder on the PHY board
		Replace the controller board.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC824-00	С	Self-diagnostics error: NVRAM (resident)
		[XXXX]: Detailed error code
	[1401]	NVRAM verify error
		NVRAM device is missing or NVRAM device is damaged.
		The NVRAM device is missing.
		The NVRAM device is damaged.
		NVRAM backup battery exhausted
		NVRAM socket damaged
		Replace the NVRAM device.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)		
SC827-	D	Self-diagnostic error: RAM		
00		[XXXX]: Detailed error code		
	[0201]	Resident memory verification error		
		Error detected during a write/verify check for the standard RAM*1 on controller board.		
		*1 Standard RAM on controller (2GB) in this machine is divided into the resident RAM		
		(1GB) and the optional RAM (1GB).		
		Defective memory device (on the controller board).		
		Replace the controller board.		
	[0202]	Resident memory structure error		
		The SPD values in all RAM DIMM are incorrect or unreadable.		
		Defective RAM DIMM		
		Defective SPD ROM on RAM DIMM		
		Defective 12C bus		
		Replace the controller board.		

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
SC828-	D	Self-diagnostic error: ROM	
00		[xxxx]: Detailed error code	
	[0101]	Check sum error 1	
		The boot monitor and OS program stored in the ROM DIMM is checked. If the check	
		of the program is incorrect, this SC code is displayed.	
		Defective flash ROM device	
		Defective CPU device	
		Replace the controller board.	

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
SC829-	D	Self-diagnostic error: Optional RAM	
00		[XXXX]: Detailed error code	
	[0401]	Optional RAM1: verify error	
		In this machine, the standard RAM on the controller (2GB) is divided into the resident	
		RAM (1GB) and the optional RAM (1GB).	
		Defective memory device (on the controller board).	
		Replace the controller board.	
	[0402]	Optional RAM1: structure error	
		Every time the main power turns on, structures of the optional RAM are checked. If an	
		error is detected at this time, the self-diagnostic module will not check the optional RAM.	
		-	

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		-

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC833-00	D	Self-diagnostic error: Engine I/F ASIC
		[XXXX]: Detailed error code
	[0F30]	Engine I/F ASIC detection error
		ASIC (Mandolin) for engine control could not be detected.
		ASIC (Mandolin) error
		Replace the Engine I/F board (mother board).
	[50B1]	Video device: clock generator detection error
		Could not initialize or read the bus connection.
		Defective connection bus
		Defective SSCG
		Replace the Engine I/F board (mother board).
	[50B2]	Video device: clock generator verify error
		Value of the SSCG register is incorrect.
		Defective connection bus
		Defective SSCG
		Replace the Engine I/F board (mother board).

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC834-	D	Self-diagnostic error: Optional memory
00	[5101]	Engine I/F optional memory verify error
		An error occurs after write/verify check for optional RAM on the engine I/F board
		(mother board).
		Defective memory device
		Replace the Engine I/F board (mother board).

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC835-00	В	Self-diagnostic error: Centronic device
		[xxxx]: Detailed error code
	[1102]	Verify error
		The loopback connector is connected but check results is an error.
		IEEE1284 connector error
		Centronic loopback connector defective
		Replace the controller board.
	[110C]	DMA verify error

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		The loopback connector is connected but check results is an error.
		ASIC device error
		IEEE1284 connector error
		Centronic loopback connector is defective
		Replace the controller board.
	[1120]	Loopback connector not detected
		Centronic loopback connector is not connected for detailed self-diagnostic test.
		Centronic loopback connector not connected correctly
		Centronic loopback connector is defective
		ASIC device is defective
		Connect the centronic loopback connector
		Replace the centronic loopback connector
		Replace the controller board.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC838-	С	Self-diagnostic Error: Clock Generator
00		[xxxx]: Detailed error code
	[2701]	Verify error
		A verify error occurred when setting data was read from the clock generator via the I2C
		bus.
		Defective clock generator
		Defective I2C bus
		Defective I2C port on the CPU
		Replace the controller board.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC839-00	D	Self-diagnostic Error: Serial Flash
		[xxxx]: Detailed error code
	[9001]	Serial Flash access error
		USB NAND Flash ROM cannot be read.
		Defective controller board
		Replace the controller board.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC840-	D	EEPROM access error
00		• During the I/O processing, a reading error occurred. The 3rd reading failure causes this
		SC code.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		During the I/O processing, a writing error occurred.
		Defective EEPROM
		-

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC841-00	D	EEPROM read data error
		Mirrored data of the EEPROM is different from the original data in EEPROM.
		Data in the EEPROM is overwritten for some reason.
		-

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC842-	D	Insufficient Nand-Flash blocks (threshold exceeded)
01		At startup, or when machine returned from low power mode, the Nand-Flash status was read
		and judged that the number of unusable blocks had exceeded threshold, and then SCS
		generated the SC code.
		Number of unusable blocks exceeded threshold for Nand-Flash
		Replace the controller board.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC842-	D	Number of Nand-Flash block deletions exceeded
02		At startup, or when the machined returned from low power mode, the Nand-Flash was read
		and judged that the number of deleted blocks had exceeded threshold, and then SCS
		generated this SC code.
		Number of blocks deleted exceeded threshold for Nand-Flash
		Replace the controller board.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC845-		Hardware Error Detected when the automatic firmware update
**		
SC845-	D	Engine Board
01		
SC845-	D	Controller Board
02		
SC845-	D	Operation Panel (Normal)
03		
SC845-	D	Operation Panel (Smart Panel)
04		

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC845-	D	FCU
05		
		When updating the firmware automatically (ARFU), the firmware cannot be read or written
		normally, and the firmware update cannot be completed even by 3 retries.
		Hardware abnormality of the target board
		Replace the target board
		For SC852-02, HDD and memory may cause the problem. Replace the HDD or memory if
		the SC cannot be recovered by replacing the controller board.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC853-00	В	Bluetooth device connection error
		The Bluetooth hardware (USB type) was connected after the machine was turned on.
		The Bluetooth hardware (USB type) was connected after the machine was turned on.
		Always connect the Bluetooth device (USB type) before the machine is turned on.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC854-00	В	Bluetooth device disconnected
		The Bluetooth hardware (USB type) was disconnected after the machine was turned on.
		The Bluetooth hardware (USB type) was disconnected after the machine was turned on.
		Never remove the Bluetooth device (USB type) after the machine starts

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC855-01	В	Wireless LAN board error (driver attachment failure)
		Wireless LAN board error (wireless LAN card: 802.11 is covered)
		Defective wireless LAN board
		Loose connection
		Cycle the main power off and on.
		Replace wireless LAN board

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC855-02	В	Wireless LAN board error (driver initialization failure)
		Wireless LAN board error (wireless LAN card: 802.11 is covered)
		Defective wireless LAN board
		Loose connection
		Cycle the main power off and on.
		Replace wireless LAN board

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC857-	В	USB I/F Error
00		The USB interface is unusable because of a driver error.
		USB driver error (There are three causes of USB error: RX error/CRC error/STALL. SC is
		issued only in the case of STALL.)
		• Check the USB connection.
		Replace the controller board.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC858-00	A	Data encryption conversion error (Key Setting Error)
		A serious error occurred during an attempt to update the encryption key.
		USB Flash, other data, corrupted
		Communication error caused by electrostatic noise
		Controller board defective
		Replace the controller board.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC858-01	A	Data encryption conversion error (HDD Key Setting Error)
		A serious error occurred during an attempt to update the encryption key.
		USB Flash, other data, corrupted
		Communication error caused by electrostatic noise
		Controller board defective
		Cycle the main power off and on
		If the error persists, replace the controller board.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC858-	A	Data encryption conversion error (NVRAM Read/Write Error)
02		A serious error occurred after data conversion during an attempt to update the encryption
		key.
		NVRAM defective
		Replace the NVRAM.
		Replace the controller board.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC858-	A	Data encryption conversion error (NVRAM Before Replace Error)
30		A serious error occurred after data conversion during an attempt to update the encryption
		key.
		Software error such as conversion parameters being invalid.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		Cycle the main power off and on.
		If the error persists, replace the controller board.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC858-	A	Data encryption conversion error (Other Error)
31		A serious error occurred after data conversion during an attempt to update the encryption
		key.
		Controller board defective
		Replace the controller board.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC859-	В	Data encryption conversion HDD conversion error
00		When the data encryption key was updated, HDD data was converted, but not correctly.
		Image displayed at conversion only (this SC is not displayed), but SC is displayed after
		machine is cycled off/on.
		HDD conversion was set with the data encryption key update function, but the HDD
		was removed.
		Machine lost power during data encryption key update
		Electrostatic noise, or an HDD error occurred, during data encryption key update, and
		data was not encrypted.
		Check the HDD connection.
		• Format the HDD (SP5-832: HDD formatting).
		If there is a problem with the HDD, it has to be replaced.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC859-	В	Data encryption conversion HDD conversion error (HDD check error)
01		When the data encryption key was updated, HDD data was converted, but not correctly.
		Image displayed at conversion only (this SC is not displayed), but SC is displayed after
		machine is cycled off/on.
		HDD conversion was set with the data encryption key update function, but the HDD
		was removed.
		Machine lost power during data encryption key update
		Electrostatic noise, or an HDD error occurred, during data encryption key update, and
		data was not encrypted.
		Check the HDD connection.
		• Format the HDD (SP5-832: HDD formatting).
		• If there is a problem with the HDD, it has to be replaced.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC859-	В	Data encryption conversion HDD conversion error (Power failure during conversion)
02		When the data encryption key was updated, HDD data was converted, but not correctly.
		Image displayed at conversion only (this SC is not displayed), but SC is displayed after
		machine is cycled off/on.
		Details:
		NVRAM/HDD conversion is incomplete.
		Power failure occurred during encryption key update.
		None
		The display after restart instructs the user to format the HDD.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)		
SC859-	В	Data encryption conversion HDD conversion error (Data read/write command error)		
10		When the data encryption key was updated, HDD data was converted, but not correctly.		
		Image displayed at conversion only (this SC is not displayed), but SC is displayed after		
		machine is cycled off/on.		
		Details:		
		Abnormal DMAC return value has been received two or more times (DMAC timeout, serial		
		communication error etc.)		
		HDD was not successfully converted during encryption key update due to HDD errors or		
		cable noises.		
		Check the HDD connection.		
		Format the HDD (SP5-832: HDD formatting).		
		If there is a problem with the HDD, it has to be replaced.		

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC860-	В	HDD startup error at main power on (HDD error)
00		The HDD is connected but the driver detected the following errors.
		• SS_NO.T_READY:/* (-2)HDD does not become READY*/
		• SS_BAD_LABEL:/* (-4)Wrong partition type*/
		• SS_READ_ERROR:/* (-5)Error occurred while reading or checking the label*/
		• SS_WRITE_ERROR:/* (-6)Error occurred while writing or checking the label*/
		• SS_FS_ERROR:/* (-7)Failed to repair the filesystem*/
		• SS_MOUNT_ERROR:/* (-8)Failed to mount the filesystem*/
		• SS_COMMAND_ERROR:/* (-9)Drive not responding to command*/
		• SS_KERNEL_ERROR:/* (-10)Internal kernel error*/
		• SS_SIZE_ERROR:/* (-11)Drive size too small*/

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		• SS_NOPARTITION:/* (-12)The specified partition does not exist*/
		• SS_NOFILE:/* (-13)Device file does not exist*/
		• Attempted to acquire HDD status through the driver but there has been no response for
		30 seconds or more.
		Unformatted HDD
		Label data corrupted
		HDD defective
		Format the HDD (SP5-832: HDD formatting).

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC862-00	D	Number of the defective sector reaches the maximum count
		101 defective sectors are generated at the image storage area in the HDD.
		SC863 occurs during the HDD reading and defective sectors are registered up to 101.
		• Format the HDD (SP5-832: HDD formatting).
		Replace the HDD.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC863-	D	HDD data read failure
01		The data written to the HDD cannot be read normally.
		Bad sectors were generated during operation.
		(An error occurred in an area that does not belong to a partition, such as the disk label area.)
		Guide for when to replace the HDD
		1. When SC863 has occurred ten times or more
		The interval is short.
		• Repeatedly occurs in the same situation (At power-on, etc.).
		Startup takes a long time when the main power is turned on.
		2. It takes a long time after main power on for the operation panel to become ready.
		HDD access may be consuming time. Normal HDD access time after main power on is
		about 5 seconds. If the machine is not waiting for the engine to be ready and it still takes
		20 to 30 seconds or more, the HDD may be the cause. If there is a problem with the
		HDD, HDD-related SCs such as SC860 and SC863 will occur frequently. Print the SC
		log data and check them.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC863-	D	HDD data read failure
02 to 23		The data written to the HDD cannot be read normally.
		Bad sectors were generated during operation.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		(An error occurred in partition "a" (SC863-02) to partition "v" (SC863-23)).
		Guide for when to replace the HDD
		1. When SC863 has occurred ten times or more
		• The interval is short.
		• Repeatedly occurs in the same situation (At power-on, etc.).
		• Startup takes a long time when the main power is turned on.
		2. It takes a long time after main power on for the operation panel to become ready.
		HDD access may be consuming time. Normal HDD access time after main power on is
		about 5 seconds. If the machine is not waiting for the engine to be ready and it still
		takes 20 to 30 seconds or more, the HDD may be the cause. If there is a problem with
		the HDD, HDD-related SCs such as SC860 and SC863 will occur frequently. Print the
		SC log data and check them.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC864-	D	HD data CRC error
00		During HD operation, the HD cannot respond to a CRC error query. Data transfer did not
		execute normally while data was being written to the HD.
		HD defective
		-

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC864-	D	HDD data CRC error
01		During HDD operation, the HDD cannot respond to a CRC error query. Data transfer did not
		execute normally while data was being written to the HDD.
		Bad sectors were generated during operation.
		(An error occurred in an area that does not belong to a partition, such as the disk label area.)
		Format the HDD.
		Replace the HDD.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC864-02	D	HDD data CRC error
to 23		During HDD operation, the HDD cannot respond to a CRC error query. Data transfer did
		not execute normally while data was being written to the HDD.
		Bad sectors were generated during operation.
		(An error occurred in partition "a" (SC864-02) to partition "v" (SC864-23)).
		• Format the HDD (SP5-832: HDD formatting).
		Replace the HDD.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC865-	D	HD access error
00		During HDD operation, the HDD returned an error.
		The HDD returned an error that does not constitute SC863 (bad sector) or SC864 (CRC
		error).
		Replace the HDD.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC865-	D	HDD access error
01		During HDD operation, the HDD returned an error.
		The HDD returned an error that does not constitute SC863 (bad sector) or SC864 (CRC
		error).
		(An error occurred in an area that does not belong to a partition, such as the disk label
		area.)
		Replace the HDD.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC865-02 to	D	HDD access error
23		During HDD operation, the HDD returned an error.
		The HDD returned an error that does not constitute SC863 (bad sector) or SC864
		(CRC error).
		(An error occurred in partition "a" (SC865-02) to partition "v" (SC865-23)).
		Replace the HDD.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC865-50 to 73	D	HDD time-out error
		The machine does not detect a reply from the HDD during the HDD operation.
		The HDD does not respond to the read/ write command from the machine.
		Check the harness connections between the controller board and HDD.
		Replace the HDD.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC866-00	В	SD card authentication error
		A license error of an application that is started from the SD card was detected.
		Invalid program data is stored on the SD card.
		Store a valid program data on the SD card.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC867-00	D	SD card removed
		The SD card was removed while the machine is on.
		An application SD card has been removed from the slot (mount point of /mnt/sd0).
		Cycle the main power off and on.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC867-01	D	SD card removed
		The SD card was removed while the machine is on.
		An application SD card has been removed from the slot (mount point of /mnt/sd1).
		Cycle the main power off and on.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC867-02	D	SD card removed
		The SD card was removed while the machine is on.
		An application SD card has been removed from the slot (mount point of /mnt/sd2).
		Cycle the main power off and on.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
SC868-		SD card access error	
**			
SC868-	D	The SD controller returned an error during operation. (An error occurred at the mount point	
00		of /mnt/sd0)	
SC868-	D	The SD controller returned an error during operation. (An error occurred at the mount point	
01		of /mnt/sd1)	
SC868-	D	The SD controller returned an error during operation. (An error occurred at the mount point	
02		of /mnt/sd2)	
		SD card defective	
		SD controller defective	
		Slot number is displayed on the sub code.	
		Detail code is described in SMC print can confirm the details of the error.	
		• -13 to -3: File system check error	
		Otherwise (no code, -2): Device access error	
		SD card that starts an application	
		1. Turn the main power off and check the SD card insertion status.	
		<b><u>2.</u></b> If no problem is found, insert the SD card and turn the main power on.	

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		3. If an error occurs, replace the SD card.
		<b><u>4.</u></b> If the error persists even after replacing the SD card, replace the controller board.
		SD card for users
		1. In the case of a file system error, reformat the SD card (using the "SD Formatter" made by Panasonic).*
		In the case of a device access error
		1. Turn the main power off and check the SD card insertion status.
		2. If no problem is found, insert the SD card and turn the main power on.
		3. If an error occurs, use another SD card.
		4. If the error persists even after replacing the SD card, replace the controller board.

<sup>\*</sup> Do not format an SD card supplied with the main machine or sold as an option. You may only format SD cards used for Firmware Update by a Customer Engineer.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC870-	В	Address Book data error (Anytime: Address Book Error.)
00		
SC870-	В	Address Book data error (On startup: Media required for storing the Address Book is
01		missing.)
SC870-	В	Address Book data error (On startup: encryption is configured but the module required for
02		encryption (DESS) is missing.)
SC870-	В	Address Book data error (Initialization: Failed to generate a file to store internal Address
03		Book.)
SC870-	В	Address Book data error (Initialization: Failed to generate a file to store delivery sender.)
04		
SC870-	В	Address Book data error (Initialization: Failed to generate a file to store delivery
05		destination.)
SC870-	В	Address Book data error (Initialization: Failed to generate a file to store information required
06		for LDAP search.)
SC870-	В	Address Book data error (Initialization: Failed to initialize entries required for machine
07		operation.)
SC870-	В	Address Book data error (Machine configuration: HDD is present but the space for storing
08		the Address Book is unusable.)
SC870-	В	Address Book data error (Machine configuration: Inconsistency in the NVRAM area used
09		for storing settings required for Address Book configuration.)
SC870-	В	Address Book data error (Machine configuration: Cannot make a directory for storing the
10		Address Book in the SD/USB FlashROM.)
SC870-	В	Address Book data error (On startup: Inconsistency in Address Book entry number.)

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
11		
SC870-	В	Address Book data error (File I/O: Failed to initialize file.)
20		
SC870-	В	Address Book data error (File I/O: Failed to generate file.)
21		
SC870-	В	Address Book data error (File I/O: Failed to open file.)
22		
SC870-	В	Address Book data error (File I/O: Failed to write to file.)
23		
SC870-	В	Address Book data error (File I/O: Failed to read file.)
24		
SC870-	В	Address Book data error (File I/O: Failed to check file size.)
25		
SC870-	В	Address Book data error (File I/O: Failed to delete data.)
26		
SC870-	В	Address Book data error (File I/O: Failed to add data.)
27		
SC870-	В	Address Book data error (Search: Failed to obtain data from cache when searching in the
30		machine Address Book. delivery destination/sender.)
SC870-	В	Address Book data error (Search: Failed to obtain data from cache during LDAP search.)
31		
SC870-	В	Address Book data error (Search: Failed to obtain data from cache while searching the WS-
32		Scanner Address Book.)
SC870-	В	Address Book data error (Cache: failed to obtain data from cache.)
41		
SC870-	В	Address Book data error (On startup: Detected abnormality of the Address Book encryption
50		status.)
SC870-	В	Address Book data error (Encryption settings: Failed to create directory required for
51		conversion between plaintext and encrypted text.)
SC870-	В	Address Book data error (Encryption settings: Failed to convert from plaintext to encrypted
52		text.)
SC870-	В	Address Book data error (Encryption settings: Failed to convert from encrypted text to
53		plaintext.)
SC870-	В	Address Book data error (Encryption settings: Detected data inconsistency when reading the
54	Б	encrypted Address Book.)
SC870-	В	Address Book data error (Encryption settings: Failed to delete file when changing encryption
55		setting.)

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)		
SC870-	В	Address Book data error (Encryption settings: Failed to erase the file that records the		
56		encryption key during an attempt to change the encryption setting.)		
SC870-	В	Address Book data error (Encryption settings: Failed to move a file during an attempt to		
57		change the encryption setting.)		
SC870-	В	Address Book data error (Encryption settings: Failed to delete a directory during an attempt		
58		to change the encryption setting.)		
SC870-	В	Address Book data error (Encryption settings: Detected a resource shortage during an		
59		attempt to change the encryption setting.)		
SC870-	В	Address Book data error (Unable to obtain the on/off setting for administrator authentication		
60		(06A and later).)		
		When an error related to the Address Book is detected during startup or operation.		
		Software bug		
		• Inconsistency of Address Book source location (machine/delivery server/LDAP server)		
		• Inconsistency of Address Book encryption setting or encryption key (NVRAM or HDD		
		was replaced individually without formatting the Address Book)		
		Address Book storage device (SD/HDD) was temporarily removed or hardware		
		configuration does not match the application configuration.		
		Address Book data corruption was detected.		
		Install the device that contains address book information properly, and turn the main power		
		off/on. If SC occurs again, do the following steps.		
		1. After installing the HDD, or SD/USB ROM, execute SP5-846-046.		
		2. Wait more than 3 seconds, then execute SP5-832.		
		3. Cycle the main power off and on.		
		Procedure after SC870 is cleared		
		1. If there is backup data in SD card or Web Image Monitor, restore the address book data.		
		(To restore from SD card, enter the encryption password which is the same as when you		
		enter to backup.)		

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC871-00	D	FCU error
		An error occurred when FCS detects FCU defective.
		Time-out error
		Abnormal Parameter
		Cycle the main power off and on.
		Update the firmware if more recent firmware was released.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC872-	В	HDD mail reception error
00		An error was detected on the HDD immediately after the machine was turned on.
		HDD defective
		• Power was turned off while the machine used the HDD.
		• Format the HDD (SP5-832-007).
		Replace the HDD.
		When you do the above, the following information will be initialized.
		Partly received partial mail messages.
		• Already-read statuses of POP3-received messages (All messages on the mail server are
		handled as new messages).

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC873-00	В	HDD mail reception error
		An error was detected on the HDD immediately after the machine was turned on.
		HDD defective
		Power was turned off while the machine used the HDD.
		• Format the HDD (SP5-832-007).
		Replace the HDD.
		When you do the above, the following information will be initialized.
		Sender's mail text
		Default sender name/password (SMB/FTP/NCP)
		Administrator mail address
		Scanner delivery history

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC874-05	D	Delete all error (Delete data area): Read error
SC874-06	D	Delete all error (Delete data area): Write error
SC874-09	D	Delete all error (Delete data area): No response from HDD
SC874-10	D	Delete all error (Delete data area): Error in Kernel
SC874-12	D	Delete all error (Delete data area): No designated partition
SC874-13	D	Delete all error (Delete data area): No device file
SC874-14	D	Delete all error (Delete data area): Start option error
SC874-15	D	Delete all error (Delete data area): No designated sector number
SC874-16	D	Delete all error (Delete data area) : failure in performing hdderase
SC874-41	D	Delete all error (Delete data area): Other fatal errors
SC874-42	D	Delete all error (Delete data area): End by cancellation
SC874-61	D	Delete all error (Delete data area): library error

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
to 65		
SC874-66	D	Delete all error (Delete data area): Unavailable
SC874-67	D	Delete all error (Delete data area): Erasing not finished
SC874-68	D	Delete all error (Delete data area): HDD format failure (Normal)
SC874-69	D	Delete all error (Delete data area): HDD format failure (Abnormal)
SC874-70	D	Delete all error (Delete data area): Unauthorized library
SC874-99	D	Delete all error (Delete data area): other errors
		An error occurred while data was being erased on HDD or NVRAM.
		Error detected in HDD data delete program
		Error detected in NVRAM data delete program
		The "Delete All" option was not set
		• Turn the main power switch off and back on, and then execute "Erase All Memory" in
		UP mode again. (However, if there is a defective sector or other problem with the
		hard disk, the error will persist even after trying the above.)
		• If the "Delete All" option is not installed when this error occurs, install the option.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC875-	D	Delete all error (HDD erasure) (hddchack –i error)
01		
SC875-	D	Delete all error (HDD erasure) (Data deletion failure)
02		
		An error was detected before HDD/data erasure starts. (Failed to erase data/failed to
		logically format HDD)
		HDD logical formatting failed.
		The modules failed to erase data.
		Cycle the main power off and on.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC876-	D	Log Data Error
00		An error was detected in the handling of the log data at power on or during machine
		operation.
		Damaged log data file.
		Log encryption is enabled but encryption module is not installed.
		Inconsistency of encryption key between NV-RAM and HDD.
		Software bug.
		Try the SC876-01 to -99 solutions listed below. If it is not solved, do the following steps
		(for when only an HDD is replaced):

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		1. Disconnect the HDD and turn on the main power.
		2. Execute SP5-801-019.
		3. Turn off the main power.
		4. Connect the HDD and turn on the main power.
		5. Execute SP5-832-004.
		6. Turn off the main power.
		The following step is to configure the logging/encryption setting again.
		7. Turn on the main power.
		8. Set SP9-730-002 through -004 to 1.
		9. Cycle the main power off and on.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC876-	D	Log Data Error 1
01		An error was detected in the handling of the log data at power on or during machine
		operation.
		Damaged log data file
		Initialize the HDD (SP5-832-004).

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC876-	D	Log Data Error 2
02		An error was detected in the handling of the log data at power on or during machine operation.
		Log encryption is enabled but encryption module is not installed.
		Replace or set again the encryption module.
		Disable the log encryption setting.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC876-	D	Log Data Error 3
03		An error was detected in the handling of the log data at power on or during machine
		operation.
		Inconsistency of encryption key between NV-RAM and HDD.
		Disable the log encryption setting.
		• Initialize LCS memory (SP5801-019).
		• Initialize the HDD (SP5-832-004).

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC876-	D	Log Data Error 4

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
04		An error was detected in the handling of the log data at power on or during machine
		operation.
		Log encryption key is disabled but the log data file is encrypted. (NVRAM data
		corruption)
		• Log encryption key is enabled but the log data file is not encrypted. (NVRAM data
		corruption)
		Initialize the HDD (SP5-832-004).

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC876-	D	Log Data Error 5
05		An error was detected in the handling of the log data at power on or during machine
		operation.
		Only the NV-RAM has been replaced with one previously used in another machine.
		Only the HDD has been replaced with one previously used in another machine.
		Attach the original NV-RAM.
		Attach the original HDD.
		• With the configuration that caused the SC, initialize the HDD (SP5-832-004).

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
SC876-	D	Log Data Error 99	
99		An error was detected in the handling of the log data at power on or during machine operation.	
		Other causes	
		-	

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)		
SC877-	В	Data Overwrite Security card error		
00		The "Auto Erase Memory" function of the Data Overwrite Security is set to on but it cannot		
		be done.		
		Data Overwrite Security option SD card is broken.		
		• Data Overwrite Security option SD card has been removed.		
		• If the SD card is broken, prepare a new Data Overwrite Security option SD card and		
		replace the NVRAM.		
		If the SD card has been removed, turn the main power off and reinstall a working Data		
		Overwrite Security option SD card.		

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC878-00	D	TPM authentication error
		TPM electronic recognition failure
		Update of system module attempted without correct update path
		USB flash memory not operating correctly
		Replace the controller board.

#### **Trusted Platform Module**

• In computing, Trusted Platform Module (TPM) is both the name of a published specification detailing a secure crypto processor that can store cryptographic keys that protect information, as well as the general name of implementations of that specification often called the "TPM chip" or "TPM Security Device" (as designated in certain Dell BIOS settings).

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC878-01	D	USB flash error
		There is a problem in the file system of the USB flash memory.
		USB Flash system files corrupted
		Replace the controller board.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC878-02	D	TPM error
		An error occurred in either TPM or the TPM driver
		TPM not operating correctly
		Replace the controller board.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC878-03	D	TCSD error
		An error occurred in the TPM software stack.
		TPM, TPM software cannot start
		A file required by TPM is missing
		Replace the controller board.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC878-20	D	Random number test error
		An error was detected when a random number table was generated during a self-test.
		TPM is defective
		Turn the main power OFF/ON.
		Replace the controller board if the SC occurs again.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
SC878-	D	DESS self-test error	
21		The power-on self-test for TPM failed at startup when the controller encryption software was tested.	
		TPM firmware or CPU is defective	
		Turn the main power OFF/ON.	
		Replace the controller board.	

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC880-00	D	MLB error
		Reply to MLB access was not returned within a specified time.
		MLB defective
		Replace the MLB.
		Remove the MLB.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
SC881-	D	Management area error	
01		A problem was detected in the software	
		This error may even occur is an IC card option is not installed.	
		• This is caused by accumulation of abnormal authentication information in the software.	
		(User operation will not directly cause it.)	
		• At login	
		Example: When a job is sent to the printer/when logged on from the operation	
		panel/when logged on from a Web browser	
		Cycle the main power off and on.	

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC899-00	D	Software performance error (signal reception end)
		Unknown software error occurred.
		Occurs when an internal program behaves abnormally.
		In the case of a hardware defect
		Replace the hardware.
		In the case of a software error
		Cycle the main power off and on.
		Try updating the firmware.

# SC9xx: Others

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC900-00	D	Electrical total counter error
		The total counter contains data that is not a number.
		NVRAM incorrect type
		NVRAM defective or corrupted
		Unexpected error from external source
		When PRT received signals at SRM, the requested count did not complete.
		Replace the NVRAM.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
SC920-00	В	Printer application error (no response within determined time in Printing)	
SC920-01	В	Printer application error (Timeout during Printing)	
SC920-02	В	Printer error 1 (WORK memory not acquired)	
SC920-03	В	Printer application error (Filter process not started)	
SC920-04	В	Printer error 1 (Filter processing ended abnormally)	
		When an error is detected in the application, which makes continued operation impossible.	
		Software bug	
		Unexpected hardware configuration (such as insufficient memory)	
		Cycle the main power off and on.	
		Increase the memory storage capacity.	

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC921-00	В	Printer application error (Resident font not found)
		Resident font was not found at printer startup.
		Preinstalled font files not found.
		Cycle the main power off and on.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC925-	В	NetFile function error
00		
SC925-	В	NetFile function error
01		
		The NetFile file management on the HDD cannot be used, or a NetFile management file is
		corrupted and operation cannot continue. The HDDs are defective and they cannot be
		debugged or partitioned, so the Scan Router functions (delivery of received faxes, document
		capture, etc.), Web services, and other network functions cannot be used.
		HDD status codes are displayed below the SC code:

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		HDD defective
		Power loss while data was writing to HDD
		Software bug
		See the table and the procedure below.

#### Here is a list of HDD status codes:

Display	Meaning
(-1)	HDD not connected
(-2)	HDD not ready
(-3)	No label
(-4)	Partition type incorrect
(-5)	Error returned during label read or check
(-6)	Error returned during label read or check
(-7)	"filesystem" repair failed
(-8)	"filesystem" mount failed
(-9)	Drive does not answer command
(-10)	Internal kernel error
(-11)	Size of drive is too small
(-12)	Specified partition does not exist
(-13)	Device file does not exist

#### **Recovery from SC 925**

#### Procedure 1

1. If the machine shows SC codes for HDD errors (SC860 to SC865) with SC 925, do the recovery procedures for SC860 to SC865.

#### Procedure 2

- 1. If the machine does not show one of the five HDD errors (SC860 to SC865), cycle the main power OFF/ON.
- 2. If this is not the solution for the problem, then initialize the NetFile partition on the HDD with SP5-832-11 (HDD Formatting Ridoc I/F).

NetFiles: These are jobs printed from the document server using a PC and DeskTopBinder. Before you initialize the NetFile partition on the HDD, tell the customer:

- Received faxes on the delivery server will be erased
- All captured documents will be erased
- Desk Top Binder/Print Job Manager/Desk Top Editor job history will be erased
- Documents on the document server, and scanned documents, will not be erased.
- The first time that the network gets access to the machine, the management information must be configured again (this will use a lot of time).
- 3. Before you initialize the Netfile partition with SP5-832-11, do these steps:
- 4. In the User Tools mode, do Document Management> Batch Delete Transfer Documents. Do SP5-832-11, and cycle the main power OFF/ON.

#### **Procedure 3**

- 1. If "Procedure 2" is not the solution for the problem, do SP5-832-001 (HDD Formatting All)
- 2. Cycle the machine off/on.



 SP5-832-001 erases all document and address book data on the hard disks. Consult with the customer before you do this SP code.

#### **Procedure 4**

1. If "Procedure 3" does not solve the problem, replace the HDD.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)			
SC940-	С	Optional counter interface unit error  Setting of the optional counter interface is ON, and register values, of the set detection			
50					
		signal of the optional counter interface unit, is "1" 3 times in a row.  Driver's error of the optional counter interface			
		Cycle the main power OFF/ON.			
		If the problem cannot be solved, replace the BiCU.			

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC990-00	D	Software operation error
		Software attempted an unexpected operation.
		Parameter error
		Internal parameter error
		Insufficient work memory
		Operation error caused by abnormalities that are normally undetectable.
		Cycle the main power OFF/ON.
		Reinstall the software of the controller and BiCU.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC991-00	С	Recoverable software operation error
		Software attempted an unexpected operation.
		SC991 covers recoverable errors as opposed to SC990.
		Parameter error
		Internal parameter error
		Insufficient work memory
		Operation error caused by abnormalities that are normally undetectable.
		Logging only

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC992-00	D	Undefined SC issued
		An SC, that is not controlled by the system, occurred.
		An SC for the previous model was used mistakenly, etc.
		Basically a software bug.
		Cycle the main power OFF/ON.

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)
SC994-	C	Application item error
00		The numbers of executed application items on the operation panel reach the maximum limit
		for the operation panel structure.
		Too many executed application items
		Logging only

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)		
SC997-	D	Application function selection error		
00		The application has not responded to the set command created by SCS within a certain		
		period of time.		
		The application selected ended abnormally.		
		Software bug		
		Check whether an option required by the application (RAM, DIMM, board) is installed		
		properly.		
		Check whether downloaded applications are correctly configured. (Take necessary)		
		countermeasures specific to the application in which the error occurs. In some		
		applications, the logs can be taken from the monitor. If this option is available, analyze		
		the logs.)		

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
SC998-	D	Application start error	
00		After power on, no application program is registered to the system within a	
		predetermined period of time. (no application starts or ends normally.)	
		• Even if they are started, all applications have become unable to be rendered due to an	
		unknown defect.	
		Software bug	
		• An option required by the application (RAM, DIMM, board) is not installed properly	
		Turn the main power switch off and on.	
		• Check whether an option required by the application (RAM, DIMM, board) is installed	
		properly.	

No.	Type	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
		Check whether downloaded applications are correctly configured.	
		Replace the Controller Board.	

# **Process Control Error Conditions**

Developer Initialization Result

### SP-3-014-001 (Developer Initialization Result)

No.	Result	Description		Possible Causes/Action
1	Successfully	Developer initialization is	-	
	completed	successfully completed.		
2	Forced	Developer initialization was	•	A cover was opened or the main switch
	termination	forcibly terminated.		was turned off during the initialization.
			1.	Do the developer initialization again when
				done in SP mode. Reinstall the engine
				main firmware if the result is the same.
			2.	Cycle the main power off and on when
				done at unit replacement.
6	Vt error	Vt is more than 0.7V when Vcnt is	1.	Make sure that the heat seal on the
		4.3V.		development unit is not removed.
			2.	Defective TD sensor
7	Vent error 1	Vent is less than 4.7V when Vent is	1.	Defective TD sensor
		Vt target ±0.2V.	2.	Vt target settings are not correct.
			3.	Toner density error
8	Vent error 2	Vt is more than 0.7V when Vcnt is	1.	Make sure that the heat seal on the
		4.3V and Vent is less than 4.7V		development unit is not removed.
		when Vcnt is Vt target $\pm 0.2$ V.	2.	Defective TD sensor
9	Vent error 3	Vent is less than 4.7V.	1.	Make sure that the heat seal on the
				development unit is not removed.
			2.	Defective TD sensor
			3.	Vt target settings are not correct.
			4.	Toner density error



• The machine starts developer initialization after you set "Enable" in SP3-902-005, 006, 007, or 008. Developer initialization automatically resumes when you open and close the front door or turn the main switch off and on if an error other than Error 8 occurs.

#### Process Control Self-Check Result

Displayed number shows results of each color sensor check.

00000000 = YYCCMMKK

# SP3-012-001 to -010 (Process Control Execute Result)

No.	Result	Description	Possible Causes/Action
11	Successfully completed	Process control self-check successfully	Check the Vsg adjustment. See the
		completed.	"Vsg Adjustment Result"
			following this table.
41	Vt error	Vt maximum or minimum error is	Defective development unit
		detected.	Vt maximum error and an image is
			faint:
			Replace the toner supply
			pump unit.
			Vt maximum error and an image is
			O.K:
			1. Replace the development unit.
			2. Replace the BICU board.
			Vt minimum error:
			1. Replace the development unit.
			2. Replace the BICU board.
53	ID sensor coefficient	Not enough data can be sampled.	Solid image is not sufficient
	(K5) detection error		density:
			1. Retry the process control.
			2. Replace the ID sensors.
			3. Replace the BICU board.
			Solid image is O.K.
			1. Replace the ID sensors.
			2. Replace the BICU board.
			ID sensor is dirty:
			1. Clean the ID sensors.
			2. Retry the process control.
54	ID sensor coefficient	When the K5 is more than the value of	ID sensor pattern density is
	(K5) maximum/	SP3-362-003 or less than the value of	too high or low.
	minimum error	SP3-362-004, the error 54 is displayed.	• ID sensor or shutter is
			defective.
			Same as 53
55	Gamma error:	Gamma is out of range. 5.0 < Gamma	• ID sensor pattern density is
	Maximum		too high.
			Hardware defective.
			Same as 53
56	Gamma error:	Gamma is out of range.	ID sensor pattern density is

No.	Result	Description	Possible Causes/Action
	Minimum	Gamma < 0.15	too low.
			Hardware defective.
			1. Same as 53
			2. Replace the toner supply
			pump unit.
57	Vk error: Maximum	Vk is out of range.	• ID sensor pattern density is
		150 < Vk	too low.
			Hardware defective.
			Same as 53
58	Vk error: Minimum	Vk is out of range.	• ID sensor pattern density is
		Vk <-150	too high.
			Background dirty
			Hardware defective
			Same as 53
59	Sampling data error	Not enough data can be sampled during	• ID sensor pattern density is
	during gamma	the gamma correction.	too high or low.
	correction		Hardware defective
			Same as 53
99	Unexpected error	Process control fails.	Power Failure
			Check the power source.

Vsg Adjustment Result

# $SP3-323-001\ to\ -010\ (Vsg\,Adjustment\,Result)$

No.	Result	Description		Possible Causes/Action
1	O.K	Vsg adjustment is correctly done.	-	
2	ID sensor	Vsg cannot be adjusted within 4.0	•	Dirty ID sensor (toner, dust, or
	adjustment error	±0.5V.		foreign material)
			•	Dirty transfer belt
			•	Scratched image transfer belt
			•	Defective ID sensor
			•	Poor connection
			•	Defective BICU
			1.	Clean the ID sensor.
			2.	Check the belt cleaning. Clean or
				replace the transfer belt.
			3.	Replace the image transfer belt.
			4.	Replace the ID sensor.

No.	Result	Description		Possible Causes/Action
			5.	Check the connection.
			6.	Replace the BICU board.
3	ID sensor output	ID sensor output is more than "Voffset	•	Defective ID sensor
	error	Threshold" (SP3-324-004)	•	Poor connection
			•	Defective BICU
			1.	Replace the ID sensor.
			2.	Check the connection.
			3.	Replace the BICU board.
9	Vsg Adjustment	Vsg adjustment has not been	•	Other cases
	error	completed.	Ret	ry SP3-321-010.

# Line Position Adjustment Result

SP2-194-010 to -012 (Line Position Adjustment Result: M, C, Y)

This SP shows the number as a line position adjustment result on the LCD. It shows which color has an error (M, Y or C).

No.	Result	Description	Note
0	Not done	Line position adjustment has not been done.	-
1	Completed successfully	Line position adjustment has correctly been done,	-
2	Cannot detect patterns	ID sensors have not detected the patterns for line position	See
		adjustment.	Note
3	Fewer lines on the pattern	The patterns, which ID sensors have detected, are not enough for	See
	than the target	line position adjustment.	Note
4	More lines on the pattern	Not used in this machine.	-
	than the target		
5	Out of the adjustment	ID sensors have correctly detected the patterns for line position	See
	range	adjustment, but a shift of patterns is out of adjustable range.	Note
6-9	Not used	-	-



• For details, see the "Troubleshooting Guide - Line Position Adjustment" section.

# **Troubleshooting Guide**

#### Line Position Adjustment

When there are color registration errors on the output, do the line position adjustment as follows.

#### Test

- 1. Do SP2-111-003 (Mode c:rough adjustment).
- 2. Use SP2-194-007 to check if the result of the line position adjustment is correct (0: Completed successfully, 1: Not completed). If the result is "1", refer to 'Countermeasure list for color registration errors'.
- 3. Do SP2-111-001 (Mode a: fine adjustment twice).
- 4. Use SP2-194-007 to check if the result of the line position adjustment is correct (0: Completed successfully, 1: Not completed). If the result is "1", refer to 'Countermeasure list for color registration errors'.
- 5. Put some A4/LT paper on the bypass tray.



- When you print a test pattern, use the bypass tray to feed the paper.
- 6. Print out test pattern "7" with SP2-109-003.
- 7. Check the printed output with a loupe.
- 8. If there are no color registration errors on the output, the line position adjustment is correctly done. If not, refer to the countermeasure list for color registration errors.

#### Countermeasure List for Color Registration Errors

After Executing SP2-111-003

- Result: "1" in SP2-194-007
- Result: "2" or "3" (Line pattern detection failure) in SP2-194-010, -011, -012

Test pattern check	Possible cause/Countermeasure
White image, Abnormal image, Low	Defective image processing unit
density	Low density of test pattern
	Defective BiCU
	Replace the high voltage power supply unit.
	2. Do the forced process control (SP3-011-001) or supply some
	toner (SP3-030-xxx).
	3. Replace the BiCU.
Normal image, but with color	Defective ID sensor shutter
registration errors	Defective ID sensor
	Defective BiCU
	Replace the ID sensor shutter solenoid.
	2. Replace the ID sensor.
	3. Replace the BiCU.

After Executing SP2-111-003

• Result: "1" in SP2-194-007

• One of results: "5" (Out of adjustable range) in SP2-194-010, -011, -012, -013

Test pattern check		Possible cause/Countermeasure
The main scan registrations of M, C, Y, K are shifted by more than	•	Defective laser unit
±15.	•	Defective BiCU
	1.	Perform the color skew adjustment
		(Image Adjustment).
	2.	Replace the laser unit.
	3.	Replace the BiCU.
The sub scan registrations of M, C, Y, K are shifted by more than	•	Defective image transfer belt
±20.	•	Defective drive units
	•	Defective BiCU
	1.	Replace the image transfer belt.
	2.	Replace the drum motor.
	3.	Replace the BiCU.
The main scan registration is shifted by more than $\pm 0.66$ mm, but	•	Defective ID sensor at center
only at the central area of the image on the output.	•	Deformed center area on the image
		transfer belt
	•	Defective BiCU
	1.	Replace the ID sensor.
	2.	Replace the image transfer belt.
	3.	Replace the BiCU.
The skew for M, C, Y, K is more than $\pm 0.75$ mm.	•	Defective PCDU
	•	Defective laser optics housing unit
	•	Defective BiCU
	1.	Perform the color skew adjustment
		(Image Adjustment).
	2.	Reinstall or replace the PCDU.
	3.	Replace the laser optics housing unit.
	4.	Replace the BiCU.
Others	•	Skew correction upper limit error
	•	Defective BiCU
	•	Defective laser optics housing unit
	1.	Perform the color skew adjustment
		(Image Adjustment).
	2.	Replace the BiCU.
	3.	Replace the laser optics housing unit.

After Executing SP2-111-003

• Result: "1" in SP2-194-007

• Result: "0" in SP2-194-010, -011, -012, -013

Test pattern check	Possible cause/Countermeasure	
	Do SP2-111-001 or -002.	

#### After Executing SP2-111-001

• Result: "1" in SP2-194-007

• Result: "2" or "3" (Line pattern detection failure) in SP2-194-010, -011, -012, -013

Test pattern check	Possible cause/Countermeasure
White image, Abnormal image,	Defective laser optics housing unit shutter
Low density	Defective image processing unit
	Low density of test pattern
	Defective BiCU
	1. Replace the shutter motor.
	2. Replace the high voltage power supply unit.
	3. Do the forced process control (SP3-011-001) or supply some
	toner (SP3-030-xxx).
	4. Replace the BiCU.
Normal image, but with color	Defective ID sensor shutter
registration errors	Defective ID sensor
	Defective BiCU
	Replace the ID sensor shutter solenoid.
	2. Replace the ID sensor.
	3. Replace the BiCU.

### After Executing SP2-111-001

• Result: "1" in SP2-194-007

• Result: "5" (Out of adjustable range) in SP2-194-010, -011, -012

Test pattern check	Possible cause/Countermeasure
Low image density on the output	Low pattern density
	Do the forced process control (SP3-011-001) or
	supply some toner (SP3-030-xxx).
The main scan registrations of M, C, Y, K are shifted by	No defective component
more than $\pm 1.4$ .	Defective laser optics housing unit
	Defective BiCU
	1. Do SP2-111-003 again.
	2. Replace the laser optics housing unit.
	3. Replace the BiCU.
The sub scan registrations of M, C, Y are shifted by more	No defective component
than $\pm 1.4$ mm from the sub scan registration of K.	Defective image transfer belt
	Defective drive units

Test pattern check		Possible cause/Countermeasure
	•	Defective BiCU
	1.	Do SP2-111-003 again.
	2.	Replace the image transfer belt.
	3.	Replace the drum motor.
	4.	Replace the BiCU.
The main scan registration is shifted by more than $\pm 0.66$	•	Defective ID sensor at center
mm, but only at the central area of the image on the output.	•	Deformed center area on the image transfer
		belt
	•	Defective BiCU
	1.	Replace the ID sensor.
	2.	Replace the image transfer belt.
	3.	Replace the BiCU.
The skew for M, C, Y, K is more than $\pm$ 0.75 mm at the end	•	Defective PCDU
of the scan line?	•	Defective laser optics housing unit
	•	Defective BiCU
	1.	Perform the color skew adjustment (Image
		Adjustment).
	2.	Reinstall or replace the PCDU.
	3.	Replace the laser optics housing unit.
	4.	Replace the BiCU.
Others	•	Skew correction upper limit error
	•	Defective BiCU
	•	Defective laser optics housing unit
	1.	Replace the BiCU.
	2.	Perform the color skew adjustment (Image
		Adjustment).
	3.	Replace the laser optics housing unit.

After Executing SP2-111-001

• Result: "0" in SP2-194-007

• Result: Color registration errors in SP2-194-010, -011, -012, -013

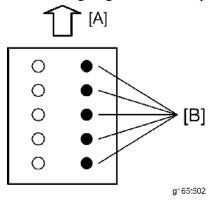
Test pattern check	Possible cause/Countermeasure
Low image density on the output	Low pattern density
	Do the forced process control (SP3-011-001) or
	supply some toner (SP3-030-xxx).
The main scan registration is shifted, but only at the	Defective ID sensor at center
central area of the image on the output.	Deformed center area on the image transfer belt
	Defective BiCU

Test pattern check	Possible cause/Countermeasure
	1. Replace the ID sensor.
	2. Replace the image transfer belt.
	3. Replace the BiCU.
The main scan registrations of M, C, Y, K are shifted.	Defective laser optics housing unit
	Defective ID sensor
	Defective BiCU
	Incorrect SP value
	Perform the color skew adjustment (Image
	Adjustment).
	2. Replace the laser optics housing unit.
	3. Replace the ID sensor.
	4. Replace the BiCU.
	5. Adjust the value with SP2-182-004 to -021.
The sub scan registrations of M, C, Y, K are shifted.	Defective image transfer belt
	Defective drive units
	Defective ID sensor
	Defective BiCU
	Incorrect SP value
	1. Replace the image transfer belt.
	2. Replace the ID sensor.
	3. Replace the drum motor.
	4. Replace the BiCU.
	5. Adjust the value with SP2-182-022 to -039.
The skew of M, C, Y, K is different.	Defective PCDU
	Defective laser optics housing unit
	Defective BiCU
	1. Reinstall or replace the PCDU.
	2. Perform the color skew adjustment (Image
	Adjustment).
	3. Replace the laser optics housing unit.
	4. Replace the BiCU.
The sub scan lines are shifted. Shifted lines appear	Defective PCDU
eyelically.	Defective drive unit
	Drum phase adjustment error
	1. Reinstall or replace the PCDU.
	2. Check or replace the drive unit.

#### Problem at Regular Intervals

Image problems may appear at regular intervals that depend on the circumference of certain components.

The following diagram shows the possible symptoms (black or white dots at regular intervals).



[A]: Paper feed direction

[B]: Problems at regular intervals

• Abnormal image at 33.6-mm intervals: Charge roller

• Colored spots at 40.82-mm intervals: Image transfer roller

• Colored spots at 20.9-mm intervals: Development roller

• Abnormal image at 55.4 (center) or 55.0 (end)-mm intervals: Paper transfer roller

• Colored spots at 75.4-mm intervals: OPC drum

• Spots at 78.5-mm intervals: Pressure roller

• Spots at 78.5-mm intervals: Fusing belt

#### Blank Print

Symptom	Possible cause	Necessary actions
No image is printed.	Defective laser unit	Replace the laser unit.
	Defective PCDU	Replace the PCDU.
	Defective image transfer belt unit	Replace the image transfer belt unit.
	Incorrect action of paper transfer roller	Check the guide and the paper transfer roller.
	Defective HVPS	Replace HVPS.
	Defective BiCU	Replace the BiCU.

#### All-Black Print

Symptom	Possible cause	Necessary actions
All the paper is black.	Incorrectly installed PCDU	Install the PCDU correctly.
	Defective PCDU	Replace the PCDU.
	Defective HVPS	Replace the HVPS.
	Defective laser unit	Replace the laser unit.
	Defective BiCU	Replace the BiCU.

Symptom	Possible cause	Necessary actions
	Defective main board	Replace the main board.

## Missing CMY Color

Symptom	Possible cause	Necessary actions
C, M, or Y is	Defective PCDU	Replace the PCDU.
missing.	Loose connection between printer cartridge and	Replace the drum positioning
	BiCU	cover.
	Image transfer belt not contacting PCDU	Check the belt tension unit.
	Defective the drum motor: CMY	Replace the drum motor: CMY.
	Defective BiCU	Replace the BiCU.

## Light Print

Symptom	Possible cause	Necessary actions
Printed images are	Loose connection between paper	Check the connection between the paper
too weak.	transfer roller and HVPS	transfer roller and the HVPS.
	Dust in the laser beam path	Clean the laser beam path.
	Image transfer belt not contacting	Check the image transfer belt unit.
	PCDU	
	Defective PCDU	Replace the PCDU.
	Defective paper transfer roller	Repair the paper transfer roller.
	Defective fusing unit	Replace the fusing unit.
	Defective BiCU	Replace the BiCU.

## Repeated Spots or Lines on Prints

The same spots or lines appear at regular intervals.

Interval	Possible cause	Necessary actions
At intervals of 33.6 mm (1.32 inches)	Defective charge roller	Replace the PCDU.
At intervals of 20.9 mm (0.82 inches)	Defective development	Replace the PCDU.
	roller	
At intervals from 55.0 (end) to 55.4 (center) mm	Defective paper transfer	Replace the paper transfer
(from 2.16 to 2.18 inches)	roller	roller unit.
At intervals of 75.4 mm (2.96 inches)	Defective OPC drum	Replace the PCDU.
At intervals of 78.5 mm (3.09 inches)	Defective pressure	Replace the pressure roller or
	roller	fusing unit.
At intervals of 78.5 mm (3.09 inches)	Defective fusing belt	Replace the fusing unit.
At intervals of 40.82 mm (1.60 inches)	Defective image	Replace the image transfer

#### 6. Troubleshooting

Interval	Possible cause	Necessary actions
	transfer roller	roller.

### Dark Vertical Line on Prints

Symptom	Possible cause	Necessary actions
A dark line in one CMY color appears. The line is parallel	Defective PCDU	Replace the PCDU.
to the paper feed direction.		
A dark line in any color (not C, M, or Y) appears. The line	Dust in the laser beam	Clean the laser beam
is parallel to the paper feed direction.	path	path.
	Defective image	Replace the image
	transfer belt unit	transfer belt unit.
	Defective fusing unit	Replace the fusing unit.

### White Horizontal Lines or Bands

Symptom	Possible cause	Necessary actions
White lines or bands appear in	Defective PCDU	Replace the PCDU.
images.	Defective image transfer belt	Replace the image transfer belt
	unit	unit.
	Defective paper transfer roller	Replace the paper transfer roller.

## Missing Parts of Images

Symptom	Possible cause	Necessary actions
Some parts of images are missing.	Defective PCDU	Replace the PCDU.
	Defective image transfer belt unit	Replace the image transfer belt unit.
	Defective paper transfer roller	Replace the paper transfer roller.
	Defective fusing unit	Replace the fusing unit.

## Dirty Background

Symptom	Possible cause	Necessary actions
Backgrounds of one CMYK color are too dense.	Defective PCDU	Replace the PCDU.
Backgrounds of more than one CMYK color are too dense.	Defective HVPS	Replace the HVPS.

## Partial CMY Color Dots

Symptom	Possible cause	Necessary actions
Unexpected dots of the same color appear at	Defective PCDU	Replace the PCDU.
irregular intervals.	Defective image transfer	Replace the image transfer

Symptom	Possible cause	Necessary actions
	belt unit	belt unit.
	Defective fusing unit	Replace the fusing unit.

## Dark Irregular Streaks on Prints

Symptom	Possible cause	Necessary actions
Unexpected streaks appear at irregular	Defective image transfer	Replace the image transfer belt
intervals.	belt	unit.

## CMY Color Irregular Streaks

Symptom	Possible cause	Necessary actions
Unexpected streaks of the same color appear at	Defective PCDU	Replace the PCDU.
irregular intervals.	Defective image transfer	Replace the image transfer
	belt unit	belt unit.

### Ghosting

Symptom	Possible cause	Necessary actions
The same or similar image appears two or more times. They get	Defective PCDU	Replace the PCDU.
weaker and weaker.	Defective transfer	Replace the transfer
	unit	unit.

## Unfused or Partially Fused Prints

Symptom	Possible cause	Necessary actions
Some parts of images are not fused very	Non-standard paper in	Use recommended paper.
well.	use	
	Incorrect media type	Select an appropriate mode for the
	mode	media.
	Defective fusing unit	Replace the fusing unit.

## Image Skew

Symptom	Possible cause	Necessary actions	
Images are	Incorrect installation	Install the paper correctly.	
skewed	of paper		
	Incorrect paper guide	Adjust the paper guide correctly.	
	position	Note	
		When adjusting the paper width, use the right side guide	

## 6. Troubleshooting

Symptom	Possible cause	Necessary actions
		only, with the green clip. Do not hold the left side guide at
		this time, or skew will occur.
	Defective registration	Repair the paper feed unit.
	roller	
	Incorrect action of	Check the paper transfer roller.
	paper transfer roller	
	Defective BiCU	Replace the BiCU.
	Incorrect installation	Uninstall the paper tray units and re-install them.
	of paper tray	

## Background Stain

Symptom	Possible cause	Necessary actions
The reverse side of the paper is not clean.	Dirty paper transfer roller	Clean the paper transfer roller.
	Dirty paper path	Clean the paper path.
	Dirty registration roller	Clean the registration roller.
	Defective fusing unit	Replace the fusing unit.

## No Printing on Paper Edge

Symptom	Possible cause	Necessary actions
Images are not printed in the areas around	Defective PCDU	Replace the PCDU.
the paper edges.	Defective toner cartridge	Replace the toner cartridge.
	Defective image transfer belt	Replace the image transfer
	unit	belt unit.
	Image transfer belt not	Check the image transfer
	contacting PCDU	belt unit.

## Image Not Centered When It Should Be

Symptom	Possible cause	Necessary actions
Images do not come to the	Incorrect installation of paper	Install the paper correctly.
center.	Incorrect paper guide position	Adjust the paper guide correctly.
	Incorrect margin setting	Adjust the margin setting.
	Defective BiCU	Replace the BiCU.
	Incorrect installation of paper	Uninstall the paper tray units and re-install
	tray	them.

### **Jam Detection**

#### Paper Jam History

#### **Checking Logs**

Plotter (print engine) jam history can be displayed using SP7-507. The jam history of the 10 latest jams is displayed.

- SP7-507-001 "Plotter Jam: History Latest"
- SP7-507-002 "Plotter Jam: History Latest1"
- SP7-507-003 "Plotter Jam: History Latest2"
- SP7-507-004 "Plotter Jam: History Latest3"
- SP7-507-005 "Plotter Jam: History Latest4"
- SP7-507-006 "Plotter Jam: History Latest5"
- SP7-507-007 "Plotter Jam: History Latest6"
- SP7-507-008 "Plotter Jam: History Latest7"
- SP7-507-009 "Plotter Jam: History Latest8"
- SP7-507-010 "Plotter Jam: History Latest9"

#### Jam Display

SP7-507 shows the paper jam history.

CODE :011 SIZE :05h TOTAL:000034 DATE :Fri Feb 15 11:44:50 2006

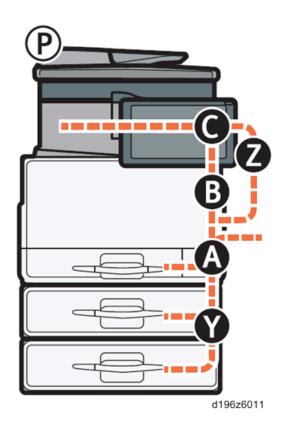
- **CODE**: Indicates the jam code.
- **SIZE**: Indicates the paper size code.
- **TOTAL**: Indicates the total counter (SP7-502-001).
- **DATE**: indicates the date when the jam occurred.



Initial jams at power on are not displayed here.

#### Jam Codes and Display Codes

If a paper jam occurs, the machine displays the location where the jam occurs on the operation panel.

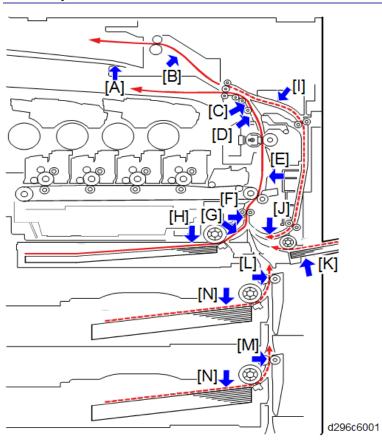


SP7-504 and SP7-505 (for ADF) show how many jams occurred at each location.

Jam	Description	SP No.	Indication on the operation
Code			panel
001	Initial jam at power on	7-504-001	B, C, Z, Y1, Y2, P
		7-505-001(for	
		ADF)	
003	Paper is not fed from 1st tray.	7-504-003	A
004	Paper is not fed from 2nd tray.	7-504-004	Y1
005	Paper is not fed from 3rd tray.	7-504-005	Y2
008	Paper is not fed from the bypass tray.	7-504-008	A
009	Paper is jammed at the duplex unit.	7-504-009	Z
012	Paper is not fed from the vertical transport	7-504-012	Y1
	sensor 1.		
017	Registration sensor does not detect paper, and	7-504-017	A
	paper exit sensor turns on.		
018	Fusing entrance sensor does not detect paper.	7-504-018	В
019	Fusing exit sensor does not detect paper.	7-504-019	С
020	Paper exit sensor does not detect paper.	7-504-020	С
021	1-bin tray exit sensor does not detect paper.	7-504-021	С
025	Duplex exit sensor does not detect paper.	7-504-025	Z
026	Duplex entrance sensor does not detect paper.	7-504-026	Z

Jam	Description	SP No.	Indication on the operation
Code			panel
052	Vertical transport sensor 1 does not turn off.	7-504-052	Y1
053	Vertical transport sensor 2 does not turn off.	7-504-053	Y2
057	Registration sensor does not turn off.	7-504-057	В
060	Paper exit sensor does not turn off.	7-504-060	С
061	1-bin tray exit sensor does not turn off.	7-504-061	С
065	Duplex exit sensor does not turn off.	7-504-065	Z
066	Duplex entrance sensor does not turn off.	7-504-066	Z
004	ADF registration sensor does not turn off.	7-505-004	P
013	ADF feed sensor does not detect paper.	7-505-013	P
054	ADF registration sensor does not turn off.	7-505-054	P
063	ADF feed sensor does not turn off.	7-505-063	P
099	Double-feed detected.	-	Message is displayed on the
			operation panel.
100	ADF drive motor is defective.	7-505-100	P

## Sensor Layout



Callout	Sensor	Callout	Sensor
[A]	1-bin tray paper remaining sensor	[H]	Tray paper end sensor
[B]	1-bin tray exit sensor	[I]	Duplex entrance sensor

#### 6. Troubleshooting

Callout	Sensor	Callout	Sensor
[C]	Paper exit sensor	[J]	Duplex exit sensor
[D]	Fusing exit sensor	[K]	Bypass paper end sensor
[E]	Fusing entrance sensor	[L]	Vertical transport sensor 1
[F]	Registration sensor	[M]	Vertical transport sensor 2
[G]	Paper feed sensor	[N]	PFU paper end sensor

## Paper Size Code

Size Code	Paper Size	Size Code	Paper Size
05	A4 LEF	141	B4 SEF
06	A5 LEF	142	B5 SEF
14	B5 LEF	160	DLT SEF
38	LT LEF	164	LG SEF
44	HLT LEF	166	LT SEF
133	A4 SEF	172	HLT SEF
134	A5 SEF	255	Others

# **Electrical Component Defects**

### Sensors

No.	Sensor Name/	Active	CN No./	Condition	Symptom
	Sensor Board Name		Pin No.		
S1	Bypass Lift Sensor	Н	CN523/11	Open	SC508
				Shorted	
S2	By-pass Paper End Sensor	L	CN523/5	Open	Paper is detected on the by-pass
					tray when no paper is set.
				Shorted	Paper is not detected on the by-
					pass tray when paper is set.
S3	By-pass Paper Size Sensor	L	CN523/2	Open	A4/LT size is not detected.
				Shorted	A4/LT size is detected.
S4	Duplex Entrance Sensor	L	CN523/14	Open	Jam Z (Jam 26)
				Shorted	Jam Z (Jam66)
S5	Fusing Entrance Sensor	L	CN523/20	Open	Jam B (Jam 18)
				Shorted	Jam C
S6	Duplex Exit Sensor	L	CN523/23	Open	Jam Z (Jam 25)
				Shorted	Jam Z
S7	Fusing Exit Sensor	L	CN525/8	Open	Jam C (Jam 19)
				Shorted	Jam C
S8	Fusing Thermopile	A	CN525/6	Open	SC541
				Shorted	
S9	TD Sensor (Mu ( <sup>1</sup> / <sub>4</sub> )	A	CN539/8	Open	PCU setting Error occurs.
	Sensor) (K)			Shorted	
S10	TD Sensor (Mu ( <sup>1</sup> / <sub>4</sub> )	A	CN540/8	Open	PCU setting Error occurs.
	Sensor) (C)			Shorted	
S11	TD Sensor (Mu ( <sup>µ</sup> )	A	CN540/16	Open	PCU setting Error occurs.
	Sensor) (M)			Shorted	
S12	TD Sensor (Mu ( <sup>1</sup> / <sub>4</sub> )	A	CN540/22	Open	PCU setting Error occurs.
	Sensor) (Y)			Shorted	
S13	ID Sensor	A	CN555/6,7,10,11	Open	SC370
				Shorted	
S14	ITB Contact HP Sensor	L	CN543/12	Open	SC442
				Shorted	
S15	Tray Paper End Sensor	L	CN559/12	Open	Paper end is detected when there
					is paper in the paper tray.
				Shorted	Paper end is not detected when

No.	Sensor Name/	Active	CN No./	Condition	Symptom
	Sensor Board Name		Pin No.		
					there is no paper in the paper
					tray.
S16	Paper Feed Sensor	L	CN559/14	Open	Jam A
				Shorted	Normal operation
S17	ADF Set Sensor	L	CN403/2	Open	ADF open cannot be detected.
				Shorted	
S19	Registration Sensor	L	CN559/17	Open	Jam A (Jam 17)
				Shorted	Jam B
S20	Scanner HP Sensor	Н	CN403/5	Open	SC120, SC121
				Shorted	
S21	Temperature/Humidity	A	CN526/6,8	Open	Printed image is wrong,
	Sensor			Shorted	such as rough image, dirty
					background or weak image.
					• SC498
S22	Toner End Sensor (C)	A	CN539/16	Open	SC374
				Shorted	
S23	Toner End Sensor (M)	A	CN539/15	Open	SC373
				Shorted	
S24	Toner End Sensor (Y)	A	CN539/14	Open	SC375
				Shorted	
S25	Waste Toner Full Sensor	Н	CN543/4	Open	Waste toner full is detected
					when it is not near full.
				Shorted	Waste toner full cannot be
					detected when the waste toner
					bottle is nearly full.
S26	Tray Lift Sensor	Н	CN543/7	Open	SC501
				Shorted	
S27	Paper Exit Sensor	L	CN525/11	Open	Jam C (Jam 20)
				Shorted	Jam C (Jam 60)
S28	ADF Feed Sensor	L	CN404/3	Open	Jam P
				Shorted	
S29	Top Cover Set Sensor	L	CN404/24	Open	Top cover open cannot be
				Shorted	detected.
S30	Original Set Sensor	L	CN404/26	Open	Original set cannot be detected.
				Shorted	
S31	ADF Registration Sensor	L	CN404/28	Open	Jam P
	<u>.                                      </u>	1	1		I .

No.	Sensor Name/	Active	CN No./	Condition	Symptom
	Sensor Board Name		Pin No.		
				Shorted	
TH1	Pressure Roller Thermistor	A	CN525/23	Open	SC571
	(Edge:Rear)			Shorted	
TH2	Pressure Roller Thermistor	A	CN525/21	Open	SC561
	(Center)			Shorted	
TH3	Pressure Roller Thermistor	A	CN525/25	Open	SC591
	(Edge:Front)			Shorted	
TH4	Image Creation	A	CN526/4	Open	SC497
	Temperature Sensor			Shorted	
TH5	Fusing Thermistor (NC	A	CN525/27	Open	SC581
	sensor)			Shorted	
SW4	Right Cover Switch	L	CN559/19	Open	"Cover closed" cannot be
					detected.
				Shorted	"Open Cover" cannot be
					detected.
SW5	Tray Set Switch	L	CN543/15	Open	Paper tray cannot be detected.
				Shorted	Paper tray is detected when the
					paper tray is not set.
SW6	Waste Toner Bottle Set	L	CN535/1	Open	Waste toner bottle cannot be
	Switch				detected.
				Shorted	Waste toner bottle is detected
					when the waste toner bottle is
					not set.

### Fuse Location

## 100V (Mainly NA)

Fuse	Connector (Out)	Capacity	Voltage	Part No.	Part Name	Replaceable
Name						
FU1	CN611-1 (24V)	10A	250V	11071393	51MS(P)-100H	No
					GF-009	
FU2	CN610-1 (24VL)	10A	250V	11071393	51MS(P)-100H	No
					GF-009	
FU3	CN610-2 (24VL_LPS)	4A	250V	11071360	SCT4A	No
FU4	CN611-3 (24V_LPS)	4A	250V	11071393	51MS(P)-100H	No
					GF-009	

### 6. Troubleshooting

Fuse	Connector (Out)	Capacity	Voltage	Part No.	Part Name	Replaceable
Name						
FU5	CN613-2 (5V)	5A	250V	11071351	SCT5A	No
FU102	N/A (Protecting the voltage	10A	250V	11071388	FIH 250V	No
	converter circuit in the PSU)				10A(EM)8A03	
FU101	N/A (Protecting the fusing	15A	250V	11071241	TCL-15A-N4	Yes
	circuit in the PSU)					
FU103	CN600-4,5 (Anti-	2A	250V	11071362	SCT2A	No
	condensation Heater)					

## 200V (Mainly EU)

Fuse	Connector (Out)	Capacity	Voltage	Part No.	Part Name	Replaceable
Name						
FU1	CN611-1 (24V)	10A	250V	11071393	51MS(P)-100H	No
					GF-009	
FU2	CN610-1 (24VL)	10A	250V	11071393	51MS(P)-100H	No
					GF-009	
FU3	CN610-2 (24VL_LPS)	4A	250V	11071360	SCT4A	No
FU4	CN611-3 (24V_LPS)	4A	250V	11071393	51MS(P)-100H	No
					GF-009	
FU5	CN613-2 (5V)	5A	250V	11071351	SCT5A	No
FU102	N/A (Protecting the voltage	8A	250V	11071366	FIH 250V	No
	converter circuit in the PSU)				8A(EM)8A03	
FU101	N/A (Protecting the fusing	8A	250V	11071366	FIH 250V	No
	circuit in the PSU)				8A(EM)8A03	
FU103	CN600-4,5 (Anti-	1A	250V	11071367	SCT1A	No
	condensation Heater)					

## **Other Troubleshooting**

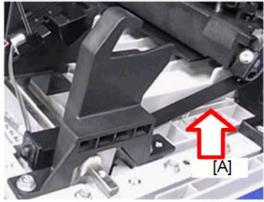
### When You Cannot Open the Right Door

#### Problem:

The right cover (duplex unit) does not open, even if the opening/closing lever is operated.

#### Causes:

When replacing parts, for example, the duplex unit, hooking the hook band [A] has been forgotten, so the opening/closing lever and the duplex hook parts do not work together. (Tension is not applied.)

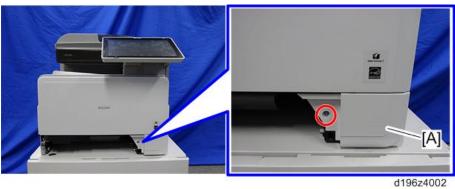


d296c6007

#### **Solutions:**

Release the hook, and then attach the belt.

- **1.** Pull out the paper tray.
- **<u>2.</u>** Remove the front lower cover [A].  $(\mathfrak{P} \times 1)$



505

# 6.Troubleshooting



d196z4082

Remove the interlock switch cover [A].  $( \circ ) \times 3 )$ <u>4.</u>



 $\underline{\mathbf{5.}}$  Remove the bracket.  $(\mathbb{S}^p \times 1)$ 



506

**6.** Release the hook [A] from the hole where the bracket was removed.



#### When Fluorescent or LED Lamps Flicker

#### **Problem:**

Under the usage environment of this machine, at the placement location, fluorescent and/or LED lamps flicker.

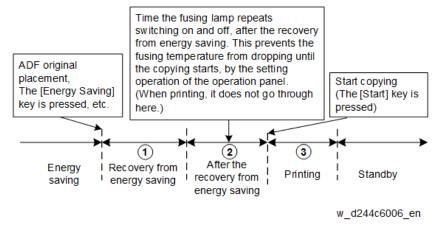
#### Causes:

This is a result of the voltage drop that occurs when power is applied to the fusing lamp. It depends on the electrical power environment at the customer's location.

#### **Solutions:**

The procedure varies by the flicker occurrence timing. So check the occurrence timing, and do the procedure that matches the timing.

#### **Occurrence Timing:**



Timing	Solutions	Side Effect
1	Set SP1-135-001 (Inrush	Recovery time from energy saving becomes slower
Recovery from energy	Control) to "1 (ON)."	approx. 0.4 sec.
saving		
②After the recovery	Set SP1-135-001 (Inrush	Recovery time from energy saving becomes
from energy saving	Control) to "1 (ON)."	slower approx. 0.4 sec
	Set SP1-190-001 (Flicker	• If the adhesion amount of an image is large, an
	Control) to "1 (ON)."	offset may occur.

#### 6. Troubleshooting

Timing	Solutions	Side Effect
		• If a fusing offset occurs, in the related SP to fusing offsets, setting values must be changed
<sup>3</sup> Printing	Set SP1-190-001 (Flicker Control) to "1 (ON)".	<ul> <li>If the adhesion amount of an image is large, an offset may occur.</li> <li>If a fusing offset occurs, in the related SP to fusing offsets, setting values must be changed.</li> </ul>

#### **Related SP to Fusing Offsets**

SP Name	SP No.	Value
Print Target	SP1-105-	As initial values + 10 °C are the upper limits, change values
Temp.:Plain1:FC:Center	001	to improve offsets.
Print Target	SP1-105-	
Temp.:Plain1:BW:Center	003	
Print Target	SP1-105-	
Temp.:Plain2:FC:Center	005	
Print Target	SP1-105-	
Temp.:Plain2:BW:Center	007	
Print Target Temp.:Thin:FC:Center	SP1-105-	
	009	
Print Target	SP1-105-	
Temp.:Thin:BW:Center	011	
Print Target Temp.:M-	SP1-105-	
thick:FC:Center	013	
Print Target Temp.:M-	SP1-105-	
thick:BW:Center	015	

#### When Abnormal Noise Occurs

When abnormal noise occurs while the machine is operating, identify where the noise comes from by using various output checks. However, for the fusing unit drive, work through the check procedures given below.

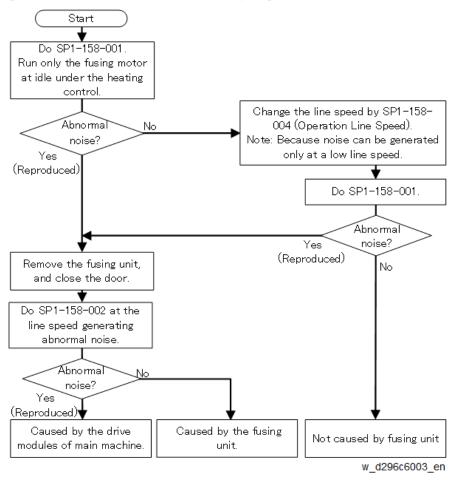
#### **A**CAUTION

Because damaged or dirty parts can lead to secondary failure, always follow the procedure.

Take particular care not to be caught in the rotating parts of the motors and/or gears.

When the abnormal noise is coming from the fusing unit, work through the following flow chart, and check whether the fusing unit is the cause, by using SP1-158 (Abnormal Noise Confirmation).

If the fusing unit is the cause, replace the fusing unit. If the drive module is the cause, in addition perform the operation check of various motors by using output checks, to identify which motor is the cause.



#### Related SPs

SP No.	SP Name	Function	Description
SP1-	Abnormal Noise Confirmation:	The fusing motor rotates with	Fails if the fusing unit is not
158-001	Unit: Execute	the heating control.	installed or the cover is open
SP1-	Abnormal Noise Confirmation:	The fusing motor rotates	Fails if the fusing unit is
158-002	No Unit: Execute	without the heating control.	installed or the cover is open
SP1-	Abnormal Noise Confirmation:	Rotates during this time.	-
158-003	Operation Time	Initial value: 20 sec.	
SP1-	Abnormal Noise Confirmation:	Line speed at the time of	* : Only for MP C407
158-004	Operation Line Speed	rotation	
		0: 89 mm/s	
		1: 178 mm/s	
		2: 212 mm/s *	
		3: 252 mm/s *	

### 6. Troubleshooting

SP No.	SP Name	Function	Description
SP1-	Abnormal Noise Confirmation:	Temperature setting for SP1-	Do not change
158-005	Heat Center Target Temp	153-001 (Unit: Execute)	
SP1-	Abnormal Noise Confirmation:	Temperature setting for SP1-	
158-007	Press Target Temp	153-001 (Unit: Execute)	

# 7. Detailed Descriptions

## Differences between MP C307/C407 and C306/C406

The following table describes the differences between MP C307/C407 and C306/C406 series:

Items	MP C307/C407	MP C306/C406	Note
Mainframe			
Controller	16S	15S	
OCR	Improvement on OCR performance	-	
Higher Yield Toner	Supported (only for C407)	Not available	
Air Print	Supported	Not available	Installation of USB options is required for using this.
Smart Apps UI	Supported	Not available	
Exit and	DCSOL switching + double clutch method	Rotary SOL	
inverter		switching method	
ADF set sensor	Hanging shape of the detection feeler	-	
Auto remote	Supported from the initial production	Supported	
firmware		from the	
update		middle of mass	
(ARFU)		production	
PM parts list	Available	Not available	
menu	Printing and display of a PM counters list is available.		
Laser unit	Adjustment is not required after replacing.	Adjustment is	
		required after replacing.	
Options		replacing.	
Platen cover	Not available	Available by	
	(SPDF is installed as a standard feature for	option	
	all models.)		
ADF	SPDF (Standard)	ARDF (ARDF	
	The CIS of back reading has been added.	DF1040)	
	This requires adjustment when replacing of	Adjustment is	

### 7.Detailed Descriptions

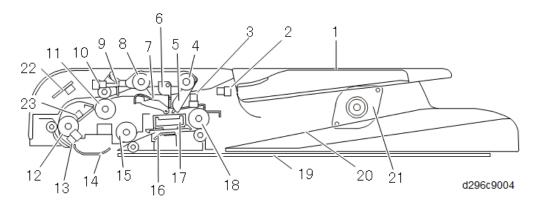
Items	MP C307/C407	MP C306/C406	Note
	the CIS unit or SPDF.		
	the CIS unit of SPDF.	not required	
Doman Food	. DD1090	after replacing. PB1080	DD1000TE is DELLywhich con
Paper Feed Unit	• PB1080	PB1080	PB1080TE is PFU which can
	PB1080TE (Only for NA)  BN1030	BN1020	be locked with a key.
1 Bin Tray IEEE			Only for NA/ELI/AA
	Type M19 (Common with MP)	Type M2	Only for NA/EU/AA
802.11a/g/n Interface Unit	(Common with MP C6004/C5504/C4504/C3504/C3004)		
IEEE 1284	<u> </u>	Tyma A	
Interface	Type M19  (Common with MP)	Type A	
	(Common with MP		
Board	C6004/C5504/C4504/C3504/C3004)		
Bluetooth	Not available	Type D	
Interface Unit			
Page Keeper	Type M28	Not available	Only for NA/EU
Camera	Type M26	Type M13	
Direct Print			
Card			
PostScript3	Available by option (Type M28)	Standard	PS3 will be offered as an
Unit			option, as MP C307/C407 is
			implemented of the PDF/PS
			clone standard. For more
			details, please refer to PPLI.
XPS Direct	Type M28	Type M13	
Print Option			
USB Device	Type M19	Type M12	Only for NA/EU/AA/KOR
Server Option	(Common with MP		
	C6004/C5504/C4504/C3504/C3004)		
Extended	Type M19	Not available	
USB Board	(Common with MP		
	C6004/C5504/C4504/C3504/C3004)		
Fax Option	Type M28	Type M13	
Fax	Type M28	Type M13	
Connection			
Unit			
File Format	Type M19	Type E	

### 7.Detailed Descriptions

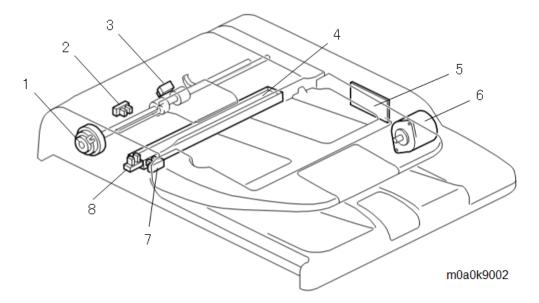
Items	MP C307/C407	MP	Note
		C306/C406	
Converter	(Common with MP		
	C6004/C5504/C4504/C3504/C3004)		
Data	Type M19	Type I	
Overwrite	(Common with MP		
Security	C6004/C5504/C4504/C3504/C3004)		

# **ADF Unit**

## Overview



No.	Name	No.	Name
1	Original tray	13	Transport sensor
2	Top cover set sensor	14	Scanning guide plate (front side)
3	Original set sensor	15	Pre-scanning roller (rear side)
4	Pick-up roller	16	Scanning guide plate (rear side)
5	Original set sensor actuator	17	CIS
6	Stopper	18	ADF exit roller
7	Friction pad	19	Platen
8	Feed roller	20	Original exit tray
9	ADF feed sensor actuator	21	ADF drive motor
10	ADF feed sensor	22	Double-feed sensor unit (receiver) (Option)
11	ADF entrance roller	23	Double-feed sensor unit (emitter) (Option)
12	Pre-scanning roller (front side)		

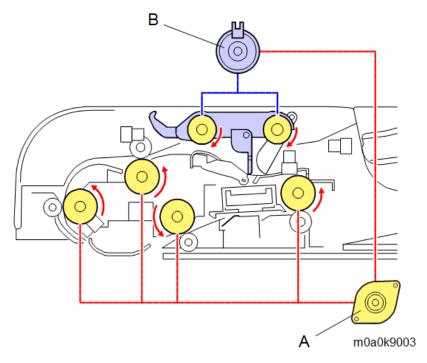


No.	Name	No.	Name
1	ADF feed roller clutch	5	ADF relay board
2	ADF feed sensor	6	ADF drive motor
3	ADF transport sensor	7	Top cover sensor
4	CIS	8	Original set sensor

### Original Transport Drive

The ADF drive motor [A] drives all ADF rollers via gears.

The feed roller clutch [B] controls the mechanism for picking up the original.

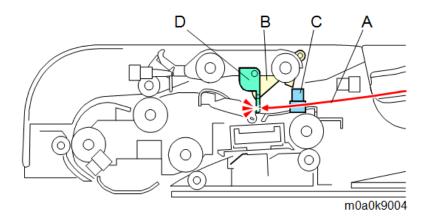


### Original Set Detection

When an original [A] is placed on the original tray correctly, the original set sensor actuator [B] is pushed up and the original set sensor [C] turns off (not interrupted). The machine judges this state as the placement of an original.

The stopper [D] prevents the user from placing originals too far into the feeder.

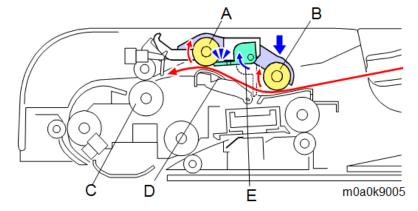
#### 7. Detailed Descriptions



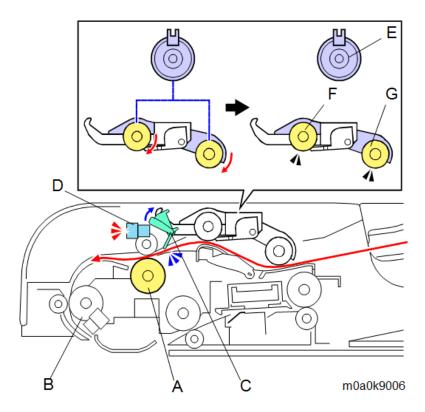
#### Original Transport Path

When [Start] is pressed, the feed roller clutch is turned ON. Then the feed roller [A] rotates to drop the pick-up roller [B] onto the top original of the stack. This moves the stopper [E] out of the way, and the original can be fed from the feed roller [A] to the ADF entrance roller [C].

The friction pad [D] ensures that only one sheet of the original enters the feeder at a time.

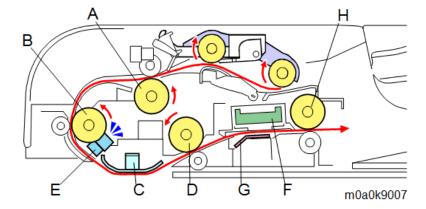


When the original reaches the pre-scanning (front side) roller [B] via the ADF entrance roller, the original moves the feed sensor actuator [C] and the feed sensor [D] is turned ON. Then the feed roller clutch [E] is turned OFF to stop the feed roller [F] and the pick-up roller [G], to prevent the next original from being picked up.



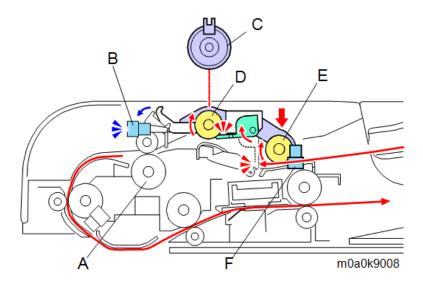
The original is fed by the ADF entrance roller [A] and the pre-scanning (front side) roller [B], scanned on the exposure glass under the scanning guide plate (front side) [C], and then delivered by the pre-scanning (rear side) roller [D].

The feeding of the original is detected by transport sensor [E]. If an error occurs, it is reported as a paper jam. The original is fed by the pre-scanning (rear side) roller [D], scanned by the ADF CIS [F] on the scanning guide plate (rear side) [G], and then fed out by the exit roller [H].



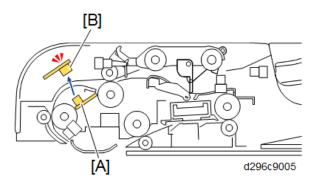
When the original passes through the ADF entrance roller [A], the feed sensor [B] is detected OFF. If the next original is set, the original set sensor [F] detects ON and the feed roller clutch [C] is turned ON. Then, the feed roller [D] and pick-up roller [E] rotate to pick up the next original.

#### 7. Detailed Descriptions

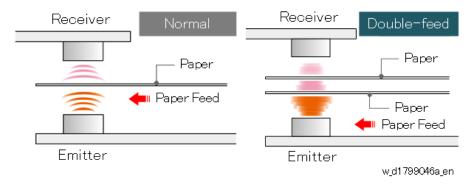


#### Double-feed Detection (Optional)

A pair of ultrasound sensors are mounted in the ADF, one below the original feed path (emitter [A]) and the other above the path (receiver [B]).



- When the original passes between the sensors, an ultra-sound wave from the emitter sensor below passes through the paper to the receiver above.
- The receiver converts the signal generated by the vibration of the signal against the paper to an electrical pulse and checks its level.
- If a double feed occurs, the space between the sheets will generate a lower signal. When the receiver detects this lower signal (lower than that of a single sheet) it causes the machine to issue Jam Code J099 (double-feed detected) and then original feed stops.



This double feed detection will not function with originals that have:

- Folds, wrinkles, tears
- Holes
- Imperfectly fused images
- Perforations
- Taped connections
- Taped surfaces

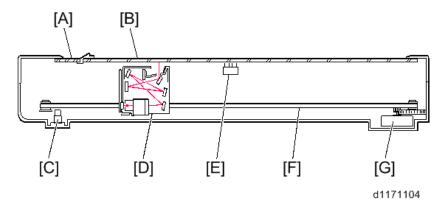
Feeding such originals could cause false detection of double-feeds.

The service technician can also switch double-feed detection off/on with SP6-040-001 (Page Keeper: Mount Select, Default 0: Off).

Do not change the settings of SP6-040-005 (Page Keeper: Clear Select).

## **Scanner Unit**

#### Overview



Callout	Item	Callout	Item
[A]	Exposure glass (for ADF)	[E]	ADF set sensor
[B]	Exposure glass (for platen mode)	[F]	Scanner carriage drive belt
[C]	Scanner HP sensor	[G]	Scanner motor
[D]	Scanner carriage		



• Automatic paper size detection is not available because this model has no APS (sensor that detects original's paper size) in the scanner.

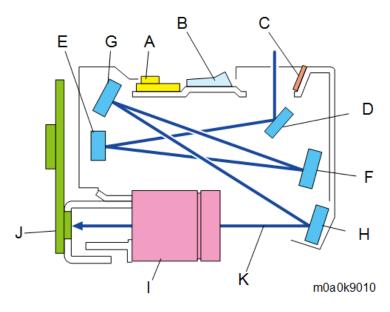
### Light Source and Exposure

This model uses an LED for the light source. Light from the LED array board (LEDB) [A] goes to the original via the light guiding panel [B] and the reflector [C]. Then from the original, the light follows the light path to the CCD.

The elements in the array are more densely spaced at the ends than at the center, to make sure that enough light reaches the left and right edges of the original.

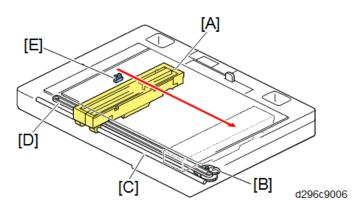
The light reflected from the original travels as follows:

LED exposure ->  $1^{st}$  mirror [D] ->  $2^{nd}$  mirror [E] ->  $3^{rd}$  mirror [F] ->  $4^{th}$  mirror [G] ->  $5^{th}$  mirror [H] -> Lens [I] -> CCD [J]



Callout	Item	Callout	Item
[A]	LED array board (LEDB)	[G]	4th mirror
[B]	Light guiding panel	[H]	5th mirror
[C]	Reflectors	[I]	Lens
[D]	1st mirror	[J]	CCD
[E]	2nd mirror	[K]	Light Path
[F]	3rd mirror		

## Scanner Carriage Drive



Callout		Callout	Item
[A]	Scanner carriage	[D]	Scanner drive belt
[B]	Scanner motor	[E]	Scanner HP sensor
[C]	Guide rod		

The scanner motor [C] drives the drive belt [B] in order to move the scanner carriage [A] along the guide rod [D]. Scanning starts with the scanner carriage [A] at the scanner HP sensor [E]. After scanning, the scanner carriage returns to the scanner HP sensor. The actuator for the scanner HP sensor is on the underside of the carriage.

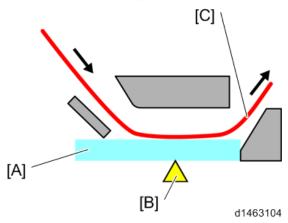
#### When you wish to move the carriage, use the drive belt. Do not pull the carriage directly.

#### Improved Tolerance to Black Lines When Paper Passes through ADF

This model uses a conventional mechanism in which paper comes in contact with the exposure glass during feeding. This is useful for dealing with adhesion of free dirt particles (paper scraps, etc.). (Self-cleaning mechanism using paper)

On the other hand, sticky dirt adhering to the document sticks to the exposure glass, and may cause black lines in scanned images.

#### ADF cross-section diagram



[A]: Exposure glass

[B]: Reading position

[C]: Original feed path

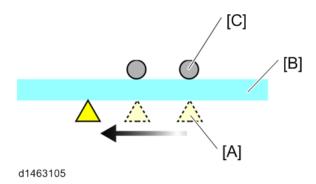


- If black lines due to free dirt particles appear for a short time, such as when users have documents with large amounts of paper dust, you can return to the original configuration.
- Reference (read position correction)

By changing SP4-020-001 (Dust Check > Dust Detect:On/Off), when dirt is detected at the reading position, the reading position may be changed to avoid the dirt.

(If it cannot be avoided, an alert is displayed on the operation panel advising the user to clean the exposure glass).

#### Image diagram



[A]: Reading position

522

[B]: Exposure glass

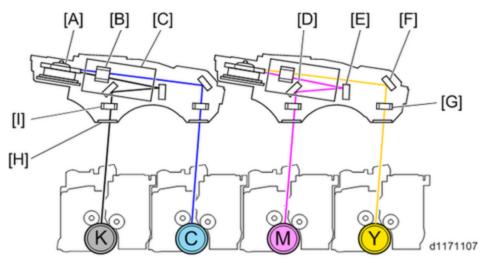
[C]: Dirt



- Dirt is detected when a document passes through, so the alert will not disappear until reading of the next document begins, even after exposure glass cleaning is performed.
- If dirt is detected not on the exposure glass but on the background guide plate, the alert will not disappear even if the glass is wiped.
- The time required for the first copy is slightly (almost imperceptibly) longer.
- The detection threshold can be changed using SP4-020-002 (Dust Check > Dust Detect:Lvl). (The larger the value is, the smaller the dirt particles that can be detected.)
- Do not change the setting of SP4-020-003 (Dust Check > Dust Reject:Lvl).

## **Laser Unit**

#### Overview

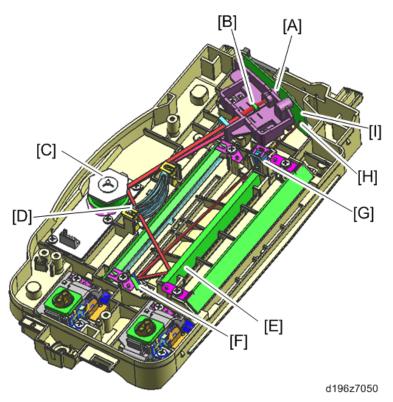


Callout	Item	Callout	Item
[A]	Polygon Motor	[F]	Mirror 3
[B]	Lens (L1)	[G]	Lens (L2)
[C]	LD Board	[H]	Shield Glass
[D]	Mirror 2	[I]	Lens (L2)
[E]	Mirror 1		

This machine has two LD units. One is for yellow and magenta. Another is for cyan and black. Each LD unit produces laser beams for two colors.

Based on each model's line speed, this product uses two different types of LD unit: MP C407 uses two beams per color to achieve higher line speed, while MP C307 uses one beam per color, which is the same as the previous model.

## Laser Synchronizing System

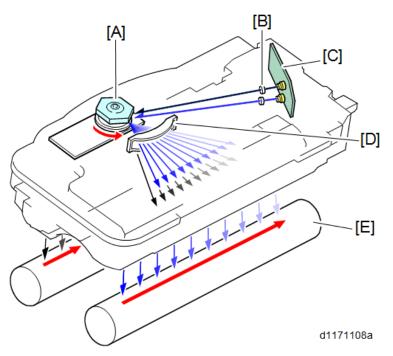


Callout	Item	Callout	Item
[A]	LD Board	[F]	Synchronization Mirror
[B]	Collimating Lens	[G]	Synchronization Lens
[C]	Polygon Motor	[H]	Synchronization Detector
[D]	Lens (L1)	[I]	LD Unit
[E]	Mirror 1		

The LD unit has a synchronization detector at the left side of each unit (for the optical paths for the K and M drums only). A laser beam coming from the LD board [A] travels to the collimating lens [B]  $\rightarrow$  polygon motor [C]  $\rightarrow$  lens (L1) [D]  $\rightarrow$  Mirror 1 [E]  $\rightarrow$  Mirror 2  $\rightarrow$  Mirror 3  $\rightarrow$  Drum.

When the beam is at the beginning of the line, the synchronization mirror [F] reflects it to the synchronization lens. The synchronization detector [H] detects the beam reflected.

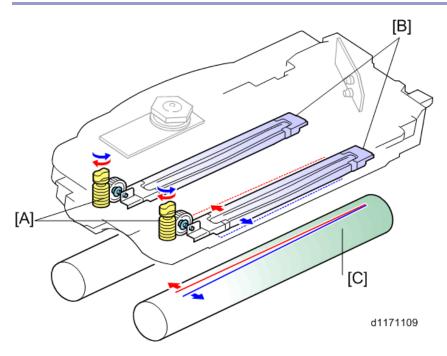
## Line Scanning Mechanism



Callout	Item	Callout	Item
[A]	Polygon Motor (With Polygon Mirror)	[D]	Lens (L1)
[B]	Collimating Lens	[E]	OPC Drum
[C]	LD Board		

The image read by the scanner is written on the OPC drum [E] with the laser beams. The direction of main scanning is from the front to the rear of the machine. The polygon motor [A] rotates counterclockwise.

## Image Skew Adjustment



Callout	Item	Callout	Item
[A]	Adjustor	[C]	OPC Drum
[B]	Lens (L2)		

In this machine, you can adjust the image skew correction manually. When turning the adjuster [A] clockwise or counterclockwise, the front of the lens moves to the left or right, and this adjusts the image skew.

#### Dust Shield Glass

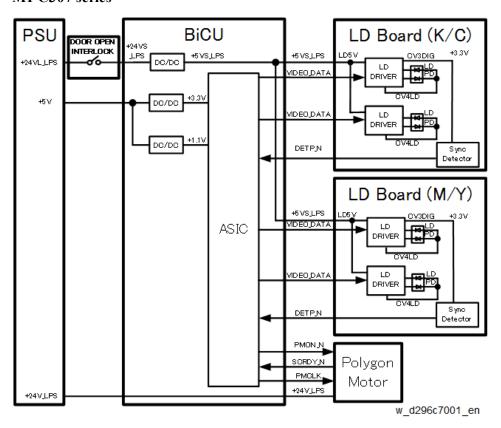
The laser unit is located between the upper side of toner bottle and PCDU. The LD unit emits a laser beam to above the OPC drum. This mechanism keeps the shield glass free from toner dropping and thus requires no cleaning tool.

#### LD Safety Switch

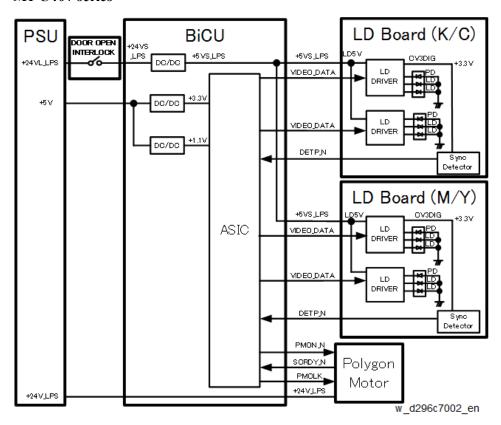
The +24VL\_LPS goes through the interlock switch and is converted the +5VS\_LPS on the BiCU.

The +5VS\_LPS are supplied to the two LD boards respectively. A safety switch turns off when the front cover or the right door is opened. As a result, the power supply (+24VL\_LPS) to the BiCU is cut off. This system prevents unexpected laser emission, ensures user safety and technician safety.

#### MPC307 series

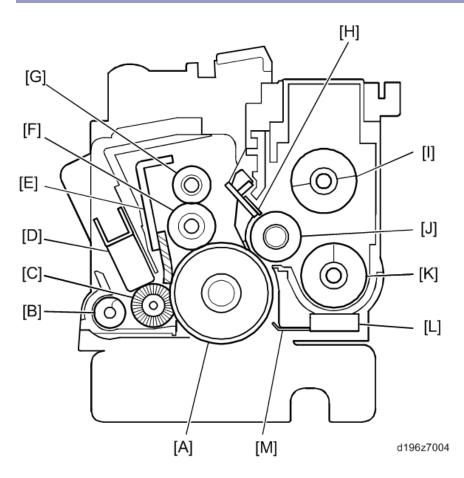


#### MPC407 series



## **PCDU**

#### Overview



## **Drum Section**

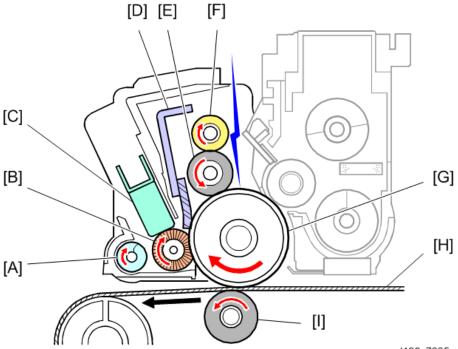
Callout	Item	Callout	Item
[A]	OPC Drum	[E]	Cleaning Blade
[B]	Waste Toner Transport Coil	[F]	Charge Roller
[C]	Lubricant Brush Roller	[G]	Charge Roller Cleaning Roller
[D]	Lubricant		

#### **Development Section**

Callout	Item	Callout	Item
[H]	Doctor Blade	[K]	Toner Transport Coil (Lower)
[I]	Toner Transport Coil (Upper)	[L]	Toner Density Sensor (# sensor)
[J]	Development Roller	[M]	Toner Catching Mylar

The OPC drum section and the development section are joined by plates at the front and rear of the unit.

#### **OPC Drum**



d196z7005

Callout	Item	Callout	Item
[A]	Waste Toner Transport Coil	[F]	Charge Roller Cleaning Roller
[B]	Lubricant Brush roller	[G]	OPC Drum
[C]	Lubricant	[H]	Image Transfer Belt (ITB)
[D]	Drum Cleaning Blade (Counter Rotation)	[I]	Image Transfer Roller (1st Transfer Roller)
[E]	Charge Roller		

#### **Charge Mechanism**

A charge roller [E] charges the surface of the OPC drum [G] and drives the charge roller cleaning roller [F].

#### **OPC Drum**

This machine uses an organic photo conductor drum (OPC drum) [G] for image creation.

The laser exposes the drum from the machine's front to the rear, and the image developed transfers to the ITB (Image Transfer Belt). Then the ITB transports the created image.

#### **Drum Cleaning Mechanism**

The drum cleaning blade [D] cleans the drum (counter rotation method).

Drum cleaning and lubricant application are done at the same time.

The lubricant is applied with the lubricant brush roller [B].

The lubricant brush roller rotates in the opposite direction to the OPC drum.

Toner and foreign objects are removed from the edges of the blade by rotating the drum counterclockwise when a copy job is done.

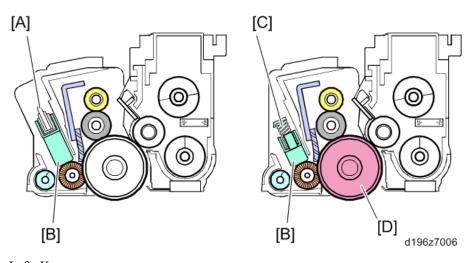
The waste Toner Transport Coil [A] transports the waste toner collected with the drum cleaning blade to the waste

toner bottle via the front of the unit.

#### Discharge Mechanism

This machine uses spontaneous discharge to remove remaining charge from the drum. A quenching lamp is not used.

#### Differences between K and CMY



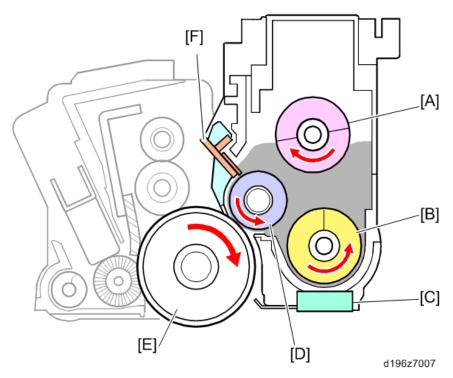
Left: K Right: CMY

The following points are the differences between K and CMY.

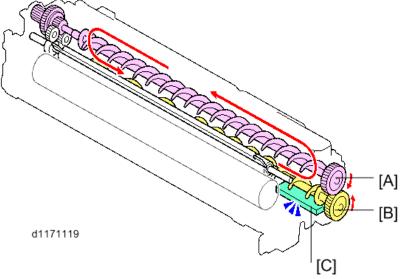
	K	CMY
Lubricant [B] quantity	K > CMY	
Lubricating method	Arm [A]	Pressure spring [C]
Silencer [D]	Available	Available

The silencer [D] is an internal layer of the drum, added to reduce sound during rotation.

## Development Unit



Callout	Item	Callout	Item
[A]	Toner Transport Coil (Upper)	[D]	Development Roller (Sleeve Architecture)
[B]	Toner Transport Coil (Lower)	[E]	OPC Drum
[C]	Toner Density Sensor (Sensor)	[F]	Doctor Blade



Callout	Item	Callout	Item
[A]	Toner Transport Coil (Upper)	[C]	Toner Density Sensor (mu ( <sup>(L)</sup> ) Sensor)
[B]	Toner Transport Coil (Lower)		

• Developer Agitation Mechanism

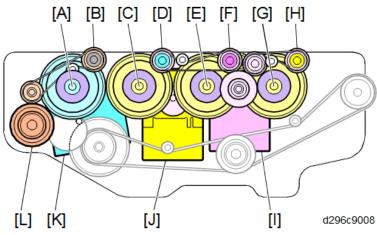
The developer is agitated by the upper [A] and lower [B] transport coils.

Toner and developer are regulated by the doctor blade, and applied to the development roller.

- Toner Density Detection Mechanism

  Toner density sensor [C] detects the toner density. Toner is supplied when the toner density is not sufficient.
- Toner Density Control
   The ID sensor at the lower right of the ITB detects the amount of light reflected from the drum and detects the toner density. Toner is supplied based on the information which the ID sensor detects.

## Drum/Development Drive



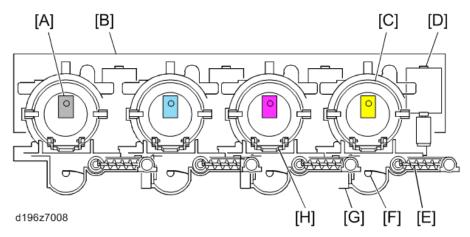
Callout	Item	Callout	Item
[A]	Drum Gear (K)	[G]	Drum Drive Gear (Y)
[B]	Development Drive Gear (K)	[H]	Development Drive Gear (Y)
[C]	Drum Drive Gear (C)	[I]	Development Motor (CMY)
[D]	Development Drive Gear (C)	[J]	Drum Motor (CMY)
[E]	Drum Drive Gear (M)	[K]	Drum Motor (K)
[F]	Development Drive Gear (M)	[L]	Development Clutch (K)

The Drum motor (Bk) [K] drives the drum (K). The Development Clutch [L] drives the Development Unit for K. The Drum motor (CMY) [J] drives the other three drums and the development motor (CMY) [I] drives the Development Units for C/M/Y.

Do not disassemble the three drive gears ([C], [E], and [G]) in the field. These are precisely assembled in the factory.

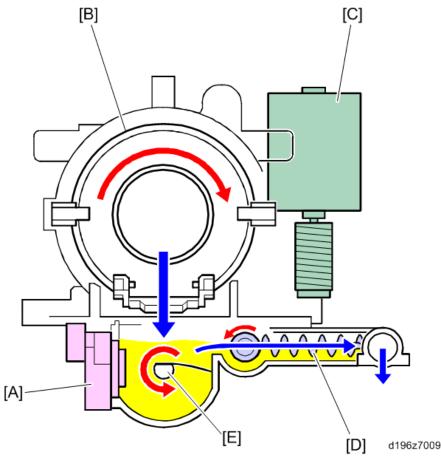
# **Toner Supply Section**

## Overview



Callout	Item	Callout	Item
[A]	ID Chip	[E]	Toner Transport Coil
[B]	Bottle ID Chip Contact Board	[F]	Agitator
[C]	Toner Bottle	[G]	Toner End Sensor
[D]	Toner Supply Motor	[H]	Shutter

## Toner Supply and Transport Mechanism

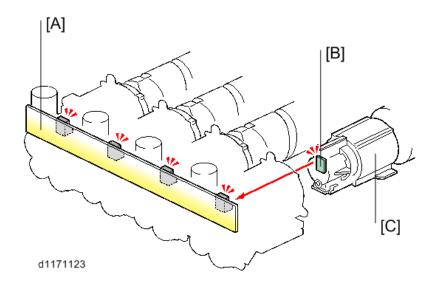


Callout	out Item		Item
[A]	Toner End Sensor (Only for CMY)	[D]	Toner Transport Coil
[B]	Toner Bottle	[E]	Agitator
[C]	Toner Supply Motor		

Rotating the toner bottle [B] transports the toner towards the rear of the machine. Each toner bottle has an ID chip that stores information for each toner bottle. The toner from the toner bottles goes into the hopper and is agitated by the agitator [E].

Then, rotating the toner transport coil [D] transports the toner to the development unit. Only color hoppers have the toner end sensor [A]. The ID chip manages the remaining amount of black toner.

#### Toner Bottle Set Sensor Mechanism



Callout	Item	Callout	Item
[A]	Bottle ID Chip Contact Board	[C]	Toner Bottle
[B]	ID Chip (One for Each Color)		_

Each toner bottle [C] has an ID chip [B]. When the toner bottle [C] comes in contact with the bottle ID chip contact board [A], the machine detects that the toner bottle is set.

#### Toner Near End and Toner End

#### **Toner Near-End**

First, the amount of remaining toner is detected with the pixel count and the driving time of the toner supply motor. Then, when the amount of remaining toner is less than the threshold for toner near-end (K = 23 g, CMY = 10 g), the machine determines a toner near-end.

For CMY, when the amount of remaining toner is less than 50 g, or when the toner end sensor, which is a piezoelectric sensor, detects toner near-end twice, the machine also determines a toner near-end.

#### **Toner End**

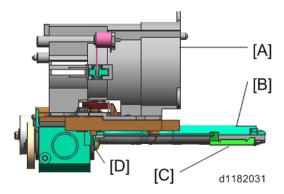
A toner end is detected when the toner end sensor detects the end threshold six times in the toner near-end condition.

The machine also detects a toner end when the difference of Vt and Vtref, and their total difference are as in the following matrix:

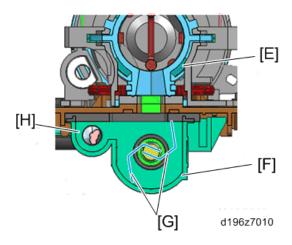
	Condition	Vt/Vtref: Diff	Vt/Vtref: Diff: Total
K	Before Near-End	0.7 V or more	Over 10 V
	After Near-End	0.3 V or more	Over 3 V
CMY	-	0.5 V or more	Over 10 V

## Toner Supply Unit

The agitator [G] transports the toner supplied into the sub-hopper by raising it to the toner transport path. The transport path is level to make the machine's height lower.



- [A] Supply Housing
- [B] Toner Transport Path
- [C] Shutter
- [D] Sub-hopper

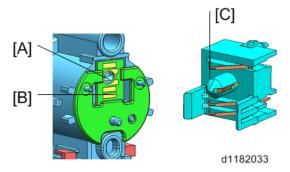


- [E] Toner Bottle Cap
- [F] Sub-hopper
- [G] Agitator
- [H] Toner Transport Path

#### ID Chip

The ID chip [B] of the toner bottle is set correctly by inserting the positioning hole [A] of the toner bottle over the tapered boss [C] of the mainframe.

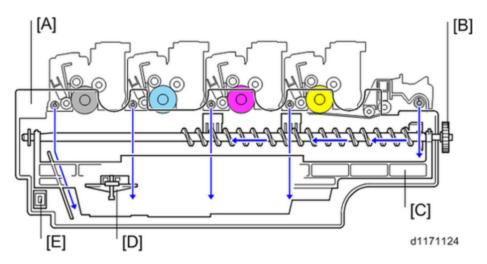
## 7. Detailed Descriptions



- [A] Positioning Hole
- [B] ID Chip
- [C] Tapered Boss (for Chip Positioning)

## **Waste Toner Collection**

#### Waste Toner Transport Mechanism



Callout	Item	Callout	Item
[A]	Waste Toner Bottle	[D]	Waste Toner Full Sensor
[B]	Waste Toner Bottle Transport Coil	[E]	Waste Toner Bottle Set Switch
[C]	Waste Toner Agitator		

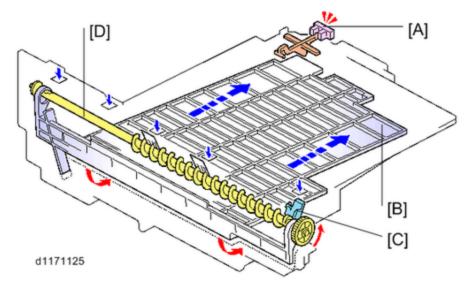
The waste toner collected from the ITB cleaning unit is transported towards the front of the machine and it goes into the waste toner bottle [A].

The waste toner of yellow and magenta coming from the PCDU (Y/M) and the waste toner from the ITB cleaning unit is collected at the center of the waste toner bottle by the waste toner transport coil. The black and cyan waste toner comes from the PCDU to the waste toner bottle directly.

The waste toner agitator [C] carries waste toner piled up at the front of the waste toner bottle to the rear.

The waste toner bottle set switch [E] detects the presence of the waste toner bottle, and there is also a waste toner bottle full sensor [D].

#### Waste Toner Collection Mechanism



Callout	Item	Callout	Item
[A]	Waste Toner Full Sensor	[C]	Waste Toner Agitator (for ITB Cleaning Unit)
[B]	Waste Toner Agitator	[D]	Waste Toner Bottle Transport Coil

The waste toner agitator [B] carries waste toner piled up at the front of the waste toner bottle to the rear. The agitator [C] moves together with the waste toner bottle transport coil [D].

When the waste toner full sensor [A] detects a "waste toner near full", the machine displays an alert message on the operation panel, which prompts users to replace the waste toner bottle.

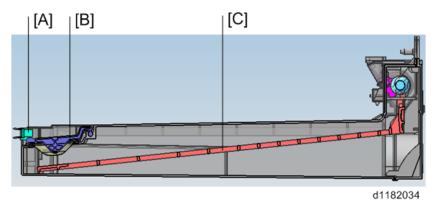
#### Waste Toner Full Detection

When the waste toner moves the rubber actuator [B] to the highest position, the waste toner full sensor [A] detects that the waste toner bottle is near-full. The machine does not stop at this time.

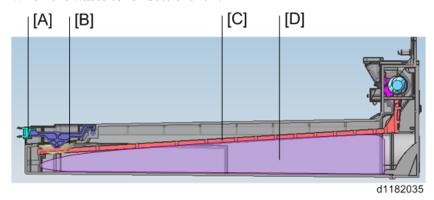
When the quantity of waste toner calculated by the machine reaches 25 g or 3,000 sheets in standard mode, whichever comes first after near-full was detected, the machine detects that the waste toner bottle is full, and stops itself automatically.



#### • When the waste toner bottle is empty:



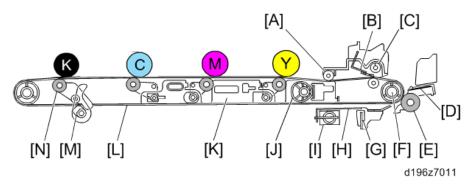
• When the waste toner bottle is full:



- [A] Waste Toner Full Sensor
- [B] Rubber Actuator
- [C] Waste toner agitator
- [D] Waste Toner

# ITB/ Paper Transfer

## Overview

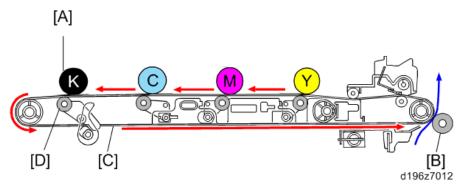


Callout	Item	Callout	Item
[A]	Belt Tension Roller	[H]	ID Sensor Shutter
[B]	ITB Cleaning Blade	[I]	ID Sensor Shutter Solenoid
[C]	Waste Toner Transport Coil	[J]	ITB Contact Cam (CMY)
[D]	Discharge Plate	[K]	ITB Contact Slider
[E]	Paper Transfer Roller	[L]	ITB (Image Transfer Belt)
[F]	ITB Drive Roller	[M]	ITB Contact Cam (K)
[G]	ID Sensor	[N]	Image Transfer Roller

## Differences from the Predecessor Models

	C305 (Predecessor model)	C306/C406/C307/C407 (This model)
Image Transfer	Direct Transfer	Indirect transfer
Paper Transfer	Repulsion transfer	Attraction transfer
	(Paper transfer bias is applied to the ITB	(Paper transfer bias is applied to the paper
	drive roller.)	transfer roller.)
	Contact/release mechanism	Constant contact
		(No release mechanism)
Cleaning	Cleaning Blade + Lubricant brush roller	Cleaning Blade
Mechanism		

#### Transfer Movement and Image Transport



Callout	Item	Callout	Item
[A]	OPC Drum	[C]	ITB
[B]	Paper Transfer Roller	[D]	Image Transfer Roller (First Transfer Roller)

Images of each color are created and transferred to the ITB (image transfer belt) [C].

The paper transfer roller [B] transfers the toner image from the ITB to the paper.

This model uses the indirect transfer method to enhance the quality of transfer.

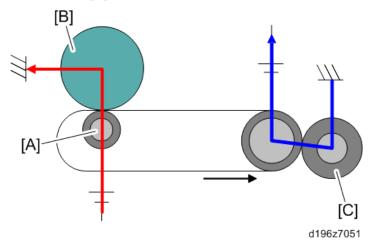
The indirect transfer method uses the resistance of the ITB to apply the bias to the drum. So, in this model, the position of the image transfer roller is changed and so is its material.

As the image transfer method is changed, the paper transfer method is changed from the repulsion method to the attraction method (the reason is explained below).



#### • Direct Image Transfer + Repulsion Transfer Method (C305):

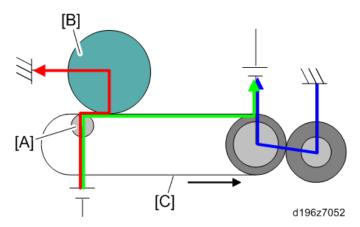
The image transfer roller [A] transfers the image transfer bias to the drum [B]. The paper transfer bias flows into the paper transfer roller [C].



#### • Indirect Image Transfer + Repulsion Transfer Method:

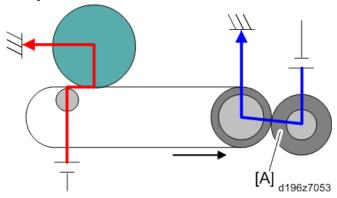
The image transfer roller [A] transfers the image transfer bias to the drum [B]. However, some of the bias goes to the image transfer belt [C]. This causes harmful interference between the image transfer current and paper transfer current.

#### 7. Detailed Descriptions

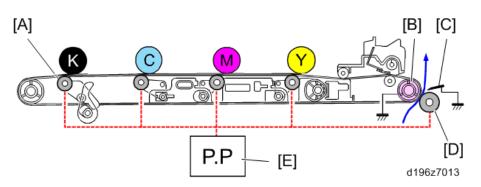


#### • Indirect Image Transfer + Attraction Transfer Method (C306/C406/C307/C407):

To eliminate the interference, applying the opposite bias to the paper transfer roller [A] is required. That is why the attraction transfer method is used in this model.



#### Transfer Bias

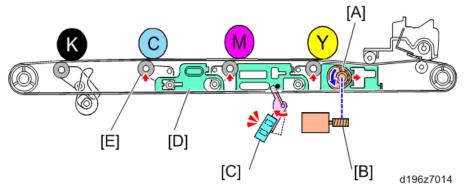


Callout	Item	Callout	Item
[A]	Image Transfer Roller (First Transfer Roller)	[D]	Paper Transfer Roller
[B]	ITB Drive Roller	[E]	Power Pack
[C]	Discharge Plate		

The power pack [E] applies a transfer bias to the image transfer roller [A]. The ITB drive roller [B] and discharge plate [C] are grounded through a diode.

There is no contact/release mechanism for the paper transfer system, which the previous model uses, to reduce noise.

#### ITB Contact

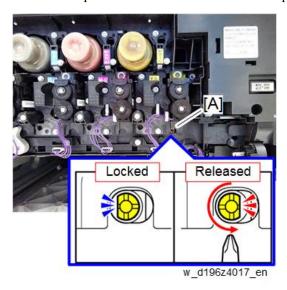


Callout	Item	Callout	Item
[A]	ITB Contact Cam (CMY)	[D]	Contact Slider
[B]	ITB Contact Motor	[E]	Image Transfer Roller (First Transfer Roller)
[C]	ITB Contact Sensor		

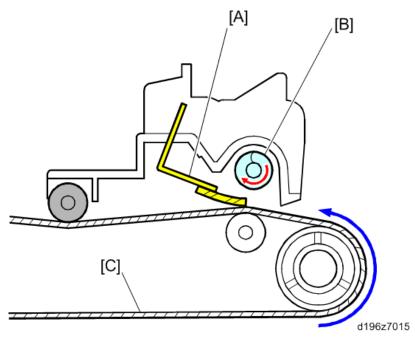
ITB has a contact mechanism to prevent the CMY drums from early deterioration. The color drums are not needed for B/W printing, so this mechanism releases the ITB from the CMY drums.

The ITB contact motor [B] rotates the ITB contact cam [A] through a gear. The contact slider then moves and raises the image transfer roller [E] into contact with the CMY drums.

If the mechanism is defective (e.g.: Paper jams), and is stuck with the CMY rollers up against the ITB, the cam can be turned manually to lower the rollers, in order to remove the ITB unit without damaging the machine, as follows. The ITB will move away from the CMY drums. To do this, turn the ITB contact cam's screw to the left until the flat part of the half moon on the screw points to the right.



#### ITB Cleaning

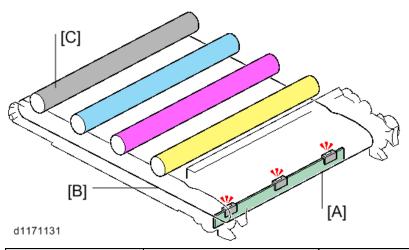


Callout	Item	Callout	Item
[A]	ITB Cleaning Blade	[C]	ITB
[B]	Waste Toner Collection Coil		

The cleaning blade [A] cleans the ITB [C]. The waste toner collection coil [B] transports the waste toner removed by the ITB cleaning blade towards the front of the machine.

This model only uses a cleaning blade for cleaning, whereas the previous model uses a blade and a lubricant brush roller.

#### Image Position Correction



Callout	Item	Callout	Item
[A]	ID Sensor	[C]	OPC Drum
[B]	ITB		

The image position adjustment is done by the three ID sensors [A].

## **Process Control and MUSIC**

#### **Process Control**

## Outline

Process control adjusts the image creation process to maintain a constant image density. Process control is executed at the following times.

Trigger	Operative Condition	Notes
Power ON	When a certain time passes after the previous job end, AND:	Except when
	More than six hours pass after the last OPC drum operation	recovering from an
	(SP3-530-001).	SC or jam
	2. More than 100 full color copies or more than 250 B/W	
	copies are made between the second latest power-on and the	
	latest power-on.	
	• When a certain time passes after the previous job end, OR, the	
	change of temperature/humidity after the last OPC drum	
	operation exceeds the following condition:	
	1. The change of temperature is more than or equal to the	
	threshold [deg] (SP3-530-002).	
	2. The change of relative humidity is more than or equal to the	
	threshold [%RH] (SP3-530-003).	
	3. The change of absolute humidity is more than or equal to	
	the threshold [g/m3] (SP3-530-004).	
	Default settings:	
	Time: 360 minutes	
	Temperature: 10 deg	
	Relative humidity: 50%RH	
	Absolute humidity: 6 g/m <sup>3</sup>	
	Other related SPs:	
	SP3-530-005/006	
Job End	When the job end counter becomes more than the threshold.	-
	Related SPs:	
	SP3-534-001/011	
Job	When the job interrupt counter becomes more than the threshold.	-
Interruption	Related SPs:	
	SP3-533-001/011	
Non-use (Idle)	Non-use time becomes more than the value in SP3-531-001.	-
Manual	When SP3-011-001 is executed.	-
Process		

#### 7. Detailed Descriptions

Trigger	Operative Condition	Notes
Control		
Toner End	When a Toner End is resolved.	-
Recovery		
Initial Setting	When an initial developer setting is completed.	-

Vc is the charge bias, which is applied to the charge rollers.

Vd is the potential of the unexposed (charged) drum.

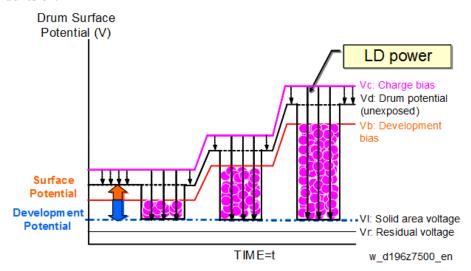
The value of Vc is not equal to Vd.

For example, if applying a Vc of 700 [-V], the actual drum potential (Vd) tends to be about 650 [-V].

Vb is the potential when toner starts to stick to the drum (Development bias).

When the potential gets to Vb or greater, toner starts to stick to the drum in proportion to the potential.

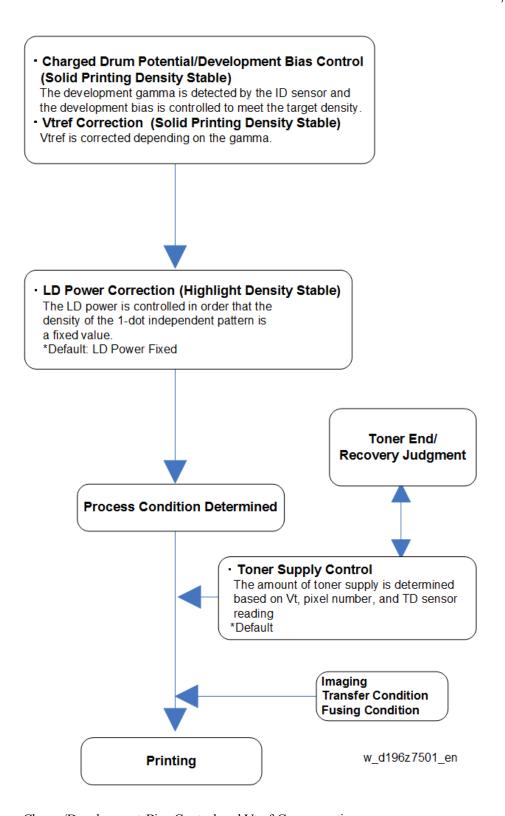
Development gamma is the coefficient showing the relation between the potential and the volume of toner adhesion.



In addition to the development gamma and the potential, the toner density in the developer needs to be controlled. This is done to maintain the proper toner density (the amount of toner adhesion).

The target for the toner density in the developer is when the output from the toner density sensor is Vtref.

Process Control is done as shown in the following chart, which includes development gamma determination, Vtref correction, and LD power control.



Charge/Development Bias Control and Vtref Compensation

Charge/Development bias control and Vtref Compensation is done using the following procedure. Its operating time varies depending on the machine's line speed.

#### Adjusting the ID sensor Vsg

This step adjusts ID sensor's LED's light intensity so that Vsg, which is the ID sensor output when monitoring the bare surface of the ITB, becomes within  $4.0\pm0.5$ V. When Vsg does not reach the target value three times, the

machine issues SC370 (ID sensor Calibration Error).

- SP3-320-011 (Vsg Error Counter)
- SP3-320-013 (Vsg Upper Threshold)
- SP3-320-014 (Vsg Lower Threshold)
- The above SPs can only be accessed from Special Service mode.

#### **Agitating the Developer**

This step agitates the developer, and gets the TD sensor output.

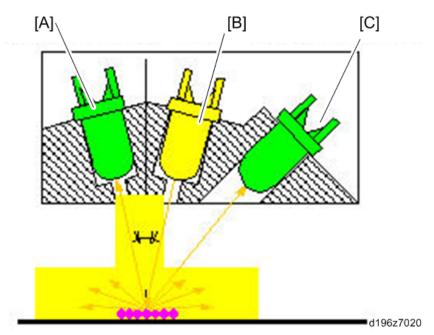
The developer agitation time is determined by the three factors below.

- 1. The change of absolute humidity
- 2. Non-use time
- 3. Coverage

#### Creating patterns, detecting the density

Five patterns are created by adjusting the charge/development bias on the transfer belt for each color. Then the ID sensor detects the created patterns.

The ID sensor consists of an LED and two types of photo detector. The sensor detects the reflection from the LED [B] with the direct reflection detector (REG) [A] and the diffused reflection detector (DIF) [C].



#### **Determining Vtref from the Development Gamma**

Detecting the development gamma value with an ID sensor pattern and measuring Vsp/Vsg determines the charge/development bias for the correct image density.

Also, the reading from the TD sensor and the development gamma determine Vtref, which is the reference value for the TD sensor.

#### LD Power Control

LD Control is set with SP3-600-001 (Process Control/ Select ProCon: LD Control).

- If SP 3-600-001 is set to LD Power Control by Process Control (Default): The LD strength is adjusted based on a table which is determined by Development Bias Control and Vtref Correction.
- If SP 3-600-001 is set to use a fixed LD power, the LD power that is used depends on the settings of SP2-221-001/002/003/004.

#### **Toner Supply Control**

SP3-400-001, -002, -003, -004

- 0: Fixed supply method
- 2: PID method
- 4: DANC method (Default)
- Fixed Supply method
   Toner supply time is calculated based on the supply rate of SP3-440-001 through -004 (DrvTime: Setting).
- PID method
  - PID (Proportion Integral Differential)

The amount of toner supply is calculated based on the pixel information and TD sensor information.

DANC method

DANC (Divided Active Noise Control): Conventional PID method + active noise control. It controls the timing to supply the developer to minimize uneven developer density in the development unit.

#### Toner Near End, Toner End

#### Toner Near-End

First, the amount of remaining toner is detected with the pixel count and the driving time of the toner supply motor. Then, when the amount of remaining toner is less than the threshold for toner near-end (K = 23 g, CMY = 10 g), the machine determines a toner near-end.

For CMY, when the amount of remaining toner is less than 50 g, or when the toner end sensor, which is a piezoelectric sensor, detects toner near-end twice, the machine also determines a toner near-end.

#### **Toner End**

A toner end is detected when the toner end sensor detects the end threshold six times in the toner near-end condition

The machine also detects a toner end when the difference of the Vt and Vtref, and their total difference are as in the following matrix:

	Condition	Vt/Vtref: Diff	Vt/Vtref: Diff: Total
K	Before Near-End	0.7 V or more	Over 10 V
	After Near-End	0.3 V or more	Over 3 V
CMY	-	0.5 V or more	Over 10 V

When you open and close the front door, and turn the main power off and on, the machine detects that a new toner bottle is set. The machine then starts the toner supply to recover from the toner end. After supplying toner, the

#### 7. Detailed Descriptions

machine checks the toner end sensor and Vt condition and deactivates the toner end condition.

#### **Developer Initial Setting**

When a new PCDU is set in the machine, the machine automatically detects it and enters the developer initial setting mode. The machine then detects the  $\mu$  count which is an output from the TD sensor. The developer initial setting is done as follows.

- 1. Starting the developer initial setting mode
  The new unit detection mechanism triggers the developer initial setting mode.
- **2.** Agitating the developer

  The machine rotates the development roller and transport coil to agitate the developer for 30 seconds.
- 3. Detecting the  $\mu$  count (Initial value)

  While agitating the developer, the machine detects the output from the TD sensor, and stores this output as the initial  $\mu$  count.
- 4. Calculating Vt

  The machine calculates Vt using the difference of the current  $\mu$  count while referring to the initial  $\mu$  count through SP.
- 5. Forced toner supply (only when newly installing the machine)This step is required only when the machine is newly installed because there is no toner in the toner transport route.

When the developer initial setting is successfully completed, the machine stores the calculated Vt as Vtref. The Vtref is used as a reference the next time the machine performs an initial developer setting.

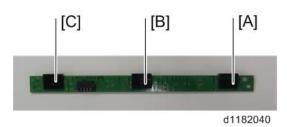
SC360-01 through -04 appears if the results of step 3 are as follows:

The  $\mu$  count is equal or exceeds the threshold (6480 [counts]).

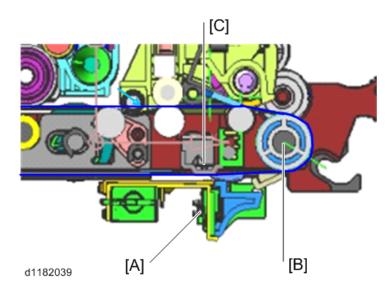
The  $\mu$  count does not match the target threshold (5800 – 6380 [counts]) three times consecutively.

Process Control and MUSIC are forcibly done after developer initial setting when a PCDU is replaced.

#### **ID** Sensor



Three ID sensors are on a single board. The center sensor [B] acts as an ID sensor and a MUSIC sensor. The front [A] and rear [C] sensors are used only for MUSIC.



The ID sensors [A] are installed at the upstream side of the paper transfer roller [B] and detect image density at the plate [C]. This layout allows the machine to detect a pattern faster and to help reduce waiting time.

#### TD Sensor

In this model, a non-contact toner density (TD) sensor, which we also call a mu ( $\mu$ ) sensor, is used for toner density control.

The TD sensor is attached on the lower side of the development unit. Unlike a HST sensor, the board of the TD sensor is exposed. So there is a cover around the sensor to protect it and to maintain a good contact between the sensor and development unit.

The TD sensor measures the permeability of the developer without contacting it, from the outside of the case, and converts the measured value to the toner density.

According to the toner density measured by this sensor, the proper amount of toner is supplied to the developer. A counter corresponding to the frequency is used as the unit of TD sensor output. Thus, unlike a HST sensor which directly detects Vt, the TD sensor output is converted into Vt for toner supply control.

In the TD sensor, there is an ID chip storing the machine identification information, the running distance information of Development unit and PCU, and other information used by image density control.

#### **MUSIC**

#### Color Skew Adjustment Timing

This model has a mechanism that adjusts color skew, which we call MUSIC. The machine creates a pattern for correction, measures the image position by the pattern, and adjusts the image position.

No.	MUSIC performs when:	Notes
1	The power switch is just turned on, or the machine recovers from the	Executes [Mode b] (*2) or
	energy save mode.	[Mode a] (*1)
2	The machine does a print job.	Executes [Mode b] (*2)
3	Printing is completed.	Executes [Mode b] (*2)

#### 7. Detailed Descriptions

No.	MUSIC performs when:	Notes
4	The front cover is closed.	Executes [Mode b] (*2) or
		[Mode a] (*1)
5	The machine is waiting.	Executes [Mode b] (*2)
6	The machine detects a new PCDU automatically, ITB manually.	Executes [Mode a] (*1)

<sup>\*1 [</sup>Mode a] fine adjusts twice.

To operate modes a/b/c manually, use the following SPs:

- SP2-111-001 (Forced Line Position Adj.: [Mode a])
- SP2-111-002 (Forced Line Position Adj.: [Mode b])
- SP2-111-003 (Forced Line Position Adj.: [Mode c]): Do this SP when you have replaced a laser unit, or when significant color skew occurs.

#### 

• Do [Mode a] and [Mode b] after doing [Mode c].

#### MUSIC Error Determination

MUSIC determines whether an error occurs for each color.

SP2-194-007 shows the results, and SP2-194-010 through -013 show the error details.

SP2-194-007 (MUSIC Execution Result - Execution Result)

SP2-194-010 (MUSIC Execution Result - Error Result: C)

SP2-194-011 (MUSIC Execution Result - Error Result: M)

SP2-194-012 (MUSIC Execution Result - Error Result: Y)

SP2-194-013 (MUSIC Execution Result - Error Result: K)

Error Details	Description
0	Not done
1	Completed successfully
2	Cannot detect patterns
3	Insufficient lines for a pattern
4	Out of the adjustment range
5 or 6	TD sensor false detection

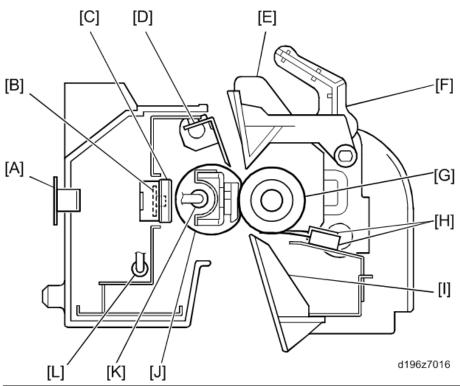
## Adjustment Overview

- **1.** Performs Vsg adjustment to correct TD sensor output.
- 2. Creates a MUSIC pattern on the transfer belt with each color toner.
- 3. Reads the MUSIC pattern on the belt, and measures the positions of the lines on the pattern.
- **4.** Calculates the color skew amount from the position data.
- **5.** Calculates the tolerance/deviation for main scan magnification, and the main/scan registration skew amount. Then determines the amount of color skew adjustment.

<sup>\*2 [</sup>Mode b] fine adjusts once.

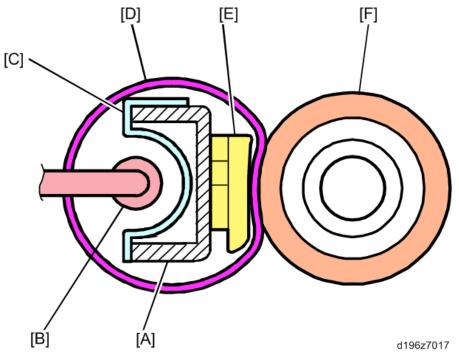
# Fusing

## Overview



Callout	Item	Callout	Item
[A]	Fusing Thermopile	[G]	Pressure Roller
[B]	Fusing Thermistor (NC	[H]	Pressure Roller Thermistors (Edge: Front, Center, and,
	Sensor)		Edge: Rear)
[C]	Fusing Thermostat	[I]	Entrance Guide Plate
[D]	Separation Plate	[J]	Fusing Sleeve Belt (QSU Method)
[E]	Exit Guide Plate	[K]	Fusing Lamp
[F]	Pressure Arm	[L]	Fuse for New Unit Detection

## Fusing Mechanism



Callout	Item	Callout	Item
[A]	Stay	[D]	Fusing Sleeve Belt (Diameter: 25)
[B]	Fusing Lamp	[E]	Nip Pad
[C]	Reflector	[F]	Pressure Roller (Diameter: 25

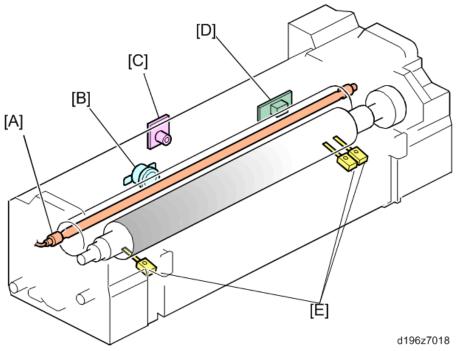
The fusing unit uses the QSU system. (QSU: Quick Start Up).

The heat from the fusing lamp [B] is reflected by the reflector [C] and heats the fusing sleeve belt [D].

The temperature at both ends of the fusing lamp is lower than the middle.

The fusing sleeve belt itself has no drive mechanism; the pressure roller drives it. The nip pad [E] at the sleeve belt side is pushed against the pressure roller and keeps the nip width on the sleeve belt.

## Fusing Temperature Control

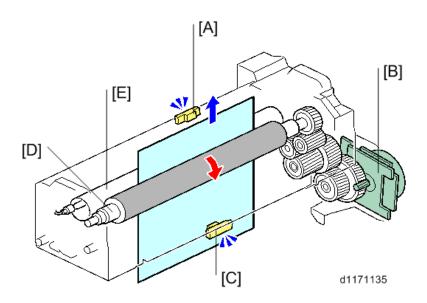


Callout	Item	Callout	Item
[A]	Fusing Lamp	[D]	Fusing Thermistor (NC Sensor)
[B]	Fusing Thermostat	[E]	Pressure Roller Thermistors (Edge: Front, Center, and Edge: Rear)
[C]	Fusing Thermopile		

The fusing temperature is controlled by the fusing thermopile [C].

The thermostat [B] is a safety switch. The fusing unit must be replaced if the thermostat is blown.

#### Fusing Drive



#### 7. Detailed Descriptions

Callout	Item	Callout	Item
[A]	Fusing Exit Sensor	[D]	Pressure Roller
[B]	Fusing Motor	[E]	Fusing Sleeve Belt
[C]	Fusing Entrance Sensor		

The fusing motor [B] drives the pressure roller [D] through gears.

The pressure roller [D] drives the fusing sleeve belt [E].

The fusing entrance sensor [C] and fusing exit sensor [A] detect paper jams around/in the fusing unit.

#### Fusing Temperature Control

#### Warm-up mode

When the main power switch is turned ON, the machine starts the fusing warm-up. The machine drives the fusing motor to increase the fusing temperature to the reload target temperature. When the machine completes the fusing warm-up, it keeps the reload target temperature by driving the fusing motor for a certain period of time.

#### Standby mode

When a certain period of time passes after fusing reload is completed, the machine stops the fusing lamp and fusing motor. Then the machine keeps the fusing temperature to the standby target temperature (SP1-107-001) by energizing the fusing lamp.

In standby mode, the machine starts the fusing motor intermittently.

#### Printing ready mode

After returning to standby mode, the machine lights the fusing lamp to increase the fusing temperature to the printing ready target temperature. If there is no printing job, the machine then moves back to the standby mode. If there is a printing job, the machine starts the fusing lamp to increase the fusing temperature to the target temperature after reload/feeding, and then starts the print job.

#### CPM Down Control

This machine automatically lowers the CPM according to usage and machine status to obtain the best image quality and keep the machine in good condition.

If the fusing lamp is always activated during consecutive printing, and/or the paper size is smaller than the lamp's width, then some heat will not be used for fusing and may stay around the front and rear ends of the fusing unit. This will increase the temperature in the fusing unit abnormally.

CPM down control keeps the machine's CPM low until the fusing unit sufficiently cools down. Normally, it takes 10 minutes to recover the original CPM.

#### **CPM Down Level**

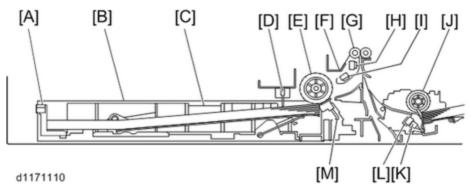
	A5	Postcard	Envelope	Recovery
				Time
CPM (Standard)	15	15	15	10 mins.
CPM Down Starting Sheet Count	No CPM	13th	4th sheet	

## 7.Detailed Descriptions

	A5	Postcard	Envelope	Recovery
				Time
	control	sheet		
CPM (Controlled)		10	6	
Output sheet count after one minute from		14	6	
recovery				

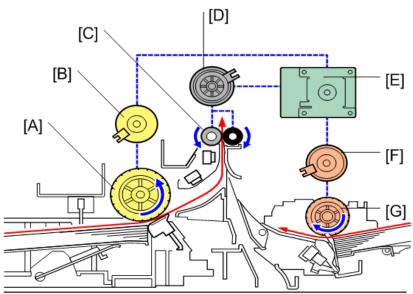
# **Paper Feed and Registration**

## Overview



Callout	Item	Callout	Item
[A]	End Fence	[H]	Registration Sensor
[B]	Paper Feed Tray	[I]	Paper Feed Sensor
[C]	Side Fence	[J]	Bypass Feed Roller
[D]	Paper End Sensor	[K]	Bypass Paper Width Sensor
[E]	Paper Feed Roller	[L]	Bypass Paper End Sensor
[F]	Dust Collection Tray	[M]	Friction Pad
[G]	Registration Rollers (Right: Driven, Left: Drive)		

## Paper Feed, Registration, and Bypass Feed Drive



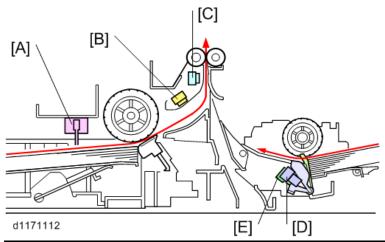
d1171111

Callout	Item	Callout	Item
[A]	Paper Feed Roller	[E]	Paper Transport Motor
[B]	Paper Feed Clutch	[F]	Bypass Feed Clutch
[C]	Registration Roller	[G]	Bypass Feed Roller

Callout	Item	Callout	Item
[D]	Registration Clutch		

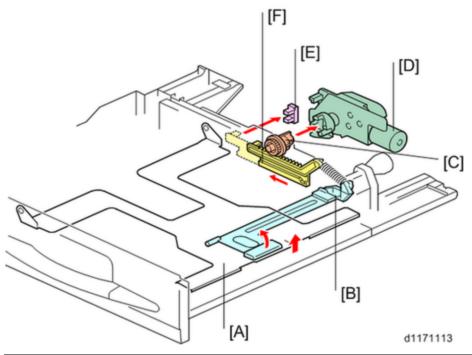
The drive from the paper transport motor is transmitted to each clutch through gears. The paper transport motor controls paper feed/exit, duplex, registration, waste toner transport coil and bypass tray lift.

#### Sensor Locations in the Paper Feed Path



Callout	Item	Callout	Item
[A]	Paper End Sensor	[D]	Bypass Paper Width Sensor
[B]	Paper Feed Sensor	[E]	Bypass Paper End Sensor
[C]	Registration Sensor		

Tray Lift Mechanism



Callout	Item	Callout	Item
[A]	Bottom Plate	[D]	Tray Lift Motor

#### 7. Detailed Descriptions

Callout	Item	Callout	Item
[B]	Bottom Plate Lift Arm	[E]	Tray Lift Sensor
[C]	Bottom Plate Lift Gear	[F]	Rack and Pinion Mechanism

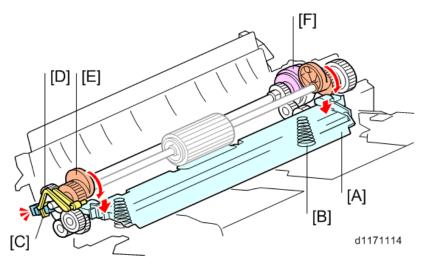
The tray lift motor rotates the gear [C] and the gear makes the rack [F] move.

The movement of the rack pulls the spring and this moves the bottom plate lift arm [B].

The arm lifts the bottom plate [A].

The position of the bottom plate is detected by the Tray Lift Sensor [E]. This machine does not use motor control to detect the bottom plate position.

#### Bypass Tray Bottom Plate Lift Mechanism

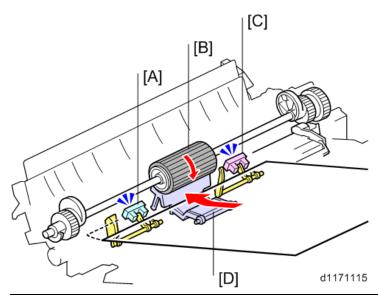


Callout	Item	Callout	Item
[A]	Bypass Tray Bottom Plate	[D]	Actuator
[B]	Pressure Spring	[E]	Bypass Tray Bottom Plate Lifting-up Cam (Front and Rear)
[C]	Bypass Tray Bottom Plate Lift Cam HP	[F]	Bypass Tray Bottom Plate Lifting-up Cam Clutch
	Sensor		

The paper transport motor rotates the bypass tray bottom plate lift cam clutch [F], and this moves the bypass tray bottom plate [A] up and down.

The position of the bypass tray bottom plate lift cams (and because of this, the bypass tray bottom plate) is detected by the bypass tray bottom plate lift cam HP sensor [C].

#### Paper Size Detection and Paper End Detection

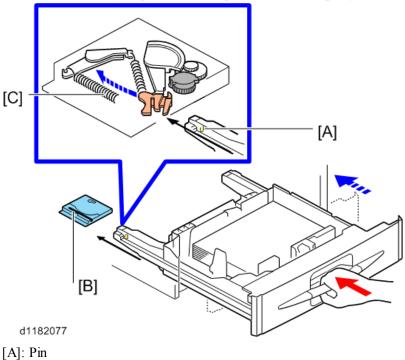


Callout	Item	Callout	Item
[A]	Bypass Paper Size Sensor	[C]	Bypass Feed Paper End Sensor
[B]	Bypass Feed Roller	[D]	Bypass Feed Friction Pad

The bypass paper size sensor [A] is not at the side of the tray but at the side of the bypass paper feed unit. The bypass paper size sensor is a photointerrupter, which detects when B5 paper or wider is placed in the tray. The bypass feed paper end sensor is activated if there is no paper on the tray.

#### Tray Auto-close Mechanism

The tray has a pin [A] on its bottom. When the tray is set, the spring [C] in the draw-in unit [B] slowly pulls the tray in. When the tray is pulled out, the pin stretches the spring.



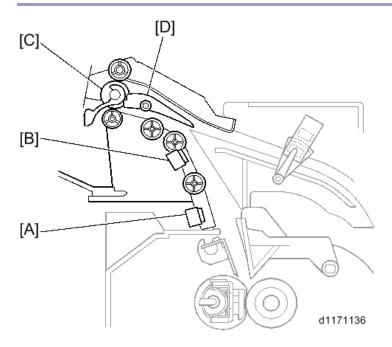
## 7.Detailed Descriptions

[B]: Draw-in Unit

[C]: Spring

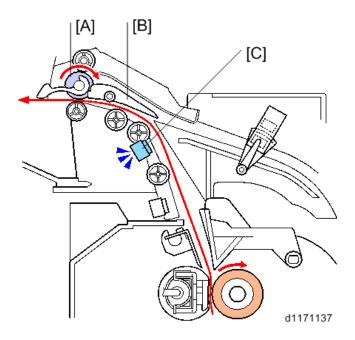
## Paper Exit and Inverter

## Overview



Callout	Item	Callout	Item
[A]	Fusing exit sensor	[C]	Paper exit/reverse roller
[B]	Paper exit sensor	[D]	Exit junction gate

## Paper Exit Operation



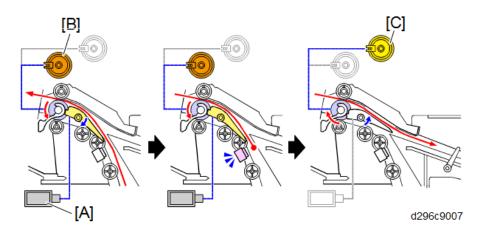
Callout	Item	Callout	Item
[A]	Paper exit/reverse roller	[C]	Paper exit sensor

#### 7. Detailed Descriptions

Callout	Item	Callout	Item
[B]	Exit junction gate		

The paper transport motor rotates the paper exit/reverse roller [A] through a gear. The paper exit sensor [C] detects paper exit jams and the paper inversion timing.

#### Inverter Operation



Callout	Item	Callout	Item
[A]	Exit junction gate solenoid	[C]	Reverse clutch
[B]	Paper exit clutch		_

The exit junction gate solenoid [A], paper exit clutch [B], and reverse clutch [C] control the exit junction gate and paper exit/reverse roller simultaneously.

The paper exit clutch and paper reverse clutch transmit the driving to the paper exit inverter roller, in opposite directions respectively.

The paper exit/reverse roller rotates in the normal direction when the paper exit clutch is turned ON, to feed the paper to the paper exit path.

When the reverse clutch turns ON, the paper exit/reverse roller rotates in the reverse direction, to feed the paper to the inverter path or 1-bin exit path (when 1-bin tray unit is installed).

In duplex printing, after the first side of a sheet has been printed, the exit junction gate solenoid turns ON, and the exit junction gate has been switched to direct the paper to the paper exit path.

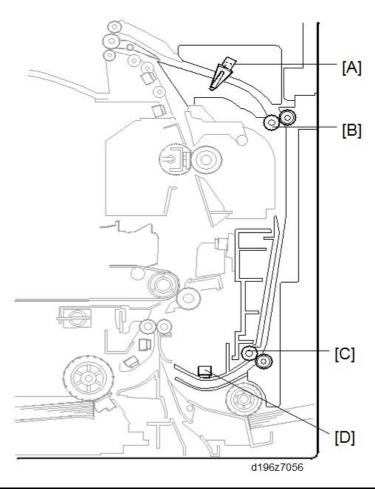
And then, the paper exit clutch turns OFF and the paper reverse clutch turns ON, to rotate the paper exit roller in reverse to feed the paper towards the paper exit (see the left illustration above).

When the trailing edge of the paper passes the paper exit sensor, the machine OFF the inverter junction gate solenoid, turns ON the paper exit clutch, and turns OFF the reverse clutch. It switches the exit junction gate back to the original position before the paper completely goes out of the paper exit, and rotates the paper exit/reverse roller forward to feed the paper to the duplex transport path.

After that, the machine starts to print the second side and feeds out the paper that is printed on both sides to the paper exit tray.

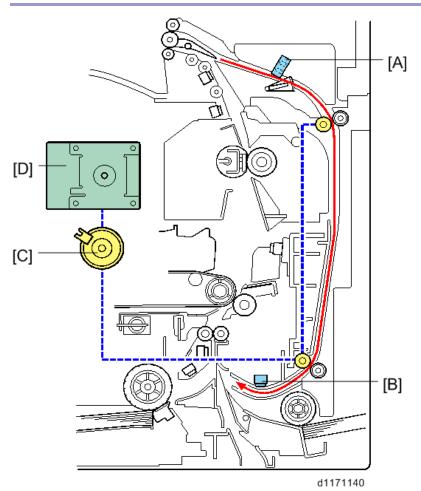
## **Duplex**

## Overview



Callout	Item	Callout	Item
[A]	Duplex Entrance Sensor	[C]	Duplex Paper Transport Roller (Lower)
[B]	Duplex Paper Transport Roller (Upper)	[D]	Duplex Exit Sensor

#### Duplex Mechanism



 Callout
 Item
 Callout
 Item

 [A]
 Duplex Entrance Sensor
 [C]
 Duplex Clutch

 [B]
 Duplex Exit Sensor
 [D]
 Paper Transport Motor

After the inverter mechanism feeds the paper back into the machine, the paper goes to the duplex feed path. Duplex feed is not possible when the bypass tray is in use.

#### **Duplex Drive**

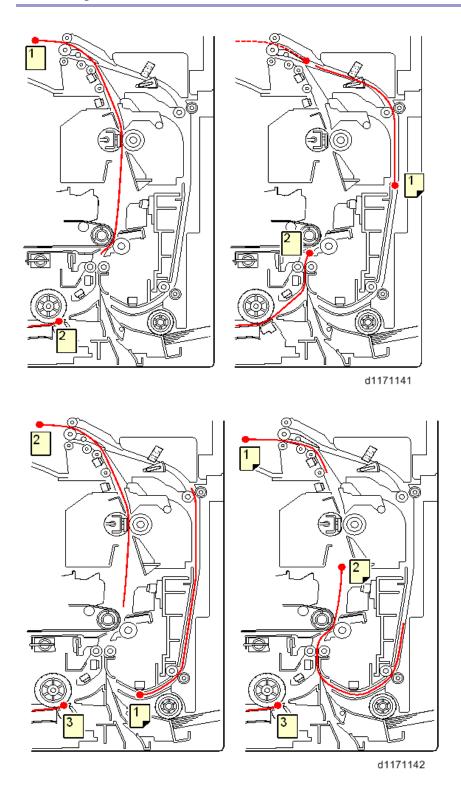
The drive from the paper transport motor [D] is transmitted to the duplex clutch [C] through a gear, and the duplex clutch turns on to drive the duplex rollers.

There are two duplex paper transport rollers (upper and lower). The duplex drive is transmitted from the lower duplex paper transport roller to the upper duplex paper transport roller via a timing belt.

#### **Duplex Transport**

There are two paper sensors (upper and lower) in the duplex unit. The upper sensor is the duplex entrance sensor [A]. The lower sensor is the duplex exit sensor [B].

## Interleaving



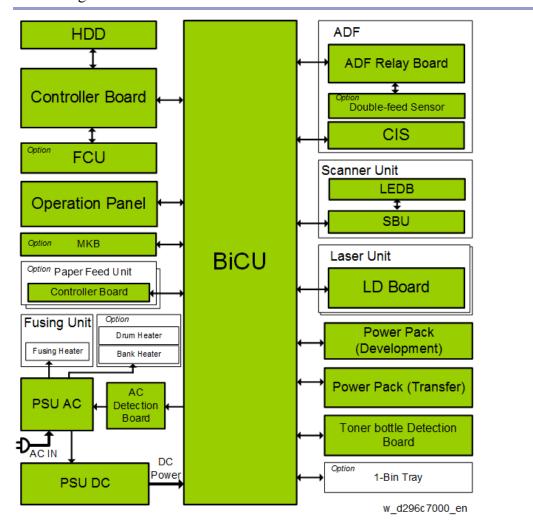
This machine adopts "2 in 1" interleaving.

The interleave operation of this machine is as follows:

1st sheet back -> 2nd sheet back -> first sheet front -> 2nd sheet front -> 3rd sheet back -> 4th sheet back.

### **Electrical Parts**

#### Block Diagram



#### **Board Outline**

#### Controller Board

Controls the MFP system overall. Contains an x86 CPU, controller ASIC, IO control ASIC, and RAM.

#### SBU

Scanning control circuit which performs analog signal processing and AD image conversion of the CCD read image.

It also has an interface with the IPU, and controls scanner input and output signals according to CPU commands.

#### LD Board

LD control circuit which drives the laser diode with a universal driver.

#### **BiCU**

Controls the engine, as well as MFP engine sensors, motors and solenoids (The BCU has the IOB functions).

#### **FCU**

Controls the fax program.

#### **OPU**

Controls the control panel.

#### Power Packs (HVPS)

Generates high-voltage power required for process control. The power pack consists of two units: T1/T2 for transfer and CB for charging/developing.

#### **PSU**

Generates DC power from the mains AC power supply, and supplies it to each control circuit. Contains an A/C drive circuit for controlling the fusing lamp.

#### **AC Detection Board**

Detects the voltage of the mains AC supply.

#### **ADF Relay Board**

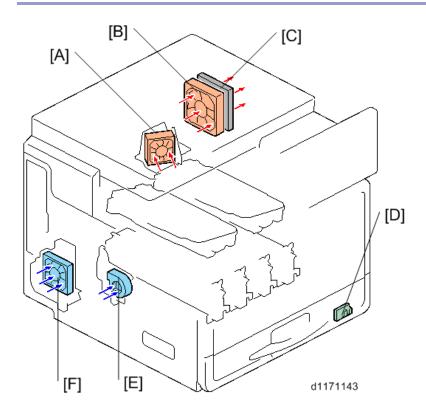
Controls motors, sensors, and solenoids in the ADF.

#### Fuse

Refer to Fuse Location (Fuse Location).

## **Machine Ventilation**

#### Overview



Callout	Item	Callout	Item
[A]	LD Unit Fan	[D]	Temperature/Humidity Sensor
[B]	Fusing Fan	[E]	PCDU Cooling Duct Fan
[C]	Ozone Filter	[F]	PSU Fan

The machine has four fans [A] [B] [E] [F] to ventilate the interior of the machine. There is a temperature/humidity sensor [D] at the front (lower right) of the machine. The machine takes in air from the left of the machine and exhausts it from the right of the machine after it cools the machine interior.

The ozone filter [C] is installed at the right of the fusing fan, which helps make it easier to replace the filter.

#### Machine Ventilation

The following tables summarize the fan control.

### Fan Control Overview

Status	PCDU Cooling	Fusing Fan	PSU Fan	LD Unit Fan
	Duct Fan			
Engine Off	Off			
Power ON –	Stops			

Status	PCDU Cooling	Fusing Fan	PSU Fan	LD Unit Fan
	Duct Fan			
Warm-up				
Standby	Stops	Rotates at low speed	Stops	Stops
Standby after	*1			
printing				
Printing	Rotates at full-	Rotates at full-speed →	Rotates at full-	Rotates at full-speed
	speed <sup>→</sup> Stops* <sup>2</sup>	Rotates at low-speed*2	speed*3	→Stops* <sup>2</sup>
Lower Power	Stops *4			
Silent				
Abnormal status				

#### Notes:

1. Keeps the printing status for the time specified in SP1-950-001 through -004. Then the fan keeps rotating until it reaches the temperature specified in SP2-241-004.

001: PCDU Cooling Duct Fan

002: Fusing Fan

003: PSU Fan

004: LD Unit Fan

2. Rotates at full speed when the temperature around the drum exceeds the temperature specified in SP1-955-001 through -004; Stops or rotates at low-speed when the temperature is out of the threshold specified in SP1-955-005.

001: PCDU Cooling Duct Fan

002: Fusing Fan 004: LD Unit Fan

- 3. If the time interval between the end timing of the last printing status and the start timing of the next printing status exceeds the value in SP1-955-007, the machine stops the fan until the duration specified in SP1-955-006, and then rotates at full speed.
- 4. If the fan is rotating, the machine keeps rotating it until the time specified in SP1-950-001 through -004.

## **Operation Panel**

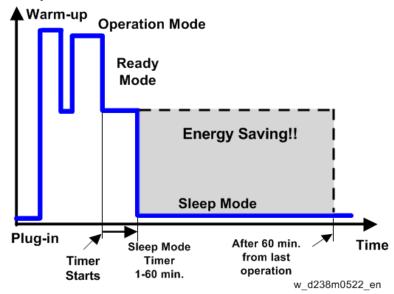
Refer to "Smart Operation Panel" manual for details.

## **Energy Save**

#### **Energy Saver Modes**

Customers should use energy saver modes properly, to save energy and protect the environment.

## Power Consump.



The area shaded grey in this diagram represents the amount of energy that is saved when the timers are at the default settings. If the timers are changed, then the energy saved will be different. For example, if the timers are all set to 60 min., the grey area will disappear, and no energy is saved before 60 min. expires.

#### Setting Items that are Related to Energy Saving

The user can set these timers with User Tools (Machine Features > System Settings > Timer Settings)

#### Sleep Mode Timer

User Tools (Machine Features > System Settings > Timer Settings)

After a specified period has passed, or [Energy Saver] is pressed, the machine enters Sleep mode in order to conserve energy. Specify the time to elapse before Sleep mode.

Default: [1 minute(s)]

Sleep Mode Timer may not work when error messages appear.

Depending on which Embedded Software Architecture application is installed on it, the machine might take longer than indicated to enter Sleep mode.

#### Fusing Unit Off Mode (Energy Saving) On/Off

User Tools (Machine Features > System Settings > Timer Settings)

Specifies whether Fusing Unit Off mode is enabled or not.

When Fusing Unit Off mode is enabled, the display is on but the fusing unit is off to save energy.

The machine requires roughly the same time as warm-up time to recover from Fusing Unit Off mode.

Default: [Off]

#### 7. Detailed Descriptions

If [Fusing Unit Off Mode (Energy Saving) On/Off] is set to [On], you can specify when to exit Fusing Unit Off mode and the time to elapse before entering Fusing Unit Off mode.

If [Exit Fusing Unit Off Mode] is set to [On Printing], the machine exits Fusing Unit Off mode when printing is performed.

If [Exit Fusing Unit Off Mode] is set to [On Operating Control Panel], the machine exits Fusing Unit Off mode when a key other than the copy function key is pressed on the control panel of the machine.

#### Energy Saving Recvry. for Business Applicatn.

User Tools (Machine Features > System Settings > General Features)

Specify whether or not to enable low-energy recovery from Sleep mode to use applications independent of the machine, such as Address Book Management or Browser.

Default: [Off]

If [On (Energy Saving)] is selected, it takes longer than usual to be ready to use the machine.

#### Recovery Time/Reduced Electrical Consumption

#### Reduced electrical consumption in Sleep mode\*1:

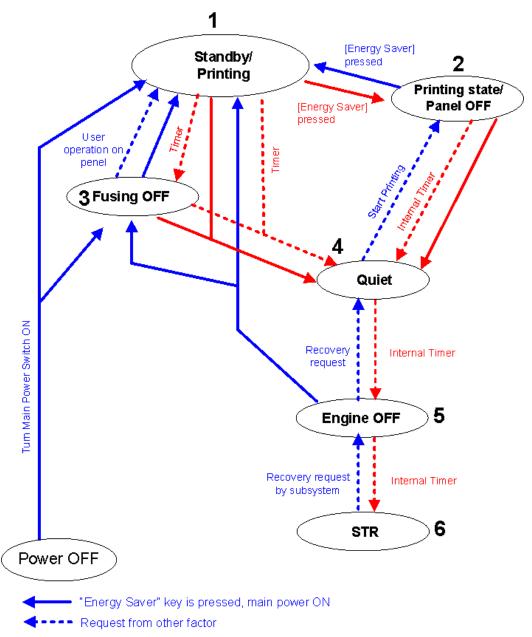
MP C307	MP C407
NA/EU/AA: 1.0 W or less	NA/EU/AA: 1.0 W or less

#### **Recovery time from Sleep mode\*1**

MP C307	MP C407
10 sec.	10 sec.

<sup>\*1</sup> The time it takes to switch out from energy saving functions and electrical consumption may differ depending on the conditions and environment of the machine.

## Power States of this Machine



"Energy Saver" key is pressed, or request via the external device.

→ - - - Automatic internal timer w\_d238m0523e\_en

	State	Description
1	Standby/Printing	State where normal operation is possible after warm-up
		State during printing
2	Printing state/Panel	State when printing with the backlight of the operation panel turned off
	OFF	
3	Fusing OFF	State where the Standby Fusing OFF state is entered when the time set with the
		"Fusing Unit Off Mode (Energy Saving) On/Off" setting of the User Tools has
		elapsed.
		• State where the operation panel is flashing and the fusing lamp is OFF.

#### 7. Detailed Descriptions

	State	Description			
		The bottom plate of the paper feed tray is raised.			
4	Quiet state	Quiet state is entered when the Energy Saving key is pressed or the time set with the			
		"Sleep Mode Timer" of the User Tools has elapsed. This is a temporary energy			
		saving state before entering sleep mode.			
		Basically, no homing (initialization) of peripheral devices is performed.			
		The bottom plate of the paper feed tray is raised.			
		• The fusing lamp is turned OFF.			
5	Engine OFF	Entered from Quiet state with internal timer.			
	(Sleep mode)	• The relevant power systems (24V, 12V, 5V) are turned OFF at the same time as			
		the fusing lamp.			
		When printing is performed in engine OFF state, warm-up is started and printing			
		is performed while the backlight of the operation panel is turned OFF.			
6	STR state	Supplying of power and clock to the CPU and peripheral chips on the controller			
	(Sleep mode)	board is stopped.			

#### Device state for each Energy Saving state

State	Energy Saving LED	Operation panel	Engine (Printer)	HDD	CTL
		LCD			
Standby/Printing	ON	ON	ON	ON	ON
Printing state/Panel OFF	ON	OFF	ON	ON	ON
fusing OFF	ON	ON	ON	ON	ON
			(Printer is in <b>Quiet</b> state)		
Quiet state	ON	OFF	ON	ON	ON
		ON*1	(Printer is in <b>Quiet</b> state)		
Engine OFF	Blinking gradually	Sleep	OFF	OFF	ON
	ON*1	OFF or ON*1		ON*1	
STR state	Blinking gradually	Sleep	OFF	OFF	STR

<sup>\*1</sup> When [Energy Saving Recvry. for Business Applicatn.] is [On (Energy Saving)], ON/OFF is determined by the internal timer of the Smart Operation Panel.

# Transition of operation panel to Energy Saving when [Energy Saving Recvry. for Business Applicatn.] is [On (Energy Saving)]

Normally, the Energy Saving state of the operation panel LCD changes in step with the energy saving state of the MFP/LP main unit, but to support the scenario where an application that does not use the engine (printer) is executed from the operation panel, the Energy Saving state of the operation panel is transitioned through the three states ON, OFF, and Sleep with its internal timer when [Energy Saving Recvry. for Business Applicatn.] is [On (Energy Saving)].

## Verification of Up Time for each Energy Saving State

The up time for each power state of the machine can be checked with SP8-961 (Electricity Status). It is also output on the SMC sheet.

SP	Name	Description
SP8-961-	Ctrl Standby Time	Cumulative time of Engine OFF mode, Quiet mode, and Standby mode
001		
SP8-961-	STR Time	Cumulative time of STR mode
002		
SP8-961-	Main Power Off Time	Cumulative time of state in which the power plug is connected to the
003		outlet but the main power is off
SP8-961-	Reading and Printing	Cumulative time of state in which the plotter engine is running or
004	Time	warming up
SP8-961-	Printing Time	Cumulative time of the state in which the plotter engine is running
005		
SP8-961-	Eng Waiting Time	Cumulative time of state in which the power state of the engine is
007		Standby state
SP8-961-	Low Power State	Not used for this machine
008	Time	
SP8-961-	Quiet State Time	Cumulative time of the state in which the power state of the engine is
009		Quiet state
SP8-961-	Fusing Lamp Off	Cumulative time of the state in which the power state of the engine is
010	State Time	Fusing OFF state
SP8-961-	LCD on Time	Cumulative time of the state in which the backlight of the LCD is on.
011		

### Checking the Up time by Device State

SP 8941 (Machine Status) keeps a record of the amount of time that the machine spends in each mode.

SP8-941-	Operation	Cumulative time of the state in which the engine state notification is enabled.
001	Time	The state in which the engine is not running (such as when storing to HD only
		with the controller) is excluded from the running state.
SP8-941-	Standby Time	Cumulative time of the state in which the engine state is not running.
002		
SP8-941-	Low Power	Not used for this machine
003	Time	
SP8-941-	Sleep mode	Cumulative time in Sleep Mode state.
004	time	

#### 7. Detailed Descriptions

SP8-941-	Off Mode	Cumulative time in which the Energy Saving state of the device is Engine OFF	
005	Time	state.	
SP8-941-	Down time	Cumulative time in which the device is disabled because itself or its component	
006 to 009		is in the following state.	
		SP8-941-006: SC (excluding mode SC)	
		• SP8-941-007: Jam (plotter)	
		SP8-941-009: Supply/PM unit end	

With this data, and the power consumption values from the specifications, we can estimate the amount of energy that is used by the machine.

This should only be used as a reference value, because the power consumption specifications are measured in a controlled environment with a constant power supply.

To get an exact measurement at the customer's site, a watt meter must be used to measure the actual energy consumed.

To use SP8941 to calculate the energy consumed:

- At the start of the measurement period, read the values of SP8-941-001 to 005.
- At the end of the measurement period, read the values of SP8-941-001 to 005 again.
- Find the amount of time spent in each mode (subtract the earlier measurement from the later measurement).
- Multiply this by the power consumption spec for each mode.
- Convert the result to kWh (kilowatt hours)

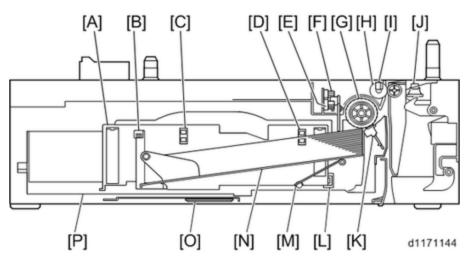
#### Recommendation

We recommend that the default settings related to energy saving should be kept.

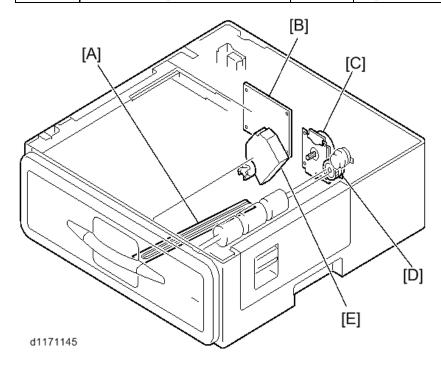
• If the customer requests that these settings should be changed, please explain that their energy costs could increase, and that they should consider the effects on the environment of extra energy use.

## Paper Feed Unit PB1080/PB1080TE (Optional)

### Overview

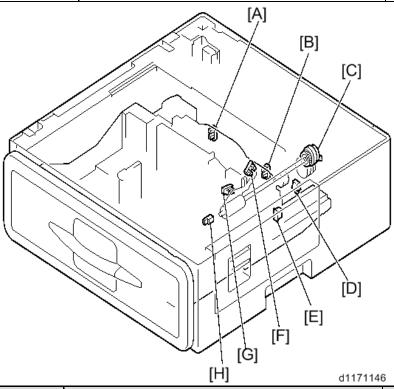


Callout	Item	Callout	Item
[A]	Side Fence	[I]	Paper Transport Sensor
[B]	End Fence	[J]	Vertical Transport Cover Open/Close Switch
[C]	Tray Bottom Plate Lift Sensor	[K]	Friction Pad
[D]	Tray Bottom Plate HP Sensor	[L]	Tray Set Switch
[E]	Paper End Sensor	[M]	Bottom Plate Lift lever
[F]	Remaining Paper Sensor	[N]	Tray Bottom Plate
[G]	Paper Feed Roller	[O]	Anti-condensation Heater (Option)
[H]	Vertical Transport Roller	[P]	Paper Tray



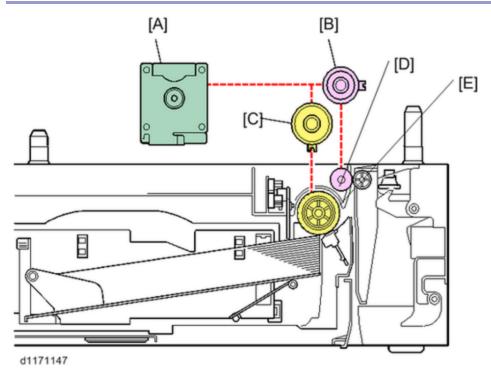
## 7.Detailed Descriptions

Callout	Item	Callout	Item
[A]	Anti-condensation Heater (Option)	[D]	Paper Feed Clutch
[B]	Controller Board	[E]	Tray Lift Motor
[C]	Paper Feed Motor		



Callout	Item	Callout	Item
[A]	Tray Bottom Plate Lift Sensor	[E]	Tray Set Switch
[B]	Tray Bottom Plate HP Sensor	[F]	Paper End Sensor
[C]	Vertical Transport Clutch	[G]	Remaining Paper Sensor
[D]	Vertical Transport Cover Open/Close Switch	[H]	Vertical Transport Sensor

## Paper Transport Drive

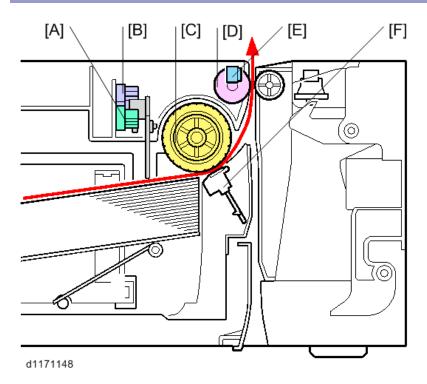


CalloutItemCalloutItem[A]Paper Feed Motor[D]Vertical Transport Roller[B]Vertical Transport Clutch[E]Paper Feed Roller[C]Paper Feed Clutch

The paper feed motor drives the paper feed clutch [C] and the vertical transport clutch [B] through gears. The operation timing of each clutch is as follows.

- 1. The paper feed clutch [C] is turned on until the vertical transport roller begins to operate.
- 2. The vertical transport clutch [B] is turned on until the paper reaches the mainframe.

### Sensors and Friction Pad



Callout Callout Item Item Paper End Sensor Vertical Transport Roller [A] [D] [B] Remaining Paper Sensor Vertical Transport Sensor [E] Friction Pad [C] Paper Feed Roller [F]

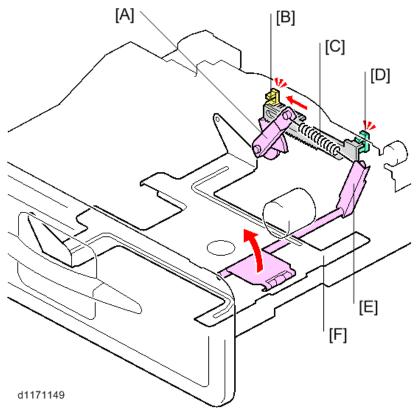
Only one actuator is used for detecting paper end and remaining paper.

The front side of the actuator is for the remaining paper sensor [B], and the rear side of the actuator is for the paper end sensor [A].

The vertical transport sensor [E] acts as a paper feed sensor.

This machine uses the friction pad method (same as the mainframe).

#### Tray Lifting up Mechanism



Callout	Item	Callout	Item
[A]	Tray Bottom Plate Pressure Lever	[D]	Tray Bottom Plate HP Sensor
[B]	Tray Bottom Plate Lift Sensor	[E]	Tray Bottom Plate Lift Lever
[C]	Lift Lever Encoder	[F]	Tray Bottom Plate

The pressure of the tray bottom plate [F] can be adjusted depending on the amount of paper remaining.

The pulses from the lift lever encoder [C] are detected by the tray bottom plate lift sensor [B]. The tray lift motor is controlled based on the pulses from the encoder.

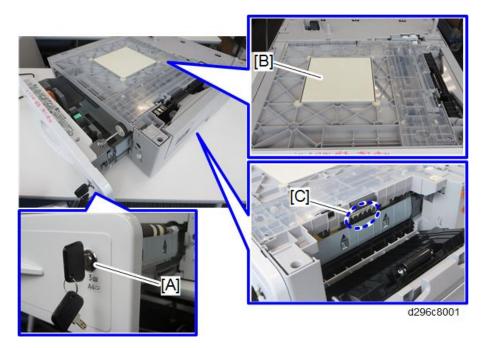
### Preventing Theft of Paper (Only PB1080TE)

Paper Feed Unit PB1080TE is the optional PFU which can be locked with a key.

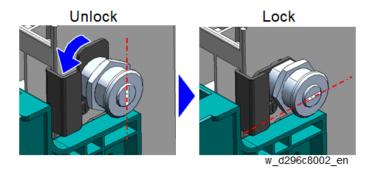
The key cylinder [A] is mounted on the front cover of the tray for preventing theft of paper. When the tray is locked with a key, it cannot be pulled out. Even if the machine body is unloaded from the PFU, taking out paper is impossible, because the plate [B] is fixed on top of the PFU.

In addition, in this model, the ribs [C] are added to the vertical transport unit. The ribs prevent from inserting fingers into the tray and rotating the feed roller with hands.

### 7. Detailed Descriptions



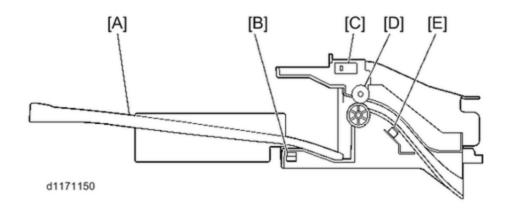
Two keys are shipped including the spare. In either position Lock/Unlock, it is possible to pull out the key. The key will be horizontal in the lock position.



If the key has been lost, arrange new keys registered as service parts (P/N: D1462868, this P/N is as of October, 2016).

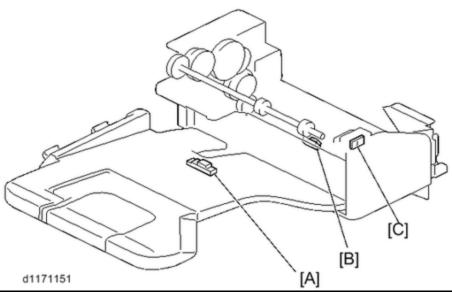
## 1 Bin Tray BN1030 (Optional)

## Overview



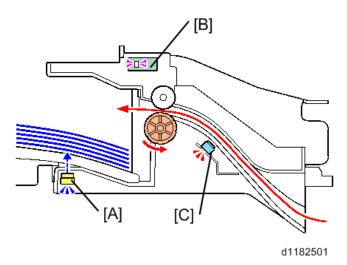
Callout	Item	Callout	Item
[A]	Paper Exit Tray	[D]	Paper Exit Roller
[B]	1-Bin Tray Paper Remaining Sensor	[E]	1-Bin Tray Exit Sensor
[C]	LED Board		

## Electrical Components



Callout	Item	Callout	Item
[A]	1-Bin Tray Paper Remaining Sensor	[C]	LED Board
[B]	1-Bin Tray Exit Sensor		_

## Paper Exit from 1-Bin Tray Unit



Callout	Item	Callout	Item
[A]	1-Bin Tray Paper Remaining Sensor	[C]	1-Bin Tray Exit Sensor
[B]	LED Board		

The paper from the paper exit section is transported to the 1-bin unit.

This uses the same transport path as usual even if duplex is used.

The 1-bin tray paper remaining sensor [A] detects the fed out paper, and the LED [B] blinks to inform users that there is paper on the 1-bin tray after the end of the job.

The 1-bin tray exit sensor [C] detects paper jams in the 1-bin tray.

# **MP C307/C407**

Machine Code: D296/D297/D298/D299

**Appendices** 

**Ver 1.0** 

Latest Release: Nov, 2016

**Initial Release: Nov, 2016** 

Copyright (c) 2016 Ricoh Co.,Ltd.

## Table of Contents

1. Specifications	4
Specifications	4
Mainframe	4
Printer	7
Scanner	8
ADF	8
Supported Paper Sizes	10
Paper Feed	10
Paper Exit	11
Software Accessories.	
Printer Drivers	
Scanner and LAN Fax drivers	
Optional Equipment	
Paper Feed Unit (D573)	
1 Bin Tray Unit (D574)	
2. Preventive Maintenance Tables	16
Maintenance Tables	16
Preventive Maintenance Items For MP C307	16
Preventive Maintenance Items For MP C407	19
3. SP Mode Tables	23
Service Program Mode	23
Enabling and Disabling Service Program Mode	23
Types of SP Modes	24
Remarks	27
SP Tables - SP1-XXX	29
SP1-XXX (Feed)	29
SP Tables - SP2-XXX (1)	47
SP2-XXX (Drum) -1	47
SP Tables - SP2-XXX (2)	
SP2-XXX (Drum) -2	
SP Tables - SP3-XXX	
SP3-XXX (Process)	
SP Tables - SP4-XXX	
SP4-XXX (Scanner)	
SP Tables - SP5-XXX	
SP5-XXX (Engine: Mode)	
SP5-XXX (Controller: Mode)	199

SP Tables - SP6-XXX	256
SP6-XXX (Peripherals)	
SP Tables - SP7-XXX	
SP7-XXX (Engine: Data Log)	
SP7-XXX (Controller: Data Log)	288
SP Tables - SP8-XXX (1)	
Remarks	
SP8-XXX (Data Log2) -1	
SP Tables - SP8-XXX (2)	
SP8-XXX (Data Log2) -2	
Printer Service Mode	
Scanner Service Mode	
SP1-XXX (System and Others)	
SP2-XXX (Scanning-image Quality)	
Input and Output Check	
ADF Unit	
Scanner Unit/ Laser Unit	370
Paper Feed	
Paper Exit/ Duplex, Waste Toner Bottle	
Fusing	
Toner Supply/ Transfer	
Drive Unit	
Fan/ Board	
Paper Feed Unit (Optional)	
1 Bin Tray Unit (Optional)	
4. Software Configuration	384
Management Features	
How to Disable the Document Server Function.	
Printing Features	
Behavior of USB Printer Detection	
Auto PDL Detection Function.	
Print Images Rotation	
PJL USTATUS	
Scanner Features	
Display settings of recently used scan destination	393
The Setting of SMTP authentication in Scan to Email	393
The Qualification Switching of Scan to Folder	
Security Features	
How to Restrict Access to the WIM Job Menu	396

How to Restrict Web Image Monitor Access to the Document Server	. 396
User Authentication for Specific MFP Applications	. 397

# 1. Specifications

## **Specifications**

## Mainframe

Items	MP C307/C407	MP C306/C406	
Configuration:	Desktop		
Scanning	One-dimensional solid-state scanning through	One-dimensional solid-state scanning	
element:	CCD	through CCD	
	A CIS is also used for scanning the back side		
	of the ADF		
Printing process:	Dry Electrostatic transfer system with dual com	nponent development; 4-drum method	
Development:	Dry two-component magnetic brush developme	ent system	
Resolution:	Scan:	Scan:	
	• Exposure glass: 600 × 600 dpi	• Exposure glass: 600 × 600 dpi	
	• ADF: 600 × 300 dpi (front), 300 × 600	• ADF: 600 × 300 dpi	
	dpi (back), 600 × 600 dpi	Print:	
	Print:	• 600 × 600 dpi	
	• 600 × 600 dpi, 1200 × 1200dpi		
Fusing:	Direct Heating (DH) fusing		
Original type:	Sheets, book, three-dimensional object		
Maximum	216 × 356 mm (8.5" × 14 ")		
original size:			
Copy speed:	C307:	C306:	
	• Color: 30 cpm (A4), 31cpm (LT)	• Color: 30 cpm (A4), 31cpm (LT)	
	• Color/1200dpi: 15 cpm (A4), 15cpm	• B&W: 30 cpm (A4), 31cpm (LT)	
	(LT)	C406:	
	• B&W: 30 cpm (A4), 31cpm (LT)	• Color: 35 cpm (A4), 36 cpm (LT)	
	C407:	• B&W: 40 cpm (A4), 42cpm (LT)	
	• Color: 35 cpm (A4), 36 cpm (LT)		
	• Color/1200dpi: 15 cpm (A4), 15cpm		
	(LT)		
	• B&W: 40 cpm (A4), 42cpm (LT)		
First copy time:	C307:	C306:	
(A4/LT, 1st tray)	Color: 8.5 seconds or less	Color: 11.0 seconds or less	
	B&W: 7.1 seconds or less	B&W: 7.2 seconds or less	
	C407:	C406:	

Items	MP C307/C407	MP C306/C406	
	Color: 7.5 seconds or less	Color: 10.5 seconds or less	
	B&W: 6.1 seconds or less	B&W: 6.2 seconds or less	
Warm-up time:	48.6 seconds (23°C (73.4°F), rated voltage)	25 seconds (23°C (73.4°F), rated voltage)	
Print paper	Standard tray: 250 sheets		
capacity:	Bypass tray: 100 sheets		
(80 g/m <sup>2</sup> , 20 lb.)	Optional tray: 500 sheets		
Print paper size:	Standard tray: A4 SEF / LT SEF to A5 SEF		
	Bypass tray: A4 / LG to A6 SEF / Envelope		
	Optional tray: A4 SEF / LG SEF to A5 SEF		
	For details, see Supported Paper Sizes		
Printing paper	Standard tray: 60-163 g/m <sup>2</sup> (16-90 lb.)		
weight:	Bypass tray: 60-220 g/m <sup>2</sup> (16-80 lb)		
	Optional tray: 60-163 g/m <sup>2</sup> (16-90 lb.)		
	Duplex: 60-163 g/m <sup>2</sup> (16-90 lb.)		
Output paper	Std: 100 sheets		
capacity:	Max: 200 sheets (with 1 bin tray)		
Continuous copy:	Up to 99 sheets		
Memory:	2GB		
Hard disk:	320GB		
CPU:	Intel® Atom Processor BayTrail-I 1.46GHz	RM7035C-533L	
Zoom:	Arbitrary:		
	From 25 to 400% (1% step)		
	Fixed:		
	North America		
	65%, 78%, 93%, 100%, 129%, 155%		
	Europe/Asia		
	50%, 71%, 93%, 100%, 141%, 200%		
Power source:	110 V, 60 Hz: More than 10 A (for Taiwan)		
	120V -127 V, 60 Hz: More than 10 A (for North America)		
	220 V - 240 V, 50/60 Hz: More than 5 A (for Europe/Asia)		
Power	North America	North America	
consumption:	C307 (with full system): 1,300 W or less	C306 (with full system): 1,300 W or less	
	C407 (with full system): 1,300 W or less	C406 (with full system): 1,300 W or less	
	EU/Asia	EU/Asia	
	C307 (with full system): 1,200 W or less	C306 (with full system): 1,200 W or less	
	C407 (with full system): 1,200 W or less	C406 (with full system): 1,200 W or less	
	*The full system consists of the main unit,	*The full system consists of the main	

Items	MP C307/C407	MP C306/C406	
	two paper tray units, and 1bin unit.	unit, two paper tray units, and 1bin unit.	
Energy saver:	Reduced electrical consumption:	Reduced electrical consumption:	
	C307/C407: 1.0 W or less	North America	
		C306: 0.71 W or less	
		C406: 0.63 W or less	
		EU/Asia	
		C306: 0.66 W or less	
		C406: 0.75 W or less	
Noise emission:	Sound power level with full system	Sound power level with full system	
	C307:	C306:	
	• Stand-by: 30.5 dB (A)	• Stand-by: 31.9 dB (A)	
	• Copying:	• Copying: 67.7 dB (A)	
	B&W: 66.7 dB (A)	C406:	
	Color: 67.8 dB (A)	• Stand-by: 31.9 dB (A)	
	C407:	• Copying:	
	• Stand-by: 30.8 dB (A)	B&W: 68.3 dB (A)	
	• Copying:	Color: 67.8 dB (A)	
	B&W: 69.7 dB (A)	Sound pressure level with full system	
	Color: 68.6 dB (A)	C306:	
	Sound pressure level with full system	• Stand-by: 19.3 dB (A)	
	C307:	• Copying: 55.3 dB (A)	
	• Stand-by: 20.2 dB (A)	C406:	
	• Copying:	• Stand-by: 19.8 dB (A)	
	B&W: 59.7 dB (A)	• Copying:	
	Color: 61.1 dB (A)	B&W: 56.1 dB (A)	
	C407:	Color: 54.2 dB (A)	
	• Stand-by: 21.0 dB (A)	Sound power level and sound pressure	
	• Copying:	level are actual values measured in	
	B&W: 62.3 dB (A)	accordance with ISO 7779.	
	Color: 62.2 dB (A)	Sound pressure level is measured from	
	Sound power level and sound pressure level	the position of the bystander.	
	are actual values measured in accordance	The full system consists of the main unit,	
	with ISO 7779.	ADF, 1bin unit, and two paper tray units.	
	Sound pressure level is measured from the		
	position of the bystander.		
	The full system consists of the main unit, 1-		
	bin unit and two paper tray units.		
Dimensions (W x	498 x 585 x 510 mm (19.6" x 23.0" x 20.1"):	510 x 588 x 505 mm (20.1" x 23.1" x	

Items	MP C307/C407	MP C306/C406
D x H):	(including ADF and operation panel)	19.9"):
		(including ARDF and operation panel)
Weight:	46 kg (101.4 lb.)	Basic model: 40.5 kg (89.3 lb.)
	(including ADF)	ADF model: 45 kg (99.3 lb.)

## Printer

Items	MP C307/C407	MP C306/C406
Printer	Standard: PCL 5c/6, PDF, RPCS, PostScript	Standard: PCL 5c/6, PDF, RPCS, PostScript 3
languages:	3	Option: XPS, PictBridge
	Option: XPS, PictBridge, Adobe	
	PostScript3	
Resolution:	200 dpi, 300 dpi, 400 dpi, 600 dpi, 1200 dpi	PCL5c:
	Note:	600 x 600 dpi (1, 2, 4 bit), 300 x 300 dpi
	• PCL5c: 600 x 600 dpi (1, 2, 4 bit), 300	Grayscale
	x 300 dpi Grayscale	PCL6:
	• PCXL: 1200 x 1200 dpi (1 bit), 600 x	1200 x 1200 dpi (1 bit), 600 x 600 dpi (1, 2, 4
	600 dpi (1, 2, 4 bit)	bit)
	• XPS: 600 x 600 dpi (1, 2, 4 bit)	PS3:
		1200 x 1200 dpi (1 bit), 600 x 600 dpi (1, 2, 4
		bit)
		XPS:
		600 x 600 dpi (1, 2, 4 bit)
Resident	PCL 5c/6: 93 fonts	PCL5c/ 6: 45 fonts, 13 International fonts
fonts:	PDF: 136 fonts	Adobe PostScript 3: 136 fonts
	PostScript 3: 136 fonts	
Host	Standard:	Standard:
interfaces:	Ethernet (10Base-T/100Base-	Ethernet (10Base-T/100Base-TX/1000Base-T),
	TX/1000Base-T), USB2.0 (Type A), SD	USB2.0[TypeB], USB2.0 Host I/F[TypeA](2
	card slot	port), SD card slot
	Option:	Option:
	IEEE1284, Wireless LAN	IEEE1284/ECP, Wireless LAN
	(IEEE802.11a/b/g/n), USB 2.0 (Type B),	(IEEE802.11a/b/g/n), Bluetooth, Ethernet (RJ-
	Ethernet (10Base-T/100Base-	45 network port : 10Base-T/100Base-
	TX/1000Base-T)	TX/1000Base-T)
Network	TCP/IP (IPv4, IPv6)	Standard: TCP/IP (IPv4, IPv6)
protocols:		Optional: IPX/SPX

## Scanner

Items	MP C307/C407	MP C306/C406
Scanning	Full-color scanner / Flatbed scanning	
method:		
Scanning	TWAIN Mode:	
resolution:	Exposure glass: 100 to 1200 dpi	
	• ADF: 100 to 600 dpi	
	WIA Mode:	
	• 100 to 1200 dpi	
	Delivery Mode:	
	• 100 / 200 / 300 / 400 / 600 dpi (default: 2	00 x 200 dpi)
Grayscales:	1 bit or 8 bits/pixel each for RGB	
Scanning	B&W:	B&W:
Throughput:	Simplex: 40 pages/minute (200 dpi/300 dpi)	Over 30 pages/minute (200dpi / 300dpi)
	Duplex: 80 pages/minute (200 dpi/300 dpi)	(A4, SEF, Mono 1bit, Text/Line Art, MMR
	(A4 SEF, Mono 1bit, Text/Line Art, MMR	compression with ADF)
	compression with ADF)	Color:
	Color:	Over 30 pages/minute (200dpi), Over 20
	Simplex: 40 pages/minute (200 dpi/300 dpi)	pages/minute (300dpi)
	Duplex: 80 pages/minute (200 dpi/300 dpi)	(A4, SEF, FC Text/Photo / JPEG standard
	(A4 SEF, FC Text/Photo / JPEG standard	compression with ADF)
	compression with ADF)	
Network	Ethernet (1000BASE-T/100BASE-	Ethernet (1000BASE-T/100BASE-
interface:	TX/10BASE-T), Wireless LAN (IEEE	TX/10BASE-T), Wireless LAN (IEEE
	802.11a/b/g/n)	802.11a/b/g)
Compression	B&W: TIFF (MH, MR, MMR, JBIG2)	
method:	Gray Scale, Full Color: JPEG	

## ADF

Items	MP C307/C407	MP C306/C406
Original size:	A4 to A5, LG to HLT	Simplex: A4 to A6, LG to HLT
		Duplex: A4 to A6, LG to HLT
Original weight:	52 to 128 g/m <sup>2</sup> (14 to 34 lb.)	Simplex: 52 to 128 g/m <sup>2</sup> (14 to 34 lb.)
		Duplex: 64 to 105 g/m <sup>2</sup> (17 to 28 lb.)
Table capacity:	50 sheets (80 g/m², 20 lb. Bond or less)	
	20 sheets (more than 80 g/m <sup>2</sup> , 20 lb. Bond)	
Separation:	Friction pad	

## 1.Specifications

Items	MP C307/C407	MP C306/C406	
Original transport:	Roller transport		
Original feed order:	From the top original		
Power source:	DC 24V, 5V from the scanner unit.		

# **Supported Paper Sizes**

## Paper Feed

Paper	Size	Main Tray	Paper Feed Unit	Bypass Tray
A4 SEF	210 x 297 mm	✓	✓	<b>✓</b>
A5 SEF	148 x 210 mm	✓	✓	~
A5 LEF	210 x 148 mm	-	-	<b>✓</b>
A6 SEF	105 x 148 mm	-	-	✓
B5 SEF	182 x 257 mm	✓	✓	✓
B6 SEF	128 x 182 mm	-	-	✓
Legal SEF	8.5 x 14 inch	-	✓	✓
Foolscap SEF	8.5 x 13 inch	-	✓	✓
Letter SEF	8.5 x 11 inch	✓	✓	✓
GovernmentLG SEF	8.25 x 14 inch	-	✓	✓
Folio SEF	8.25 x 13 inch	-	✓	✓
F/GL SEF	8 x 13 inch	-	✓	✓
Eng Quatro SEF	8 x 10 inch	-		✓
Executive SEF	7.25 x 10.5 inch	-	✓	✓
Half Letter SEF	5.5 x 8.5 inch	✓	✓	✓
Half Letter LEF	8.5 x 5.5 inch	-	-	<b>✓</b>
Com10 Env. SEF	4.125 x 9.5 inch	-	-	✓
Monarch Env. SEF	3.875 x 7.5 inch	-	-	<b>✓</b>
C5 Env. SEF	162 x 229 mm	-	-	<b>✓</b>
C6 Env. SEF	114 x 162 mm	-	-	✓
DL Env. SEF	110 x 220 mm	-	-	✓
16K SEF	195 x 267 mm	-	-	✓
8.5 × 12 SEF	8.5 x 12 inch	-	✓	<b>✓</b>
8 1/2 × 13 2/5 SEF	8.5 x 13.4 inch	-	<b>✓</b>	<b>✓</b>

## **Custom:**

-	Main Tray	Paper Feed Unit	Bypass Tray
Width	139.5 - 216.0 mm	139.5 - 216.0 mm	76.2 - 216.0 mm
	5.50 - 8.50 inch	5.50 - 8.50 inch	3.00 - 8.50 inch
Length	210.0 - 297.0 mm	210.0 - 356.6 mm	139.0 - 600.0 mm
	8.27 - 11.69 inch	8.27 - 14.03 inch	5.48 - 23.62 inch

## Remarks

 $\checkmark$ : Supported

## Paper Exit

Paper	Size	Main Tray	1 Bin Tray
A4 SEF	210 x 297 mm	✓	✓
A5 SEF	148 x 210 mm	✓	✓
A5 LEF	210 x 148 mm	✓	-
A6 SEF	105 x 148 mm	✓	-
B5 SEF	182 x 257 mm	✓	✓
B6 SEF	128 x 182 mm	✓	-
Legal SEF	8.5 x 14 inch	✓	✓
Foolscap SEF	8.5 x 13 inch	✓	✓
Letter SEF	8.5 x 11 inch	✓	✓
GovernmentLG SEF	8.25 x 14 inch	✓	<b>✓</b>
Folio SEF	8.25 x 13 inch	✓	<b>~</b>
F/GL SEF	8 x 13 inch	✓	<b>~</b>
Eng Quatro SEF	8 x 10 inch	✓	<b>~</b>
Executive SEF	7.25 x 10.5 inch	✓	✓
Half Letter SEF	5.5 x 8.5 inch	✓	✓
Half Letter LEF	8.5 x 5.5 inch	✓	-
Com10 Env. SEF	4.125 x 9.5 inch	✓	-
Monarch Env. SEF	3.875 x 7.5 inch	✓	-
C5 Env. SEF	162 x 229 mm	✓	-
C6 Env. SEF	114 x 162 mm	✓	-
DL Env. SEF	110 x 220 mm	✓	-
16K SEF	195 x 267 mm	✓	✓
8.5 × 12 SEF	8.5 x 12 inch	✓	✓
8 1/2 × 13 2/5 SEF	8.5 x 13.4 inch	✓	✓

## **Custom:**

-	Main Tray	1 Bin Tray
Width	76.2 - 216.0 mm	139.7 - 216.0 mm
	3.00 - 8.50 inch	5.50 - 8.50 inch
Length	139.0 - 600.0 mm	210.0 - 600.0 mm
	5.48 – 23.62 inch	8.27 - 23.62 inch

## Remarks

**√**: Supported

# **Software Accessories**

The printer drivers and utility software are provided on one CD-ROM. An auto-run installer allows you to select which components to install.

## **Printer Drivers**

#### Windows

OS	Туре	PCL5c	PCL6	PS3	XPS
Windows Vista	Starter	-	-	-	-
	Home Basic	✓	<b>✓</b> *3	<b>√</b> *3	<b>√</b> *1
	Home Premium	✓	<b>✓</b> *3	<b>✓</b> *3	<b>√</b> *1
	Business	✓	<b>✓</b> *3	<b>✓</b> *3	<b>√</b> *1
	Ultimate	✓	<b>✓</b> *3	<b>✓</b> *3	<b>√</b> *1
	Enterprise	✓	<b>✓</b> *3	<b>✓</b> *3	<b>√</b> *1
Windows 7	Starter	-	-	-	-
	Home Basic	-	-	-	-
	Home Premium	✓	<b>✓</b>	✓	✓
	Professional	✓	<b>✓</b>	✓	✓
	Ultimate	✓	<b>✓</b>	✓	✓
	Enterprise	✓	<b>✓</b>	✓	✓
Windows 8/8.1	Windows 8	✓	✓	✓	✓
	Pro	✓	✓	✓	✓
	Enterprise	✓	✓	✓	✓
	RT	-	-	-	-
Windows Server 2003/ R2	Standard Edition	<b>✓</b> *2	<b>✓</b> *2	<b>✓</b> *2	-
	Enterprise Edition	<b>✓</b> *2	<b>✓</b> *2	<b>✓</b> *2	-
	Datacenter Edition	-	-	-	-
	Web Edition	-	-	-	-
Windows Server 2008/R2	Standard Edition	✓	<b>✓</b>	✓	✓
	Enterprise Edition	✓	✓	✓	✓
	Standard without Hyper-V	✓	✓	✓	✓
	Enterprise without Hyper-V	✓	<b>✓</b>	✓	✓
	Datacenter Edition	-	-	-	-
	Web Edition	-	-	-	-
Windows Server 2012/R2	Foundation	✓	<b>✓</b>	✓	✓
	Essentials	✓	<b>✓</b>	✓	✓
	Standard	✓	<b>✓</b>	✓	✓
	Datacenter	-	-	-	-
	•				

## ✓: Supported

- -: Not supported
- \*RPCS driver has been discontinued.
- \*1:SP1 or later is recommended
- \*2:SP2 or later is Recommended
- \*3:SP1 or later is recommended

#### **Mac OS Environment**

OS	PS3	Printer Utility for Mac
Mac OS 8.6 or later, Mac OS X classic	-	-
Mac OS X Native: v.10.57 or later	✓	-

#### ✓: Supported

-: Not supported

#### **UNIX Environment**

UNIX Platforms	Version
Sun Solaris	9, 10
HP-UX	11.x, 11i v2, 11i v3
Red Hat Linux	Enterprise V4, V5, V6
SCO OpenServer	5.0.7, 6.0
IBM AIX	V 5L, V5.3, V6.1, V7.1

#### **Novell Netware**

Netware Server*	Supported Version	Netware 6.5 or later
	Client OS	"Windows Vista/2003/2008/7/8/2012/8.1/2012R2

<sup>\*</sup> Netware option is required.

## SAP R/3 Environment (Device Type / Barcode & OCR Package)

Device Type will be provided from SAP itself in SAP Printer Vendor Program.

For the detailed specification, please refer to another announcement to be issued in the future.

Supported Barcode &	Barcode	Code 128, Code 39, Code 93, Codabar, 2 of 5
OCR Fonts	Fonts interleaved/Industrial/Matrix, MSI, USPS, UPC/EAN	
	OCR Fonts	OCR A, OCR B



- The PS3 drivers are all genuine AdobePS drivers, except for Windows 2000, which uses Microsoft PS.
- A PPD file for each operating system is provided with the driver.

#### Scanner and LAN Fax drivers

#### **Operating system for TWAIN driver:**

Windows Vista/7/8/8.1, Windows Server 2003/2003 R2/2008/2008 R2/2012/2012 R2 (TWAIN scanner runs in 32-bit compatible mode on a 64-bit operating system, so TWAIN scanner is not compatible with 64-bit applications. Use it with 32-bit applications.)

## **Operating system for WIA driver:**

Windows Vista (SP1 or later)/7/8/8.1, Windows Server 2008/2008 R2/2012/2012 R2 (WIA scanner can function under both 32- and 64-bit operating systems.)

## **Operating system for LAN FAX driver:**

Windows Vista, Windows 7,8, 8.1, Windows Server 2003, Windows Server 2008, Windows Server 2012, Windows Server 2008 R2, Windows Server 2012 R2



- The LAN Fax driver lets you fax documents directly form your PC. Address Book Editor and Cover Sheet Editor are to be installed as well.
- The Network TWAIN driver operates in 32-bit compatibility mode on 64-bit operating systems
- The Network TWAIN driver is provided on the scanner drivers CD-ROM.

# **Optional Equipment**

## Paper Feed Unit (D573)

Paper Feed System:	Feed Roller and Friction Pad	
Paper Height Detection:	Empty only	
Tray Capacity:	500 sheets	
Paper Weight:	60 to 163 g/m <sup>2</sup> (16 to 43.5 lb.)	
Paper Size:	A5 SEF to A4/LG SEF	
Power Source:	DC 24V, 5V (from the mainframe)	
Power Consumption:	Less than 27 W	
	(Power is supplied from the mainframe.)	
Dimensions (W x D x H):	498 mm x 552 mm x 150 mm (19.7" x 21.8" x 6.0")	
Weight:	10.4 kg (23.0 lb.) or less	

## 1 Bin Tray Unit (D574)

Paper detection:	Detects paper	
Tray Capacity:	100 sheets (80 g/m <sup>2</sup> )	
Paper Weight:	60 to 163 g/m <sup>2</sup> (16 to 43.5 lb.)	
Paper Size:	Width: 140 to 216 mm (5.5" to 8.5")	
	Length: 210 to 356 mm (8.3" to 14.0")	
Power Source:	DC 5V (from the mainframe)	
Power Consumption:	Less than 1 W	
	(Power is supplied from the mainframe.)	
Dimensions (W x D x H):	554 mm x 482 mm x 138.5 mm (21.8" x 19.0" x 5.5")	
Weight:	3.0 kg (6.6 lb.) or less	

# 2. Preventive Maintenance Tables

## **Maintenance Tables**

Preventive Maintenance Items For MP C307

Chart: A4 (LT)/5% Mode: 2 prints/job Color Ratio: 30%

Environment: Normal temperature and humidity

Yield may change depending on circumstances and print conditions.

Symbol keys: C: Clean, R: Replace, L: Lubricant, I: Inspect

**U** Note

#### **Yield Parts:**

The parts mentioned in these tables have a target yield. However, the total copy/print volume made by the machine will not reach the target yield within the machine's targeted lifetime if the machine is used under the target usage conditions (ACV, color ratio, and P/J). So, these parts are categorized not as PM parts but as yield parts (EM parts). In this table, the parts with "Y" are yield parts and the parts with "P" are PM parts.

#### **ADF**

The PM count for the following items is based on the number of originals fed:

Item	PM/Yield Parts	30k	45k	EM	Remarks
Friction pad	Y*	R		C	Wipe with a dry cloth.
ADF pick-up roller	Y*		R	C	Wipe with a damp cloth.
ADF feed roller	Y*		R	С	Wipe with a damp cloth.
ADF entrance roller				С	Wipe with a damp cloth.
Pre-scanning roller (front side/ rear side)				С	Wipe with a damp cloth.
ADF exit roller				С	Wipe with a damp cloth.

<sup>\*</sup> The actual lifetime of these parts depends on the type of paper used and machine operation. Therefore, these parts are treated as Yield Parts.

#### **Scanner Unit**

Item	PM/Yield Parts	EM	Remarks
Exposure glass		С	Clean with a cleaning cloth.
ADF exposure glass		С	Clean with a cleaning cloth.

**PCDU** 

The PM count for the following items is based on the sheets of copy paper fed:

Item	PM/Yield	36k	60k	EM	Remarks
	Parts				
PCDU	P		R		The PCDU (K) for C307 is different from C407. Make sure of
(K)					the correct part number before ordering it.
PCDU	Y	R			At color ratio 30%, the replacement interval is 120k.
(C)					
PCDU	Y	R			At color ratio 30%, the replacement interval is 120k.
(M)					
PCDU	Y	R			At color ratio 30%, the replacement interval is 120k.
(Y)					

## **Transfer Unit**

The PM count for the following items is based on the sheets of copy paper fed:

Item	PM/Yield Parts	120k	EM	Remarks
ITB (Image transfer belt) unit	Y	R		
Paper transfer roller	Y	R		

## **Fusing Unit**

The PM count for the following items is based on the sheets of copy paper fed:

1311							
Item	PM/Yield	60k	120k	EM	Remarks		
	Parts						
Fusing unit	Y		R		The fusing units of C307 and C407 are the same.		
Entrance guide		C			Remove the toner, wax, and paper dust with a dry		
plate					cloth.		
Exit guide plate		C			Remove the toner, wax, and paper dust with a dry		
					cloth.		
Separation plate		C			Remove the toner, wax, and paper dust with a dry		
					cloth.		
Fusing thermopile		С			Remove the toner, wax, and paper dust with a dry		
					cloth.		
Pressure roller		С			Remove the toner, wax, and paper dust with a dry		
					cloth.		

## **Paper Transport**

The PM count for the following items is based on the sheets of copy paper fed:

## 2. Preventive Maintenance Tables

Item	PM/Yield	60k	120k	EM	Remarks
	Parts				
Registration roller				С	Clean with a blower brush.
Registration sensor				С	Clean with a blower brush or wipe with a
					dry cloth.
Paper dust case				С	Clean with a blower brush.
Paper feed roller	Y		R	С	Wipe with a damp cloth.
Paper feed exit sensor				С	Clean with a blower brush or wipe with a
					dry cloth.
Bypass feed roller	Y		R	С	Wipe with a damp cloth.
Friction pad	Y		R	С	Wipe with a dry cloth.
Duplex entrance sensor				С	Clean with a blower brush or wipe with a
					dry cloth.
Duplex exit sensor				С	Clean with a blower brush or wipe with a
					dry cloth.
Duplex paper transport				С	Wipe with a damp cloth.
rollers					
Duplex entrance guide		С			Wipe with a cloth dampened with ethyl
plate					alcohol.
Paper exit/reverse roller		С			Wipe with a damp cloth.
Paper exit sensor		С			Clean with a blower brush or wipe with a
					dry cloth.

## **Others**

The PM count for the following items is based on the sheets of copy paper fed:

Item	PM/Yield Parts	90k	EM	Remarks
Waste toner bottle	P	R		Replace if the waste toner bottle is detected to be full.
Ozone filter			С	

## **Paper Feed Unit (Optional)**

The PM count for the following items is based on the sheets of copy paper fed:

Item	PM/Yield Parts	120k	EM	Remarks
Paper feed roller	Y	R	C	Wipe with a damp cloth.
Friction pad	Y	R	C	Wipe with a damp cloth.
Transport roller			С	Wipe with a damp cloth.
Tray lift pad			С	Wipe with a damp cloth.
Transport sensor			С	Wipe with a damp cloth.

#### 1-Bin Tray Unit (Optional)

Item	PM/Yield	EM	Remarks
	Parts		
Paper exit roller		C	Wipe with a damp cloth, and then wipe the dry
			cloth.
Paper exit tray		С	Wipe with a damp cloth, and then wipe the dry
			cloth.
1-bin tray exit sensor		С	Clean with a blower brush or wipe with a dry
			cloth.
1-bin tray paper remaining		С	Clean with a blower brush or wipe with a dry
sensor			cloth.

#### Preventive Maintenance Items For MP C407

Chart: A4 (LT)/5% Mode: 2 prints/job Color Ratio: 30%

Environment: Normal temperature and humidity

Yield may change depending on circumstances and print conditions.

Symbol keys: C: Clean, R: Replace, L: Lubricant, I: Inspect



#### **Yield Parts:**

The parts mentioned in these tables have a target yield. However, the total copy/print volume made by the machine will not reach the target yield within the machine's targeted lifetime if the machine is used under the target usage conditions (ACV, color ratio, and P/J). So, these parts are categorized not as PM parts but as yield parts (EM parts). In this table, the parts with "Y" are yield parts and the parts with "P" are PM parts.

#### **ADF**

The PM count for the following items is based on the number of originals fed:

Item	PM/Yield Parts	30k	45k	EM	Remarks
Friction pad	Y*	R		C	Wipe with a dry cloth.
ADF pick-up roller	Y*		R	C	Wipe with a damp cloth.
ADF feed roller	Y*		R	С	Wipe with a damp cloth.
ADF entrance roller				С	Wipe with a damp cloth.
Pre-scanning roller (front side/ rear side)				C	Wipe with a damp cloth.
ADF exit roller				С	Wipe with a damp cloth.

<sup>\*</sup> The actual lifetime of these parts depends on the type of paper used and machine operation. Therefore, these parts are treated as Yield Parts.

## **Scanner Unit**

Item	PM/Yield Parts	EM	Remarks
Exposure glass		С	Clean with a cleaning cloth.
ADF exposure glass		С	Clean with a cleaning cloth.

## **PCDU**

The PM count for the following items is based on the sheets of copy paper fed:

Item	PM/Yield	36k	60k	EM	Remarks
	Parts				
PCDU	P		R		The PCDU (K) for C307 is different from C407. Make sure of
(K)					the correct part number before ordering it.
PCDU	P	R			At color ratio 30%, the replacement interval is 120k.
(C)					
PCDU	P	R			At color ratio 30%, the replacement interval is 120k.
(M)					
PCDU	P	R			At color ratio 30%, the replacement interval is 120k.
(Y)					

## **Transfer Unit**

The PM count for the following items is based on the sheets of copy paper fed:

Item	PM/Yield Parts	120k	EM	Remarks
ITB (Image transfer belt) unit	P	R		
Paper transfer roller	P	R		

## **Fusing Unit**

The PM count for the following items is based on the sheets of copy paper fed:

Item	PM/Yield	60k	120k	EM	Remarks
	Parts				
Fusing sleeve belt	P	R			
assembly					
Fusing unit	P		R		The fusing units of C307 and C407 are the
					same.
Entrance guide plate		C			Wipe with a dry cloth.
Exit guide plate		С			Wipe with a dry cloth.
Separation plate		С			Wipe with a dry cloth.
Fusing thermopile		С			Wipe with a dry cloth.
Pressure roller		С			Wipe with a dry cloth.

## **Paper Transport**

The PM count for the following items is based on the sheets of copy paper fed:

Item	PM/Yield	60k	120k	EM	Remarks
	Parts				
Registration roller				С	Clean with a blower brush.
Registration sensor				С	Clean with a blower brush or wipe with a
					dry cloth.
Paper dust case				С	Clean with a blower brush.
Paper feed roller	P		R	С	Wipe with a damp cloth.
Paper feed exit sensor				С	Clean with a blower brush or wipe with a
					dry cloth.
Bypass feed roller	P		R	С	Wipe with a damp cloth.
Friction pad	P		R	С	Wipe with a dry cloth.
Duplex entrance sensor				С	Clean with a blower brush or wipe with a
					dry cloth.
Duplex exit sensor				С	Clean with a blower brush or wipe with a
					dry cloth.
Duplex paper transport				С	Wipe with a damp cloth.
rollers					
Duplex entrance guide		С			Wipe with a cloth dampened with ethyl
plate					alcohol.
Paper exit/reverse roller		С			Wipe with a damp cloth.
Paper exit sensor		С			Clean with a blower brush or wipe with a
					dry cloth.

## **Others**

The PM count for the following items is based on the sheets of copy paper fed:

Item	PM/Yield Parts	90k	EM	Remarks
Waste toner bottle	P	R		Replace if the waste toner bottle is detected to be full.
Ozone filter			С	

## **Paper Feed Unit (Optional)**

The PM count for the following items is based on the sheets of copy paper fed:

	C		J 1 1	
Item	PM/Yield Parts	120k	EM	Remarks
Paper feed roller	Y	R	С	Wipe with a damp cloth.
Friction pad	Y	R	С	Wipe with a damp cloth.
Transport roller			С	Wipe with a damp cloth.

## 2. Preventive Maintenance Tables

Item	PM/Yield Parts	120k	EM	Remarks
Tray Lift Pad			С	Wipe with a damp cloth.
Transport Sensor			С	Wipe with a damp cloth.

## 1-Bin Tray Unit (Optional)

Item	PM/Yield	EM	Remarks
	Parts		
Paper exit roller		С	Wipe with a damp cloth, and then wipe the dry
			cloth.
Paper exit tray		С	Wipe with a damp cloth, and then wipe the dry
			cloth.
1-bin tray exit sensor		С	Clean with a blower brush or wipe with a dry
			cloth.
1-bin tray paper remaining		С	Clean with a blower brush or wipe with a dry
sensor			cloth.

## 3. SP Mode Tables

## **Service Program Mode**

#### **CAUTION**

• Make sure that the data-in LED (❖) is not on before you go into the SP mode. This LED indicates that some data is coming to the machine. When the LED is on, wait for the copier to process the data.

## Enabling and Disabling Service Program Mode

## **ACAUTION**

Make sure that the data-in LED (�) is not on before you go into the SP mode. This LED indicates that some data is coming to the machine. When the LED is on, wait for the copier to process the data.



• The Service Program Mode is for use by service representatives only. If this mode is used by anyone other than service representatives for any reason, data might be deleted or settings might be changed. In such case, product quality cannot be guaranteed any more.

#### Entering SP Mode

If there are no Classic Application (copy/printer/scanner/fax) icons on the HOME screen, follow the procedure below to display the number keyboard.

1. Press and hold the button [A] located at the left side of the operation panel and "Check Status [B]" at the same time, until the number keyboard is displayed.





d238m0747

## **2.** Enter the key code for SP mode.



For details of the key code to enter the SP mode, ask your supervisor.

## Exiting SP Mode

• Press "Exit" on the LCD twice to return to the copy window.

## Types of SP Modes

- System SP: SP modes related to the engine functions
- Printer SP: SP modes related to the controller functions
- Scanner SP: SP modes related to the scanner functions
- Fax SP: SP modes related to the fax functions

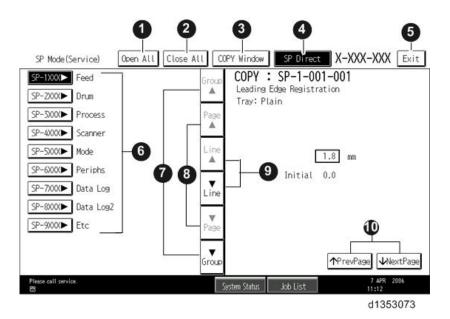
Select one of the Service Program modes (System, Printer, Scanner, or Fax) from the touch panel as shown in the diagram below after you access the SP mode. This section explains the functions of the System/Printer/Scanner SP modes. Refer to the Fax service manual for the Fax SP modes.



d197z3001

## SP Mode Button Summary

Here is a short summary of the touch-panel buttons.



1	Opens all SP groups and sublevels.
2	Closes all open groups and sublevels and restores the initial SP mode display.
3	Opens the copy window (copy mode) so you can make test copies. Press SP Mode (highlighted) in the
	copy window to return to the SP mode screen,
4	Enter the SP code directly with the number keys if you know the SP number. Then press . (The required
	SP Mode number will be highlighted when pressing . If not, just press the required SP Mode number.)
5	Press two times to leave the SP mode and return to the copy window to resume normal operation.
6	Press any Class 1 number to open a list of Class 2 SP modes.
7	Press to scroll the show to the previous or next group.
8	Press to scroll to the previous or next display in segments the size of the screen display (page).
9	Press to scroll the show the previous or next line (line by line).
10	Press to move the highlight on the left to the previous or next selection in the list.

## Switching Between SP Mode and Copy Mode for Test Printing

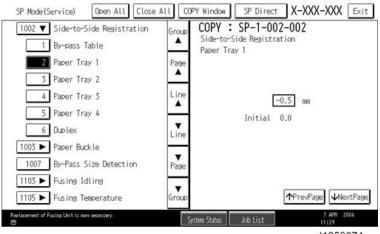
- 1. In the SP mode, select the test print. Then press "Copy Window".
- 2. Use the copy window (copier mode), to select the appropriate settings (paper size, etc.) for the test print.
- <u>3.</u> Press [Start] key to start the test print.
- 4. Press SP Mode (highlighted) to return to the SP mode screen and repeat from step 1.

#### Selecting the Program Number

Program numbers have two or three levels.

- **1.** Refer to the Service Tables to find the SP that you want to adjust before you begin.
- 2. Press the Group number on the left side SP Mode window that contains the SP that you want to adjust.
- <u>3.</u> Use the scrolling buttons in the center of the SP mode window to show the SP number that you want to open. Then press that number to expand the list.

**4.** Use the center touch-panel buttons to scroll to the number and title of the item that you want to set and press it. The small entry box on the right activates and shows the below default or the current settings.



d1353074



- Refer to the Service Tables for the range of allowed settings.
- **5.** Do this procedure to enter a setting:
  - Press to toggle between plus and minus and use the keypad to enter the appropriate number. The number you enter writes over the previous setting.
  - Press [#] to enter the setting. (The value is not registered if you enter a number that is out of range.)
  - Press "Yes" when you are prompted to complete the selection.
- **6.** If you need to perform a test print, press Copy Window to open the copy window and select the settings for the test print. Press [Start] key and then press SP Mode (highlighted) in the copy window to return to the SP mode display.
- 7. Press Exit two times to return to the copy window when you are finished.

#### Service Mode Lock/Unlock

At locations where the machine contains sensitive data, the customer engineer cannot operate the machine until the Administrator turns the service mode lock off. This function makes sure that work on the machine is always done with the permission of the Administrator.

- 1. If you cannot go into the SP mode, ask the Administrator to log in with the User Tool and then set "Service Mode Lock" to OFF after he or she logs in: User Tools → System Settings → Administrator Tools → Service Mode Lock → OFF
  - This unlocks the machine and lets you get access to all the SP codes.
  - The CE can service the machine and turn the machine off and on. It is not necessary to ask the Administrator to log in again each time the machine is turned on.
- 2. Go into the SP mode and set SP5169 to "1" if you must use the printer bit switches.
- **3.** After machine servicing is completed:
  - Change SP5169 from "1" to "0".

- Turn the machine off and on. Tell the administrator that you have completed servicing the machine.
- The Administrator will then set the "Service Mode Lock" to ON.

#### Remarks

#### Display on the Control Panel Screen

The maximum number of characters which can show on the control panel screen is limited to 30 characters. For this reason, some of the SP modes shown on the screen need to be abbreviated. The following are abbreviations used for the SP modes for which the full description is over 20 characters.

Item	Description
Paper Weight	Plain Paper1: 60-74 g/m <sup>2</sup> , 16-20lb.
	Plain Paper2: 75-81 g/m <sup>2</sup> , 20lb.
	Middle Thick: 82-105 g/m <sup>2</sup> , 20-28lb.
	Thick Paper1: 106-169 g/m <sup>2</sup> , 28lb. Bond-90lb.
	Thick Paper2: 170-220 g/m <sup>2</sup> , 65-80lb.
	Thick Paper3: 221-256 g/m <sup>2</sup> , 80lb. Cover-140lb.
Paper Type	N: Normal paper
	MTH: Middle thick paper
	TH: Thick paper
Paper Feed Station	P: Paper tray
	B: Bypass table
Color Mode	[K]: Black in B&W mode
[Color]	[Y], [M], or [C]: Yellow, Magenta, or Cyan in Full Color mode
	[YMC]: Only for Yellow, Magenta, and Cyan
	[FC]: Full Color mode
	[FC, K], [FC, Y], [FC, M], or [FC, C]: Black, Yellow, Magenta, or Cyan in full color
	mode
Print Mode	S: Simplex
	D: Duplex
Process Speed	L: Low speed (89 mm/s)
	M: Middle speed (178 mm/s)

#### Others

The following symbols are used in the SP mode tables.

#### FA: Factory setting

(Data may be adjusted from the default setting at the factory. Refer to the factory setting sheets enclosed. You can find it under the jammed paper removal decal.)

**DFU**: Design/Factory Use only

Do not touch these SP modes in the field.

A sharp (#) to the right hand side of the mode number column means that the main switch must be turned off and on to effect the setting change.

An asterisk (\*) to the right hand side of the mode number column means that this mode is stored in the NVRAM and EEPROM. If you do a RAM clear, this SP mode will be reset to the default value. "ENG" and "CTL" show which NVRAM contains the data.

- ENG: EEPROM on the BICU board
- CTL: NVRAM on the controller board

The settings of each SP mode are explained in the right-hand column of the SP table in the following way.

[Adjustable range / **Default setting** / Step] Alphanumeric



• If "Alphanumeric" is written to the right of the bracket as shown above, the setting of the SP mode shows on the screen using alphanumeric characters instead of only numbers. However, the settings in the bracket in the SP mode table are explained by using only the numbers.

**SSP**: This denotes a "Special Service Program" mode setting.

# **SP Tables - SP1-XXX**

## SP1-XXX (Feed)

SP No. Large Category		Small Category	ENG or	[Min to
			CTL	Max/Init./Step]
1-001-	Leading Edge	Tray: Plain	ENG	[-9 to 9 / 0 / 0.1mm]
001	Registration			
1-001-	Leading Edge	Tray: Middle Thick	ENG	[-9 to 9 / 0 / 0.1mm]
002	Registration			
1-001-	Leading Edge	Tray: Thick	ENG	[-9 to 9 / 0 / 0.1mm]
003	Registration			
1-001-	Leading Edge	Tray: Plain: 1200	ENG	[-9 to 9 / 0 / 0.1mm]
005	Registration			
1-001-	Leading Edge	Tray: Middle Thick: 1200	ENG	[-9 to 9 / 0 / 0.1mm]
006	Registration			
1-001-	Leading Edge	By-pass: Plain	ENG	[-9 to 9 / 0 / 0.1mm]
007	Registration			
1-001-	Leading Edge	By-pass: Middle Thick	ENG	[-9 to 9 / 0 / 0.1mm]
800	Registration			
1-001-	Leading Edge	By-pass: Thick	ENG	[-9 to 9 / 0 / 0.1mm]
009	Registration			
1-001-	Leading Edge	By-pass: Plain: 1200	ENG	[-9 to 9 / 0 / 0.1mm]
012	Registration			
1-001-	Leading Edge	By-pass: Middle Thick: 1200	ENG	[-9 to 9 / 0 / 0.1mm]
013	Registration			
1-001-	Leading Edge	Duplex: Plain	ENG	[-9 to 9 / 0 / 0.1mm]
014	Registration			
1-001-	Leading Edge	Duplex: Middle Thick	ENG	[-9 to 9 / 0 / 0.1mm]
015	Registration			
1-001-	Leading Edge	Duplex: Thick	ENG	[-9 to 9 / 0 / 0.1mm]
016	Registration			
1-001-	Leading Edge	Tray: Special 1	ENG	[ -9 to 9 / 1.1 /
017	Registration			0.1mm ]
1-001-	Leading Edge	By-pass: Special 1	ENG	[ -9 to 9 / 1.1 /
018	Registration			0.1mm ]
1-001-	Leading Edge	Duplex: Plain: 1200	ENG	[ -9 to 9 / 0 / 0.1mm ]
019	Registration			
1-001-	Leading Edge	Duplex: Middle Thick: 1200	ENG	[-9 to 9 / 0 / 0.1mm]

020	Registration			
1-001-	Leading Edge	Duplex: Special 1	ENG	[ -9 to 9 / 1.1 /
021	Registration			0.1mm ]
1-001-	Leading Edge	Tray: Special 1: 1200	ENG	[ -9 to 9 / 1.1 /
022	Registration			0.1mm ]
1-001-	Leading Edge	By-pass: Special 1: 1200	ENG	[ -9 to 9 / 1.1 /
023	Registration			0.1mm ]
1-001-	Leading Edge	Duplex: Special 1: 1200	ENG	[ -9 to 9 / 1.1 /
024	Registration			0.1mm ]
1-001-	Leading Edge	Offset: Transfer Separation	ENG*	[-4 to 4 / 0 / 0.1mm]
026	Registration			
1-001-	Leading Edge	Auto correct: On/Off	ENG*	[ 0 or 1 / 0 / 1 ]
030	Registration			
1-001-	Leading Edge	Std. Measure: On/Off	ENG*	[ 0 or 1 / 0 / 1 ]
031	Registration			
1-001-	Leading Edge	Offset	ENG*	[-5 to 5 / 0 / 0.1mm]
032	Registration			
1-001-	Leading Edge	Offset Standard: 1	ENG*	[ 0 to 999 / 0 / 0.1mm ]
033	Registration			
1-001-	Leading Edge	Offset Standard: 2	ENG*	[ 0 to 999 / 0 / 0.1mm ]
034	Registration			
1-001-	Leading Edge	Offset Standard: 3	ENG*	[ 0 to 999 / 0 / 0.1mm ]
035	Registration			
1-001-	Leading Edge	Offset Standard: 4	ENG*	[ 0 to 999 / 0 / 0.1mm ]
036	Registration			
1-001-	Leading Edge	Offset Standard: 5	ENG*	[ 0 to 999 / 0 / 0.1mm ]
037	Registration			
1-001-	Leading Edge	Offset Standard: 6	ENG*	[ 0 to 999 / 0 / 0.1mm ]
038	Registration			
1-001-	Leading Edge	Offset Standard: 7	ENG*	[ 0 to 999 / 0 / 0.1mm ]
039	Registration			
1-001-	Leading Edge	Offset Standard: 8	ENG*	[ 0 to 999 / 0 / 0.1mm ]
040	Registration			
1-001-	Leading Edge	Tray: Plain: Std Speed 2	ENG	[ -9 to 9 / 0 / 0.1mm ]
041	Registration			
1-001-	Leading Edge	By-pass: Plain: Std Speed 2	ENG	[ -9 to 9 / 0 / 0.1mm ]
043	Registration			
1-001-	Leading Edge	Duplex: Plain: Std Speed 2	ENG	[ -9 to 9 / 0 / 0.1mm ]

045	Registration			
1-001-	Leading Edge	Tray: Special1: Std Speed 2	ENG	[ -9 to 9 / 1.1 /
047	Registration			0.1mm ]
1-001-	Leading Edge	By-pass: Special1: Std Speed 2	ENG	[ -9 to 9 / 1.1 /
048	Registration			0.1mm ]
1-001-	Leading Edge	Duplex: Special1: Std Speed 2	ENG	[ -9 to 9 / 1.1 /
049	Registration			0.1mm ]
1-002-	Side-to-Side	By-pass Table	ENG	[-4 to 4 / 0 / 0.1mm]
001	Registration			
1-002-	Side-to-Side	Tray 1	ENG	[-4 to 4 / 0 / 0.1mm]
002	Registration			
1-002-	Side-to-Side	Tray 2	ENG	[-4 to 4 / 0 / 0.1mm]
003	Registration			
1-002-	Side-to-Side	Tray 3	ENG	[-4 to 4 / 0 / 0.1mm]
004	Registration			
1-002-	Side-to-Side	Duplex	ENG	[ -4 to 4 / 0 / 0.1mm ]
005	Registration			
1-003-	Paper Buckle	Tray1: Plain	ENG	[-5 to 5/2/1mm]
001				
1-003-	Paper Buckle	Tray1: Middle Thick	ENG	[ -5 to 5 / 0 / 1mm ]
002				
1-003-	Paper Buckle	Tray1: Thick	ENG	[ -5 to 5 / 0 / 1mm ]
003				
1-003-	Paper Buckle	Tray2/3: Plain	ENG	[-5 to 5/0/1mm]
004				
1-003-	Paper Buckle	Tray2/3: Middle Thick	ENG	[-5 to 5/0/1mm]
005				
1-003-	Paper Buckle	Tray2/3: Thick	ENG	[-5 to 5/0/1mm]
006				
1-003-	Paper Buckle	By-pass: Plain	ENG	[-5 to 5/0/1mm]
007				
1-003-	Paper Buckle	By-pass: Middle Thick	ENG	[ -5 to 5 / 0 / 1mm ]
008				
1-003-	Paper Buckle	By-pass: Thick	ENG	[-5 to 5/0/1mm]
009				
1-003-	Paper Buckle	Duplex: Plain	ENG	[ -5 to 5 / 0 / 1mm ]
010				
1-003-	Paper Buckle	Duplex: Middle Thick	ENG	[ -5 to 5 / 0 / 1mm ]

005	Temperature			[ 100 to 180 / 154 /
	•			ldeg]
				MP C407:
				[ 100 to 200 / 180 /
				ldeg ]
1-105-	Print Target	Plain2:BW:Center	ENG*	[ 100 to 180 / * /
007	Temperature			ldeg ]
	-			*MP C307:144
				*MP C407:162
1-105-	Print Target	Thin:FC:Center	ENG*	[ 100 to 180 / * /
009	Temperature			ldeg]
				*MP C307:153
				*MP C407:163
1-105-	Print Target	Thin:BW:Center	ENG*	[ 100 to 180 / * /
011	Temperature			ldeg ]
				*MP C307:143
				*MP C407:147
1-105-	Print Target	Middle Thick:FC:Center	ENG*	[ 100 to 180 / 168 /
013	Temperature			ldeg ]
1-105-	Print Target	Middle Thick:BW:Center	ENG*	[ 100 to 180 / 158 /
015	Temperature			ldeg ]
1-105-	Print Target	Thick1:FC:Center	ENG*	[ 100 to 180 / 143 /
017	Temperature			1deg ]
1-105-	Print Target	Thick1:BW:Center	ENG*	[ 100 to 180 / 143 /
019	Temperature			1deg ]
1-105-	Print Target	Thick2:FC:Center	ENG*	[ 100 to 180 / 145 /
021	Temperature			1deg ]
1-105-	Print Target	Thick2:BW:Center	ENG*	[ 100 to 180 / 145 /
023	Temperature			ldeg ]
1-105-	Print Target	Thick3:FC:Center	ENG*	[ 100 to 180 / 148 /
025	Temperature			1deg ]
1-105-	Print Target	Thick3:BW:Center	ENG*	[ 100 to 180 / 148 /
027	Temperature			1deg ]
1-105-	Print Target	Special1:FC:Center	ENG*	MP C307:
029	Temperature			[ 100 to 180 / 143 /
				1deg ]
				MP C407:
				[ 100 to 200 / 168 /
				ldeg ]

1-105-	Print Target	Special1:BW:Center	ENG*	[ 100 to 180 / * /
031	Temperature	•		ldeg]
				*MP C307:139
				*MP C407:1357
1-105-	Print Target	Special2:FC:Center	ENG*	MP C307:
033	Temperature			[ 100 to 180 / 154 /
				ldeg]
				MP C407:
				[ 100 to 200 / 180 /
				ldeg ]
1-105-	Print Target	Special2:BW:Center	ENG*	[ 100 to 180 / * /
035	Temperature			ldeg ]
				*MP C307:144
				*MP C407:162
1-105-	Print Target	Special3:FC:Center	ENG*	[ 100 to 180 / 168 /
037	Temperature			1deg ]
1-105-	Print Target	Special3:BW:Center	ENG*	[ 100 to 180 / 158 /
039	Temperature			1deg ]
1-105-	Print Target	Envelop: Center	ENG*	[ 100 to 180 / 146 /
041	Temperature			1deg ]
1-105-	Print Target	OHP: Center	ENG*	[ 100 to 180 / 160 /
043	Temperature			1deg ]
1-105-	Print Target	Plain1:FC:Center:Low Speed	ENG*	[ 100 to 180 / 127 /
101	Temperature			ldeg ]
1-105-	Print Target	Plain1:BW:Center:Low Speed	ENG*	[ 100 to 180 / 127 /
103	Temperature			1deg ]
1-105-	Print Target	Plain2:FC:Center:Low Speed	ENG*	[ 100 to 180 / 129 /
105	Temperature			1deg ]
1-105-	Print Target	Plain2:BW:Center:Low Speed	ENG*	[ 100 to 180 / 129 /
107	Temperature			1deg ]
1-105-	Print Target	Thin:FC:Center:Low Speed	ENG*	[ 100 to 180 / 123 /
109	Temperature			1deg ]
1-105-	Print Target	Thin:BW:Center:Low Speed	ENG*	[ 100 to 180 / 123 /
111	Temperature			1deg ]
1-105-	Print Target	Middle Thick:FC:Center:Low Speed	ENG*	[ 100 to 180 / 141 /
113	Temperature			1deg ]
1-105-	Print Target	Middle Thick:BW:Center:Low	ENG*	[ 100 to 180 / 141 /
115	Temperature	Speed		1deg ]

	T		1	1
1-105-	Print Target	Special 1:FC:Center:Low Speed	ENG*	[ 100 to 180 / 127 /
117	Temperature			ldeg ]
1-105-	Print Target	Special 1:BW:Center:Low Speed	ENG*	[ 100 to 180 / 127 /
119	Temperature			ldeg]
1-105-	Print Target	Special 2:FC:Center:Low Speed	ENG*	[ 100 to 180 / 129 /
121	Temperature			ldeg]
1-105-	Print Target	Special 2:BW:Center:Low Speed	ENG*	[ 100 to 180 / 129 /
123	Temperature			ldeg]
1-105-	Print Target	Special 3:FC:Center:Low Speed	ENG*	[ 100 to 180 / 141 /
125	Temperature			1deg ]
1-105-	Print Target	Special 3:BW:Center:Low Speed	ENG*	[ 100 to 180 / 141 /
127	Temperature			ldeg ]
1-105-	Print Target	Envelope:Thick1:FC:Center	ENG*	[ 100 to 180 / 146 /
129	Temperature			ldeg]
1-105-	Print Target	Envelope:Thick2:FC:Center	ENG*	[ 100 to 180 / 146 /
133	Temperature			ldeg ]
1-105-	Print Target	Envelope:Thick3:FC:Center	ENG*	[ 100 to 180 / 146 /
137	Temperature			ldeg ]
1-105-	Print Target	Postcard:Thick1:FC:Center	ENG*	[ 100 to 180 / 131 /
141	Temperature			ldeg ]
1-105-	Print Target	Postcard:Thick2:FC:Center	ENG*	[ 100 to 180 / 131 /
145	Temperature			ldeg ]
1-105-	Print Target	Postcard:Thick3:FC:Center	ENG*	[ 100 to 180 / 131 /
149	Temperature			ldeg ]
1-105-	Print Target	Special 4:FC:Center	ENG*	[ 100 to 180 / 143 /
151	Temperature			ldeg ]
1-105-	Print Target	Special 4:BW:Center	ENG*	[ 100 to 180 / 143 /
153	Temperature			1deg ]
1-105-	Print Target	Special 5:FC:Center	ENG*	[ 100 to 180 / 145 /
155	Temperature			ldeg ]
1-105-	Print Target	Special 5:BW:Center	ENG*	[ 100 to 180 / 145 /
157	Temperature			ldeg ]
1-105-	Print Target	Special 6:FC:Center	ENG*	[ 100 to 180 / 148 /
159	Temperature			1deg ]
1-105-	Print Target	Special 6:BW:Center	ENG*	[ 100 to 180 / 148 /
161	Temperature			ldeg ]
1-106-	Fusing Temperature	Center	ENG	[-50 to 250 / 0 / 1deg]
001	Display			

	T	Γ	T	T
1-106-	Fusing Temperature	End	ENG	[ -20 to 348 / 0 / 1deg ]
002	Display			
1-106-	Fusing Temperature	Pressure: Center	ENG	[ -20 to 250 / 0 / 1deg ]
003	Display			
1-106-	Fusing Temperature	Pressure: End Rear	ENG	[ -20 to 250 / 0 / 1deg ]
005	Display			
1-106-	Fusing Temperature	Pressure: End Front	ENG	[ -20 to 250 / 0 / 1deg ]
006	Display			
1-109-	Rotation Speed Setting	Overshoot Prevent Rotation	ENG*	[ 0 to 3 / 0 / 1 ]
001				0: 89mm/s (C307,
				C407)
				1: 178mm/s (C307,
				C407)
				2: 212mm/s (C407)
				3: 252mm/s (C407)
1-109-	Rotation Speed Setting	After Reload Rotation	ENG*	[ 0 to 3 / 0 / 1 ]
002				0: 89mm/s (C307,
				C407)
				1: 178mm/s (C307,
				C407)
				2: 212mm/s (C407)
				3: 252mm/s (C407)
1-109-	Rotation Speed Setting	Print Ready Rotation	ENG*	[ 0 to 3 / 0 / 1 ]
003	Troution speed setting	Time reduction	Live	0: 89mm/s (C307,
005				C407)
				1: 178mm/s (C307,
				C407)
				2: 212mm/s (C407)
				3: 252mm/s (C407)
1-112-	Image Processing	Temp.:Plain:Center:Energy Saving	ENG*	[ -30 to 20 / * / 1deg ]
002	Temp. Correct	Temp ram.center.Energy Saving	EWO.	*MP C307:13
002	Temp. Correct			*MP C407:17
1 112	Imaga Draggaina	Town : Dlain: Drogg: Engage: Coving	ENC*	
1-112-	Image Processing	Temp.:Plain:Press:Energy Saving	ENG*	[-30 to 20 / 0 / 1deg]
004	Temp. Correct	F 4. P	EMC*	FO 1 / O / 1 3
1-113-	Curl Correction	Execute Pattern	ENG*	[ 0 or 1 / 0 / 1 ]
001				0: OFF
				1: ON
1-131-	Continuous Print Mode	Feed Permit Condition Setting	ENG*	[ 0 to 2 / 1 / 1 ]
001	Switch			0: Productivity Mode

				1: Fusing Quality
				Mode 1
				2: Fusing Quality
				Mode 2
1-132-	Voltage Detection	Voltage Detection	ENG*	[ 0 to 650 / 0 / 0.1V ]
012				
1-132-	Voltage Detection	Max	ENG*	[ 0 to 350 / 0 / 0.1V ]
014				
1-132-	Voltage Detection	Min	ENG*	[ 0 to 350 / 0 / 0.1V ]
015				
1-132-	Voltage Detection	Latest	ENG*	[ 0 to 350 / 0 / 0.1V ]
016				
1-132-	Voltage Detection	SC Detection	ENG*	[ 0 to 350 / 0 / 0.1V ]
017				
1-132-	Voltage Detection	Max(standby)	ENG*	[ 0 to 350 / 0 / 0.1V ]
018				
1-132-	Voltage Detection	Min(standby)	ENG*	[ 0 to 350 / 0 / 0.1V ]
019				
1-135-	Inrush Control	Inrush Control	ENG*	[ 0 or 1 / 0 / 1 ]
001				
1-136-	Engy Svg Paper Feed	Control ON/OFF	ENG*	[ 0 or 1 / 1 / 1 ]
001	Judg.			0: OFF
				1: ON
1-141-	Fusing SC Issue Time	SC Number	ENG*	[ 0 to 99999 / 0 / 1 ]
001	Info			
1-141-	Fusing SC Issue Time	Heating Roller Temperature	ENG*	[-50 to 260 / 0 / 1deg]
101	Info	1:Center		
1-141-	Fusing SC Issue Time	Heating Roller Temperature 1:End	ENG*	[-50 to 260 / 0 / 1deg]
104	Info			
1-141-	Fusing SC Issue Time	Press Roller Temperature 1	ENG*	[-50 to 260 / 0 / 1deg]
107	Info			
1-141-	Fusing SC Issue Time	Press Roller: End R Temperature 1	ENG*	[-50 to 260 / 0 / 1deg]
108	Info			
1-141-	Fusing SC Issue Time	Press Roller: End F Temperature 1	ENG*	[ -50 to 260 / 0 / 1deg ]
109	Info			
1-141-	Fusing SC Issue Time	Heating Roller Temperature	ENG*	[ -50 to 260 / 0 / 1deg ]
151	Info	2:Center		
1-141-	Fusing SC Issue Time	Heating Roller Temperature 2:End	ENG*	[ -50 to 260 / 0 / 1deg ]

154	Info			
1-141-	Fusing SC Issue Time	Press Roller Temperature 2	ENG*	[-50 to 260 / 0 / 1deg]
157	Info	•		
1-141-	Fusing SC Issue Time	Press Roller.End R Temperature 2	ENG*	[-50 to 260 / 0 / 1deg]
158	Info			
1-141-	Fusing SC Issue Time	Press Roller.End F Temperature 2	ENG*	[-50 to 260 / 0 / 1deg]
159	Info			
1-141-	Fusing SC Issue Time	Heating Roller Temperature	ENG*	[ -50 to 260 / 0 / 1deg ]
201	Info	3:Center		
1-141-	Fusing SC Issue Time	Heating Roller Temperature 3:End	ENG*	[ -50 to 260 / 0 / 1deg ]
204	Info			
1-141-	Fusing SC Issue Time	Press Roller Temperature 3	ENG*	[ -50 to 260 / 0 / 1deg ]
207	Info			
1-141-	Fusing SC Issue Time	Press Roller.End R Temperature 3	ENG*	[ -50 to 260 / 0 / 1deg ]
208	Info			
1-141-	Fusing SC Issue Time	Press Roller.End F Temperature 3	ENG*	[-50 to 260 / 0 / 1deg]
209	Info			
1-142-	Fusing Jam Detection	SC Display	ENG*	[ 0 or 1 / 0 / 1 ]
001				0: OFF
				1: ON
1-152-	Fusing Nip Band	Execute	ENG	[ 0 or 1 / 0 / 1 ]
001	Check			
1-158-	Abnormal Noise	Unit: Execute	ENG	[ 0 or 1 / 0 / 1 ]
001	Confirmation			
1-158-	Abnormal Noise	No Unit: Execute	ENG	[ 0 or 1 / 0 / 1 ]
002	Confirmation			
1-158-	Abnormal Noise	Operation Time	ENG*	[ 0 to 200 / 20 / 1sec ]
003	Confirmation			
1-158-	Abnormal Noise	Operation Line Speed	ENG*	[ 0 to 3 / 0 / 1 ]
004	Confirmation			0: 89mm/s (C307,
				C407)
				1: 178mm/s (C307,
				C407)
				2: 212mm/s (C407)
1 150	A1 137	Hart Contact To the	ENIO*	3: 252mm/s (C407)
1-158-	Abnormal Noise	Heat Center Target Temp	ENG*	[ 100 to 180 / * /
005	Confirmation			1deg ]
				*MP C307:154

				*MP C407:180
1-158-	Abnormal Noise	Press Target Temp	ENG*	[ 0 to 200 / 150 /
007	Confirmation			1deg ]
1-190-	Flicker Control	Flicker Control	ENG*	[ 0 or 1 / 0 / 1 ]
001				
1-201-	1Bin Duty Control	Control Operating Time	ENG	[ 5 to 35 / 35 / 15min ]
001				
1-801-	Motor Speed	Transport M: Plain1/2	ENG*	[ -4 to 4 / 0.43 /
001	Adjustment			0.01% ]
1-801-	Motor Speed	Transport M: Thin	ENG*	[ -4 to 4 / 0.43 /
002	Adjustment			0.01% ]
1-801-	Motor Speed	Transport M: M-Thick:Std Spd1	ENG*	[-4 to 4 / 0.43 /
003	Adjustment			0.01% ]
1-801-	Motor Speed	Transport M: Thick1	ENG*	[ -4 to 4 / 0.43 /
004	Adjustment			0.01% ]
1-801-	Motor Speed	Transport M: Thick2	ENG*	[ -4 to 4 / 0.43 /
005	Adjustment			0.01% ]
1-801-	Motor Speed	Transport M: Thick3	ENG*	[ -4 to 4 / 0.43 /
006	Adjustment			0.01% ]
1-801-	Motor Speed	Transport M: Special1	ENG*	[ -4 to 4 / 0.43 /
007	Adjustment			0.01% ]
1-801-	Motor Speed	Transport M: Special2	ENG*	[ -4 to 4 / 0.43 /
008	Adjustment			0.01% ]
1-801-	Motor Speed	Transport M: Special3	ENG*	[ -4 to 4 / 0.43 /
009	Adjustment			0.01% ]
1-801-	Motor Speed	Transport M: Envelope	ENG*	[ -4 to 4 / 0 / 0.01% ]
010	Adjustment			
1-801-	Motor Speed	Transport M: OHP	ENG*	[ -4 to 4 / 0.43 /
011	Adjustment			0.01% ]
1-801-	Motor Speed	Transport M: Plain1/2:Low Speed	ENG*	[ -4 to 4 / 0.43 /
012	Adjustment			0.01% ]
1-801-	Motor Speed	Transport M: Thin:Low Speed	ENG*	[ -4 to 4 / 0.43 /
013	Adjustment			0.01% ]
1-801-	Motor Speed	Transport M: M-Thick:Low Speed	ENG*	[-4 to 4 / 0.43 /
014	Adjustment			0.01% ]
1-801-	Motor Speed	Transport M: Special1:Low Speed	ENG*	[ -4 to 4 / 0.43 /
015	Adjustment			0.01% ]
1-801-	Motor Speed	Transport M: Special2:Low Speed	ENG*	[ -4 to 4 / 0.43 /

016	Adjustment			0.01% ]
1-801-	Motor Speed	Transport M: Special3:Low Speed	ENG*	[ -4 to 4 / 0.43 /
017	Adjustment			0.01% ]
1-801-	Motor Speed	Transport M: Plain1/2: Gloss	ENG*	[ -4 to 4 / 0.43 /
018	Adjustment			0.01% ]
1-801-	Motor Speed	Transport M: M-Thick: Gloss:Std	ENG*	[ -4 to 4 / 0.43 /
019	Adjustment	Spd1		0.01% ]
1-801-	Motor Speed	Transport M: Postcard	ENG*	[ -4 to 4 / 0.43 /
020	Adjustment			0.01% ]
1-801-	Motor Speed	Bk Drum/Dev. Mot: Std Speed 1	ENG*	[ -4 to 4 / 0 / 0.01% ]
051	Adjustment			
1-801-	Motor Speed	Bk Drum/Dev. Mot: Low Speed	ENG*	[ -4 to 4 / 0 / 0.01% ]
052	Adjustment			
1-801-	Motor Speed	Col Drum/Dev. Mot: Std Speed 1	ENG*	MP C307:
053	Adjustment			[-6 to 6/0/1STEP]
				MP C407:
				[ -5 to 5 / 0 / 1STEP ]
1-801-	Motor Speed	Col Drum/Dev. Mot: Low Speed	ENG*	[-6 to 6/0/1STEP]
054	Adjustment			
1-801-	Motor Speed	Offset: Std Speed 1: Color	ENG*	MP C307:
055	Adjustment			[ -6 to 6 / 0 / 1STEP ]
				MP C407:
				[-5 to 5/0/1STEP]
1-801-	Motor Speed	Offset: Low Speed: Color	ENG*	[ -6 to 6 / 0 / 1STEP ]
056	Adjustment			
1-801-	Motor Speed	Transport M: Plain1/2: Std Spd 2	ENG*	[ -4 to 4 / 0.43 /
081	Adjustment			0.01% ]
1-801-	Motor Speed	Transport M: Thin:Std Spd2	ENG*	[ -4 to 4 / 0.43 /
082	Adjustment			0.01% ]
1-801-	Motor Speed	Transport M: Special1: Std Spd2	ENG*	[ -4 to 4 / 0.43 /
084	Adjustment			0.01% ]
1-801-	Motor Speed	Transport M: Special2: Std Spd2	ENG*	[ -4 to 4 / 0.43 /
085	Adjustment			0.01% ]
1-801-	Motor Speed	Transport M: Special3:Std Spd2	ENG*	[ -4 to 4 / 0.43 /
086	Adjustment			0.01% ]
1-801-	Motor Speed	Transport M: OHP:Std Spd2	ENG*	[ -4 to 4 / 0.43 /
087	Adjustment			0.01% ]
1-801-	Motor Speed	Transport M: Plain1/2:Gloss:Std	ENG*	[ -4 to 4 / 0.43 /

088	Adjustment	Spd 2		0.01% ]
1-801-	Motor Speed	Drum Motor Adjustment Control	ENG*	[ 0 or 1 / 1 / 1STEP ]
130	Adjustment			
1-801-	Motor Speed	Color Dev. Mot.:Std Speed1	ENG*	[ -20 to 20 / 0 / 0.1% ]
131	Adjustment			
1-801-	Motor Speed	Color Dev. Mot.:Low Speed	ENG*	[ -20 to 20 / 0 / 0.1% ]
132	Adjustment			
1-801-	Motor Speed	Bk Drum/Dev. Mot:Std Speed2	ENG*	[ -4 to 4 / 0 / 0.01% ]
133	Adjustment			
1-801-	Motor Speed	Bk Drum/Dev. Mot:Middle Speed	ENG*	[ -4 to 4 / 0 / 0.01% ]
134	Adjustment			
1-801-	Motor Speed	Col Drum/Dev. Mot:Middle Speed	ENG*	[-6 to 6/0/1STEP]
135	Adjustment			
1-801-	Motor Speed	Offset: Middle Speed: Color	ENG*	[-6 to 6/0/1STEP]
136	Adjustment			
1-801-	Motor Speed	Color Dev M: Middle Speed	ENG*	[ -20 to 20 / 0 / 0.1% ]
137	Adjustment			
1-801-	Motor Speed	Col Drum Mot: Std Spd 1: Indep.	ENG*	[ -4 to 4 / 0 / 0.01% ]
138	Adjustment			
1-801-	Motor Speed	Col Drum Mot: Mid Spd: Indep.	ENG*	[ -4 to 4 / 0 / 0.01% ]
139	Adjustment			
1-801-	Motor Speed	Col Drum Mot: Low Spd: Indep.	ENG*	[ -4 to 4 / 0 / 0.01% ]
140	Adjustment			
1-902-	Ladder Pattern Print	Execute	ENG	[ 0 or 1 / 0 / 1 ]
001				
1-907-	Paper Feed Timing	Tray1 Clutch ON: Plain	ENG	[-10 to 10 / 0 / 1mm]
001	Adj.			
1-907-	Paper Feed Timing	Tray1 Clutch ON: Middle Thick	ENG	[-10 to 10 / 0 / 1mm]
002	Adj.			
1-907-	Paper Feed Timing	Tray1 Clutch ON: Thick	ENG	[-10 to 10 / 0 / 1mm]
003	Adj.			
1-907-	Paper Feed Timing	Tray1 Clutch OFF: Plain	ENG	[-10 to 10 / 0 / 1mm]
007	Adj.			
1-907-	Paper Feed Timing	Tray1 Clutch OFF: Middle Thick	ENG	[-10 to 10/0/1mm]
008	Adj.			
1-907-	Paper Feed Timing	Tray1 Clutch OFF: Thick	ENG	[-10 to 10/0/1mm]
009	Adj.			
1-907-	Paper Feed Timing	Tray1 Paper Exit Sensor: Plain	ENG	[-10 to 10/0/1mm]

010	Adj.			
1-907-	Paper Feed Timing	Tray1 Paper Exit Sensor: Middle	ENG	[-10 to 10 / 0 / 1mm]
011	Adj.	Thick		
1-907-	Paper Feed Timing	Tray1 Paper Exit Sensor: Thick	ENG	[ -10 to 10 / 0 / 1mm ]
012	Adj.			
1-907-	Paper Feed Timing	By-pass Clutch ON: Plain	ENG	[-10 to 10 / 0 / 1mm]
013	Adj.			
1-907-	Paper Feed Timing	By-pass Clutch ON: Middle Thick	ENG	[-10 to 10 / 0 / 1mm]
014	Adj.			
1-907-	Paper Feed Timing	By-pass Clutch ON: Thick	ENG	[ -10 to 10 / 0 / 1mm ]
015	Adj.			
1-907-	Paper Feed Timing	By-pass Clutch ON: Envelope	ENG	[-10 to 10 / 0 / 1mm]
016	Adj.			
1-907-	Paper Feed Timing	By-pass Clutch OFF: Plain	ENG	[ -10 to 10 / -5 / 1mm ]
017	Adj.			
1-907-	Paper Feed Timing	By-pass Clutch OFF: Middle Thick	ENG	[-10 to 10 / -5 / 1mm]
018	Adj.			
1-907-	Paper Feed Timing	By-pass Clutch OFF: Thick	ENG	[ -10 to 10 / -5 / 1mm ]
019	Adj.			
1-907-	Paper Feed Timing	By-pass Clutch OFF: Envelope	ENG	[ -10 to 10 / -5 / 1mm ]
020	Adj.			
1-907-	Paper Feed Timing	Exit Junction Solenoid: OFF	ENG	[ -20 to 20 / 0 / 1mm ]
021	Adj.			
1-907-	Paper Feed Timing	Exit Junction Solenoid: ON	ENG	[ -20 to 20 / 0 / 1mm ]
022	Adj.			
1-907-	Paper Feed Timing	Exit Junction Solenoid: OFF:Low	ENG	[ -10 to 10 / 0 / 1mm ]
025	Adj.			
1-907-	Paper Feed Timing	Exit Junction Solenoid: ON:Low	ENG	[ -10 to 10 / 0 / 1mm ]
026	Adj.			
1-907-	Paper Feed Timing	Tray Lift Motor Pressure	ENG*	[ -2540 to 2540 / 0 /
029	Adj.			20msec ]
1-907-	Paper Feed Timing	Tray Lift Motor Up	ENG*	[ -2540 to 2540 / 0 /
032	Adj.			20msec ]
1-907-	Paper Feed Timing	Tray Lift Motor Down	ENG*	[ -2540 to 2540 / 0 /
033	Adj.			20msec ]
1-907-	Paper Feed Timing	Tray Lift Motor Paper End	ENG*	[ -2540 to 2540 / 0 /
034	Adj.			20msec ]
1-907-	Paper Feed Timing	Tray2: Paper Interval: Plain	ENG*	[ -10 to 10 / 0 / 1mm ]

035	۸ ۵:			
	Adj.	T	ENIC	F 104-10/0/1
1-907-	Paper Feed Timing	Tray2: Paper Interval: Mid. Thick	ENG*	[ -10 to 10 / 0 / 1mm ]
036	Adj.	T	ENIC+	F 104-10/0/1
1-907-	Paper Feed Timing	Tray2: Paper Interval: Thick	ENG*	[ -10 to 10 / 0 / 1mm ]
037	Adj.	T., 2 D., 1 1 1 1 1 1 1	ENIC+	F 10 / 10 / 0 / 1
1-907-	Paper Feed Timing	Tray3: Paper Interval: Plain	ENG*	[-10 to 10 / 0 / 1mm]
038	Adj.	T 2 D I A 1 M 1 T 1 1	EMC*	F 10 / 10 / 0 / 1
1-907-	Paper Feed Timing	Tray3: Paper Interval: Mid. Thick	ENG*	[-10 to 10 / 0 / 1mm]
039	Adj.	T 2 D 1 4 1 T 1	EMC*	F 10 / 10 / 0 / 1
1-907-	Paper Feed Timing	Tray3: Paper Interval: Thick	ENG*	[-10 to 10 / 0 / 1mm]
040	Adj.	T. 2.1.1. 1' E1 B B1'	ENIC+	FO 4 10 / 0 / 1 3
1-907-	Paper Feed Timing	Tray2: 1st Leading Edge Pos.: Plain	ENG*	[ 0 to 10 / 0 / 1mm ]
041	Adj.	Trov2. 1st Londing Edg. Down M. 1	ENC*	[ 0 to 10 / 0 / 1 ]
1-907-	Paper Feed Timing	Tray2: 1st Leading Edge Pos.: Mid.	ENG*	[ 0 to 10 / 0 / 1mm ]
1-907-	Adj.  Paper Feed Timing	Thick Tray2: 1st Leading Edge Pos : Thick	ENG*	[ 0 to 10 / 0 / 1mm ]
043	Adj.	Tray2: 1st Leading Edge Pos.: Thick	ENG.	[0.0010/0/11111111]
1-907-	Paper Feed Timing	Tray3: 1st Leading Edge Pos.: Plain	ENG*	[ 0 to 10 / 0 / 1mm ]
044	Adj.	11ay 5. 18t Leading Edge Pos., Plain	ENG.	
1-907-	Paper Feed Timing	Tray3: 1st Leading Edge Pos.: Mid.	ENG*	[ 0 to 10 / 0 / 1mm ]
045	Adj.	Thick	LING	[ 0 10 10 / 0 / 1111111 ]
1-907-	Paper Feed Timing	Tray3: 1st Leading Edge Pos.: Thick	ENG*	[ 0 to 10 / 0 / 1mm ]
046	Adj.	Trajo. 100 Demaning Dago 1 00 Tillok	2.10	[ o to ro / o / mmi ]
1-907-	Paper Feed Timing	Tray2: Min. Paper Interval: Plain	ENG*	[-10 to 10 / 0 / 1mm]
047	Adj.			[
1-907-	Paper Feed Timing	Tray2: Min. Paper Interval: Mid.	ENG*	[-10 to 10 / 0 / 1mm]
048	Adj.	Thick		,
1-907-	Paper Feed Timing	Tray2: Min. Paper Interval: Thick	ENG*	[-10 to 10 / 0 / 1mm]
049	Adj.	•		_
1-907-	Paper Feed Timing	Tray3: Min. Paper Interval: Plain	ENG*	[-10 to 10 / 0 / 1mm]
050	Adj.	·		
1-907-	Paper Feed Timing	Tray3: Min. Paper Interval: Mid.	ENG*	[-10 to 10 / 0 / 1mm]
051	Adj.	Thick		
1-907-	Paper Feed Timing	Tray3: Min. Paper Interval: Thick	ENG*	[-10 to 10/0/1mm]
052	Adj.	_		
1-907-	Paper Feed Timing	Tray1 Clutch ON: Plain: Std Speed	ENG	[-10 to 10 / 0 / 1mm]
053	Adj.	2		
1-907-	Paper Feed Timing	Tray1 Clutch OFF: Plain: Std Speed	ENG	[-10 to 10/0/1mm]

055	Adj.	2		
1-907-	Paper Feed Timing	Tray1 Paper Exit Sen.: Plain: Std	ENG	[-10 to 10/0/1mm]
057	Adj.	Spd 2		
1-907-	Paper Feed Timing	Tray1 Paper Exit Sen.: Middle	ENG	[-10 to 10 / 0 / 1mm]
058	Adj.	Thick: BW		
1-907-	Paper Feed Timing	By-pass Clutch ON: Plain: Std	ENG	[-10 to 10 / 0 / 1mm]
059	Adj.	Speed 2		
1-907-	Paper Feed Timing	By-pass Clutch OFF: Plain: Std	ENG	[-10 to 10 / -5 / 1mm]
061	Adj.	Speed 2		
1-907-	Paper Feed Timing	Exit Junction SOL:OFF: Std Speed	ENG	[ -20 to 20 / 0 / 1mm ]
063	Adj.	2		
1-907-	Paper Feed Timing	Exit Junction SOL:ON: Std Speed 2	ENG	[ -20 to 20 / 0 / 1mm ]
064	Adj.			
1-907-	Paper Feed Timing	Exit Junction SOL:OFF: Mid Speed	ENG	[ -20 to 20 / 0 / 1mm ]
065	Adj.			
1-907-	Paper Feed Timing	Exit Junction SOL:ON: Mid Speed	ENG	[ -20 to 20 / 0 / 1mm ]
066	Adj.			
1-907-	Paper Feed Timing	Exit Clutch OFF: Exit Finish: Plain	ENG	[-10 to 10 / 0 / 1mm]
067	Adj.			
1-907-	Paper Feed Timing	Exit Clutch OFF: Reverse Finish:	ENG	[-10 to 10 / 0 / 1mm]
068	Adj.	Plain		
1-907-	Paper Feed Timing	Exit Clutch OFF: Invert Finish:	ENG	[-10 to 10 / 0 / 1mm]
069	Adj.	Plain		
1-907-	Paper Feed Timing	Exit Clutch OFF: Exit Finish: Std	ENG	[ -20 to 20 / 0 / 1mm ]
070	Adj.	Speed 2		
1-907-	Paper Feed Timing	Exit Clutch OFF: Invert Finish: Std	ENG	[ -20 to 20 / 0 / 1mm ]
071	Adj.	Speed 2		
1-907-	Paper Feed Timing	Exit Clutch ON: Std Speed 2	ENG	[ -20 to 20 / 0 / 1mm ]
072	Adj.			
1-907-	Paper Feed Timing	Exit Clutch OFF: Exit Finish: Low	ENG	[ -20 to 20 / 0 / 1mm ]
073	Adj.			
1-907-	Paper Feed Timing	Exit Clutch OFF: Invert Finish:	ENG	[ -20 to 20 / 0 / 1mm ]
074	Adj.	Low		
1-907-	Paper Feed Timing	Exit Clutch ON: Low Speed	ENG	[ -20 to 20 / 0 / 1mm ]
075	Adj.			
1-907-	Paper Feed Timing	Exit Clutch OFF: Exit Finish: Mid	ENG	[ -20 to 20 / 0 / 1mm ]
076	Adj.	Speed		
1-907-	Paper Feed Timing	Exit Clutch OFF: Invert Finish:	ENG	[ -20 to 20 / 0 / 1mm ]

077	Adj.	Mid Speed		
1-907-	Paper Feed Timing	Exit Clutch ON: Mid Speed	ENG	[ -20 to 20 / 0 / 1mm ]
078	Adj.			
1-907-	Paper Feed Timing	Invert Clutch OFF: Invert : Plain	ENG	[ -20 to 20 / 0 / 1mm ]
079	Adj.			
1-907-	Paper Feed Timing	Invert Clutch OFF:1bin Exit: Plain	ENG	[ -20 to 20 / 0 / 1mm ]
080	Adj.			
1-907-	Paper Feed Timing	Invert Clutch ON: Plain	ENG	[ -20 to 20 / 0 / 1mm ]
081	Adj.			
1-907-	Paper Feed Timing	Invert Clutch OFF: Invert:Std Speed	ENG	[ -20 to 20 / 0 / 1mm ]
082	Adj.	2		
1-907-	Paper Feed Timing	Invert Clutch OFF:1BIN: Std Speed	ENG	[ -20 to 20 / 0 / 1mm ]
083	Adj.	2		
1-907-	Paper Feed Timing	Invert Clutch ON: Std Speed 2	ENG	[ -20 to 20 / 0 / 1mm ]
084	Adj.			
1-907-	Paper Feed Timing	Invert Clutch OFF: Invert: Low	ENG	[ -20 to 20 / 0 / 1mm ]
085	Adj.	Speed		
1-907-	Paper Feed Timing	Invert Clutch OFF:1BIN: Low	ENG	[ -20 to 20 / 0 / 1mm ]
086	Adj.	Speed		
1-907-	Paper Feed Timing	Invert Clutch ON: Low Speed	ENG	[ -20 to 20 / 0 / 1mm ]
087	Adj.			
1-907-	Paper Feed Timing	Invert Clutch OFF: Invert :Mid	ENG	[ -20 to 20 / 0 / 1mm ]
088	Adj.	Speed		
1-907-	Paper Feed Timing	Invert Clutch OFF:1BIN: Mid	ENG	[ -20 to 20 / 0 / 1mm ]
089	Adj.	Speed		
1-907-	Paper Feed Timing	Invert Clutch ON: Mid Speed	ENG	[ -20 to 20 / 0 / 1mm ]
090	Adj.			
1-950-	Fan Cooling Time Set	PCDU Cooling Fan	ENG*	[ 0 to 600 / 0 / 1sec ]
001				
1-950-	Fan Cooling Time Set	Fusing Fan	ENG*	[ 0 to 600 / 10 / 1sec ]
002				
1-950-	Fan Cooling Time Set	PSU Fan	ENG*	[ 0 to 600 / 0 / 1sec ]
003				
1-950-	Fan Cooling Time Set	Laser Unit Fan	ENG*	[ 0 to 600 / 0 / 1sec ]
004				
1-951-	Fan Start Time Set	PCDU Cooling Fan	ENG*	[ 0 to 120 / 0 / 1sec ]
001				
1-951-	Fan Start Time Set	Fusing Fan	ENG*	[ 0 to 120 / 0 / 1sec ]

## 3.SP Mode Tables

002				
1-951-	Fan Start Time Set	PSU Fan	ENG*	[ 0 to 120 / 0 / 1sec ]
003				
1-951-	Fan Start Time Set	Laser Unit Fan	ENG*	[ 0 to 120 / 0 / 1sec ]
004				
1-952-	Fan Control Off Mode		ENG*	[ 10 to 60 / 10 / 1min ]
001	Time Set			
1-953-	Extra Fan Control	Operation Status	ENG*	[ 0 or 1 / 0 / 1 ]
001				
1-953-	Extra Fan Control	Extra Fan Start Temp.	ENG*	[ 0 to 50 / 5 / 0.1deg ]
006				
1-953-	Extra Fan Control	Extra Fan Stop Temp. Threshold	ENG*	[ 0 to 50 / 2 / 0.1deg ]
007				
1-953-	Extra Fan Control	Set: Extra Operation ON/OFF	ENG*	[ 0 or 1 / 1 / 1 ]
008				
1-955-	Fan Control	PCDU Fan Operation Sw Temp.	ENG*	[ 0 to 100 / 38 /
001				0.1deg ]
1-955-	Fan Control	Fusing Fan Operation Sw Temp.	ENG*	[ 0 to 100 / 0 / 0.1deg ]
002				
1-955-	Fan Control	Laser Unit Fan Operation Sw Temp.	ENG*	[ 0 to 100 / 38 /
004				0.1deg ]
1-955-	Fan Control	Fan Operation Sw Temp. Threshold	ENG*	[ 0 to 100 / 2 / 0.1deg ]
005				
1-955-	Fan Control	PSU Fan Operation Start Time2	ENG*	[ 0 to 900 / 0 / 1sec ]
006				
1-955-	Fan Control	PSU Fan Ctrl Off Mode Time2	ENG*	[ 0 to 60 / 10 /
007				0.1min. ]

## SP Tables - SP2-XXX (1)

## SP2-XXX (Drum) -1

SP	Large Category	Small Category	ENG or	[Min to
No.			CTL	Max/Init./Step]
2-	Charge DC Voltage: Fix	Plain: Bk	ENG*	[ 0 to 2000 / 590 / 10-
005-				V ]
001				
2-	Charge DC Voltage: Fix	Plain: C	ENG*	[ 0 to 2000 / 590 / 10-
005-				V ]
002				
2-	Charge DC Voltage: Fix	Plain: M	ENG*	[ 0 to 2000 / 590 / 10-
005-				V ]
003				
2-	Charge DC Voltage: Fix	Plain: Y	ENG*	[ 0 to 2000 / 590 / 10-
005-				V ]
004				
2-	Environmental Correction: PCU	Environment Div. FC:	ENG*	[ 0 to 5 / 0 / 1 ]
013-		Display		
001				
2-	Environmental Correction: PCU	Forced Setting	ENG*	[ 0 to 5 / 0 / 1 ]
013-				
002				
2-	Lubricant Apply Operation	Temperature Threshold:	ENG*	[ 0 to 50 / 15 / 1deg ]
016-		Low		
001				
2-	Lubricant Apply Operation	Temperature Threshold:	ENG*	[ 0 to 50 / 30 / 1deg ]
016-		High		
002				
2-	Lubricant Apply Operation	Page Setting 1: Low Speed	ENG*	[ 0 to 999 / 10 /
016-				1page ]
003				
2-	Lubricant Apply Operation	Page Setting 2: Low Temp.	ENG*	[ 0 to 999 / 20 /
016-				1page ]
004				
2-	Lubricant Apply Operation	Page Setting 3: Low Temp.	ENG*	[ 0 to 999 / 0 / 1page ]
016-		2		
005				

Lubricant Apply Operation		T			1
Description   Coverage Threshold 1: Low   ENG*   [ 0 to 100/10/ 0.01% ]		Lubricant Apply Operation	Page Setting 4: High Temp.	ENG*	[ 0 to 999 / 20 /
Lubricant Apply Operation   Coverage Threshold 1: Low   ENG*   [ 0 to 100/10/ 0.01%]					lpage ]
Speed   Coverage Threshold 2: Low   ENG*   [0 to 60/20/0.01%]	006				
2-   Lubricant Apply Operation   Coverage Threshold 2: Low   ENG*   [ 0 to 60/20/0.01% ]   Temp.   ENG*   [ 0 to 100/20 / 0.01% ]	2-	Lubricant Apply Operation	Coverage Threshold 1: Low	ENG*	[ 0 to 100 / 10 /
Coverage Threshold 2: Low Temp.   ENG*   [0 to 60/20/0.01%]	016-		Speed		0.01% ]
Temp.   Temp.   Emp.	007				
2-   Lubricant Apply Operation   Coverage Threshold 4: High Temp.   ENG*   [0 to 100 / 20 / 0.01%]	2-	Lubricant Apply Operation	Coverage Threshold 2: Low	ENG*	[ 0 to 60 / 20 / 0.01% ]
Coverage Threshold 4: High Temp.	016-		Temp.		
Temp.	008				
2-   Lubricant Apply Operation	2-	Lubricant Apply Operation	Coverage Threshold 4: High	ENG*	[ 0 to 100 / 20 /
2-	016-		Temp.		0.01% ]
O16-  O11	010				
Dilimited   Comparison   Comp	2-	Lubricant Apply Operation	Application Time:1	ENG*	[ 0 to 99 / 10 / 1sec ]
Comparison   Application Time: 2   ENG*   [ 0 to 99 / 10 / 1sec ]	016-				
Comparison   Com	011				
Comparison   Com	2-	Lubricant Apply Operation	Application Time:2	ENG*	[ 0 to 99 / 10 / 1sec ]
Lubricant Apply Operation	016-				
Comparison   Com	012				
Comparison   Com	2-	Lubricant Apply Operation	Application Time:3	ENG*	[ 0 to 99 / 10 / 1sec ]
2- 016- 014Lubricant Apply OperationApplication Time:4ENG* 2- 1016- 1033[ 0 to 99 / 5 / 1sec ]2- 016- 033Lubricant Apply OperationPage Setting 5: Low Temp.ENG* 2- 	016-				
016- 014  2- Lubricant Apply Operation Page Setting 5: Low Temp. 016- 033  2- Lubricant Apply Operation Image Area Threshold 5: Low Temp.  2- Lubricant Apply Operation Application Time:5  2- Lubricant Apply Operation Temperature Threshold: 035  2- Lubricant Apply Operation Temperature Threshold: 036  Contact Series Series S: Low Temp.  [ 0 to 999 / 20 / lpage ]  [ 0 to 100 / 60 / 0.01% ]  [ 0 to 99 / 3 / 1sec ]  [ 0 to 50 / 15 / 1deg ]  [ 0 to 50 / 15 / 1deg ]	013				
014         Lubricant Apply Operation         Page Setting 5: Low Temp.         ENG*         [ 0 to 999 / 20 / 1page ]           016- 033         Lubricant Apply Operation         Image Area Threshold 5: Low Temp.         ENG*         [ 60 to 100 / 60 / 0.01% ]           016- 034         Low Temp.         ENG*         [ 0 to 99 / 3 / 1sec ]           016- 035         Application Time:5         ENG*         [ 0 to 99 / 3 / 1sec ]           2- 016- 036         Lubricant Apply Operation         Temperature Threshold: Low 2         ENG*         [ 0 to 50 / 15 / 1deg ]	2-	Lubricant Apply Operation	Application Time:4	ENG*	[ 0 to 99 / 5 / 1sec ]
2- Lubricant Apply Operation Page Setting 5: Low Temp. ENG* [ 0 to 999 / 20 / 1page ]  2- Lubricant Apply Operation Image Area Threshold 5: Low Temp.  2- Lubricant Apply Operation Application Time:5  2- Lubricant Apply Operation Application Time:5  2- Lubricant Apply Operation Temperature Threshold: ENG* [ 0 to 50 / 15 / 1deg ]  1- Low 2  1- Lubricant Apply Operation Temperature Threshold: Low 2	016-				
016- 033       1page ]         2- 016- 034       Lubricant Apply Operation       Image Area Threshold 5: Low Temp.       ENG*       [ 60 to 100 / 60 / 0.01% ]         2- 016- 035       Lubricant Apply Operation       Application Time:5       ENG*       [ 0 to 99 / 3 / 1sec ]         2- 016- 036       Lubricant Apply Operation       Temperature Threshold: Low 2       ENG*       [ 0 to 50 / 15 / 1deg ]	014				
1	2-	Lubricant Apply Operation	Page Setting 5: Low Temp.	ENG*	[ 0 to 999 / 20 /
2-Lubricant Apply OperationImage Area Threshold 5: Low Temp.ENG* 0.01% ][ 60 to 100 / 60 / 0.01% ]2-Lubricant Apply OperationApplication Time:5ENG* 016- 035[ 0 to 99 / 3 / 1sec ]2-Lubricant Apply OperationTemperature Threshold: Low 2ENG* 0 to 50 / 15 / 1deg ]	016-				1page ]
016-       Low Temp.       0.01% ]         2-       Lubricant Apply Operation       Application Time:5       ENG* [ 0 to 99 / 3 / 1sec ]         016-       035         2-       Lubricant Apply Operation       Temperature Threshold: Low 2       ENG* [ 0 to 50 / 15 / 1deg ]         016-       036	033				
2- Lubricant Apply Operation Application Time:5 ENG* [ 0 to 99 / 3 / 1sec ] 016- 035 2- Lubricant Apply Operation Temperature Threshold: ENG* [ 0 to 50 / 15 / 1deg ] 016- 036	2-	Lubricant Apply Operation	Image Area Threshold 5:	ENG*	[ 60 to 100 / 60 /
2- Lubricant Apply Operation Application Time:5 ENG* [ 0 to 99 / 3 / 1sec ] 016- 035  2- Lubricant Apply Operation Temperature Threshold: ENG* [ 0 to 50 / 15 / 1deg ] 016- 036	016-		Low Temp.		0.01% ]
016-       035         2-       Lubricant Apply Operation       Temperature Threshold:       ENG*       [ 0 to 50 / 15 / 1deg ]         016-       036	034				
2- Lubricant Apply Operation Temperature Threshold: ENG* [ 0 to 50 / 15 / 1deg ] Low 2	2-	Lubricant Apply Operation	Application Time:5	ENG*	[ 0 to 99 / 3 / 1sec ]
2- Lubricant Apply Operation Temperature Threshold: ENG* [ 0 to 50 / 15 / 1deg ] Low 2	016-				
016- 036 Low 2	035				
036	2-	Lubricant Apply Operation	Temperature Threshold:	ENG*	[ 0 to 50 / 15 / 1deg ]
	016-		Low 2		
	036				
2- Registration Adjustment Color Main Dot: Bk ENG* [ -512 to 511 / 0 /	2-	Registration Adjustment	Color Main Dot: Bk	ENG*	[ -512 to 511 / 0 /
101-   1dot ]	101-				1dot ]
001	001				

Registration Correction					
Registration Correction	101-	Registration Correction	Color Main Dot: Ma	ENG*	
101-  101-	002				
Dot	2-	Registration Correction	Color Main Dot: Cy	ENG*	[ -512 to 511 / 0 /
Color Main Dot: Ye	101-				1dot ]
101-  004	003				
O04	2-	Registration Correction	Color Main Dot: Ye	ENG*	[-512 to 511 / 0 /
2-   Registration Correction   Color Sub Line: Bk   ENG*   [-16384 to 16383 / 0 / 1   1   1   1   1   1   1   1   1   1	101-				1dot ]
101-  005	004				
Dot   Color Sub Line: Ma	2-	Registration Correction	Color Sub Line: Bk	ENG*	[ -16384 to 16383 / 0 /
Color Sub Line: Ma	101-				1line ]
101-   106	005				
Registration Correction   Color Sub Line: Cy	2-	Registration Correction	Color Sub Line: Ma	ENG*	[ -16384 to 16383 / 0 /
Color Sub Line: Cy	101-				1line ]
101-   007   2-   Registration Correction   Color Sub Line: Ye   ENG*   [-16384 to 16383 / 0 / 11ine ]   008   2-   Magnification Adjustment   Main Mag.: Standard   ENG*   [-1 to 1 / 0.091 / 0.001% ]   001   02-   002   Magnification Adjustment   Main Mag.: Standard   ENG*   [-1 to 1 / 0.091 / 0.001% ]   02-   02-   Magnification Adjustment   Main Mag.: Low Speed: Bk   ENG*   [-1 to 1 / 0.091 / 0.001% ]   02-   03-	006				
DOT   Color Sub Line: Ye	2-	Registration Correction	Color Sub Line: Cy	ENG*	[ -16384 to 16383 / 0 /
Color Sub Line: Ye	101-				lline ]
101-   108	007				
Doc   Doc	2-	Registration Correction	Color Sub Line: Ye	ENG*	[ -16384 to 16383 / 0 /
2-         Magnification Adjustment         Main Mag.: Standard         ENG*         [-1 to 1 / 0.091 / 0.001%]           102-         001         Magnification Adjustment         Main Mag.: Standard         ENG*         [-1 to 1 / 0.091 / 0.001%]           102-         002         Magnification Adjustment         Main Mag.: Low Speed: Bk         ENG*         [-1 to 1 / 0.091 / 0.001%]           102-         003         Magnification Adjustment         Main Mag.: Standard         ENG*         [-1 to 1 / 0.091 / 0.001%]           102-         004         Speed: Ma         ENG*         [-1 to 1 / 0.091 / 0.001%]           2-         Magnification Adjustment         Main Mag.: Low Speed: Ma         ENG*         [-1 to 1 / 0.091 / 0.001%]           102-         006         Magnification Adjustment         ENG*         [-1 to 1 / 0.081 / 0.001%]           2-         Magnification Adjustment         Main Mag.: Standard         ENG*         [-1 to 1 / 0.081 / 0.001%]           102-         Magnification Adjustment         Main Mag.: Standard         ENG*         [-1 to 1 / 0.081 / 0.001%]	101-				1line ]
Speed: Bk	008				
Dot   Dot	2-	Magnification Adjustment	Main Mag.: Standard	ENG*	[ -1 to 1 / 0.091 /
2-         Magnification Adjustment         Main Mag.: Standard Speed2: Bk         ENG* [-1 to 1 / 0.091 / 0.001%]           2-         Magnification Adjustment         Main Mag.: Low Speed: Bk         ENG* [-1 to 1 / 0.091 / 0.001%]           102-         003         ENG* [-1 to 1 / 0.091 / 0.001%]           2-         Magnification Adjustment         Main Mag.: Standard Speed: Ma         ENG* [-1 to 1 / 0.091 / 0.001%]           2-         Magnification Adjustment         Main Mag.: Low Speed: Ma         ENG* [-1 to 1 / 0.091 / 0.001%]           102-         Magnification Adjustment         Main Mag.: Standard Speed: Ma         ENG* [-1 to 1 / 0.081 / 0.001%]           2-         Magnification Adjustment         Main Mag.: Standard Speed: Cy         ENG* [-1 to 1 / 0.081 / 0.001%]	102-		Speed: Bk		0.001% ]
Speed2: Bk	001				
Doc   Doc	2-	Magnification Adjustment	Main Mag.: Standard	ENG*	[-1 to 1 / 0.091 /
2-       Magnification Adjustment       Main Mag.: Low Speed: Bk       ENG*       [ -1 to 1 / 0.091 / 0.001% ]         102-       003       Magnification Adjustment       Main Mag.: Standard Speed: Ma       ENG*       [ -1 to 1 / 0.091 / 0.001% ]         102-       Magnification Adjustment       Main Mag.: Low Speed: Ma       ENG*       [ -1 to 1 / 0.091 / 0.001% ]         102-       Magnification Adjustment       Main Mag.: Standard Speed: Cy       ENG*       [ -1 to 1 / 0.081 / 0.001% ]	102-		Speed2: Bk		0.001% ]
102-   0.001% ]     0.001% ]	002				
003       Magnification Adjustment       Main Mag.: Standard       ENG*       [ -1 to 1 / 0.091 / 0.001% ]         102- 004       Speed: Ma       0.001% ]         2- Magnification Adjustment       Main Mag.: Low Speed: Ma 0.001% ]       ENG*       [ -1 to 1 / 0.091 / 0.001% ]         102- 006       Magnification Adjustment       Main Mag.: Standard Speed: Cy       ENG*       [ -1 to 1 / 0.081 / 0.001% ]	2-	Magnification Adjustment	Main Mag.: Low Speed: Bk	ENG*	[-1 to 1 / 0.091 /
2-       Magnification Adjustment       Main Mag.: Standard       ENG*       [ -1 to 1 / 0.091 / 0.001% ]         102-       004       Speed: Ma       ENG*       [ -1 to 1 / 0.091 / 0.001% ]         2-       Magnification Adjustment       Main Mag.: Low Speed: Ma       ENG*       [ -1 to 1 / 0.091 / 0.001% ]         2-       Magnification Adjustment       Main Mag.: Standard       ENG*       [ -1 to 1 / 0.081 / 0.001% ]         102-       Speed: Cy       0.001% ]	102-				0.001% ]
102-   Speed: Ma   0.001% ]	003				
004       Image: Comparison of the compariso	2-	Magnification Adjustment	Main Mag.: Standard	ENG*	[ -1 to 1 / 0.091 /
2-       Magnification Adjustment       Main Mag.: Low Speed: Ma       ENG*       [ -1 to 1 / 0.091 / 0.001% ]         102-       006         2-       Magnification Adjustment       Main Mag.: Standard Speed: Cy       ENG*       [ -1 to 1 / 0.081 / 0.001% ]	102-		Speed: Ma		0.001%]
102-       0.001% ]         006       0.001% ]         2-       Magnification Adjustment 102-       Main Mag.: Standard Speed: Cy       ENG* [ -1 to 1 / 0.081 / 0.001% ]	004				
102-       0.001% ]         006       0.001% ]         2-       Magnification Adjustment 102-       Main Mag.: Standard Speed: Cy       ENG* [ -1 to 1 / 0.081 / 0.001% ]	2-	Magnification Adjustment	Main Mag.: Low Speed: Ma	ENG*	[-1 to 1 / 0.091 /
006         Magnification Adjustment         Main Mag.: Standard         ENG*         [ -1 to 1 / 0.081 / 0.001% ]           102-         Speed: Cy         0.001% ]					
2- Magnification Adjustment Main Mag.: Standard ENG* [ -1 to 1 / 0.081 / 0.001% ]					
102- Speed: Cy 0.001% ]		Magnification Adjustment	Main Mag.: Standard	ENG*	[-1 to 1 / 0.081 /
			_		
	007				,

2-	Magnification Adjustment	Main Mag.: Low Speed: Cy	ENG*	[ -1 to 1 / 0.081 /
102-	Wagiiii Cation Adjustificiti	Maiii Mag Low Speed. Cy	ENG	0.001%]
009				0.00170]
2-	Magnification Adjustment	Main Mag.: Standard	ENG*	[ -1 to 1 / 0.081 /
102-	wagiiiieation rajustinent	Speed: Ye	LIVO	0.001%]
010		Speed. 10		0.00170]
2-	Magnification Adjustment	Main Mag.: Low Speed: Ye	ENG*	[ -1 to 1 / 0.081 /
102-	Triaginification / rajustinent	Main Mag Low Speed. To	LIVO	0.001%]
012				0.00170]
2-	Main Scan Beam Pitch Adj.	Bk	ENG*	[ 0 to 100 / 11.53 /
102-				0.01dot ]
013				,
2-	Main Scan Beam Pitch Adj.	Ma	ENG*	[ 0 to 100 / 11.53 /
102-				0.01dot ]
015				
2-	Main Scan Beam Pitch Adj.	Су	ENG*	[ 0 to 100 / 11.53 /
102-				0.01dot ]
017				
2-	Main Scan Beam Pitch Adj.	Ye	ENG*	[ 0 to 100 / 11.53 /
102-				0.01dot ]
019				
2-	Magnification Adjustment	Color Main Mag.: Standard	ENG*	[-1 to 1/0/0.001%]
102-		Speed: Ma		
028				
2-	Magnification Adjustment	Color Main Mag.: Standard	ENG*	[-1 to 1/0/0.001%]
102-		Speed: Cy		
031				
2-	Magnification Adjustment	Color Main Mag.: Standard	ENG*	[ -1 to 1 / 0 / 0.001% ]
102-		Speed: Ye		
034				
2-	Erase Margin Adjustment	Leading Edge Width	ENG*	[ 0 to 9.9 / 4.2 /
103-				0.1mm ]
001				
2-	Erase Margin Adjustment	Trailing Edge Width	ENG*	[ 0 to 9.9 / 4.2 /
103-				0.1mm ]
002				
2-	Erase Margin Adjustment	Left	ENG*	[ 0 to 9.9 / 2 / 0.1mm ]
103-				
003				

2-	Erase Margin Adjustment	Right	ENG*	[ 0 to 9.9 / 2 / 0.1mm ]
103-				
004				
2-	Erase Margin Adjustment	Duplex: Trailing Edge	ENG*	[ 0 to 9.9 / 0 / 0.1mm ]
103-				
005				
2-	Erase Margin Adjustment	Duplex: Left Edge	ENG*	[ 0 to 9.9 / 0 / 0.1mm ]
103-				
006				
2-	Erase Margin Adjustment	Duplex: Right Edge	ENG*	[ 0 to 9.9 / 0 / 0.1mm ]
103-				
007				
2-	Polygon Rotation Time	Warming-Up Time Set	ENG*	[ 0 to 60 / 10 / 1sec ]
106-				
001				
2-	Polygon Rotation Time	Post Rotating Time Set	ENG*	[ 0 to 60 / 0 / 1sec ]
106-		After Printing		
002				
2-	Image Parameter	Shading Correction Flag	ENG*	[ 0 or 1 / 1 / 1 ]
107-				
002				
2-	Test Pattern	Pattern Selection	ENG	[ 0 to 23 / 0 / 1 ]
109-				0: None
003				1: Vertical Line (1dot)
				2: Vertical Line
				(2dots)
				3: Horizontal Line
				(1dot)
				4: Horizontal Line
				(2dots)
				5: Grid Vertical Line
				6: Grid Horizontal
				Line
				7: Grid Pattern Small
				8: Grid Pattern Large
				9: Argyle Pattern
				Small
				10: Argyle Pattern
				Large

	T		<u> </u>	
				11: Independent
				Pattern (1dot)
				12: Independent
				Pattern (2dots)
				13: Independent
				Pattern (4dots)
				14: Trimming Area
				15: Hound's Tooth
				Check (Vertical)
				16: Hound's Tooth
				Check (Horizontal)
				17: Band (Horizontal)
				18: Band (Vertical)
				19: Checker Flag
				Pattern
				20: Grayscale
				(Vertical Margin)
				21: Grayscale
				(Horizontal Margin)
				22: Two-Beam
				Density Pattern
				23: Full Dot Pattern
2-	Test Pattern	Color Selection	ENG	[1 to 4/1/1]
109-				1: All Color
005				2: Ma
				3: Ye
				4: Cy
2-	Test Pattern	Density: Bk	ENG	[ 0 to 15 / 15 / 1 ]
109-				
006				
2-	Test Pattern	Density: Ma	ENG	[ 0 to 15 / 15 / 1 ]
109-				
007				
2-	Test Pattern	Density: Cy	ENG	[ 0 to 15 / 15 / 1 ]
109-	.5			
008				
2-	Test Pattern	Density: Ye	ENG	[ 0 to 15 / 15 / 1 ]
109-	103t I attorn	Delisity. 10	LING	[0 10 13 / 13 / 1]
009				
009				

	CTOLIT	CTOLIT C. L	ENIC*	FO 1 / O / 1 3
2-	STOUT	STOUT Selection	ENG*	[ 0 or 1 / 0 / 1 ]
110-				
001				
2-	LD Driver	Error Bk	ENG	[ 0x0000 to 0xFFFF /
110-				0x0000 / 1 ]
002				
2-	LD Driver	Error Ma	ENG	[ 0x0000 to 0xFFFF /
110-				0x0000 / 1 ]
003				
2-	LD Driver	Error Cy	ENG	[ 0x0000 to 0xFFFF /
110-				0x0000 / 1 ]
004				
2-	LD Driver	Error Ye	ENG	[ 0x0000 to 0xFFFF /
110-				0x0000 / 1 ]
005				
2-	LD Driver	Writing Unit Adj. Transfer	ENG	[ 0 or 1 / 0 / 1 ]
110-				
006				
2-	Forced Line Position Adj.	Mode a	ENG	[ 0 or 1 / 0 / 1 ]
111-				
001				
2-	Forced Line Position Adj.	Mode b	ENG	[ 0 or 1 / 0 / 1 ]
111-				
002				
2-	Forced Line Position Adj.	Mode c	ENG	[ 0 or 1 / 0 / 1 ]
111-				[ ]
003				
2-	Forced Line Position Adj.	Mode d	ENG	[ 0 or 1 / 0 / 1 ]
111-				[ • • • • • • • • • • • • • • • • • • •
004				
2-	TM/ID Sensor Check	Execute	ENG	[ 0 or 1 / 0 / 1 ]
112-	SUMST CHOOK			
001				
2-	TM/ID Sensor Check	Display Result: Front-	ENG*	[ 0 to 999 / 0 / 1 ]
112-	Thirle bondor Check	Center-Rear	12110	
010		Contoration		
2-	TM/ID Sensor Check	Threshold Setting	ENG*	[ 0 to 5.5 / 1.9 /
112-	TWI/ID SCHSOI CHECK	i inconoid octing	ENG.	0.01V]
				0.01 v ]
020				

2-	Skew Adjustment	Ma:Skew Adjustment	ENG*	[ -256 to 256 / 0 /
117-	,	j		1click ]
001				
2-	Skew Adjustment	Cy:Skew Adjustment	ENG*	[ -256 to 256 / 0 /
117-				1click ]
002				_
2-	Skew Adjustment	Ye:Skew Adjustment	ENG*	[ -256 to 256 / 0 /
117-				1click ]
003				
2-	Skew Adjustment	Bk:Skew Adjustment	ENG*	[ -256 to 256 / 0 /
117-				1click ]
004				
2-	TM/ID Sensor Check	PWM: Front	ENG*	[ 0 to 1024 / 0 / 1 ]
140-				
005				
2-	TM/ID Sensor Check	PWM: Center	ENG*	[ 0 to 1024 / 0 / 1 ]
140-				
006				
2-	TM/ID Sensor Check	PWM: Rear	ENG*	[ 0 to 1024 / 0 / 1 ]
140-				
007				
2-	TM/ID Sensor Check	Average: Front	ENG*	[ 0 to 5.5 / 0 / 0.01V ]
141-				
005				
2-	TM/ID Sensor Check	Average: Center	ENG*	[ 0 to 5.5 / 0 / 0.01V ]
141-				
006				
2-	TM/ID Sensor Check	Average: Rear	ENG*	[ 0 to 5.5 / 0 / 0.01V ]
141-				
007				
2-	TM/ID Sensor Check	Maximum: Front	ENG*	[ 0 to 5.5 / 0 / 0.01V ]
142-				
005				
2-	TM/ID Sensor Check	Maximum: Center	ENG*	[ 0 to 5.5 / 0 / 0.01V ]
142-				
006				
2-	TM/ID Sensor Check	Maximum: Rear	ENG*	[ 0 to 5.5 / 0 / 0.01V ]
142-				
007				

2-	TM/ID Sensor Check	Minimum: Front	ENG*	[ 0 to 5.5 / 0 / 0.01V ]
143-				
005				
2-	TM/ID Sensor Check	Minimum: Center	ENG*	[ 0 to 5.5 / 0 / 0.01V ]
143-				
006				
2-	TM/ID Sensor Check	Minimum: Rear	ENG*	[ 0 to 5.5 / 0 / 0.01V ]
143-				
007				
2-	TM-Sensor Check Result	Number of Edge	ENG*	[ 0 to 16 / 0 / 1 ]
146-		Detection:Front		
005				
2-	TM-Sensor Check Result	Number of Edge	ENG*	[ 0 to 16 / 0 / 1 ]
146-		Detection:Center		
006				
2-	TM-Sensor Check Result	Number of Edge	ENG*	[ 0 to 16 / 0 / 1 ]
146-		Detection:Rear		
007				
2-	Shad. Correct Setting	Front End Area: Bk: LD1	ENG*	[ 50 to 150 / 100 /
154-				0.1% ]
002				
2-	Shad. Correct Setting	Front End Area: Bk: LD2	ENG*	[ 50 to 150 / 100 /
154-				0.1% ]
003				
2-	Shad. Correct Setting	Front End Area: Ma: LD1	ENG*	[ 50 to 150 / 100 /
154-				0.1%]
005				
2-	Shad. Correct Setting	Front End Area: Ma: LD2	ENG*	[ 50 to 150 / 100 /
154-				0.1%]
006				
2-	Shad. Correct Setting	Front End Area: Cy: LD1	ENG*	[ 50 to 150 / 100 /
154-				0.1% ]
007			<u>l</u>	
2-	Shad. Correct Setting	Front End Area: Cy: LD2	ENG*	[ 50 to 150 / 100 /
154-				0.1% ]
008				
2-	Shad. Correct Setting	Front End Area: Ye: LD1	ENG*	[ 50 to 150 / 100 /
154-				0.1% ]
009				
	•	•		•

2-	Shad. Correct Setting	Front End Area: Ye: LD2	ENG*	[ 50 to 150 / 100 /
154-	_			0.1%]
010				
2-	Vertical Line Width	600dpi:Bk	ENG*	[ 10 to 15 / 14 / 1 ]
160-				
001				
2-	Vertical Line Width	600dpi:Ma	ENG*	[ 10 to 15 / 14 / 1 ]
160-				
002				
2-	Vertical Line Width	600dpi:Cy	ENG*	[ 10 to 15 / 14 / 1 ]
160-				
003				
2-	Vertical Line Width	600dpi:Ye	ENG*	[ 10 to 15 / 14 / 1 ]
160-				
004				
2-	Vertical Line Width	1200dpi:Bk	ENG*	[ 10 to 15 / 15 / 1 ]
160-				
005				
2-	Vertical Line Width	1200dpi:Ma	ENG*	[ 10 to 15 / 15 / 1 ]
160-				
006				
2-	Vertical Line Width	1200dpi:Cy	ENG*	[ 10 to 15 / 15 / 1 ]
160-				
007				
2-	Vertical Line Width	1200dpi:Ye	ENG*	[ 10 to 15 / 15 / 1 ]
160-				
008	W. C. II. W. M.	(001:11 1 1 1 D + D1	ENIC*	F 10 / 15 / 15 / 13
2-	Vertical Line Width	600dpi:Independent Dot:Bk	ENG*	[ 10 to 15 / 15 / 1 ]
160- 009				
2-	Vertical Line Width	1200dpi:Independent	ENG*	[ 10 to 15 / 15 / 1 ]
160-	vortical Enile Width	Dot:Bk	ENO.	
010		DOLDK		
2-	Line Pos. Adj. Clear	Color Registration	ENG	[ 0 or 1 / 0 / 1 ]
180-	Zino i ob. riuj. Civui	Color Registration	2.10	
001				
2-	Line Pos. Adj. Clear	Main Scan Length	ENG	[ 0 or 1 / 0 / 1 ]
180-		Detection Detection	23	
002				
			<u> </u>	

2-	Line Pos. Adj. Clear	MUSIC Result	ENG	[ 0 or 1 / 0 / 1 ]
180-	J			
003				
2-	Line Position Adj. Result	Skew: M	ENG*	[ -5000 to 5000 / 0 /
181-	-			0.001um ]
003				_
2-	Line Position Adj. Result	M. Cor.: Dot: M	ENG*	[-512 to 511 / 0 /
181-				1dot ]
011				
2-	Line Position Adj. Result	M. Cor.: Subdot: M	ENG*	[-1 to 1/0/0.01dot]
181-				
012				
2-	Line Position Adj. Result	Left Mag.: Subdot: M	ENG*	[ -32 to 32 / 0 /
181-				0.01dot ]
015				
2-	Line Position Adj. Result	Right Mag.: Subdot: M	ENG*	[-32 to 32 / 0 /
181-				0.01dot ]
016				
2-	Line Position Adj. Result	S. Cor.: 600 Line: M	ENG*	[ -16384 to 16383 / 0 /
181-				lline ]
017				
2-	Line Position Adj. Result	S. Cor.: 600 Sub: M	ENG*	[ -1 to 1 / 0 /
181-				0.001line ]
018				
2-	Line Position Adj. Result	S. Cor.: 1200 Line: M	ENG*	[ -16384 to 16383 / 0 /
181-				lline ]
019				
2-	Line Position Adj. Result	S. Cor.: 1200 Sub: M	ENG*	[ -1 to 1 / 0 /
181-				0.001line ]
020				
2-	Line Position Adj. Result	Skew: C	ENG*	[ -5000 to 5000 / 0 /
181-				0.001um ]
021				
2-	Line Position Adj. Result	M. Cor.: Dot: C	ENG*	[-512 to 511 / 0 /
181-				ldot]
029				
2-	Line Position Adj. Result	M. Cor.: Subdot: C	ENG*	[-1 to 1 / 0 / 0.01dot]
181-				
030				

181-	2-	Line Position Adj. Result	Left Mag.: Subdot: C	ENG*	[ -32 to 32 / 0 /
Line Position Adj. Result	181-				
181-	033				
2-   Line Position Adj. Result   S. Cor.: 600 Line: C   ENG*   [-16384 to 16383 / 0 / 11ine ]	2-	Line Position Adj. Result	Right Mag.: Subdot: C	ENG*	[ -32 to 32 / 0 /
2-   Line Position Adj. Result   S. Cor.: 600 Line: C   ENG*   [-16384 to 16383 / 0 / 11ine]	181-				0.01dot ]
181-	034				
2-	2-	Line Position Adj. Result	S. Cor.: 600 Line: C	ENG*	[ -16384 to 16383 / 0 /
2-   Line Position Adj. Result   S. Cor.: 600 Sub: C   ENG*   [-1 to 1/0/ 0.001line]	181-				lline ]
181-	035				
2-   Line Position Adj. Result   S. Cor.: 1200 Line: C   ENG*   [-16384 to 16383 / 0 / 181-   181-   181-   2-   Line Position Adj. Result   S. Cor.: 1200 Sub; C   ENG*   [-1 to 1 / 0 / 0.001 line ]	2-	Line Position Adj. Result	S. Cor.: 600 Sub: C	ENG*	[-1 to 1 / 0 /
2-   Line Position Adj. Result   S. Cor.: 1200 Line: C   ENG*   [-16384 to 16383 / 0 / 11line ]	181-				0.001line ]
181-   181-	036				
O37   Care   C	2-	Line Position Adj. Result	S. Cor.: 1200 Line: C	ENG*	[ -16384 to 16383 / 0 /
2-   Line Position Adj. Result   S. Cor.: 1200 Sub: C   ENG*   [-1 to 1 / 0 / 0.001 line]	181-				1line ]
181-	037				
O38   Carried Position Adj. Result   Skew: Y   ENG*   [-5000 to 5000 / 0 / 0.001 um]	2-	Line Position Adj. Result	S. Cor.: 1200 Sub: C	ENG*	[ -1 to 1 / 0 /
Continuous Position Adj. Result   Skew: Y   ENG*   [-5000 to 5000 / 0 / 0.001um]	181-				0.001line ]
181-	038				
039	2-	Line Position Adj. Result	Skew: Y	ENG*	[ -5000 to 5000 / 0 /
2-   Line Position Adj. Result   M. Cor.: Dot: Y   ENG*   [-512 to 511 / 0 / 1dot ]	181-				0.001um ]
181-   1dot ]   1dot ]   1dot ]   2-   Line Position Adj. Result   M. Cor.: Subdot: Y   ENG*   [-1 to 1/0/0.01dot ]   181-   048     2-   Line Position Adj. Result   Left Mag.: Subdot: Y   ENG*   [-32 to 32/0/0.01dot ]   0.01dot ]   2-   Line Position Adj. Result   Right Mag.: Subdot: Y   ENG*   [-32 to 32/0/0.01dot ]   0.01dot ]   181-   052   Eng*   [-16384 to 16383/0/1.01]   181-	039				
D47	2-	Line Position Adj. Result	M. Cor.: Dot: Y	ENG*	[ -512 to 511 / 0 /
2-       Line Position Adj. Result       M. Cor.: Subdot: Y       ENG*       [-1 to 1/0/0.01dot]         181-       048         2-       Line Position Adj. Result       Left Mag.: Subdot: Y       ENG*       [-32 to 32/0/0.01dot]         181-       051         2-       Line Position Adj. Result       Right Mag.: Subdot: Y       ENG*       [-32 to 32/0/0.01dot]         181-       052         2-       Line Position Adj. Result       S. Cor.: 600 Line: Y       ENG*       [-16384 to 16383/0/1line]         181-       053         2-       Line Position Adj. Result       S. Cor.: 600 Sub: Y       ENG*       [-1 to 1/0/0/0.001line]	181-				1dot ]
181-   2-   Line Position Adj. Result   Left Mag.: Subdot: Y   ENG*   [-32 to 32/0/ 0.01dot]	047				
048       Line Position Adj. Result       Left Mag.: Subdot: Y       ENG* [-32 to 32/0/0.01dot]         181- 051       Line Position Adj. Result       Right Mag.: Subdot: Y       ENG* [-32 to 32/0/0.01dot]         181- 052       0.01dot ]         2- 181- 053       Line Position Adj. Result       S. Cor.: 600 Line: Y       ENG* [-16384 to 16383/0/1line]         2- 181- 181-       Line Position Adj. Result       S. Cor.: 600 Sub: Y       ENG* [-1 to 1/0/0.001line]	2-	Line Position Adj. Result	M. Cor.: Subdot: Y	ENG*	[-1 to 1/0/0.01dot]
2-       Line Position Adj. Result       Left Mag.: Subdot: Y       ENG*       [-32 to 32 / 0 / 0.01dot]         051       2-       Line Position Adj. Result       Right Mag.: Subdot: Y       ENG*       [-32 to 32 / 0 / 0.01dot]         181-       0.01dot ]         052       ENG*       [-16384 to 16383 / 0 / 1line]         181-       11ine Position Adj. Result       S. Cor.: 600 Sub: Y       ENG*       [-1 to 1 / 0 / 0.001line]	181-				
181-	048				
2-   Line Position Adj. Result   Right Mag.: Subdot: Y   ENG*   [-32 to 32 / 0 / 0.01dot ]     181-   052   ENG*   [-16384 to 16383 / 0 / 181- 053     2-   Line Position Adj. Result   S. Cor.: 600 Line: Y   ENG*   [-1 to 1 / 0 / 0.001line ]	2-	Line Position Adj. Result	Left Mag.: Subdot: Y	ENG*	[-32 to 32 / 0 /
2-       Line Position Adj. Result       Right Mag.: Subdot: Y       ENG*       [ -32 to 32 / 0 / 0.01dot ]         0.01dot ]       0.01dot ]         2-       Line Position Adj. Result       S. Cor.: 600 Line: Y       ENG*       [ -16384 to 16383 / 0 / 11ine ]         053       1line ]         2-       Line Position Adj. Result       S. Cor.: 600 Sub: Y       ENG*       [ -1 to 1 / 0 / 0.001line ]	181-				0.01dot ]
181- 052  2- Line Position Adj. Result S. Cor.: 600 Line: Y  ENG*  [ -16384 to 16383 / 0 / 1line ]  2- Line Position Adj. Result S. Cor.: 600 Sub: Y  ENG*  [ -1 to 1 / 0 / 0.001line ]	051				
052       S. Cor.: 600 Line: Y       ENG*       [ -16384 to 16383 / 0 / 1 line ]         181-       053       S. Cor.: 600 Sub: Y       ENG*       [ -1 to 1 / 0 / 0.001 line ]	2-	Line Position Adj. Result	Right Mag.: Subdot: Y	ENG*	[-32 to 32 / 0 /
2-       Line Position Adj. Result       S. Cor.: 600 Line: Y       ENG*       [ -16384 to 16383 / 0 / 1 line ]         181-       053         2-       Line Position Adj. Result       S. Cor.: 600 Sub: Y       ENG*       [ -1 to 1 / 0 / 0.001 line ]	181-				0.01dot ]
181- 053  2- Line Position Adj. Result 181- S. Cor.: 600 Sub: Y ENG* [-1 to 1/0/ 0.001line]	052				
053       S. Cor.: 600 Sub: Y       ENG*       [ -1 to 1/0/ 0.001line ]         181-       0.001line ]	2-	Line Position Adj. Result	S. Cor.: 600 Line: Y	ENG*	[ -16384 to 16383 / 0 /
2- Line Position Adj. Result S. Cor.: 600 Sub: Y ENG* [-1 to 1 / 0 / 0.001line]	181-				lline ]
181- 0.001line ]	053				
	2-	Line Position Adj. Result	S. Cor.: 600 Sub: Y	ENG*	[ -1 to 1 / 0 /
054	181-				0.001line ]
	054				

2- 181-	Line Position Adj. Result	S. Cor.: 1200 Line: Y	ENG*	[ -16384 to 16383 / 0 / 1line ]
055				,
2-	Line Position Adj. Result	S. Cor.: 1200 Sub: Y	ENG*	[-1 to 1 / 0 /
181-				0.001line ]
056				
2-	Line Position Adj. Result	S. Cor.: 600 Sub	ENG*	[-1 to 1/0/
181-				0.001line ]
057				
2-	Line Position Adj. Result	S. Cor.: 1200 Sub	ENG*	[ -1 to 1 / 0 /
181-				0.001line ]
059				
2-	Line Position Adj. Result	Skew: Bk	ENG*	[ -5000 to 5000 / 0 /
181-				0.001um ]
061				
2-	Line Position Adj. Result	Line Shift: M	ENG*	[ 0 to 1 / 0 / 1line ]
181-				
072				
2-	Line Position Adj. Result	Line Shift: C	ENG*	[ 0 to 1 / 0 / 1 line ]
181-				
074				
2-	Line Position Adj. Result	Line Shift: Y	ENG*	[ 0 to 1 / 0 / 1 line ]
181-				
076				
2-	Line Position Offset	M. Scan: Standard: Dot: M	ENG*	[ -512 to 511 / 0 /
182-				1dot ]
004	T. D. W. 0.00	N. G. G. J. J. G. J. J.	ED LOCK	5.1.1/0/0011.3
2-	Line Position Offset	M. Scan: Standard: Subdot:	ENG*	[-1 to 1 / 0 / 0.01dot]
182-		M		
005	Line Desition Offset	M. Saani Middler Dati M	ENC*	[ 512 to 511 / 0 /
2-	Line Position Offset	M. Scan: Middle: Dot: M	ENG*	[-512 to 511 / 0 /
182- 006				ldot]
2-	Line Position Offset	M. Scan: Middle: Subdot:	ENG*	[ -1 to 1 / 0 / 0.01dot ]
182-	Line rosition Onset	M. Scan: Middle: Subdot:	ENG.	[-1 to 1 / 0 / 0.01dot]
007		IVI		
2-	Line Position Offset	M. Scan: Low: Dot: M	ENG*	[ -512 to 511 / 0 /
182-	Zane i osition onset	171. Scall. Low. Dot. 171	LING	1dot ]
008				Tuot j
000				

	T		1	T 1
2-	Line Position Offset	M. Scan: Low: Subdot: M	ENG*	[-1 to 1 / 0 / 0.01dot]
182-				
009				
2-	Line Position Offset	M. Scan: Standard: Dot: C	ENG*	[ -512 to 511 / 0 /
182-				1dot ]
010				
2-	Line Position Offset	M. Scan: Standard: Subdot:	ENG*	[ -1 to 1 / 0 / 0.01dot ]
182-		С		
011				
2-	Line Position Offset	M. Scan: Middle: Dot: C	ENG*	[ -512 to 511 / 0 /
182-				1dot ]
012				
2-	Line Position Offset	M. Scan: Middle: Subdot:	ENG*	[ -1 to 1 / 0 / 0.01dot ]
182-		С		
013				
2-	Line Position Offset	M. Scan: Low: Dot: C	ENG*	[ -512 to 511 / 0 /
182-				1dot ]
014				
2-	Line Position Offset	M. Scan: Low: Subdot: C	ENG*	[-1 to 1 / 0 / 0.01dot]
182-				
015				
2-	Line Position Offset	M. Scan: Standard: Dot: Y	ENG*	[ -512 to 511 / 0 /
182-				ldot]
016				
2-	Line Position Offset	M. Scan: Standard: Subdot:	ENG*	[-1 to 1 / 0 / 0.01dot]
182-		Y		
017				
2-	Line Position Offset	M. Scan: Middle: Dot: Y	ENG*	[-512 to 511 / 0 /
182-				1dot ]
018				
2-	Line Position Offset	M. Scan: Middle: Subdot:	ENG*	[-1 to 1 / 0 / 0.01dot]
182-		Y		-
019				
2-	Line Position Offset	M. Scan: Low: Dot: Y	ENG*	[ -512 to 511 / 0 /
182-				1dot ]
020				
2-	Line Position Offset	M. Scan: Low: Subdot: Y	ENG*	[-1 to 1/0/0.01dot]
182-		200000000000000000000000000000000000000		[ - 33 - 7 3 3 3 4 3 4 3 4 3 4 3 4 4 4 4 4 4 4 4
021				
021				

2- 182-	Line Position Offset	S. Scan: Standard: Line: M	ENG*	[ -16384 to 16383 / 0 / 1line ]
022				Time j
2-	Line Position Offset	S. Scan: Standard: Subline:	ENG*	[ -1 to 1 / 0 / 0.01line ]
182-		M		
023				
2-	Line Position Offset	S. Scan: Middle: Line: M	ENG*	[ -16384 to 16383 / 0 /
182-				1line ]
024				
2-	Line Position Offset	S. Scan: Middle: Subline:	ENG*	[-1 to 1 / 0 / 0.01line]
182-		M		
025				
2-	Line Position Offset	S. Scan: Low: Line: M	ENG*	[ -16384 to 16383 / 0 /
182-				1line ]
026				
2-	Line Position Offset	S. Scan: Low: Subline: M	ENG*	[ -1 to 1 / 0 / 0.01line ]
182-				
027				
2-	Line Position Offset	S. Scan: Standard: Line: C	ENG*	[ -16384 to 16383 / 0 /
182-				1line ]
028				
2-	Line Position Offset	S. Scan: Standard: Subline:	ENG*	[ -1 to 1 / 0 / 0.01line ]
182-		С		
029				
2-	Line Position Offset	S. Scan: Middle: Line: C	ENG*	[ -16384 to 16383 / 0 /
182-				1line ]
030				
2-	Line Position Offset	S. Scan: Middle: Subline:	ENG*	[-1 to 1 / 0 / 0.01line]
182-		С		
031				
2-	Line Position Offset	S. Scan: Low: Line: C	ENG*	[ -16384 to 16383 / 0 /
182-				1line ]
032				
2-	Line Position Offset	S. Scan: Low: Subline: C	ENG*	[ -1 to 1 / 0 / 0.01line ]
182-				
033				
2-	Line Position Offset	S. Scan: Standard: Line: Y	ENG*	[-16384 to 16383 / 0 /
182-				1line ]
034				

2-	Line Position Offset	S. Scan: Standard: Subline:	ENG*	[ -1 to 1 / 0 / 0.01line ]
182-		Y		
035				
2-	Line Position Offset	S. Scan: Middle: Line: Y	ENG*	[ -16384 to 16383 / 0 /
182-				lline ]
036				
2-	Line Position Offset	S. Scan: Middle: Subline:	ENG*	[ -1 to 1 / 0 / 0.01line ]
182-		Y		
037				
2-	Line Position Offset	S. Scan: Low: Line: Y	ENG*	[ -16384 to 16383 / 0 /
182-				lline ]
038				
2-	Line Position Offset	S. Scan: Low: Subline: Y	ENG*	[ -1 to 1 / 0 / 0.01line ]
182-				
039				
2-	Line Position Adj. Select	Detection Error Level: um	ENG*	[ -3500 to 3500 / 0 /
190-				1um ]
012				
2-	MUSIC Condition Set	Page: Job End: BW+FC	ENG*	[ 0 to 999 / 500 /
193-				lpage ]
002				
2-	MUSIC Condition Set	Page: Job End: FC	ENG*	[ 0 to 999 / 200 /
193-				lpage ]
003				
2-	MUSIC Condition Set	Page: Interrupt: BW+FC	ENG*	[ 0 to 999 / 200 /
193-				lpage ]
004				
2-	MUSIC Condition Set	Page: Interrupt: FC	ENG*	[ 0 to 999 / 200 /
193-				lpage ]
005	Milata a livi a	D G 11 DW	ENIC#	F.O
2-	MUSIC Condition Set	Page: Standby: BW	ENG*	[ 0 to 999 / 100 /
193-				lpage ]
006	MUCIC Canalida o Car	D C4 II F.C	EMC*	F 0.4- 000 / 100 /
2-	MUSIC Condition Set	Page: Standby: FC	ENG*	[ 0 to 999 / 100 /
193-				lpage ]
007	MUCIC Canalida o Car	T (1)	EMC*	F04-100/5/11 7
2-	MUSIC Condition Set	Temp. Change	ENG*	[ 0 to 100 / 5 / 1deg ]
193-				
008				

2-	MUSIC Condition Set	Temp. Change 2	ENG*	[ 0 to 100 / 10 / 1deg ]
193-				
011				
2-	MUSIC Condition Set	Page: Power ON:BW+FC	ENG*	[ 0 to 999 / 200 /
193-				1page ]
016				
2-	MUSIC Execution Result	Year	ENG*	[ 0 to 99 / 0 / 1year ]
194-				
001				
2-	MUSIC Execution Result	Month	ENG*	[ 1 to 12 / 1 / 1 month ]
194-				
002				
2-	MUSIC Execution Result	Day	ENG*	[ 1 to 31 / 1 / 1day ]
194-				
003				
2-	MUSIC Execution Result	Hour	ENG*	[ 0 to 23 / 0 / 1hour ]
194-				
004				
2-	MUSIC Execution Result	Minute	ENG*	[ 0 to 59 / 0 /
194-				1minute ]
005				
2-	MUSIC Execution Result	Temperature	ENG*	[ 0 to 100 / 0 / 1deg ]
194-				
006				
2-	MUSIC Execution Result	Execution Result	ENG*	[ 0 or 1 / 0 / 1 ]
194-				
007				
2-	MUSIC Execution Result	Number of Execution	ENG*	[ 0 to 999999 / 0 /
194-				1time ]
008				
2-	MUSIC Execution Result	Number of Failure	ENG*	[ 0 to 999999 / 0 /
194-				1time ]
009				
2-	MUSIC Execution Result	Error Result: C	ENG*	[ 0 to 9 / 0 / 1 ]
194-				
010				
2-	MUSIC Execution Result	Error Result: M	ENG*	[0 to 9/0/1]
194-				
011				
	L			_ C

2-	MUSIC Execution Result	Error Result: Y	ENG*	[ 0 to 9 / 0 / 1 ]
194-				[ ]
012				
2-	MUSIC Execution Result	Error Result: Bk	ENG*	[ 0 to 9 / 0 / 1 ]
194-				
013				
2-	LD Power: Fixed: Set	Standard Speed: Bk	ENG*	[ 0 to 200 / 100 / 1% ]
221-				
001				
2-	LD Power: Fixed: Set	Standard Speed: C	ENG*	[ 0 to 200 / 100 / 1% ]
221-				
002				
2-	LD Power: Fixed: Set	Standard Speed: M	ENG*	[ 0 to 200 / 100 / 1% ]
221-				
003				
2-	LD Power: Fixed: Set	Standard Speed: Y	ENG*	[ 0 to 200 / 100 / 1% ]
221-				
004				
2-	LD Power: Fixed: Set	Low Speed: M	ENG*	[ 0 to 200 / 100 / 1% ]
221-				
011				
2-	LD Power: Fixed: Set	Low Speed: Y	ENG*	[ 0 to 200 / 100 / 1% ]
221-				
012				
2-	Develop DC Bias: Fixed	Standard Speed: Bk	ENG*	[ 0 to 800 / 450 / 1-V ]
229-				
001				
2-	Develop DC Bias: Fixed	Standard Speed: C	ENG*	[ 0 to 800 / 450 / 1-V ]
229-				
002	D 1 DCD' E' 1	0, 1, 10, 12,	EMC*	F.O. (1900 / 450 / 1773
2-	Develop DC Bias: Fixed	Standard Speed: M	ENG*	[ 0 to 800 / 450 / 1-V ]
229-				
003	D. J. DCD' E' I	Complement Complete	EMC*	F.O. (1, 000 / 450 / 1, 373
2-	Develop DC Bias: Fixed	Standard Speed: Y	ENG*	[ 0 to 800 / 450 / 1-V ]
229-				
004	DCDITT	Time Interval E	EMC*	F14-200/10/1
2-	PCDU Temperature: Display	Time Interval: Fan	ENG*	[ 1 to 300 / 10 / 1sec ]
241-		Extension Control		
64				

PCDU Temperature: Display					
Distance: PCU: Bk: TS   TS   Operation Env. Log   Distance: PCU: Bk: A   STS   ENG   [0 to 99999999 / 0 / 1mm]	2-	PCDU Temperature: Display	PCDU Temperature	ENG	[ 0 to 70 / 0 / 0.1deg ]
TS Operation Env. Log	241-				
TSS=A-3   Imm   Imm	004				
Distance: PCU: Bk: A-3 <	2-	TS Operation Env. Log	Distance: PCU: Bk:	ENG	[ 0 to 99999999 / 0 /
2- 242- 242- 242- 242- 243- 244.         TS Operation Env. Log         Distance: PCU: Bk: A- 3 <ts<=a< td="">         ENG [0 to 99999999 / 0 / 1mm]           2- 2- 242- 242- 243- 244.         TS Operation Env. Log         Distance: PCU: Bk: A- 3         ENG [0 to 99999999 / 0 / 1mm]           2- 242- 242- 243- 244- 244- 244- 244- 24</ts<=a<>	242-		TS<=A-3		1mm ]
242- 002         3 <ts<=a< td="">         Imm]           2- 2- 242- 003         TS Operation Env. Log         Distance: PCU: Bk: A<ts<=a+3< td="">         ENG         [ 0 to 99999999 / 0 / lmm]           2- 242- 004         TS Operation Env. Log         Distance: PCU: Bk: A+3<ts< td="">         ENG         [ 0 to 99999999 / 0 / lmm]           242- 100         TS Operation Env. Log         Log Clear         ENG         [ 0 or 1/0/1]           242- 100         Environmental Correction: Trans         Current Environmental Display         ENG         [ 0 or 0 / 0 / 0 ]           2- 302- 002         Environmental Correction: Trans         Forced Setting         ENG*         [ 0 or 6 / 0 / 1 ]           2- 302- 003         Environmental Correction: Trans         Absolute Humidity: Threshold 1         ENG*         [ 0 to 100 / 4.5 / 0.01g/m3 ]           2- 4004         Environmental Correction: Trans         Absolute Humidity: Threshold 2         ENG*         [ 0 to 100 / 17.5 / 0.01g/m3 ]           2- 5005         Environmental Correction: Trans         Absolute Humidity: Threshold 3         ENG*         [ 0 to 100 / 24 / 0.01g/m3 ]           2- 6006         Environmental Correction: Trans         Absolute Humidity: Threshold 4         ENG*         [ 0 to 100 / 24 / 0.01g/m3 ]           302- 606         Environmental Correction: Trans         Tenperature: Threshold         ENG*         [ 5 to</ts<></ts<=a+3<></ts<=a<>	001				
002         TS Operation Env. Log         Distance: PCU: Bk: A         ENG [0 to 99999999 / 0 / Imm]           242- 003         TS Operation Env. Log         Distance: PCU: Bk: A+3         ENG [0 to 99999999 / 0 / Imm]           242- 004         TS Operation Env. Log         Log Clear         ENG [0 or 1 / 0 / 1]           242- 004         Environmental Correction:Trans         Current Environmental Environmental Display         ENG [0 or 0 / 0 / 0]           20- 001         Environmental Correction:Trans         Forced Setting         ENG* [0 to 100 / 4.5 / 0.01g/m3]           302- 002         Environmental Correction:Trans         Absolute Humidity:Threshold 1         ENG* [0 to 100 / 9 / 0.01g/m3]           2- Environmental Correction:Trans 302- 004         Absolute Humidity:Threshold 2         ENG* [0 to 100 / 17.5 / 0.01g/m3]           2- Environmental Correction:Trans 302- 004         Absolute Humidity:Threshold 3         ENG* [0 to 100 / 17.5 / 0.01g/m3]           2- Environmental Correction:Trans 302- 005         Absolute Humidity:Threshold 3         ENG* [0 to 100 / 24 / 0.01g/m3]           2- Environmental Correction:Trans 302- 006         Absolute Humidity:Threshold 4         ENG* [0 to 100 / 24 / 0.01g/m3]           2- Environmental Correction:Trans 302- 006         Tenperature:Threshold 4         ENG* [0 to 100 / 24 / 0.01g/m3]	2-	TS Operation Env. Log	Distance: PCU: Bk: A-	ENG	[ 0 to 99999999 / 0 /
TS Operation Env. Log	242-		3 <ts<=a< td=""><td></td><td>1mm ]</td></ts<=a<>		1mm ]
242- 003         A <ts<=a+3< td="">         Imm]           2- 242- 004         TS Operation Env. Log         Distance: PCU: Bk: A+3<ts< td="">         ENG         [0 to 99999999 / 0 / Imm]           2- 242- 100         TS Operation Env. Log         Log Clear         ENG         [0 or 1 / 0 / 1]           2- 242- 100         Environmental Correction:Trans         Current Environmental Display         ENG         [0 or 0 / 0 / 0]           2- 302- 002         Environmental Correction:Trans         Forced Setting         ENG*         [0 to 100 / 4.5 / 0.01g/m3]           2- 2- 303- 2- 304         Environmental Correction:Trans         Absolute Humidity:Threshold 1         ENG*         [0 to 100 / 9 / 0.01g/m3]           2- 4- 4- 4- 4- 4- 4- 4- 4- 4- 4- 4- 4- 4-</ts<></ts<=a+3<>	002				
Distance: PCU: Bk:	2-	TS Operation Env. Log	Distance: PCU: Bk:	ENG	[ 0 to 99999999 / 0 /
Distance: PCU: Bk: A+3 <ts< td=""><td>242-</td><td></td><td>A<ts<=a+3< td=""><td></td><td>1mm ]</td></ts<=a+3<></td></ts<>	242-		A <ts<=a+3< td=""><td></td><td>1mm ]</td></ts<=a+3<>		1mm ]
242- 004         A+3 <ts< td="">         Imm ]           2- 242- 100         TS Operation Env. Log         Log Clear         ENG         [ 0 or 1/0 / 1 ]           2- 302- 001         Environmental Correction: Trans         Current Environmental Display         ENG         [ 0 or 0/0 / 0 ]           2- 302- 002         Environmental Correction: Trans         Forced Setting         ENG*         [ 0 to 100 / 4.5 / 0.01g/m3 ]           2- 302- 003         Environmental Correction: Trans         Absolute Humidity: Threshold 1         ENG*         [ 0 to 100 / 9 / 0.01g/m3 ]           2- 302- 004         Environmental Correction: Trans         Absolute Humidity: Threshold 2         ENG*         [ 0 to 100 / 17.5 / 0.01g/m3 ]           2- 302- 006         Environmental Correction: Trans         Absolute Humidity: Threshold 4         ENG*         [ 0 to 100 / 24 / 0.01g/m3 ]           2- 302- 006         Environmental Correction: Trans         Temperature: Threshold 4         ENG*         [ -5 to 30 / 10 / 1deg ]</ts<>	003				
Display   Environmental Correction: Trans   Current Environmental   ENG   [ 0 or 1/0/1 ]   ENG   Display   Environmental Correction: Trans   Forced Setting   ENG*   [ 0 or 6/0/1 ]   ENG*   [ 0 or 6/0/1 ]   ENG*   ENG*	2-	TS Operation Env. Log	Distance: PCU: Bk:	ENG	[ 0 to 99999999 / 0 /
2-242-100   Environmental Correction:Trans   Current Environmental   ENG   [ 0 or 0 / 0 / 0 ]	242-		A+3 <ts< td=""><td></td><td>1mm ]</td></ts<>		1mm ]
242-100         Environmental Correction:Trans         Current Environmental Display         ENG         [ 0 or 0 / 0 / 0 ]           302-001         Environmental Correction:Trans         Forced Setting         ENG*         [ 0 or 6 / 0 / 1 ]           302-002         Environmental Correction:Trans         Absolute         ENG*         [ 0 to 100 / 4.5 / 0.01g/m3 ]           302-003         Environmental Correction:Trans         Absolute         ENG*         [ 0 to 100 / 9 / 0.01g/m3 ]           2-         Environmental Correction:Trans         Absolute         ENG*         [ 0 to 100 / 17.5 / 0.01g/m3 ]           302-005         Humidity:Threshold 3         ENG*         [ 0 to 100 / 24 / 0.01g/m3 ]           2-         Environmental Correction:Trans         Absolute         ENG*         [ 0 to 100 / 24 / 0.01g/m3 ]           302-006         Environmental Correction:Trans         Absolute         ENG*         [ 0 to 100 / 24 / 0.01g/m3 ]           2-         Environmental Correction:Trans         Absolute         ENG*         [ 0 to 100 / 24 / 0.01g/m3 ]           302-006         Environmental Correction:Trans         Temperature:Threshold         ENG*         [ -5 to 30 / 10 / 1deg ]	004				
Environmental Correction: Trans   Current Environmental   ENG   [ 0 or 0 / 0 / 0 ]	2-	TS Operation Env. Log	Log Clear	ENG	[ 0 or 1 / 0 / 1 ]
Environmental Correction: Trans   Current Environmental   Display	242-				
Display   Disp	100				
Environmental Correction:Trans   Forced Setting   ENG*   [0 or 6 / 0 / 1]	2-	Environmental Correction:Trans	Current Environmental	ENG	[ 0 or 0 / 0 / 0 ]
2- Environmental Correction:Trans Forced Setting ENG* [ 0 or 6 / 0 / 1 ] 302- 002  2- Environmental Correction:Trans Absolute Humidity:Threshold 1  2- Environmental Correction:Trans Absolute Humidity:Threshold 2  302- 004  2- Environmental Correction:Trans Absolute Humidity:Threshold 2  Environmental Correction:Trans Absolute Humidity:Threshold 3  2- Environmental Correction:Trans Absolute Humidity:Threshold 3  2- Environmental Correction:Trans Absolute Humidity:Threshold 3  2- Environmental Correction:Trans Absolute ENG* [ 0 to 100 / 17.5 / 0.01g/m3 ]  2- Environmental Correction:Trans Absolute ENG* [ 0 to 100 / 24 / 0.01g/m3 ]  2- Environmental Correction:Trans Absolute ENG* [ -5 to 30 / 10 / 1deg ]  302- 006	302-		Display		
302-   002	001				
Environmental Correction:Trans   Absolute   Humidity:Threshold 1   ENG*   [ 0 to 100 / 4.5 / 0.01g/m3 ]	2-	Environmental Correction:Trans	Forced Setting	ENG*	[ 0 or 6 / 0 / 1 ]
2- Environmental Correction:Trans Absolute Humidity:Threshold 1  2- Environmental Correction:Trans Absolute Humidity:Threshold 2  2- Environmental Correction:Trans Absolute Humidity:Threshold 2  2- Environmental Correction:Trans Absolute Humidity:Threshold 3  302- 004  2- Environmental Correction:Trans Absolute Humidity:Threshold 3  2- Environmental Correction:Trans Absolute Humidity:Threshold 3  2- Environmental Correction:Trans Absolute Humidity:Threshold 4  302- 006  2- Environmental Correction:Trans Temperature:Threshold ENG* [-5 to 30 / 10 / 1deg]  302- 006	302-				
Humidity:Threshold 1  2- Environmental Correction:Trans Absolute Humidity:Threshold 2  2- Environmental Correction:Trans Absolute Humidity:Threshold 2  Environmental Correction:Trans Absolute Humidity:Threshold 3  2- Environmental Correction:Trans Absolute Humidity:Threshold 3  2- Environmental Correction:Trans Absolute Humidity:Threshold 4  2- Environmental Correction:Trans Absolute Humidity:Threshold 4  2- Environmental Correction:Trans Absolute Humidity:Threshold 4  2- Environmental Correction:Trans Temperature:Threshold ENG* [-5 to 30 / 10 / 1deg]  302- Brown Environmental Correction:Trans Temperature:Threshold ENG* [-5 to 30 / 10 / 1deg]	002				
2- Environmental Correction:Trans Absolute Humidity:Threshold 2 ENG* [ 0 to 100 / 9 / 0.01g/m3 ]  2- Environmental Correction:Trans Absolute Humidity:Threshold 2 ENG* [ 0 to 100 / 17.5 / 0.01g/m3 ]  302- Humidity:Threshold 3 ENG* [ 0 to 100 / 17.5 / 0.01g/m3 ]  2- Environmental Correction:Trans Absolute Humidity:Threshold 4 ENG* [ 0 to 100 / 24 / 0.01g/m3 ]  302- Humidity:Threshold 4 ENG* [ -5 to 30 / 10 / 1deg ]  302- Environmental Correction:Trans Temperature:Threshold ENG* [ -5 to 30 / 10 / 1deg ]	2-	Environmental Correction:Trans	Absolute	ENG*	[ 0 to 100 / 4.5 /
2- Environmental Correction: Trans Absolute Humidity: Threshold 2	302-		Humidity:Threshold 1		0.01g/m3 ]
Humidity:Threshold 2  Environmental Correction:Trans  Absolute Humidity:Threshold 3  ENG*  [ 0 to 100 / 17.5 / 0.01g/m3 ]  0.01g/m3 ]  Humidity:Threshold 3  ENG*  ENG*  [ 0 to 100 / 24 / 0.01g/m3 ]  ENG*  ENG*  [ 0 to 100 / 24 / 0.01g/m3 ]  ENG*  ENG*  [ 0 to 100 / 24 / 0.01g/m3 ]  ENG*  ENG*  [ 0 to 100 / 24 / 0.01g/m3 ]  ENG*  [ -5 to 30 / 10 / 1deg ]	003				
2- Environmental Correction:Trans Absolute ENG* [ 0 to 100 / 17.5 / 0.01g/m3 ]  2- Environmental Correction:Trans Absolute Humidity:Threshold 3  2- Environmental Correction:Trans Absolute Humidity:Threshold 4  2- Environmental Correction:Trans Temperature:Threshold ENG* [ -5 to 30 / 10 / 1deg ]  302-	2-	Environmental Correction:Trans	Absolute	ENG*	[ 0 to 100 / 9 /
2- Environmental Correction: Trans Absolute Humidity: Threshold 3	302-		Humidity:Threshold 2		0.01g/m3 ]
Humidity:Threshold 3  2- Environmental Correction:Trans O06  Environmental Correction:Trans Absolute Humidity:Threshold 4  0.01g/m3 ]  0.01g/m3 ]  0.01g/m3 ]  ENG* Figure 1.5 to 30 / 10 / 1deg ]  1.5 to 30 / 10 / 1deg ]	004				
2- Environmental Correction:Trans Absolute Humidity:Threshold 4	2-	Environmental Correction:Trans	Absolute	ENG*	[ 0 to 100 / 17.5 /
2- Environmental Correction:Trans Absolute Humidity:Threshold 4	302-		Humidity:Threshold 3		0.01g/m3 ]
Humidity:Threshold 4 0.01g/m3 ]  2- Environmental Correction:Trans Temperature:Threshold ENG* [-5 to 30 / 10 / 1deg ]	005				
006  2- Environmental Correction:Trans Temperature:Threshold ENG* [-5 to 30 / 10 / 1deg] 302-	2-	Environmental Correction:Trans	Absolute	ENG*	[ 0 to 100 / 24 /
2- Environmental Correction:Trans Temperature:Threshold ENG* [ -5 to 30 / 10 / 1deg ] 302-	302-		Humidity:Threshold 4		0.01g/m3 ]
302-	006				
302-	2-	Environmental Correction:Trans	Temperature:Threshold	ENG*	[ -5 to 30 / 10 / 1deg ]
007	302-				
	007				

2	Time Lange Competies	Current Div. Dl.	EMC*	[0 to 2 / 0 / 1 ]
2-	Time-Lapse Correction	Current Div Bk	ENG*	[ 0 to 3 / 0 / 1 ]
303-				
001		G		50.0000
2-	Time-Lapse Correction	Current Div C	ENG*	[ 0 to 3 / 0 / 1 ]
303-				
002				
2-	Time-Lapse Correction	Current Div M	ENG*	[ 0 to 3 / 0 / 1 ]
303-				
003				
2-	Time-Lapse Correction	Current Div Y	ENG*	[ 0 to 3 / 0 / 1 ]
303-				
004				
2-	Time-Lapse Correction	Correction Threshold 1_Bk	ENG*	[ 0 to 600000 / 5000 /
303-				10page ]
005				
2-	Time-Lapse Correction	Correction Threshold	ENG*	[ 0 to 600000 / 5000 /
303-		1_Color		10page ]
006				
2-	Time-Lapse Correction	Correction Threshold 2_Bk	ENG*	[ 0 to 600000 / 20000
303-				/ 10page ]
007				
2-	Time-Lapse Correction	Correction Threshold	ENG*	[ 0 to 600000 / 20000
303-		2_Color		/ 10page ]
008				
2-	Time-Lapse Correction	Correction Threshold 3_Bk	ENG*	[ 0 to 600000 / 50000
303-				/ 10page ]
009				
2-	Time-Lapse Correction	Correction Threshold	ENG*	[ 0 to 600000 / 50000
303-		3_Color		/ 10page ]
010				
2-	Time-Lapse Correction:Transfer	Threshold 1	ENG*	[ 0 to 999999999 / 0 /
304-				1mm ]
001				
2-	Time-Lapse Correction:Transfer	Threshold 2	ENG*	[ 0 to 999999999 / 0 /
304-				1mm ]
002				
2-	Time-Lapse Correction:Transfer	Threshold 3	ENG*	[ 0 to 999999999 / 0 /
304-				1mm ]
003				
005				

2- 304-	Time-Lapse Correction:Transfer	Threshold 4	ENG*	[ 0 to 999999999 / 0 / 1mm ]
004				
2-	Vc Correction	Threshold 1	ENG*	[ 0 to 2000 / 450 / 10-
305-				V ]
001				
2-	Vc Correction	Threshold 2	ENG*	[ 0 to 2000 / 600 / 10-
305-				V ]
002				
2-	Vc Correction	Threshold 3	ENG*	[ 0 to 2000 / 750 / 10-
305-				V ]
003				
2-	Vc Correction	Threshold 4	ENG*	[ 0 to 2000 / 900 / 10-
305-				V ]
004				
2-	Paper Size Correction	Threshold 1	ENG*	[ 0 to 250 / 194 /
308-				1mm ]
001				
2-	Paper Size Correction	Threshold 2	ENG*	[ 0 to 250 / 165 /
308-				1mm ]
002				
2-	Paper Size Correction	Threshold 3	ENG*	[ 0 to 250 / 139 /
308-				1mm ]
003				
2-	Non Image Area: Bias	Image Transfer	ENG*	[ 0 to 2000 / 100 /
311-				10% ]
001				
2-	Non Image Area: Bias	Paper Transfer	ENG*	[ 0 to 2100 / 500 / 10-
311-				V ]
003		_		
2-	Power ON: Bias	Image Transfer	ENG*	[ 0 to 2100 / 1400 /
316-				10V ]
001				
2-	Transfer Roller CL: Bias	Neg. Bias: Befor and After	ENG*	[ 0 to 2100 / 250 / 10-
326-		JOB		V ]
001				
2-	Transfer Roller CL: Bias	Pos. Bias Cor Coef: Befor	ENG*	[ 10 to 995 / 100 /
326-		and After JOB		10% ]
002				

Transfer Roller CL; Bias   Neg. Bias; After ProControl   ENG*   [0 to 2100/1000/ 100-V]		T		1	T
DOIS   Common: BW: Bias   Direction   Di	2-	Transfer Roller CL: Bias	Neg. Bias: After ProControl	ENG*	[ 0 to 2100 / 1000 /
2-   Transfer Roller CL: Bias   Pos. Bias Corr Coef: After   ProCon   10%					10-V ]
2-   Transfer Roller CL: Envir   Neg. Bias: Dirt Prevention   ENG*   [0 to 2100 / 500 / 10- V]					
DOI:   Paraster Roller CL: Bias   Neg. Bias: Dirt Prevention   ENG*   [0 to 2100 / 500 / 10- V]	2-	Transfer Roller CL: Bias	Pos. Bias Corr Coef: After	ENG*	[ 10 to 995 / 100 /
2-   Transfer Roller CL: Bias   Neg. Bias: Dirt Prevention   ENG*   [0 to 2100 / 500 / 10-    V]	326-		ProCon		10% ]
326-   2-   Transfer Roller CL: Envir   326-   327-   32	004				
Dots   Common: BW: Bias   Image Transfer: Std Spd: 2   ENG*   I to 100 / 9 / 1   10V   1	2-	Transfer Roller CL: Bias	Neg. Bias: Dirt Prevention	ENG*	[ 0 to 2100 / 500 / 10-
2-   326-   1	326-				V ]
326-   101	005				
O11	2-	Transfer Roller CL: Envir	Neg. Bias: Befor and After	ENG*	[ 1 to 100 / 9 / 1 ]
2-	326-		JOB		
326-   013	011				
O13	2-	Transfer Roller CL: Envir	Neg. Bias: After ProControl	ENG*	[ 1 to 100 / 2 / 1 ]
2-	326-				
326-   015	013				
O15	2-	Transfer Roller CL: Envir	Neg. Bias: Dirt Prevention	ENG*	[ 1 to 100 / 9 / 1 ]
2-   PTR Cleaning After ProCon   ON/OFF   ENG*   [0 or 1/0/1]   0: OFF   1: ON	326-				
327-   001	015				
O01   Common: BW: Bias	2-	PTR Cleaning After ProCon	ON/OFF	ENG*	[ 0 or 1 / 0 / 1 ]
Common: BW: Bias   Image Transfer: Standard   ENG*   [ 0 to 2100 / 1400 / 10V ]	327-				0: OFF
Speed   Spee	001				1: ON
Common: BW: Bias   Image Transfer: Middle   ENG*   [ 0 to 2100 / 1400 / 10V ]	2-	Common: BW: Bias	Image Transfer: Standard	ENG*	[ 0 to 2100 / 1400 /
2-         Common: BW: Bias         Image Transfer: Middle Speed         ENG* [0 to 2100 / 1400 / 10V]           351- 002         Common: BW: Bias         Image Transfer: Low Speed         ENG* [0 to 2100 / 1300 / 10V]           351- 003         Common: BW: Bias         Image Transfer: Std Spd:2         ENG* [0 to 2100 / 1400 / 10V]           351- 201         Common: FC: Bias         Image Transfer: Std Spd: Bk         ENG* [0 to 2100 / 1400 / 10V]           2- 2- 2- 2- 2- 2- 2- 2- 357- 201         Common: FC: Bias         Image Transfer: Std Spd: C         ENG* [0 to 2100 / 1400 / 10V]           357- 001         ENG* [0 to 2100 / 1400 / 10V]         [0 to 2100 / 1400 / 10V]	351-		Speed		10V ]
Speed   10V     10V	001				
Common: BW: Bias   Image Transfer: Low Speed   ENG*   [ 0 to 2100 / 1300 / 10V ]	2-	Common: BW: Bias	Image Transfer: Middle	ENG*	[ 0 to 2100 / 1400 /
2-       Common: BW: Bias       Image Transfer: Low Speed       ENG*       [ 0 to 2100 / 1300 / 10V ]         351-003       Common: BW: Bias       Image Transfer: Std Spd:2       ENG*       [ 0 to 2100 / 1400 / 10V ]         351-201       Common: FC: Bias       Image Transfer: Std Spd: Bk       ENG*       [ 0 to 2100 / 1400 / 10V ]         357-001       Common: FC: Bias       Image Transfer: Std Spd: C       ENG*       [ 0 to 2100 / 1400 / 10V ]	351-		Speed		10V ]
351- 003  Common: BW: Bias  Image Transfer: Std Spd:2  Common: FC: Bias  Image Transfer: Std Spd: Bk  ENG*  [ 0 to 2100 / 1400 / 10V ]  [ 0 to 2100 / 1400 / 10V ]  The state of the state	002				
003       Image Transfer: Std Spd:2       ENG*       [ 0 to 2100 / 1400 / 10V ]         351-201       Image Transfer: Std Spd: 2       ENG*       [ 0 to 2100 / 1400 / 10V ]         2-357-001       Image Transfer: Std Spd: C       ENG*       [ 0 to 2100 / 1400 / 10V ]         2-357-1001       Image Transfer: Std Spd: C       ENG*       [ 0 to 2100 / 1400 / 10V ]	2-	Common: BW: Bias	Image Transfer: Low Speed	ENG*	[ 0 to 2100 / 1300 /
2-       Common: BW: Bias       Image Transfer: Std Spd:2       ENG*       [ 0 to 2100 / 1400 / 10V ]         351-201       Common: FC: Bias       Image Transfer: Std Spd: Bk       ENG*       [ 0 to 2100 / 1400 / 10V ]         357-001       Common: FC: Bias       Image Transfer: Std Spd: C       ENG*       [ 0 to 2100 / 1400 / 10V ]         357-1001       Townside Transfer: Std Spd: C       ENG*       [ 0 to 2100 / 1400 / 10V ]	351-				10V ]
351- 201  2- Common: FC: Bias Image Transfer: Std Spd: Bk ENG* [ 0 to 2100 / 1400 / 10V ]  2- Common: FC: Bias Image Transfer: Std Spd: C ENG* [ 0 to 2100 / 1400 / 10V ]	003				
2- Common: FC: Bias Image Transfer: Std Spd: Bk ENG* [ 0 to 2100 / 1400 / 10V ]  2- Common: FC: Bias Image Transfer: Std Spd: C ENG* [ 0 to 2100 / 1400 / 10V ]	2-	Common: BW: Bias	Image Transfer: Std Spd:2	ENG*	[ 0 to 2100 / 1400 /
2-       Common: FC: Bias       Image Transfer: Std Spd: Bk       ENG*       [ 0 to 2100 / 1400 / 10V ]         357-       001       Image Transfer: Std Spd: C       ENG*       [ 0 to 2100 / 1400 / 10V ]         2-       Common: FC: Bias       Image Transfer: Std Spd: C       ENG*       [ 0 to 2100 / 1400 / 10V ]	351-				10V ]
357- 001	201				
001       2-       Common: FC: Bias       Image Transfer: Std Spd: C       ENG*       [ 0 to 2100 / 1400 / 10V ]         357-       10V ]	2-	Common: FC: Bias	Image Transfer: Std Spd: Bk	ENG*	[ 0 to 2100 / 1400 /
2- Common: FC: Bias Image Transfer: Std Spd: C ENG* [ 0 to 2100 / 1400 / 10V ]	357-				10V ]
357- 10V]	001				
	2-	Common: FC: Bias	Image Transfer: Std Spd: C	ENG*	[ 0 to 2100 / 1400 /
002	357-				10V ]
	002				

2-	Common: FC: Bias	Image Transfer: Std Spd: M	ENG*	[ 0 to 2100 / 1400 /
357-				10V]
2-	Common: FC: Bias	Image Transfer: Std Spd: Y	ENG*	[ 0 to 2100 / 1400 /
357-	Common, PC. Dias	image transfer. Std Spd. 1	ENG	10V]
004				10 V ]
2-	Common: FC: Bias	Image Transfer: Middle	ENG*	[ 0 to 2100 / 1400 /
357-	Common. 1 C. Dias	Spd: Bk	LIVO	10V]
005		opu. Dk		10 7
2-	Common: FC: Bias	Image Transfer: Middle	ENG*	[ 0 to 2100 / 1400 /
357-	Common, 1 C. Blus	Spd: C	Live	10V]
006		Spui. C		1011
2-	Common: FC: Bias	Image Transfer: Middle	ENG*	[ 0 to 2100 / 1400 /
357-		Spd: M		10V]
007		1		,
2-	Common: FC: Bias	Image Transfer: Middle	ENG*	[ 0 to 2100 / 1400 /
357-		Spd: Y		10V ]
008				
2-	Common: FC: Bias	Image Transfer: Low Spd:	ENG*	[ 0 to 2100 / 1300 /
357-		Bk		10V ]
009				
2-	Common: FC: Bias	Image Transfer: Low Spd: C	ENG*	[ 0 to 2100 / 1300 /
357-				10V ]
010				
2-	Common: FC: Bias	Image Transfer: Low Spd:	ENG*	[ 0 to 2100 / 1300 /
357-		M		10V ]
011				
2-	Common: FC: Bias	Image Transfer: Low Spd: Y	ENG*	[ 0 to 2100 / 1300 /
357-				10V ]
012				
2-	Common:BW:Env.CorrectionTable	Image Transfer: Standard	ENG*	[ 1 to 100 / 6 / 1 ]
360-		Spd		
001				
2-	Common:BW:Env.CorrectionTable	Image Transfer: Middle Spd	ENG*	[ 1 to 100 / 6 / 1 ]
360-				
002				
2-	Common:BW:Env.CorrectionTable	Image Transfer: Low Spd	ENG*	[ 1 to 100 / 6 / 1 ]
360-				
003				

			T	
2-	Common:FC:Env.CorrectionTable	ImageTransfer: Std Spd: Bk	ENG*	[ 1 to 100 / 6 / 1 ]
360-				
004				
2-	Common:FC:Env.CorrectionTable	ImageTransfer: Std Spd: C	ENG*	[ 1 to 100 / 5 / 1 ]
360-				
005				
2-	Common:FC:Env.CorrectionTable	ImageTransfer: Std Spd: M	ENG*	[ 1 to 100 / 5 / 1 ]
360-				
006				
2-	Common:FC:Env.CorrectionTable	ImageTransfer: Std Spd: Y	ENG*	[ 1 to 100 / 5 / 1 ]
360-				
007				
2-	Common:FC:Env.CorrectionTable	ImageTransfer: Middle Spd:	ENG*	[ 1 to 100 / 6 / 1 ]
360-		Bk		
008				
2-	Common:FC:Env.CorrectionTable	ImageTransfer: Middle Spd:	ENG*	[ 1 to 100 / 5 / 1 ]
360-		С		
009				
2-	Common:FC:Env.CorrectionTable	ImageTransfer: Middle Spd:	ENG*	[ 1 to 100 / 5 / 1 ]
360-		M		
010				
2-	Common:FC:Env.CorrectionTable	ImageTransfer: Middle Spd:	ENG*	[ 1 to 100 / 5 / 1 ]
360-		Y		
011				
2-	Common:FC:Env.CorrectionTable	Image Transfer: Low Spd:	ENG*	[1 to 100 / 6 / 1]
360-		Bk		
012				
2-	Common:FC:Env.CorrectionTable	Image Transfer: Low Spd: C	ENG*	[ 1 to 100 / 5 / 1 ]
360-				
013				
2-	Common:FC:Env.CorrectionTable	Image Transfer: Low Spd:	ENG*	[ 1 to 100 / 5 / 1 ]
360-		M		
014				
2-	Common:FC:Env.CorrectionTable	Image Transfer: Low Spd: Y	ENG*	[ 1 to 100 / 5 / 1 ]
360-		_		_
015				
2-	Time-Lapse Correction: Div 1	Standard Speed: Bk	ENG*	[ 1 to 60 / 1 / 1 ]
361-		•		
001				
	1	l	L	1

2-	Time-Lapse Correction: Div 1	Middle Speed: Bk	ENG*	[ 1 to 60 / 1 / 1 ]
361-				
002				
2-	Time-Lapse Correction: Div 1	Low Speed: Bk	ENG*	[ 1 to 60 / 1 / 1 ]
361-				
003				
2-	Time-Lapse Correction: Div 1	Standard Speed: FC: Bk	ENG*	[ 1 to 60 / 1 / 1 ]
361-				
004				
2-	Time-Lapse Correction: Div 1	Standard Speed: FC: C	ENG*	[ 1 to 60 / 1 / 1 ]
361-				
005				
2-	Time-Lapse Correction: Div 1	Standard Speed: FC: M	ENG*	[ 1 to 60 / 1 / 1 ]
361-				
006				
2-	Time-Lapse Correction: Div 1	Standard Speed: FC: Y	ENG*	[ 1 to 60 / 1 / 1 ]
361-				
007				
2-	Time-Lapse Correction: Div 1	Middle Speed: FC: Bk	ENG*	[ 1 to 60 / 1 / 1 ]
361-				
008				
2-	Time-Lapse Correction: Div 1	Middle Speed: FC: C	ENG*	[ 1 to 60 / 1 / 1 ]
361-				
009				
2-	Time-Lapse Correction: Div 1	Middle Speed: FC: M	ENG*	[ 1 to 60 / 1 / 1 ]
361-				
010				
2-	Time-Lapse Correction: Div 1	Middle Speed: FC: Y	ENG*	[ 1 to 60 / 1 / 1 ]
361-				
011				
2-	Time-Lapse Correction: Div 1	Low Speed: FC: Bk	ENG*	[ 1 to 60 / 1 / 1 ]
361-				
012				
2-	Time-Lapse Correction: Div 1	Low Speed: FC: C	ENG*	[ 1 to 60 / 1 / 1 ]
361-				
013				
2-	Time-Lapse Correction: Div 1	Low Speed: FC: M	ENG*	[ 1 to 60 / 1 / 1 ]
361-				
014				

2-	Time-Lapse Correction: Div 1	Low Speed: FC: Y	ENG*	[ 1 to 60 / 1 / 1 ]
361-	Time-Lapse Correction. Div 1	Low speed. FC. 1	ENG	[100/1/1]
015				
2-	Time-Lapse Correction: Div 2	Standard Speed: Bk	ENG*	[1 to 60 / 1 / 1]
362-	Time-Lapse Correction. Div 2	Standard Speed. Bk	ENG.	
001				
2-	Time-Lapse Correction: Div 2	Middle Speed: Dlr	ENG*	[1 to 60 / 1 / 1 ]
362-	Time-Lapse Correction. Div 2	Middle Speed: Bk	ENG.	[ 1 to 60 / 1 / 1 ]
002				
2-	Time Lange Competions Div 2	Lavy Charde Dir	ENG*	[1 to 60 / 1 / 1 ]
	Time-Lapse Correction: Div 2	Low Speed: Bk	ENG	[ 1 to 60 / 1 / 1 ]
362-				
2-	Time Lange Competions Div 2	Standard Smood: EC: Dlr	ENC*	[1+060/1/1]
	Time-Lapse Correction: Div 2	Standard Speed: FC: Bk	ENG*	[ 1 to 60 / 1 / 1 ]
362-				
	Time Lange Competions Div 2	Standard Smard: EC: C	ENC*	[1+060/1/1]
2-	Time-Lapse Correction: Div 2	Standard Speed: FC: C	ENG*	[ 1 to 60 / 1 / 1 ]
362-				
005	T' D' 2	Constant Constant	ENICY	F14. (0 / 1 / 1 ]
2-	Time-Lapse Correction: Div 2	Standard Speed: FC: M	ENG*	[ 1 to 60 / 1 / 1 ]
362-				
	Time Lange Competions Div 2	Standard Smard, EC, V	ENC*	[1+060/1/1]
2- 362-	Time-Lapse Correction: Div 2	Standard Speed: FC: Y	ENG*	[ 1 to 60 / 1 / 1 ]
007				
	Time I are Commetical Div 2	M: 141- C 1. EC. DI-	ENC*	[14-70/1/1]
2-	Time-Lapse Correction: Div 2	Middle Speed: FC: Bk	ENG*	[ 1 to 60 / 1 / 1 ]
362-				
008	Time Lange Competions Div 2	Middle Speed, EC. C	ENC*	[1+060/1/1]
2-	Time-Lapse Correction: Div 2	Middle Speed: FC: C	ENG*	[ 1 to 60 / 1 / 1 ]
362- 009				
	Time Lange Competions Div 2	Middle Speed, EC, M	ENC*	[1+060/1/1]
2-	Time-Lapse Correction: Div 2	Middle Speed: FC: M	ENG*	[ 1 to 60 / 1 / 1 ]
362-				
010	Time I amae Camarii	M:441- C1- EC V	ENIC	[1 to 60 / 1 / 1 ]
2-	Time-Lapse Correction: Div 2	Middle Speed: FC: Y	ENG*	[ 1 to 60 / 1 / 1 ]
362-				
011	Time I am Continue Co	I. G. 1 EG Pl	EMC*	F14. (0/1/13
2-	Time-Lapse Correction: Div 2	Low Speed: FC: Bk	ENG*	[ 1 to 60 / 1 / 1 ]
362-				
012				

2-   Time-Lapse Correction: Div 2   Low Speed: FC: C   ENG*   [1 to 60/1/1]					
Display   Compared	2-	Time-Lapse Correction: Div 2	Low Speed: FC: C	ENG*	[ 1 to 60 / 1 / 1 ]
2-   Time-Lapse Correction: Div 2   Low Speed: FC: M   ENG*   [1 to 60 / 1 / 1]	362-				
362-   014     2-   Time-Lapse Correction: Div 2   Low Speed: FC: Y   ENG*   [1 to 60 / 1 / 1]   362-   015     2-   363-   363-   001     2-   7   363-	013				
D14	2-	Time-Lapse Correction: Div 2	Low Speed: FC: M	ENG*	[ 1 to 60 / 1 / 1 ]
2-   Time-Lapse Correction: Div 2   Low Speed: FC: Y   ENG*   [1 to 60/1/1]	362-				
362-   015	014				
O15   Career   Correction: Div 3   Standard Speed: Bk   ENG*   [1 to 60 / 1 / 1]   Career	2-	Time-Lapse Correction: Div 2	Low Speed: FC: Y	ENG*	[ 1 to 60 / 1 / 1 ]
2-   Time-Lapse Correction: Div 3   Standard Speed: Bk   ENG*   [1 to 60 / 1 / 1]	362-				
363-  001	015				
O01	2-	Time-Lapse Correction: Div 3	Standard Speed: Bk	ENG*	[ 1 to 60 / 1 / 1 ]
2-   Time-Lapse Correction: Div 3   Middle Speed: Bk   ENG*   [1 to 60 / 1 / 1]	363-				
363-   002	001				
DO2	2-	Time-Lapse Correction: Div 3	Middle Speed: Bk	ENG*	[ 1 to 60 / 1 / 1 ]
2-   Time-Lapse Correction: Div 3   Low Speed: Bk   ENG*   [1 to 60/1/1]     363-   003       2-   Time-Lapse Correction: Div 3   Standard Speed: FC: Bk   ENG*   [1 to 60/1/1]     363-   004       2-   Time-Lapse Correction: Div 3   Standard Speed: FC: C   ENG*   [1 to 60/1/1]     363-   005       2-   Time-Lapse Correction: Div 3   Standard Speed: FC: M   ENG*   [1 to 60/1/1]     363-   006       2-   Time-Lapse Correction: Div 3   Standard Speed: FC: Y   ENG*   [1 to 60/1/1]     363-   007       2-   Time-Lapse Correction: Div 3   Middle Speed: FC: Bk   ENG*   [1 to 60/1/1]     363-   008       2-   Time-Lapse Correction: Div 3   Middle Speed: FC: C   ENG*   [1 to 60/1/1]     363-   009       363-   Time-Lapse Correction: Div 3   Middle Speed: FC: M   ENG*   [1 to 60/1/1]     363-   009       363-   1 to 60/1/1]   1 to 60/1/1]	363-				
363-   003   2-   Time-Lapse Correction: Div 3   Standard Speed: FC: Bk   ENG*   [1 to 60 / 1 / 1]   363-   004   2-   Time-Lapse Correction: Div 3   Standard Speed: FC: C   ENG*   [1 to 60 / 1 / 1]   363-   005   2-   Time-Lapse Correction: Div 3   Standard Speed: FC: M   ENG*   [1 to 60 / 1 / 1]   363-   006   2-   Time-Lapse Correction: Div 3   Standard Speed: FC: Y   ENG*   [1 to 60 / 1 / 1]   363-   007   2-   Time-Lapse Correction: Div 3   Middle Speed: FC: Bk   ENG*   [1 to 60 / 1 / 1]   363-   008   2-   Time-Lapse Correction: Div 3   Middle Speed: FC: C   ENG*   [1 to 60 / 1 / 1]   363-   009   2-   Time-Lapse Correction: Div 3   Middle Speed: FC: M   ENG*   [1 to 60 / 1 / 1]   363-   009   2-   Time-Lapse Correction: Div 3   Middle Speed: FC: M   ENG*   [1 to 60 / 1 / 1]   363-   009   000   0	002				
D03	2-	Time-Lapse Correction: Div 3	Low Speed: Bk	ENG*	[ 1 to 60 / 1 / 1 ]
2-         Time-Lapse Correction: Div 3         Standard Speed: FC: Bk         ENG*         [ 1 to 60 / 1 / 1 ]           363- 004         Time-Lapse Correction: Div 3         Standard Speed: FC: C         ENG*         [ 1 to 60 / 1 / 1 ]           363- 005         Time-Lapse Correction: Div 3         Standard Speed: FC: M         ENG*         [ 1 to 60 / 1 / 1 ]           2- 363- 007         Time-Lapse Correction: Div 3         Standard Speed: FC: Y         ENG*         [ 1 to 60 / 1 / 1 ]           363- 008         Middle Speed: FC: Bk         ENG*         [ 1 to 60 / 1 / 1 ]           2- 363- 009         Time-Lapse Correction: Div 3         Middle Speed: FC: C         ENG*         [ 1 to 60 / 1 / 1 ]           2- 363- 009         Time-Lapse Correction: Div 3         Middle Speed: FC: M         ENG*         [ 1 to 60 / 1 / 1 ]           2- 363-         Time-Lapse Correction: Div 3         Middle Speed: FC: M         ENG*         [ 1 to 60 / 1 / 1 ]	363-				
363-   004     2-   Time-Lapse Correction: Div 3   Standard Speed: FC: C   ENG*   [1 to 60 / 1 / 1]   363-   005     2-   Time-Lapse Correction: Div 3   Standard Speed: FC: M   ENG*   [1 to 60 / 1 / 1]   363-   006     2-   Time-Lapse Correction: Div 3   Standard Speed: FC: Y   ENG*   [1 to 60 / 1 / 1]   363-   007     2-   Time-Lapse Correction: Div 3   Middle Speed: FC: Bk   ENG*   [1 to 60 / 1 / 1]   363-   008     2-   Time-Lapse Correction: Div 3   Middle Speed: FC: C   ENG*   [1 to 60 / 1 / 1]   363-   009     2-   Time-Lapse Correction: Div 3   Middle Speed: FC: M   ENG*   [1 to 60 / 1 / 1]   363-   009     2-   Time-Lapse Correction: Div 3   Middle Speed: FC: M   ENG*   [1 to 60 / 1 / 1]   363-   009	003				
004	2-	Time-Lapse Correction: Div 3	Standard Speed: FC: Bk	ENG*	[ 1 to 60 / 1 / 1 ]
2-         Time-Lapse Correction: Div 3         Standard Speed: FC: C         ENG*         [ 1 to 60/1/1 ]           363- 005         2-         Time-Lapse Correction: Div 3         Standard Speed: FC: M         ENG*         [ 1 to 60/1/1 ]           363- 006         2-         Time-Lapse Correction: Div 3         Standard Speed: FC: Y         ENG*         [ 1 to 60/1/1 ]           363- 007         2-         Time-Lapse Correction: Div 3         Middle Speed: FC: Bk         ENG*         [ 1 to 60/1/1 ]           363- 008         2-         Time-Lapse Correction: Div 3         Middle Speed: FC: C         ENG*         [ 1 to 60/1/1 ]           2- 363- 009         Time-Lapse Correction: Div 3         Middle Speed: FC: M         ENG*         [ 1 to 60/1/1 ]	363-				
363-   005	004				
O05	2-	Time-Lapse Correction: Div 3	Standard Speed: FC: C	ENG*	[ 1 to 60 / 1 / 1 ]
2-         Time-Lapse Correction: Div 3         Standard Speed: FC: M         ENG*         [ 1 to 60 / 1 / 1 ]           363- 006         2-         Time-Lapse Correction: Div 3         Standard Speed: FC: Y         ENG*         [ 1 to 60 / 1 / 1 ]           363- 007         2-         Time-Lapse Correction: Div 3         Middle Speed: FC: Bk         ENG*         [ 1 to 60 / 1 / 1 ]           363- 009         363- 009         Middle Speed: FC: C         ENG*         [ 1 to 60 / 1 / 1 ]           2- 363- 363-         Time-Lapse Correction: Div 3         Middle Speed: FC: M         ENG*         [ 1 to 60 / 1 / 1 ]           2- 363-         Time-Lapse Correction: Div 3         Middle Speed: FC: M         ENG*         [ 1 to 60 / 1 / 1 ]	363-				
363-   006	005				
Doc   Control   Div 3   Standard Speed: FC: Y   ENG*   [1 to 60 / 1 / 1]   Standard Speed: FC: Y   ENG*   [1 to 60 / 1 / 1]   ENG*   Control   Div 3   Middle Speed: FC: Bk   ENG*   ENG*   [1 to 60 / 1 / 1]   ENG*   Control   Div 3   Middle Speed: FC: C   ENG*   ENG*   ENG*   Control   Div 3   ENG*   Control   Div 3   ENG*   Control   Div 3   ENG*   Control   Div 3   Div 3   Div 4   Div 5   Div 6   Div	2-	Time-Lapse Correction: Div 3	Standard Speed: FC: M	ENG*	[ 1 to 60 / 1 / 1 ]
2-       Time-Lapse Correction: Div 3       Standard Speed: FC: Y       ENG*       [ 1 to 60 / 1 / 1 ]         363- 008       Time-Lapse Correction: Div 3       Middle Speed: FC: Bk       ENG*       [ 1 to 60 / 1 / 1 ]         2- 363- 009       Time-Lapse Correction: Div 3       Middle Speed: FC: C       ENG*       [ 1 to 60 / 1 / 1 ]         2- 363- 009       Time-Lapse Correction: Div 3       Middle Speed: FC: M       ENG*       [ 1 to 60 / 1 / 1 ]	363-				
363- 007  2- Time-Lapse Correction: Div 3 Middle Speed: FC: Bk ENG* [1 to 60 / 1 / 1] 363- 008  2- Time-Lapse Correction: Div 3 Middle Speed: FC: C ENG* [1 to 60 / 1 / 1] 363- 009  2- Time-Lapse Correction: Div 3 Middle Speed: FC: M ENG* [1 to 60 / 1 / 1] 363- 363-	006				
007       2-       Time-Lapse Correction: Div 3       Middle Speed: FC: Bk       ENG*       [ 1 to 60 / 1 / 1 ]         363- 008       2-       Time-Lapse Correction: Div 3       Middle Speed: FC: C       ENG*       [ 1 to 60 / 1 / 1 ]         363- 009       2-       Time-Lapse Correction: Div 3       Middle Speed: FC: M       ENG*       [ 1 to 60 / 1 / 1 ]         363- 363-       363-       ENG*       [ 1 to 60 / 1 / 1 ]	2-	Time-Lapse Correction: Div 3	Standard Speed: FC: Y	ENG*	[ 1 to 60 / 1 / 1 ]
2-       Time-Lapse Correction: Div 3       Middle Speed: FC: Bk       ENG*       [ 1 to 60 / 1 / 1 ]         363-       008       Middle Speed: FC: C       ENG*       [ 1 to 60 / 1 / 1 ]         363-       009       ENG*       [ 1 to 60 / 1 / 1 ]         2-       Time-Lapse Correction: Div 3       Middle Speed: FC: M       ENG*       [ 1 to 60 / 1 / 1 ]         363-       Middle Speed: FC: M       ENG*       [ 1 to 60 / 1 / 1 ]	363-				
363- 008  2- Time-Lapse Correction: Div 3 Middle Speed: FC: C ENG* [ 1 to 60 / 1 / 1 ]  363- 009  2- Time-Lapse Correction: Div 3 Middle Speed: FC: M ENG* [ 1 to 60 / 1 / 1 ]	007				
2-   Time-Lapse Correction: Div 3   Middle Speed: FC: C   ENG*   [ 1 to 60 / 1 / 1 ]	2-	Time-Lapse Correction: Div 3	Middle Speed: FC: Bk	ENG*	[ 1 to 60 / 1 / 1 ]
2-       Time-Lapse Correction: Div 3       Middle Speed: FC: C       ENG*       [ 1 to 60 / 1 / 1 ]         363-       009         2-       Time-Lapse Correction: Div 3       Middle Speed: FC: M       ENG*       [ 1 to 60 / 1 / 1 ]         363-       363-	363-				
363- 009  2- Time-Lapse Correction: Div 3 Middle Speed: FC: M ENG* [1 to 60 / 1 / 1]	008				
009	2-	Time-Lapse Correction: Div 3	Middle Speed: FC: C	ENG*	[ 1 to 60 / 1 / 1 ]
2- Time-Lapse Correction: Div 3 Middle Speed: FC: M ENG* [1 to 60 / 1 / 1]	363-				
363-	009				
	2-	Time-Lapse Correction: Div 3	Middle Speed: FC: M	ENG*	[ 1 to 60 / 1 / 1 ]
010	363-				
	010				

2-	Time-Lapse Correction: Div 3	Middle Speed: FC: Y	ENG*	[1 to 60 / 1 / 1 ]
363-	Time-Lapse Correction. Div 3	whule speed. FC. I	EING.	[ 1 to 60 / 1 / 1 ]
011				
2-	Time-Lapse Correction: Div 3	Law Speed: EC: Dlr	ENG*	[1 to 60 / 1 / 1 ]
363-	Time-Lapse Correction: Div 3	Low Speed: FC: Bk	ENG	[ 1 to 60 / 1 / 1 ]
012	Time Lenge Commenting D' 2	Low Coold, EC. C	EMC*	[1 to 60 / 1 / 1 ]
2-	Time-Lapse Correction: Div 3	Low Speed: FC: C	ENG*	[ 1 to 60 / 1 / 1 ]
363-				
013	T' I C ' D' A	I G 1 FG M	ENIC#	51. (0/1/17
2-	Time-Lapse Correction: Div 3	Low Speed: FC: M	ENG*	[ 1 to 60 / 1 / 1 ]
363-				
014			FNICt	51. 60/1/13
2-	Time-Lapse Correction: Div 3	Low Speed: FC: Y	ENG*	[ 1 to 60 / 1 / 1 ]
363-				
015		0. 1.10. 1.71.	Esta:	F.O 2000 / 0 / 1077
2-	Time-Lapse Correction:Transfer	Standard Speed: Div1	ENG*	[ 0 to 2000 / 0 / 10V ]
371-				
001				
2-	Time-Lapse Correction:Transfer	Middle Speed: Div1	ENG*	[ 0 to 2000 / 0 / 10V ]
371-				
002				
2-	Time-Lapse Correction:Transfer	Low Speed: Div1	ENG*	[ 0 to 2000 / 0 / 10V ]
371-				
003				
2-	Time-Lapse Correction:Transfer	Standard Speed: Div2	ENG*	[ 0 to 2000 / 0 / 10V ]
372-				
001				
2-	Time-Lapse Correction:Transfer	Middle Speed: Div2	ENG*	[ 0 to 2000 / 0 / 10V ]
372-				
002				
2-	Time-Lapse Correction:Transfer	Low Speed: Div2	ENG*	[ 0 to 2000 / 0 / 10V ]
372-				
003				
2-	Time-Lapse Correction:Transfer	Standard Speed: Div3	ENG*	[ 0 to 2000 / 0 / 10V ]
373-				
001				
2-	Time-Lapse Correction:Transfer	Middle Speed: Div3	ENG*	[ 0 to 2000 / 0 / 10V ]
373-				
002				
74	<del></del>			

2-	Time-Lapse Correction:Transfer	Low Speed: Div3	ENG*	[ 0 to 2000 / 0 / 10V ]
373-	Third Bupot Contouron Humbre	Zow speed. Zive	DI VO	
003				
2-	Time-Lapse Correction:Transfer	Standard Speed: Div4	ENG*	[ 0 to 2000 / 0 / 10V ]
374-				
001				
2-	Time-Lapse Correction:Transfer	Middle Speed: Div4	ENG*	[ 0 to 2000 / 0 / 10V ]
374-		1		
002				
2-	Time-Lapse Correction:Transfer	Low Speed: Div4	ENG*	[ 0 to 2000 / 0 / 10V ]
374-				
003				
2-	Vc Correction	Standard Speed: Div 1	ENG*	[ 0 to 2000 / 0 / 10-V ]
381-				
001				
2-	Vc Correction	Middle Speed: Div 1	ENG*	[ 0 to 2000 / 0 / 10-V ]
381-				
002				
2-	Vc Correction	Low Speed: Div 1	ENG*	[ 0 to 2000 / 0 / 10-V ]
381-				
003				
2-	Vc Correction	Standard Speed: Div2	ENG*	[ 0 to 2000 / 0 / 10-V ]
382-				
001				
2-	Vc Correction	Middle Speed: Div 2	ENG*	[ 0 to 2000 / 0 / 10-V ]
382-				
002				
2-	Vc Correction	Low Speed: Div2	ENG*	[ 0 to 2000 / 0 / 10-V ]
382-				
003				
2-	Vc Correction	Standard Speed: Div3	ENG*	[ 0 to 2000 / 0 / 10-V ]
383-				
001				
2-	Vc Correction	Middle Speed: Div3	ENG*	[ 0 to 2000 / 0 / 10-V ]
383-				
002				
2-	Vc Correction	Low Speed: Div3	ENG*	[ 0 to 2000 / 0 / 10-V ]
383-				
003				

2-	V- Cti	Ct 1 1 C 1 D:1	ENC*	[ 0 t- 2000 / 0 / 10 M ]
384-	Vc Correction	Standard Speed: Div4	ENG*	[ 0 to 2000 / 0 / 10-V ]
001	W.C. C	M. 111 C 1 D. 4	ENICH	F.O. ( 2000 / O. / 10 X/ 3
2-	Vc Correction	Middle Speed: Div4	ENG*	[ 0 to 2000 / 0 / 10-V ]
384-				
002				
2-	Vc Correction	Low Speed: Div4	ENG*	[ 0 to 2000 / 0 / 10-V ]
384-				
003				
2-	Vc Correction	Standard Speed: Div5	ENG*	[ 0 to 2000 / 0 / 10-V ]
385-				
001				
2-	Vc Correction	Middle Speed: Div5	ENG*	[ 0 to 2000 / 0 / 10-V ]
385-				
002				
2-	Vc Correction	Low Speed: Div5	ENG*	[ 0 to 2000 / 0 / 10-V ]
385-				
003				
2-	T1 at low temp and tempolarity	Standard speed:K	ENG*	[ 0 to 2100 / 1300 /
401-				10V ]
001				
2-	T1 at low temp and tempolarity	Standard speed:C	ENG*	[ 0 to 2100 / 1300 /
401-				10V ]
002				
2-	T1 at low temp and tempolarity	Standard speed:M	ENG*	[ 0 to 2100 / 1300 /
401-				10V ]
003				
2-	T1 at low temp and tempolarity	Standard speed:Y	ENG*	[ 0 to 2100 / 1300 /
401-				10V ]
004				
2-	Plain 1: Bias: BW	Paper Transfer: Std Spd:	ENG*	[ 0 to 200 / * / 1uA ]
403-		1Side		*MP C307: 21
001				*MP C407: 24
2-	Plain 1: Bias: BW	Paper Transfer: Std Spd:	ENG*	[ 0 to 200 / * / 1uA ]
403-		2Side		*MP C307: 16
002				*MP C407: 18
2-	Plain 1: Bias: BW	Paper Transfer: Low Spd:	ENG*	[ 0 to 200 / 10 / 1uA ]
403-	1 min 1. Dias. D W	1 Side	12110	[ 0 to 200 / 10 / 14/1]
003		15ide		
003				

Paper Transfer: Low Spd:   ENG*   [0 to 200 / 8 / 1uA ]					
Plain 1: Bias: BW	403-	Plain 1: Bias: BW		ENG*	[ 0 to 200 / 8 / 1uA ]
15ide     2-					
201		Plain 1: Bias: BW	-	ENG*	[ 0 to 200 / 30 / 1uA ]
Plain 1: Bias: BW			1Side		
A03-202   Plain 1: Bias: FC   Paper Transfer: Std Spd:   ENG*   [ 0 to 200 / * / luA ]					
202   Plain 1: Bias: FC		Plain 1: Bias: BW		ENG*	[ 0 to 200 / 22 / 1uA ]
Plain 1: Bias: FC			2Side		
1   1   1   1   1   2   2   2   2   2					
MP C407: 25		Plain 1: Bias: FC	-	ENG*	
Paper Transfer: Std Spd:   ENG*   [ 0 to 200 / * / 1uA ]			1Side		
407-   002   2Side   *MP C307: 18   *MP C407: 20   2-   407-   1Side   1Side   ENG*   [ 0 to 200 / 11 / 1uA ]   1Side   2Side   ENG*   [ 0 to 200 / 10 / 1uA ]   1Side   2Side   ENG*   [ 0 to 200 / 10 / 1uA ]   2Side   ENG*   [ 0 to 200 / 10 / 1uA ]   2Side   ENG*   [ 100 to 995 / 100 / 2Side   ENG*   [ 100 to 995 / 100 / 5% ]   2-   411-   2Side   ENG*   [ 100 to 995 / 100 / 5% ]   2-   411-   2Side   ENG*   [ 100 to 995 / 100 / 5% ]   2-   411-   2Side   ENG*   [ 100 to 995 / 100 / 5% ]   2-   411-   2Side   ENG*   ENG*   [ 100 to 995 / 100 / 5% ]   2-   411-   2Side   ENG*   ENG*   [ 100 to 995 / 100 / 5% ]   2-   411-   2Side   ENG*   ENG*   [ 100 to 995 / 100 / 5% ]   2-   411-   2Side   ENG*   ENG*   [ 100 to 995 / 100 / 5% ]   2-   411-   2Side   ENG*   ENG*   [ 100 to 995 / 120 / 5% ]   2-   411-   2Side   ENG*   ENG*   [ 100 to 995 / 120 / 5% ]   2-   411-   2Side   ENG*   ENG*   [ 100 to 995 / 120 / 5% ]   2-   411-   2Side   ENG*   ENG*   [ 100 to 995 / 120 / 5% ]   2-   411-   2Side   ENG*   ENG*   [ 100 to 995 / 120 / 5% ]   2-   411-   2Side   ENG*   ENG*   [ 100 to 995 / 175 / 5% ]   2-   411-   2Side   ENG*   [ 100 to 995 / 175 / 5% ]   2-   411-   2Side   ENG*   [ 100 to 995 / 175 / 5% ]   2-   411-   2Side   ENG*   [ 100 to 995 / 175 / 5% ]   2-   411-   2Side   ENG*   [ 100 to 995 / 175 / 5% ]   2-   411-	001				*MP C407: 25
MP C407: 20   Plain 1: Bias: FC   Paper Transfer: Low Spd:   ENG*   [ 0 to 200 / 11 / 1uA ]	2-	Plain 1: Bias: FC	Paper Transfer: Std Spd:	ENG*	[ 0 to 200 / * / 1uA ]
Paper Transfer: Low Spd:	407-		2Side		*MP C307: 18
A07-   O03	002				*MP C407: 20
Description	2-	Plain 1: Bias: FC	Paper Transfer: Low Spd:	ENG*	[ 0 to 200 / 11 / 1uA ]
Paper Transfer: Low Spd:   ENG*   [ 0 to 200 / 10 / 1uA ]	407-		1Side		
A07-   004   2Side   2Side   2   2   2   2   2   2   2   2   2	003				
D004   Plain 1: Size Correction:BW   Paper Transfer: Std   ENG*   [ 100 to 995 / 100 / 5% ]	2-	Plain 1: Bias: FC	Paper Transfer: Low Spd:	ENG*	[ 0 to 200 / 10 / 1uA ]
2-         Plain 1: Size Correction:BW         Paper Transfer: Std         ENG*         [ 100 to 995 / 100 / 5% ]           411-         001         Spd:1Sid:S1         ENG*         [ 100 to 995 / 100 / 5% ]           2-         Plain 1: Size Correction:BW         Paper Transfer: Std         ENG*         [ 100 to 995 / 100 / 5% ]           411-         002         Paper Transfer: Low Spd:         ENG*         [ 100 to 995 / 100 / 5% ]           411-         1Side:S1         ENG*         [ 100 to 995 / 100 / 5% ]           411-         2Side:S1         ENG*         [ 100 to 995 / 120 / 5% ]           411-         1Side:S2         ENG*         [ 100 to 995 / 120 / 5% ]           411-         Paper Transfer: Low Spd:         ENG*         [ 100 to 995 / 120 / 5% ]           411-         Paper Transfer: Low Spd:         ENG*         [ 100 to 995 / 120 / 5% ]           411-         Paper Transfer: Low Spd:         ENG*         [ 100 to 995 / 175 / 5% ]           411-         2Side:S2         ENG*         [ 100 to 995 / 175 / 5% ]	407-		2Side		
Spd:1Sid:S1   Spd:1Sid:S1   Spd:1Sid:S1   Spd:1Sid:S1   Spd:1Sid:S1   Spd:1Sid:S1   Spd:2Sid:S1   Spd:2Sid:S2   Spd:2Sid:S1   Spd:2Sid:S2	004				
001       Plain 1: Size Correction:BW       Paper Transfer: Std Spd: 2Sid:S1       ENG* [100 to 995 / 100 / 5%]         411- 002       Plain 1: Size Correction:BW       Paper Transfer: Low Spd: 1Side:S1       ENG* [100 to 995 / 100 / 5%]         411- 003       Plain 1: Size Correction:BW       Paper Transfer: Low Spd: 2Side:S1       ENG* [100 to 995 / 100 / 5%]         411- 004       Paper Transfer: Low Spd: 2Side:S1       ENG* [100 to 995 / 120 / 5%]         411- 007       Plain 1: Size Correction:BW       Paper Transfer: Low Spd: 5%]       ENG* [100 to 995 / 120 / 5%]         2- Plain 1: Size Correction:BW       Paper Transfer: Low Spd: 5%]       ENG* [100 to 995 / 175 / 5%]	2-	Plain 1: Size Correction:BW	Paper Transfer: Std	ENG*	[ 100 to 995 / 100 /
2-       Plain 1: Size Correction:BW       Paper Transfer: Std       ENG*       [ 100 to 995 / 100 / 5% ]         411-       002       Plain 1: Size Correction:BW       Paper Transfer: Low Spd: 1 Side:S1       ENG*       [ 100 to 995 / 100 / 5% ]         2-       Plain 1: Size Correction:BW       Paper Transfer: Low Spd: 2 Side:S1       ENG*       [ 100 to 995 / 100 / 5% ]         411-       2Side:S1       5% ]         407       Plain 1: Size Correction:BW       Paper Transfer: Low Spd: 1 Side:S2       ENG*       [ 100 to 995 / 120 / 5% ]         411-       1Side:S2       5% ]         411-       2Side:S2       ENG*       [ 100 to 995 / 175 / 5% ]	411-		Spd:1Sid:S1		5%]
Spd:2Sid:S1   Syd:2Sid:S1   Syd:2Sid:S2   Syd:2Sid:S1   Syd:2Sid:S2   Syd:2Sid:Syd:Syd:2Sid:Syd:Syd:2Sid:Syd:2Sid:Syd:2Sid:Syd:2Sid:Syd:2Sid:Syd:2Sid:Syd:2Sid:Syd:2Sid:Syd:2Sid:Syd:Syd:Syd:Syd:Syd:Syd:Syd:Syd:Syd:Sy	001				
Do	2-	Plain 1: Size Correction:BW	Paper Transfer: Std	ENG*	[ 100 to 995 / 100 /
2-       Plain 1: Size Correction:BW       Paper Transfer: Low Spd: 1Side:S1       ENG* 5% 1       [ 100 to 995 / 100 / 5% ]         2-       Plain 1: Size Correction:BW       Paper Transfer: Low Spd: 2Side:S1       ENG* [ 100 to 995 / 100 / 5% ]         2-       Plain 1: Size Correction:BW       Paper Transfer: Low Spd: 1Side:S2       ENG* [ 100 to 995 / 120 / 5% ]         411- 007       Plain 1: Size Correction:BW       Paper Transfer: Low Spd: 2Side:S2       ENG* [ 100 to 995 / 175 / 5% ]	411-		Spd:2Sid:S1		5%]
1Side:S1   5% ]	002				
Description	2-	Plain 1: Size Correction:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 100 /
2-       Plain 1: Size Correction:BW       Paper Transfer: Low Spd: 2Side:S1       ENG* [100 to 995 / 100 / 5%]         411- 004       Plain 1: Size Correction:BW       Paper Transfer: Low Spd: ENG* [100 to 995 / 120 / 5%]         411- 007       Plain 1: Size Correction:BW       Paper Transfer: Low Spd: 5%]         2- Plain 1: Size Correction:BW       Paper Transfer: Low Spd: ENG* [100 to 995 / 175 / 5%]	411-		1Side:S1		5% ]
21	003				
004       2-       Plain 1: Size Correction:BW       Paper Transfer: Low Spd:       ENG*       [ 100 to 995 / 120 / 5% ]         411-       1Side:S2       5% ]         2-       Plain 1: Size Correction:BW       Paper Transfer: Low Spd:       ENG*       [ 100 to 995 / 175 / 5% ]         411-       2Side:S2       5% ]	2-	Plain 1: Size Correction:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 100 /
2-       Plain 1: Size Correction:BW       Paper Transfer: Low Spd:	411-		2Side:S1		5%]
411-   1Side:S2   5% ]	004				
411-   1Side:S2   5% ]	2-	Plain 1: Size Correction:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 120 /
007         Plain 1: Size Correction:BW         Paper Transfer: Low Spd: Paper Transfer: Low Spd: ENG* [100 to 995 / 175 / 2Side:S2         ENG* [100 to 995 / 175 / 5%]	411-				
2-         Plain 1: Size Correction:BW         Paper Transfer: Low Spd: ENG* [ 100 to 995 / 175 / 2Side:S2         ENG* [ 100 to 995 / 175 / 5% ]					
2Side:S2 5%]		Plain 1: Size Correction:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 175 /
1 1	008				

2-	Plain 1: Size Correction:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 130 /
411-		1Side:S3		5%]
011				
2-	Plain 1: Size Correction:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 213 /
411-		2Side:S3		5%]
012				
2-	Plain 1: Size Correction:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 140 /
411-		1Side:S4		5%]
015				
2-	Plain 1: Size Correction:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 275 /
411-		2Side:S4		5%]
016				
2-	Plain 1: Size Correction:FC	Paper Transfer: Std Spd:	ENG*	[ 100 to 995 / 100 /
412-		1Side:S1		5%]
001				
2-	Plain 1: Size Correction:FC	Paper Transfer: Std Spd:	ENG*	[ 100 to 995 / 100 /
412-		2Side:S1		5%]
002				
2-	Plain 1: Size Correction:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 100 /
412-		1Side:S1		5% ]
003				
2-	Plain 1: Size Correction:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 100 /
412-		2Side:S1		5% ]
004				
2-	Plain 1: Size Correction:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 118 /
412-		1Side:S2		5% ]
007				
2-	Plain 1: Size Correction:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 150 /
412-		2Side:S2		5% ]
008				
2-	Plain 1: Size Correction:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 130 /
412-		1Side:S3		5%]
011				
2-	Plain 1: Size Correction:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 180 /
412-		2Side:S3		5%]
012				
2-	Plain 1: Size Correction:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 140 /
412-		1Side:S4		5%]
015				

2- 412-	Plain 1: Size Correction:FC	Paper Transfer: Low Spd: 2Side:S4	ENG*	[ 100 to 995 / 250 / 5% ]
016				
2-	Plain 1: Size-Env.Correct:BW	Paper Transfer: Std Spd:	ENG*	[ 1 to 100 / 21 / 1 ]
413-		1Side:S1		
001				
2-	Plain 1: Size-Env.Correct:BW	Paper Transfer: Std Spd:	ENG*	[ 1 to 100 / 22 / 1 ]
413-		2Side:S1		
002				
2-	Plain 1: Size-Env.Correct:BW	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 25 / 1 ]
413-		1Side:S1		
003				
2-	Plain 1: Size-Env.Correct:BW	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 26 / 1 ]
413-		2Side:S1		
004				
2-	Plain 1: Size-Env.Correct:BW	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 27 / 1 ]
413-		1Side:S2		
007				
2-	Plain 1: Size-Env.Correct:BW	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 28 / 1 ]
413-		2Side:S2		
008	Diaire 1. Cina France Comment DW	Dan an Tarangkan I and Carl	ENC*	[ 1 4- 100 / 20 / 1 ]
2- 413-	Plain 1: Size-Env.Correct:BW	Paper Transfer: Low Spd: 1Side:S3	ENG*	[ 1 to 100 / 29 / 1 ]
011		15Idc.55		
2-	Plain 1: Size-Env.Correct:BW	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 30 / 1 ]
413-	Tidili 1. bize Eliv. Collect.b vv	2Side:S3	Live	
012		28.44.85		
2-	Plain 1: Size-Env.Correct:BW	Paper Transfer: Low Spd:	ENG*	[1 to 100 / 31 / 1]
413-		1Side:S4		
015				
2-	Plain 1: Size-Env.Correct:BW	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 32 / 1 ]
413-		2Side:S4		
016				
2-	Plain 1: Size-Env.Correct:FC	Paper Transfer: Std Spd:	ENG*	[ 1 to 100 / 23 / 1 ]
414-		1Side:S1		
001				
2-	Plain 1: Size-Env.Correct:FC	Paper Transfer: Std Spd:	ENG*	[ 1 to 100 / 24 / 1 ]
414-		2Side:S1		
002				

2-	Plain 1: Size-Env.Correct:FC	Paper Transfer: Low Spd:	ENG*	[1 to 100 / 25 / 1 ]
414-	Plain 1. Size-Env. Conect. FC	1Side:S1	ENG.	[ 1 to 100 / 25 / 1 ]
003		18ide.81		
	N' 1 C' E C 4 EC	D T C I C I	ENICA	F1 + 100 / 26 / 13
2-	Plain 1: Size-Env.Correct:FC	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 26 / 1 ]
414-		2Side:S1		
004	N' 1 G' E G IEG	D T 0 I 0 I	EN LOA	51 . 100 / 25 / 13
2-	Plain 1: Size-Env.Correct:FC	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 27 / 1 ]
414-		1Side:S2		
007				
2-	Plain 1: Size-Env.Correct:FC	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 28 / 1 ]
414-		2Side:S2		
008				
2-	Plain 1: Size-Env.Correct:FC	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 29 / 1 ]
414-		1Side:S3		
011				
2-	Plain 1: Size-Env.Correct:FC	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 30 / 1 ]
414-		2Side:S3		
012				
2-	Plain 1: Size-Env.Correct:FC	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 31 / 1 ]
414-		1Side:S4		
015				
2-	Plain 1: Size-Env.Correct:FC	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 32 / 1 ]
414-		2Side:S4		
016				
2-	Plain 1: Leading Edge Correct.	Paper Transfer: Std Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
415-		1Side		
001				
2-	Plain 1: Leading Edge Correct.	Paper Transfer: Std Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
415-		2Side		
002				
2-	Plain 1: Leading Edge Correct.	Paper Transfer: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
415-		1Side		
003				
2-	Plain 1: Leading Edge Correct.	Paper Transfer: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
415-		2Side		
004				
2-	Plain 1: Leading Edge Correct.	Separation DC: Std Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
415-		1Side		
005				
	1		_1	

2- 415-	Plain 1: Leading Edge Correct.	Separation DC: Std Spd: 2Side	ENG*	[ 0 to 995 / 100 / 5% ]
006 2- 415-	Plain 1: Leading Edge Correct.	Separation DC: Low Spd: 1Side	ENG*	[ 0 to 995 / 100 / 5% ]
2- 415-	Plain 1: Leading Edge Correct.	Separation DC: Low Spd: 2Side	ENG*	[ 0 to 995 / 100 / 5% ]
2- 416-	Plain 1: SW Timing Lead Edge	Paper Transfer: Std Spd: 1Side	ENG*	[ 0 to 50 / 0 / 2mm ]
001 2- 416-	Plain 1: SW Timing Lead Edge	Paper Transfer: Std Spd: 2Side	ENG*	[ 0 to 50 / 0 / 2mm ]
002 2- 416- 003	Plain 1: SW Timing Lead Edge	Paper Transfer: Low Spd: 1Side	ENG*	[ 0 to 50 / 0 / 2mm ]
2- 416- 004	Plain 1: SW Timing Lead Edge	Paper Transfer: Low Spd: 2Side	ENG*	[ 0 to 50 / 0 / 2mm ]
2- 416- 005	Plain 1: SW Timing Lead Edge	Separation DC: Std Spd: 1Side	ENG*	[ 0 to 50 / 0 / 2mm ]
2- 416- 006	Plain 1: SW Timing Lead Edge	Separation DC: Std Spd: 2Side	ENG*	[ 0 to 50 / 0 / 2mm ]
2- 416- 007	Plain 1: SW Timing Lead Edge	Separation DC: Low Spd: 1Side	ENG*	[ 0 to 50 / 0 / 2mm ]
2- 416- 008	Plain 1: SW Timing Lead Edge	Separation DC: Low Spd: 2Side	ENG*	[ 0 to 50 / 0 / 2mm ]
2- 417- 001	Plain 1: Trail Edge Correction	Paper Transfer: Std Spd: 1Side	ENG*	[ 0 to 995 / 100 / 5% ]
2- 417- 002	Plain 1: Trail Edge Correction	Paper Transfer: Std Spd: 2Side	ENG*	[ 0 to 995 / 100 / 5% ]

	1			
2-	Plain 1: Trail Edge Correction	Paper Transfer: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
417-		1Side		
003				
2-	Plain 1: Trail Edge Correction	Paper Transfer: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
417-		2Side		
004				
2-	Plain 1: Trail Edge Correction	Separation DC: Std Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
417-		1Side		
005				
2-	Plain 1: Trail Edge Correction	Separation DC: Std Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
417-		2Side		
006				
2-	Plain 1: Trail Edge Correction	Separation DC: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
417-		1Side		
007				
2-	Plain 1: Trail Edge Correction	Separation DC: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
417-		2Side		
008				
2-	Plain 1: SW Timing Trail Edge	Paper Transfer: Std Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
418-		1Side		
001				
2-	Plain 1: SW Timing Trail Edge	Paper Transfer: Std Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
418-		2Side		
002				
2-	Plain 1: SW Timing Trail Edge	Paper Transfer: Low Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
418-		1Side		
003				
2-	Plain 1: SW Timing Trail Edge	Paper Transfer: Low Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
418-		2Side		
004				
2-	Plain 1: SW Timing Trail Edge	Separation DC: Std Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
418-		1Side		
005				
2-	Plain 1: SW Timing Trail Edge	Separation DC: Std Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
418-		2Side		
006				
2-	Plain 1: SW Timing Trail Edge	Separation DC: Low Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
418-		1Side		
007				
L		1	_1	

2- 418-	Plain 1: SW Timing Trail Edge	Separation DC: Low Spd: 2Side	ENG*	[ 0 to 50 / 0 / 2mm ]
008				
2-	Plain 1: Envir Correct. Table	Separation DC: Std Spd:	ENG*	[ 1 to 100 / 30 / 1 ]
419-		1Side		
013				
2-	Plain 1: Envir Correct. Table	Separation DC: Std Spd:	ENG*	[ 1 to 100 / 30 / 1 ]
419-		2Side		
014				
2-	Plain 1: Envir Correct. Table	Separation DC: Low Spd:	ENG*	[ 1 to 100 / 30 / 1 ]
419-		1Side		
015				
2-	Plain 1: Envir Correct. Table	Separation DC: Low Spd:	ENG*	[ 1 to 100 / 30 / 1 ]
419-		2Side		
016				
2-	Plain 1: Edge Envir Correct.	Separation DC: Std Spd:	ENG*	[ 1 to 100 / 50 / 1 ]
419-		1Side		
017				
2-	Plain 1: Edge Envir Correct.	Separation DC: Std Spd:	ENG*	[ 1 to 100 / 50 / 1 ]
419-		2Side		
018				
2-	Plain 1: Edge Envir Correct.	Separation DC: Low Spd:	ENG*	[ 1 to 100 / 50 / 1 ]
419-		1Side		
019				
2-	Plain 1: Edge Envir Correct.	Separation DC: Low Spd:	ENG*	[ 1 to 100 / 50 / 1 ]
419-		2Side		
020				
2-	T1 at low temp and tempolarity	Middle speed:K	ENG*	[ 0 to 2100 / 1300 /
421-				10V ]
001				
2-	T1 at low temp and tempolarity	Middle speed:C	ENG*	[ 0 to 2100 / 1300 /
421-				10V ]
002				
2-	T1 at low temp and tempolarity	Middle speed:M	ENG*	[ 0 to 2100 / 1300 /
421-				10V ]
003				
2-	T1 at low temp and tempolarity	Middle speed:Y	ENG*	[ 0 to 2100 / 1300 /
421-				10V ]
004				

2-	Plain 2: Bias: BW	Paper Transfer: Std Spd:	ENG*	[ 0 to 200 / * / 1uA ]
423-	1 Idili 2. Dids. D W	1Side	LINU	*MP C307: 19
001		iside		*MP C407: 22
2-	Plain 2: Bias: BW	Paper Transfer: Std Spd:	ENG*	[ 0 to 200 / * / 1uA ]
423-	Fiaili 2. Dias. DW	2Side	ENG	*MP C307: 16
002		ZSIGE		*MP C407: 18
2-	Plain 2: Bias: BW	Doman Transfer Lavy Cod	ENG*	
	Plain 2: Blas: BW	Paper Transfer: Low Spd:	ENG*	[ 0 to 200 / 11 / 1uA ]
423-		1Side		
003	N. A. D. DW	D T C I C I	ENIC#	F.O. (200 / 11 / 1 A 7
2-	Plain 2: Bias: BW	Paper Transfer: Low Spd:	ENG*	[ 0 to 200 / 11 / 1uA ]
423-		2Side		
004		D		50.00/05/4.43
2-	Plain 2: Bias: BW	Paper Transfer: Std Spd 2:	ENG*	[ 0 to 200 / 26 / 1uA ]
423-		1Side		
201				
2-	Plain 2: Bias: BW	Paper Transfer: Std Spd 2:	ENG*	[ 0 to 200 / * / 1uA ]
423-		2Side		*MP C307: 22
202				*MP C407: 15
2-	Plain 2: Bias: FC	Paper Transfer: Std Spd:	ENG*	[ 0 to 200 / * / 1uA ]
427-		1Side		*MP C307: 18
001				*MP C407: 20
2-	Plain 2: Bias: FC	Paper Transfer: Std Spd:	ENG*	[ 0 to 200 / 18 / 1uA ]
427-		2Side		
002				
2-	Plain 2: Bias: FC	Paper Transfer: Low Spd:	ENG*	[ 0 to 200 / 13 / 1uA ]
427-		1Side		
003				
2-	Plain 2: Bias: FC	Paper Transfer: Low Spd:	ENG*	[ 0 to 200 / 13 / 1uA ]
427-		2Side		
004				
2-	Plain 2: Size Correction:BW	Paper Transfer: Std Spd:	ENG*	[ 100 to 995 / 100 /
431-		1Side:S1		5% ]
001				
2-	Plain 2: Size Correction:BW	Paper Transfer: Std Spd:	ENG*	[ 100 to 995 / 100 /
431-		2Side:S1		5% ]
002				
2-	Plain 2: Size Correction:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 100 /
431-		1Side:S1		5%]
003				
	1			

Plain 2: Size Correction:BW   Paper Transfer: Low Spd:   ENG*   [100 to 995 / 100 / 5%]					
DOI:   Plain 2: Size Correction:BW   Paper Transfer: Low Spd:   ENG*   [100 to 995 / 120 / 5% ]	2-	Plain 2: Size Correction:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 100 /
Plain 2: Size Correction:BW	431-		2Side:S1		5%]
A31-   Plain 2: Size Correction:BW   Paper Transfer: Low Spd:   ENG*   [100 to 995/175 / 5%]	004				
Description	2-	Plain 2: Size Correction:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 120 /
Paper Transfer: Low Spd:   ENG*   [100 to 995/175 / 5% ]	431-		1Side:S2		5% ]
A31-   Plain 2: Size Correction:BW   Paper Transfer: Low Spd:   ENG*   [100 to 995 / 140 / 5% ]	007				
DOSS   Plain 2: Size Correction:BW   Paper Transfer: Low Spd:   ENG*   [100 to 995 / 140 / 5%]	2-	Plain 2: Size Correction:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 175 /
Paper Transfer: Low Spd:   ENG*   [100 to 995 / 140 / 5%]	431-		2Side:S2		5% ]
A31-   A31-	008				
O11	2-	Plain 2: Size Correction:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 140 /
Paper Transfer: Low Spd:   ENG*   [100 to 995 / 213 / 5% ]	431-		1Side:S3		5% ]
A31-   2   2   2   2   2   2   2   2   2	011				
O12   Plain 2: Size Correction:BW   Paper Transfer: Low Spd:   ISide:S4   S%   S%   S%   S%   S%   S%   S%	2-	Plain 2: Size Correction:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 213 /
Paper Transfer: Low Spd:   ENG*   [100 to 995 / 150 / 5%]	431-		2Side:S3		5% ]
A31-   O15	012				
O15	2-	Plain 2: Size Correction:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 150 /
Paper Transfer: Low Spd:   ENG*   [100 to 995 / 275 / 5% ]	431-		1Side:S4		5% ]
A31-   O16	015				
O16	2-	Plain 2: Size Correction:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 275 /
2- 432- 001       Plain 2: Size Correction:FC       Paper Transfer: Std Spd: 1Side:S1       ENG* 5% ]       [ 100 to 995 / 100 / 5% ]         2- 432- 002       Plain 2: Size Correction:FC       Paper Transfer: Std Spd: 2Side:S1       ENG* 5% ]       [ 100 to 995 / 100 / 5% ]         2- 432- 003       Plain 2: Size Correction:FC       Paper Transfer: Low Spd: 1Side:S1       ENG* 5% ]       [ 100 to 995 / 100 / 5% ]         2- 432- 004       Plain 2: Size Correction:FC       Paper Transfer: Low Spd: 2Side:S1       ENG* 5% ]       [ 100 to 995 / 110 / 5% ]         2- 432- 007       Plain 2: Size Correction:FC       Paper Transfer: Low Spd: 1Side:S2       ENG* 5% ]       [ 100 to 995 / 118 / 5% ]         2- 432- 007       Plain 2: Size Correction:FC       Paper Transfer: Low Spd: 2Side:S2       ENG* 5% ]       [ 100 to 995 / 150 / 5% ]	431-		2Side:S4		5% ]
1   1   1   2   2   2   2   2   2   2	016				
001       Plain 2: Size Correction:FC       Paper Transfer: Std Spd: 2Side:S1       ENG* [100 to 995 / 100 / 5%]         432- 002       Plain 2: Size Correction:FC       Paper Transfer: Low Spd: 1Side:S1       ENG* [100 to 995 / 100 / 5%]         2- 432- 003       Plain 2: Size Correction:FC       Paper Transfer: Low Spd: 2Side:S1       ENG* [100 to 995 / 100 / 5%]         432- 004       Plain 2: Size Correction:FC       Paper Transfer: Low Spd: 2Side:S1       ENG* [100 to 995 / 118 / 5%]         432- 007       Plain 2: Size Correction:FC       Paper Transfer: Low Spd: 2Side:S2       ENG* [100 to 995 / 150 / 5%]	2-	Plain 2: Size Correction:FC	Paper Transfer: Std Spd:	ENG*	[ 100 to 995 / 100 /
2-       Plain 2: Size Correction:FC       Paper Transfer: Std Spd: 2Side:S1       ENG* 5% ]       [ 100 to 995 / 100 / 5% ]         432- 002       Plain 2: Size Correction:FC       Paper Transfer: Low Spd: 1Side:S1       ENG* 5% ]       [ 100 to 995 / 100 / 5% ]         2- 432- 003       Plain 2: Size Correction:FC       Paper Transfer: Low Spd: 2Side:S1       ENG* 5% ]       [ 100 to 995 / 100 / 5% ]         2- 432- 004       Plain 2: Size Correction:FC       Paper Transfer: Low Spd: 1Side:S2       ENG* 5% ]       [ 100 to 995 / 118 / 5% ]         432- 007       Plain 2: Size Correction:FC       Paper Transfer: Low Spd: 1Side:S2       ENG* 5% ]       [ 100 to 995 / 150 / 5% ]	432-		1Side:S1		5% ]
2Side:S1   5%   5%	001				
002       Plain 2: Size Correction:FC       Paper Transfer: Low Spd: 1Side:S1       ENG* 5% 1       [ 100 to 995 / 100 / 5% ]         432- 003       Plain 2: Size Correction:FC       Paper Transfer: Low Spd: 2Side:S1       ENG* 5% ]       [ 100 to 995 / 100 / 5% ]         432- 004       Plain 2: Size Correction:FC       Paper Transfer: Low Spd: 1Side:S2       ENG* 5% ]       [ 100 to 995 / 118 / 5% ]         432- 007       Plain 2: Size Correction:FC       Paper Transfer: Low Spd: 2Side:S2       ENG* 5% ]       [ 100 to 995 / 150 / 5% ]	2-	Plain 2: Size Correction:FC	Paper Transfer: Std Spd:	ENG*	[ 100 to 995 / 100 /
2-       Plain 2: Size Correction:FC       Paper Transfer: Low Spd: 1Side:S1       ENG* 5% 1       [ 100 to 995 / 100 / 5% ]         2-       Plain 2: Size Correction:FC       Paper Transfer: Low Spd: 2Side:S1       ENG* [ 100 to 995 / 100 / 5% ]         432- 004       Plain 2: Size Correction:FC       Paper Transfer: Low Spd: 1Side:S2       ENG* [ 100 to 995 / 118 / 5% ]         432- 007       Plain 2: Size Correction:FC       Paper Transfer: Low Spd: 2Side:S2       ENG* [ 100 to 995 / 150 / 5% ]	432-		2Side:S1		5% ]
1Side:S1   5% ]	002				
003       Plain 2: Size Correction:FC       Paper Transfer: Low Spd: 2Side:S1       ENG* [100 to 995 / 100 / 5%]         432- 004       Plain 2: Size Correction:FC       Paper Transfer: Low Spd: 1Side:S2       ENG* [100 to 995 / 118 / 5%]         432- 007       Plain 2: Size Correction:FC       Paper Transfer: Low Spd: 5%]       ENG* [100 to 995 / 150 / 5%]         2- 007       Plain 2: Size Correction:FC       Paper Transfer: Low Spd: 2Side:S2       ENG* [100 to 995 / 150 / 5%]	2-	Plain 2: Size Correction:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 100 /
2-       Plain 2: Size Correction:FC       Paper Transfer: Low Spd: 2Side:S1       ENG* [100 to 995 / 100 / 5%]         432- 004       Plain 2: Size Correction:FC       Paper Transfer: Low Spd: 1Side:S2       ENG* [100 to 995 / 118 / 5%]         432- 007       Plain 2: Size Correction:FC       Paper Transfer: Low Spd: 2Side:S2       ENG* [100 to 995 / 150 / 5%]	432-		1Side:S1		5% ]
432- 004  2- Plain 2: Size Correction:FC Paper Transfer: Low Spd: 1 Side:S2  Plain 2: Size Correction:FC Paper Transfer: Low Spd: 1 Side:S2  Plain 2: Size Correction:FC Paper Transfer: Low Spd: 2- Plain 2: Size Correction:FC Paper Transfer: Low Spd: 2- Side:S2  Plain 2: Size Correction:FC Paper Transfer: Low Spd: 2- Side:S2  Plain 2: Size Correction:FC Paper Transfer: Low Spd: 2- Side:S2	003				
004       Plain 2: Size Correction:FC       Paper Transfer: Low Spd: 1Side:S2       ENG* [100 to 995 / 118 / 5%]         432- 007       1Side:S2       5%]         2- Plain 2: Size Correction:FC       Paper Transfer: Low Spd: 2Side:S2       ENG* [100 to 995 / 150 / 5%]	2-	Plain 2: Size Correction:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 100 /
2-       Plain 2: Size Correction:FC       Paper Transfer: Low Spd: 1Side:S2       ENG* [100 to 995 / 118 / 5%]         432- 007       1Side:S2       5% ]         2-       Plain 2: Size Correction:FC       Paper Transfer: Low Spd: 2Side:S2       ENG* [100 to 995 / 150 / 5%]	432-		2Side:S1		5% ]
432-       1Side:S2       5% ]         007       Plain 2: Size Correction:FC       Paper Transfer: Low Spd: 2Side:S2       ENG* [100 to 995 / 150 / 5% ]	004				
007       Plain 2: Size Correction:FC       Paper Transfer: Low Spd: ENG* [ 100 to 995 / 150 / 2Side:S2       ENG* [ 100 to 995 / 150 / 5% ]	2-	Plain 2: Size Correction:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 118 /
2- Plain 2: Size Correction:FC Paper Transfer: Low Spd: ENG* [ 100 to 995 / 150 / 2Side:S2 5% ]	432-		1Side:S2		5% ]
432- 2Side:S2 5%]	007				
	2-	Plain 2: Size Correction:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 150 /
008	432-		2Side:S2		5% ]
	008				

	1			
2-	Plain 2: Size Correction:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 136 /
432-		1Side:S3		5% ]
011				
2-	Plain 2: Size Correction:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 180 /
432-		2Side:S3		5% ]
012				
2-	Plain 2: Size Correction:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 140 /
432-		1Side:S4		5% ]
015				
2-	Plain 2: Size Correction:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 250 /
432-		2Side:S4		5%]
016				
2-	Plain 2: Size-Env.Correct:BW	Paper Transfer: Std Spd:	ENG*	[ 1 to 100 / 33 / 1 ]
433-		1Side:S1		
001				
2-	Plain 2: Size-Env.Correct:BW	Paper Transfer: Std Spd:	ENG*	[ 1 to 100 / 34 / 1 ]
433-		2Side:S1		
002				
2-	Plain 2: Size-Env.Correct:BW	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 37 / 1 ]
433-		1Side:S1		
003				
2-	Plain 2: Size-Env.Correct:BW	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 38 / 1 ]
433-		2Side:S1		
004				
2-	Plain 2: Size-Env.Correct:BW	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 39 / 1 ]
433-		1Side:S2		
007				
2-	Plain 2: Size-Env.Correct:BW	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 40 / 1 ]
433-		2Side:S2		
008				
2-	Plain 2: Size-Env.Correct:BW	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 41 / 1 ]
433-		1Side:S3		
011				
2-	Plain 2: Size-Env.Correct:BW	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 42 / 1 ]
433-		2Side:S3		
012				
2-	Plain 2: Size-Env.Correct:BW	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 43 / 1 ]
433-		1Side:S4		
015				
	L	1		<u>I</u>

2-	Plain 2: Size-Env.Correct:BW	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 44 / 1 ]
433-		2Side:S4		
016				
2-	Plain 2: Size-Env.Correct:FC	Paper Transfer: Std Spd:	ENG*	[ 1 to 100 / 35 / 1 ]
434-		1Side:S1		
001				
2-	Plain 2: Size-Env.Correct:FC	Paper Transfer: Std Spd:	ENG*	[ 1 to 100 / 36 / 1 ]
434-		2Side:S1		
002				
2-	Plain 2: Size-Env.Correct:FC	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 37 / 1 ]
434-		1Side:S1		
003				
2-	Plain 2: Size-Env.Correct:FC	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 38 / 1 ]
434-		2Side:S1		
004				
2-	Plain 2: Size-Env.Correct:FC	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 39 / 1 ]
434-		1Side:S2		
007				
2-	Plain 2: Size-Env.Correct:FC	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 40 / 1 ]
434-		2Side:S2		
008				
2-	Plain 2: Size-Env.Correct:FC	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 41 / 1 ]
434-		1Side:S3		
011				
2-	Plain 2: Size-Env.Correct:FC	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 42 / 1 ]
434-		2Side:S3		
012				
2-	Plain 2: Size-Env.Correct:FC	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 43 / 1 ]
434-		1Side:S4		
015				
2-	Plain 2: Size-Env.Correct:FC	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 44 / 1 ]
434-		2Side:S4		
016				
2-	Plain 2: Leading Edge Correct.	Paper Transfer: Std Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
435-		1Side		
001				
2-	Plain 2: Leading Edge Correct.	Paper Transfer: Std Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
435-		2Side		
002				

	T			1
2-	Plain 2: Leading Edge Correct.	Paper Transfer: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
435-		1Side		
003				
2-	Plain 2: Leading Edge Correct.	Paper Transfer: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
435-		2Side		
004				
2-	Plain 2: Leading Edge Correct.	Separation DC: Std Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
435-		1Side		
005				
2-	Plain 2: Leading Edge Correct.	Separation DC: Std Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
435-		2Side		
006				
2-	Plain 2: Leading Edge Correct.	Separation DC: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
435-		1Side		
007				
2-	Plain 2: Leading Edge Correct.	Separation DC: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
435-		2Side		
008				
2-	Plain 2: SW Timing Lead Edge	Paper Transfer: Std Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
436-		1Side		
001				
2-	Plain 2: SW Timing Lead Edge	Paper Transfer: Std Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
436-		2Side		
002				
2-	Plain 2: SW Timing Lead Edge	Paper Transfer: Low Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
436-		1Side		
003				
2-	Plain 2: SW Timing Lead Edge	Paper Transfer: Low Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
436-		2Side		
004				
2-	Plain 2: SW Timing Lead Edge	Separation DC: Std Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
436-		1Side		
005				
2-	Plain 2: SW Timing Lead Edge	Separation DC: Std Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
436-		2Side		
006				
2-	Plain 2: SW Timing Lead Edge	Separation DC: Low Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
436-		1Side		
007				
	·			<u>I</u>

2- 436-	Plain 2: SW Timing Lead Edge	Separation DC: Low Spd: 2Side	ENG*	[ 0 to 50 / 0 / 2mm ]
008 2- 437-	Plain 2: Trail Edge Correction	Paper Transfer: Std Spd: 1Side	ENG*	[ 0 to 995 / 100 / 5% ]
001 2- 437-	Plain 2: Trail Edge Correction	Paper Transfer: Std Spd: 2Side	ENG*	[ 0 to 995 / 100 / 5% ]
2- 437-	Plain 2: Trail Edge Correction	Paper Transfer: Low Spd: 1Side	ENG*	[ 0 to 995 / 100 / 5% ]
003 2- 437-	Plain 2: Trail Edge Correction	Paper Transfer: Low Spd: 2Side	ENG*	[ 0 to 995 / 100 / 5% ]
004 2- 437- 005	Plain 2: Trail Edge Correction	Separation DC: Std Spd: 1Side	ENG*	[ 0 to 995 / 100 / 5% ]
2- 437- 006	Plain 2: Trail Edge Correction	Separation DC: Std Spd: 2Side	ENG*	[ 0 to 995 / 100 / 5% ]
2- 437- 007	Plain 2: Trail Edge Correction	Separation DC: Low Spd: 1Side	ENG*	[ 0 to 995 / 100 / 5% ]
2- 437- 008	Plain 2: Trail Edge Correction	Separation DC: Low Spd: 2Side	ENG*	[ 0 to 995 / 100 / 5% ]
2- 438- 001	Plain 2: SW Timing Trail Edge	Paper Transfer: Std Spd: 1Side	ENG*	[ 0 to 50 / 0 / 2mm ]
2- 438- 002	Plain 2: SW Timing Trail Edge	Paper Transfer: Std Spd: 2Side	ENG*	[ 0 to 50 / 0 / 2mm ]
2- 438- 003	Plain 2: SW Timing Trail Edge	Paper Transfer: Low Spd: 1Side	ENG*	[ 0 to 50 / 0 / 2mm ]
2- 438- 004	Plain 2: SW Timing Trail Edge	Paper Transfer: Low Spd: 2Side	ENG*	[ 0 to 50 / 0 / 2mm ]

	Plain 2: SW Timing Trail Edge	Separation DC: Std Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
438-		1Side		
005				
2-	Plain 2: SW Timing Trail Edge	Separation DC: Std Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
438-		2Side		
006				
2-	Plain 2: SW Timing Trail Edge	Separation DC: Low Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
438-		1Side		
007				
2-	Plain 2: SW Timing Trail Edge	Separation DC: Low Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
438-		2Side		
008				
2-	Plain 2: Envir Correct. Table	Separation DC: Std Spd:	ENG*	[ 1 to 100 / 30 / 1 ]
439-		1Side		
013				
2-	Plain 2: Envir Correct. Table	Separation DC: Std Spd:	ENG*	[ 1 to 100 / 30 / 1 ]
439-		2Side		
014				
2-	Plain 2: Envir Correct. Table	Separation DC: Low Spd:	ENG*	[ 1 to 100 / 30 / 1 ]
439-		1Side		
015				
2-	Plain 2: Envir Correct. Table	Separation DC: Low Spd:	ENG*	[ 1 to 100 / 30 / 1 ]
439-		2Side		
016				
2-	Plain 2: Edge Envir Correct.	Separation DC: Std Spd:	ENG*	[ 1 to 100 / 50 / 1 ]
439-		1Side		
017				
2-	Plain 2: Edge Envir Correct.	Separation DC: Std Spd:	ENG*	[ 1 to 100 / 50 / 1 ]
439-		2Side		
018				
2-	Plain 2: Edge Envir Correct.	Separation DC: Low Spd:	ENG*	[ 1 to 100 / 50 / 1 ]
439-		1Side		
019				
2-	Plain 2: Edge Envir Correct.	Separation DC: Low Spd:	ENG*	[ 1 to 100 / 50 / 1 ]
439-		2Side		
020				
2-	T1 at low temp and tempolarity	Low speed:K	ENG*	[ 0 to 2100 / 1300 /
441-				10V]
001				

2-	T1 at low temp and tempolarity	Low speed:C	ENG*	[ 0 to 2100 / 1300 /
441- 002				10V ]
2-	T1 at low temp and tempolarity	Low speed:M	ENG*	[ 0 to 2100 / 1300 /
441-				10V]
003				
2-	T1 at low temp and tempolarity	Low speed:Y	ENG*	[ 0 to 2100 / 1300 /
441-				10V ]
004				
2-	M-Thick: Bias: BW	Paper Transfer: Std/Mid	ENG*	[ 0 to 200 / 20 / 1uA ]
443-		Spd: 1Side		
001				50. 200/45/4
2-	M-Thick: Bias: BW	Paper Transfer: Std/Mid	ENG*	[ 0 to 200 / 16 / 1uA ]
443- 002		Spd: 2Side		
2-	M-Thick; Bias; BW	Paper Transfer: Low Spd:	ENG*	[ 0 to 200 / 10 / 1uA ]
443-	WI-THICK. Dias. DW	1 Side	LING	[0 to 2007 107 14A]
003		Islae		
2-	M-Thick: Bias: BW	Paper Transfer: Low Spd:	ENG*	[ 0 to 200 / 8 / 1uA ]
443-		2Side		
004				
2-	M-Thick: Bias: FC	Paper Transfer: Std/Mid	ENG*	[ 0 to 200 / 22 / 1uA ]
447-		Spd: 1Side		
001				
2-	M-Thick: Bias: FC	Paper Transfer: Std/Mid	ENG*	[ 0 to 200 / 18 / 1uA ]
447-		Spd: 2Side		
002				
2-	M-Thick: Bias: FC	Paper Transfer: Low Spd:	ENG*	[ 0 to 200 / 11 / 1uA ]
447-		1Side		
003	M This by Dissa EC	D	ENC*	[ 0 4- 200 / 10 / 1 A ]
2-	M-Thick: Bias: FC	Paper Transfer: Low Spd: 2Side	ENG*	[ 0 to 200 / 10 / 1uA ]
447- 004		23140		
2-	M-Thick: Size Correction:BW	Paper Transfer: Std/Mid	ENG*	[ 100 to 995 / 100 /
451-	THICK. SIZE COITECTION.D W	Spd: 1Side:S1	2.10	5%]
001				
2-	M-Thick: Size Correction:BW	Paper Transfer: Std/Mid	ENG*	[ 100 to 995 / 100 /
451-		Spd: 2Side:S1		5%]
002				

	M.T. I. G. G		ENICA	F 100 / 005 / 100 /
2-	M-Thick: Size Correction:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 100 /
451-		1Side:S1		5%]
003				
2-	M-Thick: Size Correction:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 100 /
451-		2Side:S1		5% ]
004				
2-	M-Thick: Size Correction:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 130 /
451-		1Side:S2		5% ]
007				
2-	M-Thick: Size Correction:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 163 /
451-		2Side:S2		5% ]
008				
2-	M-Thick: Size Correction:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 150 /
451-		1Side:S3		5% ]
011				
2-	M-Thick: Size Correction:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 250 /
451-		2Side:S3		5%]
012				
2-	M-Thick: Size Correction:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 150 /
451-		1Side:S4		5% ]
015				
2-	M-Thick: Size Correction:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 375 /
451-		2Side:S4		5% ]
016				
2-	M-Thick: Size Correction:FC	Paper Transfer: Std/Mid	ENG*	[ 100 to 995 / 100 /
452-		Spd: 1Side:S1		5%]
001				
2-	M-Thick: Size Correction:FC	Paper Transfer: Std/Mid	ENG*	[ 100 to 995 / 100 /
452-		Spd: 2Side:S1		5%]
002				
2-	M-Thick: Size Correction:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 100 /
452-		1Side:S1		5%]
003				
2-	M-Thick: Size Correction:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 100 /
452-	300000000000000000000000000000000000000	2Side:S1		5%]
004				
2-	M-Thick: Size Correction:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 136 /
452-	111 Timer. Size Correction.i C	1Side:S2	2710	5%]
007		10100.02		370]
007				

2- 452-	M-Thick: Size Correction:FC	Paper Transfer: Low Spd: 2Side:S2	ENG*	[ 100 to 995 / 180 / 5% ]
008				
2-	M-Thick: Size Correction:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 150 /
452-		1Side:S3		5%]
011				
2-	M-Thick: Size Correction:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 250 /
452-		2Side:S3		5%]
012				
2-	M-Thick: Size Correction:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 150 /
452-		1Side:S4		5%]
015				
2-	M-Thick: Size Correction:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 350 /
452-		2Side:S4		5% ]
016				
2-	M-Thick: Size-Env.Correct:BW	Paper Transfer: Std/Mid	ENG*	[ 1 to 100 / 21 / 1 ]
453-		Spd: 1Side:S1		
001				
2-	M-Thick: Size-Env.Correct:BW	Paper Transfer: Std/Mid	ENG*	[ 1 to 100 / 22 / 1 ]
453-		Spd: 2Side:S1		
002	M-Thick: Size-Env.Correct:BW	Doman Transfort Lavy Smd.	ENG*	[1 to 100 / 47 / 1 ]
453-	WI-THICK. SIZE-EHV.COHECL.BW	Paper Transfer: Low Spd: 1Side:S1	ENG	[ 1 to 100 / 47 / 1 ]
003		1Side.S1		
2-	M-Thick: Size-Env.Correct:BW	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 48 / 1 ]
453-	W Thick. Size Env. concet. B W	2Side:S1	Live	
004		251,0151		
2-	M-Thick: Size-Env.Correct:BW	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 49 / 1 ]
453-		1Side:S2		
007				
2-	M-Thick: Size-Env.Correct:BW	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 50 / 1 ]
453-		2Side:S2		
008				
2-	M-Thick: Size-Env.Correct:BW	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 51 / 1 ]
453-		1Side:S3		
011				
2-	M-Thick: Size-Env.Correct:BW	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 52 / 1 ]
453-		2Side:S3		
012				

	T	T	T	1
2-	M-Thick: Size-Env.Correct:BW	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 53 / 1 ]
453-		1Side:S4		
015				
2-	M-Thick: Size-Env.Correct:BW	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 54 / 1 ]
453-		2Side:S4		
016				
2-	M-Thick: Size-Env.Correct:FC	Paper Transfer: Std/Mid	ENG*	[ 1 to 100 / 45 / 1 ]
454-		Spd: 1Side:S1		
001				
2-	M-Thick: Size-Env.Correct:FC	Paper Transfer: Std/Mid	ENG*	[ 1 to 100 / 46 / 1 ]
454-		Spd: 2Side:S1		
002				
2-	M-Thick: Size-Env.Correct:FC	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 47 / 1 ]
454-		1Side:S1		
003				
2-	M-Thick: Size-Env.Correct:FC	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 48 / 1 ]
454-		2Side:S1		
004				
2-	M-Thick: Size-Env.Correct:FC	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 49 / 1 ]
454-		1Side:S2		
007				
2-	M-Thick: Size-Env.Correct:FC	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 50 / 1 ]
454-		2Side:S2		
008				
2-	M-Thick: Size-Env.Correct:FC	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 51 / 1 ]
454-		1Side:S3		
011				
2-	M-Thick: Size-Env.Correct:FC	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 52 / 1 ]
454-		2Side:S3		
012				
2-	M-Thick: Size-Env.Correct:FC	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 53 / 1 ]
454-		1Side:S4		
015				
2-	M-Thick: Size-Env.Correct:FC	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 54 / 1 ]
454-		2Side:S4		,
016				
2-	M-Thick: Leading Edge Correct.	Paper Transfer: Std/Mid	ENG*	[ 0 to 995 / 100 / 5% ]
455-	<i>56</i>	Spd: 1Side		
001		1		
			1	

2- 455- 002	M-Thick: Leading Edge Correct.	Paper Transfer: Std/Mid Spd: 2Side	ENG*	[ 0 to 995 / 100 / 5% ]
2- 455- 003	M-Thick: Leading Edge Correct.	Paper Transfer: Low Spd: 1Side	ENG*	[ 0 to 995 / 100 / 5% ]
2- 455- 004	M-Thick: Leading Edge Correct.	Paper Transfer: Low Spd: 2Side	ENG*	[ 0 to 995 / 100 / 5% ]
2- 455- 005	M-Thick: Leading Edge Correct.	Separation DC: Std Spd: 1Side	ENG*	[ 0 to 995 / 100 / 5% ]
2- 455- 006	M-Thick: Leading Edge Correct.	Separation DC: Std Spd: 2Side	ENG*	[ 0 to 995 / 100 / 5% ]
2- 455- 007	M-Thick: Leading Edge Correct.	Separation DC: Low Spd: 1Side	ENG*	[ 0 to 995 / 100 / 5% ]
2- 455- 008	M-Thick: Leading Edge Correct.	Separation DC: Low Spd: 2Side	ENG*	[ 0 to 995 / 100 / 5% ]
2- 456- 001	M-Thick: SW Timing Lead Edge	Paper Transfer: Std/Mid Spd: 1Side	ENG*	[ 0 to 50 / 0 / 2mm ]
2- 456- 002	M-Thick: SW Timing Lead Edge	Paper Transfer: Std/Mid Spd: 2Side	ENG*	[ 0 to 50 / 0 / 2mm ]
2- 456- 003	M-Thick: SW Timing Lead Edge	Paper Transfer: Low Spd: 1Side	ENG*	[ 0 to 50 / 0 / 2mm ]
2- 456- 004	M-Thick: SW Timing Lead Edge	Paper Transfer: Low Spd: 2Side	ENG*	[ 0 to 50 / 0 / 2mm ]
2- 456- 005	M-Thick: SW Timing Lead Edge	Separation DC: Std Spd: 1Side	ENG*	[ 0 to 50 / 0 / 2mm ]
2- 456- 006	M-Thick: SW Timing Lead Edge	Separation DC: Std Spd: 2Side	ENG*	[ 0 to 50 / 0 / 2mm ]

2-	M-Thick: SW Timing Lead Edge	Separation DC: Low Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
456-		1Side		
007				
2-	M-Thick: SW Timing Lead Edge	Separation DC: Low Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
456-		2Side		
008				
2-	M-Thick: Trail Edge Correction	Paper Transfer: Std/Mid	ENG*	[ 0 to 995 / 100 / 5% ]
457-		Spd: 1Side		
001				
2-	M-Thick: Trail Edge Correction	Paper Transfer: Std/Mid	ENG*	[ 0 to 995 / 100 / 5% ]
457-		Spd: 2Side		
002				
2-	M-Thick: Trail Edge Correction	Paper Transfer: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
457-		1Side		
003				
2-	M-Thick: Trail Edge Correction	Paper Transfer: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
457-		2Side		
004				
2-	M-Thick: Trail Edge Correction	Separation DC: Std Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
457-		1Side		
005				
2-	M-Thick: Trail Edge Correction	Separation DC: Std Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
457-		2Side		
006				
2-	M-Thick: Trail Edge Correction	Separation DC: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
457-		1Side		
007				
2-	M-Thick: Trail Edge Correction	Separation DC: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
457-		2Side		
008				
2-	M-Thick: SW Timing Trail Edge	Paper Transfer: Std/Mid	ENG*	[ 0 to 50 / 0 / 2mm ]
458-		Spd: 1Side		
001				
2-	M-Thick: SW Timing Trail Edge	Paper Transfer: Std/Mid	ENG*	[ 0 to 50 / 0 / 2mm ]
458-		Spd: 2Side		
002				
2-	M-Thick: SW Timing Trail Edge	Paper Transfer: Low Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
458-		1Side		
003				
0.6			•	

2-					
2-   M-Thick: SW Timing Trail Edge	458-	M-Thick: SW Timing Trail Edge		ENG*	[ 0 to 50 / 0 / 2mm ]
458-   005					
Dots   Commonwealth   Commonwealth		M-Thick: SW Timing Trail Edge		ENG*	[ 0 to 50 / 0 / 2mm ]
2-   M-Thick: SW Timing Trail Edge   Separation DC: Std Spd:   ENG*   [0 to 50 / 0 / 2mm]			1Side		
A58-   M-Thick: SW Timing Trail Edge   Separation DC: Low Spd:   ENG*   [0 to 50/0/2mm]					
006         M-Thick: SW Timing Trail Edge 458- 907         Separation DC: Low Spd: 15ide         ENG* 10 to 50/0/2mm]         [0 to 50/0/2mm]         ENG* 10 to 50/0/2mm]         [1 to 50/0/2mm]         [1 to 50/0/2mm]         [2 to 50/0/2mm]         [2 to 50/0/2mm]         [2 to 50/0/2mm]         [3 to 50/0/2mm]         [3 to 50/0/2mm]         [4 to 50/0/2mm]         [4 to 50/0/2mm]         [4 to 50/0/2mm]         [5 to 50/0/2mm]         [5 to 50/0/2mm]         [5 to 50/0/2mm]         [5 to 50/0/2mm]         [6 to 50/0/2mm]         [6 to 50/0/2mm]         [6 to 50/0/2mm]         [6 to 50/0/2mm]         [7 to 50		M-Thick: SW Timing Trail Edge		ENG*	[ 0 to 50 / 0 / 2mm ]
2-			2Side		
458-   007					50. 50/0/5
007         M-Thick: SW Timing Trail Edge 458- 25ide         Separation DC: Low Spd: 25ide         ENG* [0 to 50/0/2mm]         [0 to 50/0/2mm]         ENG* [1 to 100/30/1]         [1 to 100/30/1]         ENG* [1 to 100/30/1]         [1 to 100/50/1]         [2 to 100/50/1]         [		M-Thick: SW Timing Trail Edge		ENG*	[ 0 to 50 / 0 / 2mm ]
2-			1Side		
A58-		Mali I CHIA: ' To 'I D I	g d DG I g I	ENIO#	50, 50,0,2
O08		M-Thick: SW Timing Trail Edge		ENG*	[ 0 to 50 / 0 / 2mm ]
2-   M-Thick: Envir Correct. Table   Separation DC: Std Spd:   I to 100/30/1			281de		
1   1   1   1   1   1   1   1   1   1		M Thisle Famin Come of Table	Company DC, Ctd Code	ENC*	[ 1 4- 100 / 20 / 1 ]
013         M-Thick: Envir Correct. Table         Separation DC: Std Spd: 2Side         ENG* [1 to 100/30/1]           459- 014         M-Thick: Envir Correct. Table         Separation DC: Low Spd: 1Side         ENG* [1 to 100/30/1]           2- 459- 015         M-Thick: Envir Correct. Table         Separation DC: Low Spd: 2Side         ENG* [1 to 100/30/1]           2- 459- 016         M-Thick: Edge Envir Correction         Separation DC: Std Spd: 1Side         ENG* [1 to 100/50/1]           2- 459- 017         M-Thick: Edge Envir Correction         Separation DC: Std Spd: 2Side         ENG* [1 to 100/50/1]           2- 459- 018         M-Thick: Edge Envir Correction         Separation DC: Low Spd: 2Side         ENG* [1 to 100/50/1]           2- 459- 019         M-Thick: Edge Envir Correction         Separation DC: Low Spd: 1Side         ENG* [1 to 100/50/1]           2- 459- 019         M-Thick: Edge Envir Correction         Separation DC: Low Spd: 1Side         ENG* [1 to 100/50/1]           2- 459- 019         M-Thick: Edge Envir Correction         Separation DC: Low Spd: 1Side         ENG* [1 to 100/50/1]		M-I nick: Envir Correct. Table		ENG*	[1 to 100 / 30 / 1]
2-         M-Thick: Envir Correct. Table         Separation DC: Std Spd: 2Side         ENG* [1 to 100 / 30 / 1]           2-         M-Thick: Envir Correct. Table 459- 015         Separation DC: Low Spd: 1Side         ENG* [1 to 100 / 30 / 1]           2-         M-Thick: Envir Correct. Table 2Side 2Side         Separation DC: Low Spd: 2Side 2Side         ENG* [1 to 100 / 30 / 1]           2-         M-Thick: Edge Envir Correction 459- 017         Separation DC: Std Spd: 1Side 2Side 2S			TSide		
A59-   O14		M Thick: Envir Correct Table	Sanaration DC: Std Snd:	ENC*	[ 1 to 100 / 20 / 1 ]
014         M-Thick: Envir Correct. Table         Separation DC: Low Spd: 1Side         ENG* [1 to 100 / 30 / 1]           2- 459- 015         M-Thick: Envir Correct. Table         Separation DC: Low Spd: 2Side         ENG* [1 to 100 / 30 / 1]           2- 459- 016         M-Thick: Edge Envir Correction         Separation DC: Std Spd: 1Side         ENG* [1 to 100 / 50 / 1]           2- 459- 017         M-Thick: Edge Envir Correction         Separation DC: Std Spd: 2Side         ENG* [1 to 100 / 50 / 1]           2- 459- 018         M-Thick: Edge Envir Correction         Separation DC: Low Spd: 1Side         ENG* [1 to 100 / 50 / 1]           2- 459- 019         M-Thick: Edge Envir Correction         Separation DC: Low Spd: 1Side         ENG* [1 to 100 / 50 / 1]           459- 019         M-Thick: Edge Envir Correction         Separation DC: Low Spd: 1Side         ENG* [1 to 100 / 50 / 1]		WI-THICK. EIIVII COITECT. Table		ENG.	[1 to 100 / 30 / 1]
2- 459- 015         M-Thick: Envir Correct. Table         Separation DC: Low Spd: 1Side         ENG* ENG*         [ 1 to 100/30/1 ]           2- 459- 016         M-Thick: Envir Correct. Table         Separation DC: Low Spd: 2Side         ENG* ENG*         [ 1 to 100/30/1 ]           459- 017         M-Thick: Edge Envir Correction         Separation DC: Std Spd: 1Side         ENG* ENG*         [ 1 to 100/50/1 ]           2- 459- 018         M-Thick: Edge Envir Correction         Separation DC: Std Spd: 2Side         ENG* ENG*         [ 1 to 100/50/1 ]           2- 459- 019         M-Thick: Edge Envir Correction         Separation DC: Low Spd: 1Side         ENG* ENG*         [ 1 to 100/50/1 ]           459- 019         M-Thick: Edge Envir Correction         Separation DC: Low Spd: 1Side         ENG*         [ 1 to 100/50/1 ]			ZSIGC		
1   1   1   1   1   1   1   1   1   1		M-Thick: Envir Correct Table	Separation DC: Low Snd:	ENG*	[ 1 to 100 / 30 / 1 ]
015       M-Thick: Envir Correct. Table       Separation DC: Low Spd: 2Side       ENG* [1 to 100/30/1]         459- 016       M-Thick: Edge Envir Correction       Separation DC: Std Spd: 1Side       ENG* [1 to 100/50/1]         2- M-Thick: Edge Envir Correction       Separation DC: Std Spd: 2Side       ENG* [1 to 100/50/1]         459- 018       M-Thick: Edge Envir Correction       Separation DC: Low Spd: 1Side       ENG* [1 to 100/50/1]         2- M-Thick: Edge Envir Correction       Separation DC: Low Spd: 1Side       ENG* [1 to 100/50/1]         2- M-Thick: Edge Envir Correction       Separation DC: Low Spd: 1Side       ENG* [1 to 100/50/1]		W Thick. Envir Concet. Tuoic		LIVE	
2-       M-Thick: Envir Correct. Table       Separation DC: Low Spd: 2Side       ENG* [1 to 100/30/1]         2-       M-Thick: Edge Envir Correction 459-017       Separation DC: Std Spd: 1Side       ENG* [1 to 100/50/1]         2-       M-Thick: Edge Envir Correction 459-018       Separation DC: Std Spd: 2Side       ENG* [1 to 100/50/1]         2-       M-Thick: Edge Envir Correction 459-019       Separation DC: Low Spd: 1Side       ENG* [1 to 100/50/1]         2-       M-Thick: Edge Envir Correction 52-019       Separation DC: Low Spd: 2Side       ENG* [1 to 100/50/1]         2-       M-Thick: Edge Envir Correction 52-019       Separation DC: Low Spd: 2Side       ENG* [1 to 100/50/1]					
2Side     2Side     2Side     2     2		M-Thick: Envir Correct. Table	Separation DC: Low Spd:	ENG*	[ 1 to 100 / 30 / 1 ]
016       M-Thick: Edge Envir Correction       Separation DC: Std Spd: 1Side       ENG* [1 to 100 / 50 / 1]         459- 017       M-Thick: Edge Envir Correction       Separation DC: Std Spd: 2Side       ENG* [1 to 100 / 50 / 1]         2- M-Thick: Edge Envir Correction       Separation DC: Low Spd: 1Side       ENG* [1 to 100 / 50 / 1]         2- M-Thick: Edge Envir Correction       Separation DC: Low Spd: 1Side       ENG* [1 to 100 / 50 / 1]         2- M-Thick: Edge Envir Correction       Separation DC: Low Spd: ENG* [1 to 100 / 50 / 1]					
459-       1Side         21       M-Thick: Edge Envir Correction       Separation DC: Std Spd:       ENG*       [1 to 100 / 50 / 1]         25-       M-Thick: Edge Envir Correction       Separation DC: Low Spd:       ENG*       [1 to 100 / 50 / 1]         25-       M-Thick: Edge Envir Correction       Separation DC: Low Spd:       ENG*       [1 to 100 / 50 / 1]         25-       M-Thick: Edge Envir Correction       Separation DC: Low Spd:       ENG*       [1 to 100 / 50 / 1]	016				
017M-Thick: Edge Envir CorrectionSeparation DC: Std Spd: 2SideENG* ENG* ENG* 1 to 100 / 50 / 1 ]2- 459- 019M-Thick: Edge Envir Correction 1 Separation DC: Low Spd: 1 SideENG* ENG* [1 to 100 / 50 / 1 ]2- 019M-Thick: Edge Envir CorrectionSeparation DC: Low Spd: Separation DC: Low Spd:ENG* [1 to 100 / 50 / 1 ]	2-	M-Thick: Edge Envir Correction	Separation DC: Std Spd:	ENG*	[ 1 to 100 / 50 / 1 ]
2- M-Thick: Edge Envir Correction Separation DC: Std Spd: 2Side ENG* [1 to 100 / 50 / 1]  2- M-Thick: Edge Envir Correction Separation DC: Low Spd: ENG* [1 to 100 / 50 / 1]  459- 1Side Envir Correction Separation DC: Low Spd: ENG* [1 to 100 / 50 / 1]  2- M-Thick: Edge Envir Correction Separation DC: Low Spd: ENG* [1 to 100 / 50 / 1]	459-		1Side		
2Side  2Side  M-Thick: Edge Envir Correction Separation DC: Low Spd: ENG* [1 to 100 / 50 / 1]  1Side  M-Thick: Edge Envir Correction Separation DC: Low Spd: ENG* [1 to 100 / 50 / 1]  ENG* [1 to 100 / 50 / 1]	017				
018M-Thick: Edge Envir CorrectionSeparation DC: Low Spd: 1SideENG* ENG* 1Side[1 to 100 / 50 / 1]2-M-Thick: Edge Envir CorrectionSeparation DC: Low Spd:ENG*[1 to 100 / 50 / 1]	2-	M-Thick: Edge Envir Correction	Separation DC: Std Spd:	ENG*	[ 1 to 100 / 50 / 1 ]
2- M-Thick: Edge Envir Correction Separation DC: Low Spd: ENG* [1 to 100 / 50 / 1]  1Side  1Side  M-Thick: Edge Envir Correction Separation DC: Low Spd: ENG* [1 to 100 / 50 / 1]	459-		2Side		
459-       1Side	018				
019 2- M-Thick: Edge Envir Correction Separation DC: Low Spd: ENG* [1 to 100 / 50 / 1]	2-	M-Thick: Edge Envir Correction	Separation DC: Low Spd:	ENG*	[ 1 to 100 / 50 / 1 ]
2- M-Thick: Edge Envir Correction Separation DC: Low Spd: ENG* [1 to 100 / 50 / 1]	459-		1Side		
	019				
	2-	M-Thick: Edge Envir Correction	Separation DC: Low Spd:	ENG*	[ 1 to 100 / 50 / 1 ]
459-   2Side	459-		2Side		
020	020				

2-	Thick 1: Bias	Separation DC: 1Side	ENG*	[ 0 to 4000 / 0 / 10-V ]
481-				
003				
2-	Thick 1: Bias	Separation DC: 2Side	ENG*	[ 0 to 4000 / 0 / 10-V ]
481-				
004				
2-	Thick 1: Bias: BW	Paper Transfer: 1Side	ENG*	[ 0 to 200 / 14 / 1uA ]
483-				
003				
2-	Thick 1: Bias: BW	Paper Transfer: 2Side	ENG*	[ 0 to 200 / 9 / 1uA ]
483-				
004				
2-	Thick 1: Bias: FC	Paper Transfer: 1Side	ENG*	[ 0 to 200 / 15 / 1uA ]
487-				
003				
2-	Thick 1: Bias: FC	Paper Transfer: 2Side	ENG*	[ 0 to 200 / 11 / 1uA ]
487-				
004				
2-	Thick 1: Size Correction:BW	Paper Transfer: 1Side:S1	ENG*	[ 100 to 995 / 100 /
491-				5% ]
003				
2-	Thick 1: Size Correction:BW	Paper Transfer: 2Side:S1	ENG*	[ 100 to 995 / 100 /
491-				5% ]
004				
2-	Thick 1: Size Correction:BW	Paper Transfer: 1Side:S2	ENG*	[ 100 to 995 / 100 /
491-				5% ]
007				
2-	Thick 1: Size Correction:BW	Paper Transfer: 2Side:S2	ENG*	[ 100 to 995 / 156 /
491-				5% ]
008				
2-	Thick 1: Size Correction:BW	Paper Transfer: 1Side:S3	ENG*	[ 100 to 995 / 100 /
491-				5% ]
011				
2-	Thick 1: Size Correction:BW	Paper Transfer: 2Side:S3	ENG*	[ 100 to 995 / 167 /
491-				5% ]
012				
2-	Thick 1: Size Correction:BW	Paper Transfer: 1Side:S4	ENG*	[ 100 to 995 / 107 /
491-				5% ]
015				

2-	Thick 1: Size Correction:BW	Paper Transfer: 2Side:S4	ENG*	[ 100 to 995 / 278 /
491-				5%]
016				
2-	Thick 1: Size Correction:FC	Paper Transfer: 1Side:S1	ENG*	[ 100 to 995 / 100 /
492-				5% ]
003				
2-	Thick 1: Size Correction:FC	Paper Transfer: 2Side:S1	ENG*	[ 100 to 995 / 100 /
492-				5%]
004				
2-	Thick 1: Size Correction:FC	Paper Transfer: 1Side:S2	ENG*	[ 100 to 995 / 100 /
492-				5%]
007				
2-	Thick 1: Size Correction:FC	Paper Transfer: 2Side:S2	ENG*	[ 100 to 995 / 164 /
492-				5% ]
008				
2-	Thick 1: Size Correction:FC	Paper Transfer: 1Side:S3	ENG*	[ 100 to 995 / 120 /
492-				5% ]
011				
2-	Thick 1: Size Correction:FC	Paper Transfer: 2Side:S3	ENG*	[ 100 to 995 / 227 /
492-				5% ]
012				
2-	Thick 1: Size Correction:FC	Paper Transfer: 1Side:S4	ENG*	[ 100 to 995 / 130 /
492-				5% ]
015				
2-	Thick 1: Size Correction:FC	Paper Transfer: 2Side:S4	ENG*	[ 100 to 995 / 364 /
492-				5% ]
016				
2-	Thick 1: Size-Env.Correct:BW	Paper Transfer: 1Side:S1	ENG*	[ 1 to 100 / 59 / 1 ]
493-				
003				
2-	Thick 1: Size-Env.Correct:BW	Paper Transfer: 2Side:S1	ENG*	[ 1 to 100 / 60 / 1 ]
493-				
004				
2-	Thick 1: Size-Env.Correct:BW	Paper Transfer: 1Side:S2	ENG*	[ 1 to 100 / 61 / 1 ]
493-				
007				
2-	Thick 1: Size-Env.Correct:BW	Paper Transfer: 2Side:S2	ENG*	[ 1 to 100 / 62 / 1 ]
493-				
008				00

2-	Thick 1: Size-Env.Correct:BW	Paper Transfer: 1Side:S3	ENG*	[ 1 to 100 / 55 / 1 ]
493-				
011				
2-	Thick 1: Size-Env.Correct:BW	Paper Transfer: 2Side:S3	ENG*	[ 1 to 100 / 56 / 1 ]
493-				
012				
2-	Thick 1: Size-Env.Correct:BW	Paper Transfer: 1Side:S4	ENG*	[ 1 to 100 / 57 / 1 ]
493-				
015				
2-	Thick 1: Size-Env.Correct:BW	Paper Transfer: 2Side:S4	ENG*	[ 1 to 100 / 58 / 1 ]
493-				
016				
2-	Thick 1: Size-Env.Correct:FC	Paper Transfer: 1Side:S1	ENG*	[ 1 to 100 / 59 / 1 ]
494-				
003				
2-	Thick 1: Size-Env.Correct:FC	Paper Transfer: 2Side:S1	ENG*	[ 1 to 100 / 60 / 1 ]
494-				
004				
2-	Thick 1: Size-Env.Correct:FC	Paper Transfer: 1Side:S2	ENG*	[ 1 to 100 / 61 / 1 ]
494-				
007				
2-	Thick 1: Size-Env.Correct:FC	Paper Transfer: 2Side:S2	ENG*	[ 1 to 100 / 62 / 1 ]
494-				
008				
2-	Thick 1: Size-Env.Correct:FC	Paper Transfer: 1Side:S3	ENG*	[ 1 to 100 / 63 / 1 ]
494-				
011				
2-	Thick 1: Size-Env.Correct:FC	Paper Transfer: 2Side:S3	ENG*	[ 1 to 100 / 64 / 1 ]
494-				
012				
2-	Thick 1: Size-Env.Correct:FC	Paper Transfer: 1Side:S4	ENG*	[ 1 to 100 / 65 / 1 ]
494-				
015				
2-	Thick 1: Size-Env.Correct:FC	Paper Transfer: 2Side:S4	ENG*	[ 1 to 100 / 66 / 1 ]
494-				
016				
2-	Thick 1: Leading Edge Correct.	Paper Transfer: 1Side	ENG*	[ 0 to 995 / 100 / 5% ]
495-				
003				

	1			1
2-	Thick 1: Leading Edge Correct.	Paper Transfer: 2Side	ENG*	[ 0 to 995 / 100 / 5% ]
495-				
004				
2-	Thick 1: Leading Edge Correct.	Separation DC: 1Side	ENG*	[ 0 to 995 / 100 / 5% ]
495-				
007				
2-	Thick 1: Leading Edge Correct.	Separation DC: 2Side	ENG*	[ 0 to 995 / 100 / 5% ]
495-				
008				
2-	Thick 1: SW Timing Lead Edge	Paper Transfer: 1Side	ENG*	[ 0 to 50 / 0 / 2mm ]
496-				
003				
2-	Thick 1: SW Timing Lead Edge	Paper Transfer: 2Side	ENG*	[ 0 to 50 / 0 / 2mm ]
496-				
004				
2-	Thick 1: SW Timing Lead Edge	Separation DC: 1Side	ENG*	[ 0 to 50 / 0 / 2mm ]
496-				
007				
2-	Thick 1: SW Timing Lead Edge	Separation DC: 2Side	ENG*	[ 0 to 50 / 0 / 2mm ]
496-				
008				
2-	Thick 1: Trail Edge Correction	Paper Transfer: 1Side	ENG*	[ 0 to 995 / 100 / 5% ]
497-				
003				
2-	Thick 1: Trail Edge Correction	Paper Transfer: 2Side	ENG*	[ 0 to 995 / 100 / 5% ]
497-				
004				
2-	Thick 1: Trail Edge Correction	Separation DC: 1Side	ENG*	[ 0 to 995 / 100 / 5% ]
497-				
007				
2-	Thick 1: Trail Edge Correction	Separation DC: 2Side	ENG*	[ 0 to 995 / 100 / 5% ]
497-				
008				
2-	Thick 1: SW Timing Trail Edge	Paper Transfer: 1Side	ENG*	[ 0 to 50 / 0 / 2mm ]
498-				
003				
2-	Thick 1: SW Timing Trail Edge	Paper Transfer: 2Side	ENG*	[ 0 to 50 / 0 / 2mm ]
498-				
004				
L	<u> </u>			1

2- Thick 1: SW Timing Trail Edge Separation DC: 1Side ENG* [ 0 to 50 / 0 / 2mm	]
498-	
007	
2- Thick 1: SW Timing Trail Edge Separation DC: 2Side ENG* [ 0 to 50 / 0 / 2mm	]
498-	
008	
2- Thick 1: Envir Correct. Table Separation DC: 1Side ENG* [ 1 to 100 / 30 / 1 ]	
499-	
015	
2- Thick 1: Envir Correct. Table Separation DC: 2Side ENG* [ 1 to 100 / 30 / 1 ]	
499-	
016	
2- Thick 1: Edge Envir Correct. Separation DC: 1Side ENG* [ 1 to 100 / 30 / 1 ]	
499-	
019	
2- Thick 1: Edge Envir Correct. Separation DC: 2Side ENG* [ 1 to 100 / 30 / 1 ]	
499-	
020	
2- Thick 2: Bias Separation DC: 1Side ENG* [ 0 to 4000 / 0 / 10	-V ]
501-	
003	
2- Thick 2: Bias Separation DC: 2Side ENG* [ 0 to 4000 / 0 / 10	-V ]
501-	
004	
2- Thick 2: Bias: BW Paper Transfer: 1Side ENG* [ 0 to 200 / 11 / 1u	A ]
503-	
003	
2- Thick 2: Bias: BW Paper Transfer: 2Side ENG* [ 0 to 200 / 8 / 1uA	.]
503-	
004	
2- Thick 2: Bias: FC Paper Transfer: 1Side ENG* [ 0 to 200 / 12 / 1u	A ]
507-	
003	
2- Thick 2: Bias: FC Paper Transfer: 2Side ENG* [ 0 to 200 / 9 / 1uA	.]
507-	
004	
2- Thick 2: Size Correction:BW Paper Transfer: 1Side:S1 ENG* [ 100 to 995 / 100	/
511-	
003	

2- 511-	Thick 2: Size Correction:BW	Paper Transfer: 2Side:S1	ENG*	[ 100 to 995 / 100 / 5% ]
004				370]
2-	Thick 2: Size Correction:BW	Paper Transfer: 1Side:S2	ENG*	[ 100 to 995 / 100 /
511-				5%]
007				
2-	Thick 2: Size Correction:BW	Paper Transfer: 2Side:S2	ENG*	[ 100 to 995 / 163 /
511-				5% ]
008				
2-	Thick 2: Size Correction:BW	Paper Transfer: 1Side:S3	ENG*	[ 100 to 995 / 136 /
511-				5% ]
011				
2-	Thick 2: Size Correction:BW	Paper Transfer: 2Side:S3	ENG*	[ 100 to 995 / 250 /
511-				5% ]
012	milia or or or but	D T 0 10:1 04	ENICA	F 100 + 007 / 164 /
2- 511-	Thick 2: Size Correction:BW	Paper Transfer: 1Side:S4	ENG*	[ 100 to 995 / 164 /
015				5%]
2-	Thick 2: Size Correction:BW	Paper Transfer: 2Side:S4	ENG*	[ 100 to 995 / 313 /
511-	Thick 2. Size Correction.bw	1 aper Transfer. 25fdc.54	LING	5%]
016				270]
2-	Thick 2: Size Correction:FC	Paper Transfer: 1Side:S1	ENG*	[ 100 to 995 / 100 /
512-				5%]
003				
2-	Thick 2: Size Correction:FC	Paper Transfer: 2Side:S1	ENG*	[ 100 to 995 / 100 /
512-				5%]
004				
2-	Thick 2: Size Correction:FC	Paper Transfer: 1Side:S2	ENG*	[ 100 to 995 / 100 /
512-				5% ]
007				
2-	Thick 2: Size Correction:FC	Paper Transfer: 2Side:S2	ENG*	[ 100 to 995 / 200 /
512-				5% ]
008	M1:100:0	D T 0 1011 00	ENIC:	F 100 / 207 / 120 /
2-	Thick 2: Size Correction:FC	Paper Transfer: 1Side:S3	ENG*	[ 100 to 995 / 138 /
512-				5%]
011	Thick 2: Size Correction:FC	Paper Transfer: 2Side:S3	ENG*	[ 100 to 995 / 278 /
512-	THICK 2. SIZE COHECHOH.FC	raper transfer. 25ide.55	ENG	5%]
012				3,01
U12				

	Thirt 2. Cir. C	Dan and Training Community 1 Co. 4	ENIC	F 100 4- 005 / 154 /
2-	Thick 2: Size Correction:FC	Paper Transfer: 1Side:S4	ENG*	[ 100 to 995 / 154 /
512-				5%]
015		D	The same of the sa	5.400 007/200/
2-	Thick 2: Size Correction:FC	Paper Transfer: 2Side:S4	ENG*	[ 100 to 995 / 389 /
512-				5% ]
016				
2-	Thick 2: Size-Env.Correct:BW	Paper Transfer: 1Side:S1	ENG*	[ 1 to 100 / 67 / 1 ]
513-				
003				
2-	Thick 2: Size-Env.Correct:BW	Paper Transfer: 2Side:S1	ENG*	[ 1 to 100 / 68 / 1 ]
513-				
004				
2-	Thick 2: Size-Env.Correct:BW	Paper Transfer: 1Side:S2	ENG*	[ 1 to 100 / 69 / 1 ]
513-				
007				
2-	Thick 2: Size-Env.Correct:BW	Paper Transfer: 2Side:S2	ENG*	[ 1 to 100 / 70 / 1 ]
513-				
008				
2-	Thick 2: Size-Env.Correct:BW	Paper Transfer: 1Side:S3	ENG*	[ 1 to 100 / 71 / 1 ]
513-				
011				
2-	Thick 2: Size-Env.Correct:BW	Paper Transfer: 2Side:S3	ENG*	[ 1 to 100 / 72 / 1 ]
513-				
012				
2-	Thick 2: Size-Env.Correct:BW	Paper Transfer: 1Side:S4	ENG*	[ 1 to 100 / 73 / 1 ]
513-				
015				
2-	Thick 2: Size-Env.Correct:BW	Paper Transfer: 2Side:S4	ENG*	[ 1 to 100 / 74 / 1 ]
513-				
016				
2-	Thick 2: Size-Env.Correct:FC	Paper Transfer: 1Side:S1	ENG*	[ 1 to 100 / 67 / 1 ]
514-				
003				
2-	Thick 2: Size-Env.Correct:FC	Paper Transfer: 2Side:S1	ENG*	[ 1 to 100 / 68 / 1 ]
514-				
004				
2-	Thick 2: Size-Env.Correct:FC	Paper Transfer: 1Side:S2	ENG*	[ 1 to 100 / 69 / 1 ]
514-				
007				
104	1			

Thick 2: Size-Env.Correct.PC   Paper Transfer: 2Side:S3   ENG*   1 to 100 / 70 / 1	2-	Thick 2: Size Env Come to EC	Donor Transfer 20:102	EMC*	[1 to 100 / 70 / 1 ]
008       Inick 2: Size-Env.Correct:FC       Paper Transfer: 1Side:S3       ENG*       [1 to 100/71/1]         2-       Thick 2: Size-Env.Correct:FC       Paper Transfer: 2Side:S3       ENG*       [1 to 100/72/1]         2-       Thick 2: Size-Env.Correct:FC       Paper Transfer: 1Side:S4       ENG*       [1 to 100/73/1]         514- 015       Thick 2: Size-Env.Correct:FC       Paper Transfer: 2Side:S4       ENG*       [1 to 100/74/1]         514- 016       Thick 2: Leading Edge Correct.       Paper Transfer: 1Side       ENG*       [0 to 995/100/5%]         515- 003       Thick 2: Leading Edge Correct.       Paper Transfer: 2Side       ENG*       [0 to 995/100/5%]         515- 007       Thick 2: Leading Edge Correct.       Separation DC: 1Side       ENG*       [0 to 995/100/5%]         515- 007       Thick 2: Leading Edge Correct.       Separation DC: 2Side       ENG*       [0 to 995/100/5%]         515- 008       Thick 2: Sw Timing Lead Edge       Paper Transfer: 1Side       ENG*       [0 to 50/0/2mm]         516- 003       Thick 2: Sw Timing Lead Edge       Paper Transfer: 2Side       ENG*       [0 to 50/0/2mm]         516- 007       Thick 2: Sw Timing Lead Edge       Separation DC: 1Side       ENG*       [0 to 50/0/2mm]         516- 007       Thick 2: Sw Timing Lead Edge       Separation DC:		Thick 2: Size-Env.Correct:FC	Paper Transfer: 2Side:S2	ENG*	[ 1 to 100 / 70 / 1 ]
Thick 2: Size-Env.Correct.FC   Paper Transfer: 1Side:S3   ENG*   [1 to 100/71/1]					
514-011       Thick 2: Size-Env.Correct.FC       Paper Transfer: 2Side:S3       ENG*       [1 to 100/72/1]         514-514-012       Thick 2: Size-Env.Correct.FC       Paper Transfer: 1Side:S4       ENG*       [1 to 100/73/1]         514-015       Thick 2: Size-Env.Correct.FC       Paper Transfer: 2Side:S4       ENG*       [1 to 100/74/1]         514-016       Thick 2: Size-Env.Correct.FC       Paper Transfer: 2Side:S4       ENG*       [0 to 995/100/5%]         515-15-15-15-15-15-15-15-15-15-15-15-15-	-	Thirt 2. Giro For Control	Dan an Transic of 1011 02	ENIC	F14-100/71/13
011       Image: Company of the company o		I nick 2: Size-Env.Correct:FC	Paper Transfer: 1Side:S3	ENG*	[ 1 to 100 / 71 / 1 ]
Thick 2: Size-Env.Correct:FC   Paper Transfer: 2Side:S3   ENG*   [1 to 100 / 72 / 1]					
Site			D	The same of the sa	5.4 400 / 50 / 4.3
012       Image: Company of the company o		Thick 2: Size-Env.Correct:FC	Paper Transfer: 2Side:S3	ENG*	[ 1 to 100 / 72 / 1 ]
2-					
S14-  015   S14-  016   S15-		This a given a second	D T 0 10:1 04	TD LC 4	51 . 100 / 52 / 13
015         Inick 2: Size-Env.Correct:FC         Paper Transfer: 2Side:S4         ENG*         [1 to 100/74/1]           514- 016         Thick 2: Leading Edge Correct.         Paper Transfer: 1Side         ENG*         [0 to 995/100/5%]           515- 003         Thick 2: Leading Edge Correct.         Paper Transfer: 2Side         ENG*         [0 to 995/100/5%]           515- 004         ENG*         [0 to 995/100/5%]         [0 to 995/100/5%]           515- 007         ENG*         [0 to 995/100/5%]         [0 to 995/100/5%]           515- 008         ENG*         [0 to 995/100/5%]         [0 to 995/100/5%]           515- 008         ENG*         [0 to 995/100/5%]         [0 to 995/100/5%]           515- 008         ENG*         [0 to 50/0/2mm]         [0 to 50/0/2mm]           516- 003         Paper Transfer: 1Side         ENG*         [0 to 50/0/2mm]           516- 004         ENG*         [0 to 50/0/2mm]         [0 to 50/0/2mm]           516- 007         ENG*         [0 to 50/0/2mm]         [0 to 50/0/2mm]           516- 007         ENG*         [0 to 50/0/2mm]         [0 to 50/0/2mm]           516- 007         ENG*         [0 to 50/0/2mm]         [0 to 50/0/2mm]		Thick 2: Size-Env.Correct:FC	Paper Transfer: 1Side:S4	ENG*	[ 1 to 100 / 73 / 1 ]
2- 514- 016         Thick 2: Size-Env.Correct:FC         Paper Transfer: 2Side:S4         ENG*         [1 to 100 / 74 / 1]           2- 515- 003         Thick 2: Leading Edge Correct.         Paper Transfer: 1Side         ENG*         [0 to 995 / 100 / 5%]           515- 004         Thick 2: Leading Edge Correct.         Paper Transfer: 2Side         ENG*         [0 to 995 / 100 / 5%]           515- 007         ENG*         [0 to 995 / 100 / 5%]         [0 to 995 / 100 / 5%]           515- 008         ENG*         [0 to 995 / 100 / 5%]         [0 to 995 / 100 / 5%]           515- 008         ENG*         [0 to 995 / 100 / 5%]         [0 to 995 / 100 / 5%]           516- 003         Paper Transfer: 1Side         ENG*         [0 to 50 / 0 / 2mm]           516- 004         Paper Transfer: 2Side         ENG*         [0 to 50 / 0 / 2mm]           516- 007         Finck 2: SW Timing Lead Edge         Separation DC: 1Side         ENG*         [0 to 50 / 0 / 2mm]           516- 007         Finck 2: SW Timing Lead Edge         Separation DC: 2Side         ENG*         [0 to 50 / 0 / 2mm]           516- 007         Finck 2: SW Timing Lead Edge         Separation DC: 2Side         ENG*         [0 to 50 / 0 / 2mm]					
514- 016         Thick 2: Leading Edge Correct.         Paper Transfer: 1Side         ENG*         [ 0 to 995 / 100 / 5% ]           515- 003         Thick 2: Leading Edge Correct.         Paper Transfer: 2Side         ENG*         [ 0 to 995 / 100 / 5% ]           515- 004         Thick 2: Leading Edge Correct.         Separation DC: 1Side         ENG*         [ 0 to 995 / 100 / 5% ]           515- 007         Thick 2: Leading Edge Correct.         Separation DC: 2Side         ENG*         [ 0 to 995 / 100 / 5% ]           515- 008         Thick 2: Leading Edge Correct.         Separation DC: 2Side         ENG*         [ 0 to 50 / 0 / 2mm ]           516- 003         Thick 2: SW Timing Lead Edge         Paper Transfer: 1Side         ENG*         [ 0 to 50 / 0 / 2mm ]           516- 004         Thick 2: SW Timing Lead Edge         Separation DC: 1Side         ENG*         [ 0 to 50 / 0 / 2mm ]           516- 007         Thick 2: SW Timing Lead Edge         Separation DC: 1Side         ENG*         [ 0 to 50 / 0 / 2mm ]           516- 007         Thick 2: SW Timing Lead Edge         Separation DC: 2Side         ENG*         [ 0 to 50 / 0 / 2mm ]			D	The same of the sa	54 400 / 54 / 43
016         Thick 2: Leading Edge Correct.         Paper Transfer: 1Side         ENG*         [0 to 995 / 100 / 5%]           515- 003         Thick 2: Leading Edge Correct.         Paper Transfer: 2Side         ENG*         [0 to 995 / 100 / 5%]           515- 004         Thick 2: Leading Edge Correct.         Separation DC: 1Side         ENG*         [0 to 995 / 100 / 5%]           515- 007         Thick 2: Leading Edge Correct.         Separation DC: 2Side         ENG*         [0 to 995 / 100 / 5%]           515- 008         Thick 2: Leading Edge Correct.         Separation DC: 2Side         ENG*         [0 to 50 / 0 / 2mm]           516- 003         Thick 2: SW Timing Lead Edge         Paper Transfer: 1Side         ENG*         [0 to 50 / 0 / 2mm]           516- 004         Thick 2: SW Timing Lead Edge         Separation DC: 1Side         ENG*         [0 to 50 / 0 / 2mm]           516- 007         Thick 2: SW Timing Lead Edge         Separation DC: 1Side         ENG*         [0 to 50 / 0 / 2mm]           516- 007         Thick 2: SW Timing Lead Edge         Separation DC: 2Side         ENG*         [0 to 50 / 0 / 2mm]           516- 007         Thick 2: SW Timing Lead Edge         Separation DC: 2Side         ENG*         [0 to 50 / 0 / 2mm]		Thick 2: Size-Env.Correct:FC	Paper Transfer: 2Side:S4	ENG*	[ 1 to 100 / 74 / 1 ]
2-					
515- 003       Thick 2: Leading Edge Correct.       Paper Transfer: 2Side       ENG* [0 to 995 / 100 / 5%]         515- 004       Thick 2: Leading Edge Correct.       Separation DC: 1Side       ENG* [0 to 995 / 100 / 5%]         515- 007       Thick 2: Leading Edge Correct.       Separation DC: 2Side       ENG* [0 to 995 / 100 / 5%]         515- 008       Thick 2: Leading Edge Correct.       Separation DC: 2Side       ENG* [0 to 50 / 0 / 2mm]         516- 003       Thick 2: SW Timing Lead Edge       Paper Transfer: 2Side       ENG* [0 to 50 / 0 / 2mm]         516- 004       Thick 2: SW Timing Lead Edge       Separation DC: 1Side       ENG* [0 to 50 / 0 / 2mm]         516- 007       Thick 2: SW Timing Lead Edge       Separation DC: 1Side       ENG* [0 to 50 / 0 / 2mm]         516- 007       Thick 2: SW Timing Lead Edge       Separation DC: 2Side       ENG* [0 to 50 / 0 / 2mm]					
003Thick 2: Leading Edge Correct.Paper Transfer: 2SideENG*[ 0 to 995 / 100 / 5% ]515- 004Thick 2: Leading Edge Correct.Separation DC: 1SideENG*[ 0 to 995 / 100 / 5% ]515- 007Thick 2: Leading Edge Correct.Separation DC: 2SideENG*[ 0 to 995 / 100 / 5% ]515- 008Thick 2: Leading Edge Correct.Separation DC: 2SideENG*[ 0 to 995 / 100 / 5% ]515- 008Thick 2: SW Timing Lead EdgePaper Transfer: 1SideENG*[ 0 to 50 / 0 / 2mm ]516- 004Thick 2: SW Timing Lead EdgeSeparation DC: 1SideENG*[ 0 to 50 / 0 / 2mm ]516- 007Thick 2: SW Timing Lead EdgeSeparation DC: 1SideENG*[ 0 to 50 / 0 / 2mm ]516- 007Thick 2: SW Timing Lead EdgeSeparation DC: 2SideENG*[ 0 to 50 / 0 / 2mm ]		Thick 2: Leading Edge Correct.	Paper Transfer: 1Side	ENG*	[ 0 to 995 / 100 / 5% ]
2-					
515- 004       Thick 2: Leading Edge Correct.       Separation DC: 1Side       ENG*       [ 0 to 995 / 100 / 5% ]         515- 007       Thick 2: Leading Edge Correct.       Separation DC: 2Side       ENG*       [ 0 to 995 / 100 / 5% ]         515- 008       Thick 2: Leading Edge Correct.       Separation DC: 2Side       ENG*       [ 0 to 995 / 100 / 5% ]         515- 008       Thick 2: SW Timing Lead Edge       Paper Transfer: 1Side       ENG*       [ 0 to 50 / 0 / 2mm ]         516- 004       Thick 2: SW Timing Lead Edge       Separation DC: 1Side       ENG*       [ 0 to 50 / 0 / 2mm ]         516- 007       Thick 2: SW Timing Lead Edge       Separation DC: 1Side       ENG*       [ 0 to 50 / 0 / 2mm ]         516- 007       Thick 2: SW Timing Lead Edge       Separation DC: 2Side       ENG*       [ 0 to 50 / 0 / 2mm ]					
004         Thick 2: Leading Edge Correct.         Separation DC: 1Side         ENG*         [ 0 to 995 / 100 / 5% ]           515- 007         Thick 2: Leading Edge Correct.         Separation DC: 2Side         ENG*         [ 0 to 995 / 100 / 5% ]           515- 008         Thick 2: Leading Edge Correct.         Separation DC: 2Side         ENG*         [ 0 to 995 / 100 / 5% ]           515- 008         Thick 2: SW Timing Lead Edge         Paper Transfer: 1Side         ENG*         [ 0 to 50 / 0 / 2mm ]           516- 004         Thick 2: SW Timing Lead Edge         Separation DC: 1Side         ENG*         [ 0 to 50 / 0 / 2mm ]           516- 007         Thick 2: SW Timing Lead Edge         Separation DC: 1Side         ENG*         [ 0 to 50 / 0 / 2mm ]           516- 007         Thick 2: SW Timing Lead Edge         Separation DC: 2Side         ENG*         [ 0 to 50 / 0 / 2mm ]		Thick 2: Leading Edge Correct.	Paper Transfer: 2Side	ENG*	[ 0 to 995 / 100 / 5% ]
2-         Thick 2: Leading Edge Correct.         Separation DC: 1Side         ENG*         [ 0 to 995 / 100 / 5% ]           515- 007         Thick 2: Leading Edge Correct.         Separation DC: 2Side         ENG*         [ 0 to 995 / 100 / 5% ]           515- 008         Thick 2: Leading Edge Correct.         Separation DC: 2Side         ENG*         [ 0 to 50 / 0 / 2mm ]           516- 003         Thick 2: SW Timing Lead Edge         Paper Transfer: 2Side         ENG*         [ 0 to 50 / 0 / 2mm ]           516- 004         Thick 2: SW Timing Lead Edge         Separation DC: 1Side         ENG*         [ 0 to 50 / 0 / 2mm ]           516- 007         Thick 2: SW Timing Lead Edge         Separation DC: 2Side         ENG*         [ 0 to 50 / 0 / 2mm ]           516- 007         Thick 2: SW Timing Lead Edge         Separation DC: 2Side         ENG*         [ 0 to 50 / 0 / 2mm ]					
515- 007       Thick 2: Leading Edge Correct.       Separation DC: 2Side       ENG* [0 to 995 / 100 / 5%]         515- 008       Thick 2: SW Timing Lead Edge       Paper Transfer: 1Side       ENG* [0 to 50 / 0 / 2mm]         516- 003       Thick 2: SW Timing Lead Edge       Paper Transfer: 2Side       ENG* [0 to 50 / 0 / 2mm]         516- 004       Thick 2: SW Timing Lead Edge       Separation DC: 1Side       ENG* [0 to 50 / 0 / 2mm]         516- 007       Thick 2: SW Timing Lead Edge       Separation DC: 2Side       ENG* [0 to 50 / 0 / 2mm]         516- 16- 16- 16- 16- 16- 16- 16- 16- 16-	004				
007       Thick 2: Leading Edge Correct.       Separation DC: 2Side       ENG*       [ 0 to 995 / 100 / 5% ]         515- 008       Thick 2: SW Timing Lead Edge       Paper Transfer: 1Side       ENG*       [ 0 to 50 / 0 / 2mm ]         516- 003       Thick 2: SW Timing Lead Edge       Paper Transfer: 2Side       ENG*       [ 0 to 50 / 0 / 2mm ]         516- 004       Thick 2: SW Timing Lead Edge       Separation DC: 1Side       ENG*       [ 0 to 50 / 0 / 2mm ]         516- 007       Thick 2: SW Timing Lead Edge       Separation DC: 2Side       ENG*       [ 0 to 50 / 0 / 2mm ]	2-	Thick 2: Leading Edge Correct.	Separation DC: 1Side	ENG*	[ 0 to 995 / 100 / 5% ]
2- Thick 2: Leading Edge Correct. Separation DC: 2Side ENG* [0 to 995 / 100 / 5%]  2- Thick 2: SW Timing Lead Edge Paper Transfer: 1Side ENG* [0 to 50 / 0 / 2mm]  3- Thick 2: SW Timing Lead Edge Paper Transfer: 2Side ENG* [0 to 50 / 0 / 2mm]  3- Thick 2: SW Timing Lead Edge Paper Transfer: 2Side ENG* [0 to 50 / 0 / 2mm]  3- Thick 2: SW Timing Lead Edge Separation DC: 1Side ENG* [0 to 50 / 0 / 2mm]  3- Thick 2: SW Timing Lead Edge Separation DC: 2Side ENG* [0 to 50 / 0 / 2mm]  3- Thick 2: SW Timing Lead Edge Separation DC: 2Side ENG* [0 to 50 / 0 / 2mm]	515-				
515- 008       Thick 2: SW Timing Lead Edge       Paper Transfer: 1Side       ENG*       [ 0 to 50 / 0 / 2mm ]         516- 003       Thick 2: SW Timing Lead Edge       Paper Transfer: 2Side       ENG*       [ 0 to 50 / 0 / 2mm ]         516- 004       Thick 2: SW Timing Lead Edge       Separation DC: 1Side       ENG*       [ 0 to 50 / 0 / 2mm ]         516- 007       Thick 2: SW Timing Lead Edge       Separation DC: 2Side       ENG*       [ 0 to 50 / 0 / 2mm ]         516- 1007       Thick 2: SW Timing Lead Edge       Separation DC: 2Side       ENG*       [ 0 to 50 / 0 / 2mm ]	007				
008Thick 2: SW Timing Lead EdgePaper Transfer: 1SideENG*[ 0 to 50 / 0 / 2mm ]516- 003Thick 2: SW Timing Lead EdgePaper Transfer: 2SideENG*[ 0 to 50 / 0 / 2mm ]516- 004Thick 2: SW Timing Lead EdgeSeparation DC: 1SideENG*[ 0 to 50 / 0 / 2mm ]516- 007Thick 2: SW Timing Lead EdgeSeparation DC: 1SideENG*[ 0 to 50 / 0 / 2mm ]516- 516-Thick 2: SW Timing Lead EdgeSeparation DC: 2SideENG*[ 0 to 50 / 0 / 2mm ]	2-	Thick 2: Leading Edge Correct.	Separation DC: 2Side	ENG*	[ 0 to 995 / 100 / 5% ]
2- Thick 2: SW Timing Lead Edge Paper Transfer: 1Side ENG* [ 0 to 50 / 0 / 2mm ] 516- 003  2- Thick 2: SW Timing Lead Edge Paper Transfer: 2Side ENG* [ 0 to 50 / 0 / 2mm ] 516- 004  2- Thick 2: SW Timing Lead Edge Separation DC: 1Side ENG* [ 0 to 50 / 0 / 2mm ] 516- 007  2- Thick 2: SW Timing Lead Edge Separation DC: 2Side ENG* [ 0 to 50 / 0 / 2mm ] 516- 516- 516-	515-				
516- 003       Thick 2: SW Timing Lead Edge       Paper Transfer: 2Side       ENG*       [ 0 to 50 / 0 / 2mm ]         516- 004       Thick 2: SW Timing Lead Edge       Separation DC: 1Side       ENG*       [ 0 to 50 / 0 / 2mm ]         516- 007       Thick 2: SW Timing Lead Edge       Separation DC: 2Side       ENG*       [ 0 to 50 / 0 / 2mm ]         516- 516-       Thick 2: SW Timing Lead Edge       Separation DC: 2Side       ENG*       [ 0 to 50 / 0 / 2mm ]	008				
Thick 2: SW Timing Lead Edge  Paper Transfer: 2Side  ENG*  [ 0 to 50 / 0 / 2mm ]  Thick 2: SW Timing Lead Edge  Thick 2: SW Timing Lead Edge  Separation DC: 1Side  Thick 2: SW Timing Lead Edge  Thick 2: SW Timing Lead Edge  Separation DC: 2Side  ENG*  [ 0 to 50 / 0 / 2mm ]  Thick 2: SW Timing Lead Edge  Separation DC: 2Side  ENG*  [ 0 to 50 / 0 / 2mm ]	2-	Thick 2: SW Timing Lead Edge	Paper Transfer: 1Side	ENG*	[ 0 to 50 / 0 / 2mm ]
2- Thick 2: SW Timing Lead Edge Paper Transfer: 2Side ENG* [ 0 to 50 / 0 / 2mm ]  2- Thick 2: SW Timing Lead Edge Separation DC: 1Side ENG* [ 0 to 50 / 0 / 2mm ]  516- 007  2- Thick 2: SW Timing Lead Edge Separation DC: 2Side ENG* [ 0 to 50 / 0 / 2mm ]  516- 007  516- Comparison of the comparison of	516-				
516-       004       Separation DC: 1Side       ENG*       [ 0 to 50 / 0 / 2mm ]         2-       Thick 2: SW Timing Lead Edge       Separation DC: 1Side       ENG*       [ 0 to 50 / 0 / 2mm ]         2-       Thick 2: SW Timing Lead Edge       Separation DC: 2Side       ENG*       [ 0 to 50 / 0 / 2mm ]         516-       516-       Separation DC: 2Side       ENG*       [ 0 to 50 / 0 / 2mm ]	003				
004Consider the constraint of the constra		Thick 2: SW Timing Lead Edge	Paper Transfer: 2Side	ENG*	[ 0 to 50 / 0 / 2mm ]
2- Thick 2: SW Timing Lead Edge Separation DC: 1Side ENG* [ 0 to 50 / 0 / 2mm ]  2- Thick 2: SW Timing Lead Edge Separation DC: 2Side ENG* [ 0 to 50 / 0 / 2mm ]  516-	516-				
516-       007	004				
007  2- Thick 2: SW Timing Lead Edge Separation DC: 2Side ENG* [ 0 to 50 / 0 / 2mm ] 516-	2-	Thick 2: SW Timing Lead Edge	Separation DC: 1Side	ENG*	[ 0 to 50 / 0 / 2mm ]
2- Thick 2: SW Timing Lead Edge Separation DC: 2Side ENG* [ 0 to 50 / 0 / 2mm ] 516-	516-				
516-	007				
	2-	Thick 2: SW Timing Lead Edge	Separation DC: 2Side	ENG*	[ 0 to 50 / 0 / 2mm ]
008	516-				
	008				

2-	Thick 2: Trail Edge Correction	Paper Transfer: 1Side	ENG*	[ 0 to 995 / 100 / 5% ]
517-				
003				
2-	Thick 2: Trail Edge Correction	Paper Transfer: 2Side	ENG*	[ 0 to 995 / 100 / 5% ]
517-				
004				
2-	Thick 2: Trail Edge Correction	Separation DC: 1Side	ENG*	[ 0 to 995 / 100 / 5% ]
517-				
007				
2-	Thick 2: Trail Edge Correction	Separation DC: 2Side	ENG*	[ 0 to 995 / 100 / 5% ]
517-				
008				
2-	Thick 2: SW Timing Trail Edge	Paper Transfer: 1Side	ENG*	[ 0 to 50 / 0 / 2mm ]
518-				
003				
2-	Thick 2: SW Timing Trail Edge	Paper Transfer: 2Side	ENG*	[ 0 to 50 / 0 / 2mm ]
518-				
004				
2-	Thick 2: SW Timing Trail Edge	Separation DC: 1Side	ENG*	[ 0 to 50 / 0 / 2mm ]
518-				
007				
2-	Thick 2: SW Timing Trail Edge	Separation DC: 2Side	ENG*	[ 0 to 50 / 0 / 2mm ]
518-				
008				
2-	Thick 2: Envir Correct. Table	Separation DC: 1Side	ENG*	[ 1 to 100 / 30 / 1 ]
519-				
015				
2-	Thick 2: Envir Correct. Table	Separation DC: 2Side	ENG*	[ 1 to 100 / 30 / 1 ]
519-				
016				
2-	Thick 2: Edge Envir Correct.	Separation DC: 1Side	ENG*	[ 1 to 100 / 30 / 1 ]
519-				
019				
2-	Thick 2: Edge Envir Correct.	Separation DC: 2Side	ENG*	[ 1 to 100 / 30 / 1 ]
519-				
020				
2-	Thick 3: Bias	Separation DC: 1Side	ENG*	[ 0 to 4000 / 0 / 10-V ]
521-				
003				
	1	- I		1

2-	Thick 3: Bias	Separation DC: 2Side	ENG*	[ 0 to 4000 / 0 / 10-V ]
521-				
004				
2-	Thick 3: Bias: BW	Paper Transfer: 1Side	ENG*	[ 0 to 200 / 9 / 1uA ]
523-				
003				
2-	Thick 3: Bias: BW	Paper Transfer: 2Side	ENG*	[ 0 to 200 / 7 / 1uA ]
523-				
004				
2-	Thick 3: Bias: FC	Paper Transfer: 1Side	ENG*	[ 0 to 200 / 11 / 1uA ]
527-				
003				
2-	Thick 3: Bias: FC	Paper Transfer: 2Side	ENG*	[ 0 to 200 / 9 / 1uA ]
527-				
004				
2-	Thick 3: Size Correction:BW	Paper Transfer: 1Side:S1	ENG*	[ 100 to 995 / 100 /
531-				5% ]
003				
2-	Thick 3: Size Correction:BW	Paper Transfer: 2Side:S1	ENG*	[ 100 to 995 / 100 /
531-				5% ]
004				
2-	Thick 3: Size Correction:BW	Paper Transfer: 1Side:S2	ENG*	[ 100 to 995 / 122 /
531-				5% ]
007				
2-	Thick 3: Size Correction:BW	Paper Transfer: 2Side:S2	ENG*	[ 100 to 995 / 186 /
531-				5% ]
008				
2-	Thick 3: Size Correction:BW	Paper Transfer: 1Side:S3	ENG*	[ 100 to 995 / 156 /
531-				5% ]
011				
2-	Thick 3: Size Correction:BW	Paper Transfer: 2Side:S3	ENG*	[ 100 to 995 / 271 /
531-				5%]
012				
2-	Thick 3: Size Correction:BW	Paper Transfer: 1Side:S4	ENG*	[ 100 to 995 / 170 /
531-				5%]
015				
2-	Thick 3: Size Correction:BW	Paper Transfer: 2Side:S4	ENG*	[ 100 to 995 / 357 /
531-				5%]
016				

			1	1
2-	Thick 3: Size Correction:FC	Paper Transfer: 1Side:S1	ENG*	[ 100 to 995 / 100 /
532-				5%]
003				
2-	Thick 3: Size Correction:FC	Paper Transfer: 2Side:S1	ENG*	[ 100 to 995 / 100 /
532-				5%]
004				
2-	Thick 3: Size Correction:FC	Paper Transfer: 1Side:S2	ENG*	[ 100 to 995 / 118 /
532-				5%]
007				
2-	Thick 3: Size Correction:FC	Paper Transfer: 2Side:S2	ENG*	[ 100 to 995 / 200 /
532-				5%]
008				
2-	Thick 3: Size Correction:FC	Paper Transfer: 1Side:S3	ENG*	[ 100 to 995 / 140 /
532-				5%]
011				
2-	Thick 3: Size Correction:FC	Paper Transfer: 2Side:S3	ENG*	[ 100 to 995 / 278 /
532-				5%]
012				
2-	Thick 3: Size Correction:FC	Paper Transfer: 1Side:S4	ENG*	[ 100 to 995 / 150 /
532-				5%]
015				
2-	Thick 3: Size Correction:FC	Paper Transfer: 2Side:S4	ENG*	[ 100 to 995 / 389 /
532-				5%]
016				
2-	Thick 3: Size-Env.Correct:BW	Paper Transfer: 1Side:S1	ENG*	[ 1 to 100 / 75 / 1 ]
533-				
003				
2-	Thick 3: Size-Env.Correct:BW	Paper Transfer: 2Side:S1	ENG*	[ 1 to 100 / 76 / 1 ]
533-				
004				
2-	Thick 3: Size-Env.Correct:BW	Paper Transfer: 1Side:S2	ENG*	[ 1 to 100 / 77 / 1 ]
533-				
007				
2-	Thick 3: Size-Env.Correct:BW	Paper Transfer: 2Side:S2	ENG*	[ 1 to 100 / 78 / 1 ]
533-				
008				
2-	Thick 3: Size-Env.Correct:BW	Paper Transfer: 1Side:S3	ENG*	[ 1 to 100 / 79 / 1 ]
533-				
011				
	í.	1		<u>r</u>

Thick 3: Size-Env.Correct.BW   Paper Transfer: 2Side:S3   ENG*   [1 to 100 / 80 / 1]			1		T
012         Thick 3: Size-Env.Correct:BW         Paper Transfer: 1Side:S4         ENG*         [1 to 100/81/1]           533- 015         Thick 3: Size-Env.Correct:BW         Paper Transfer: 2Side:S4         ENG*         [1 to 100/82/1]           2- 533- 016         Thick 3: Size-Env.Correct:FC         Paper Transfer: 1Side:S1         ENG*         [1 to 100/75/1]           2- 534- 004         Thick 3: Size-Env.Correct:FC         Paper Transfer: 2Side:S1         ENG*         [1 to 100/76/1]           2- 534- 007         Thick 3: Size-Env.Correct:FC         Paper Transfer: 1Side:S2         ENG*         [1 to 100/77/1]           2- 534- 008         Thick 3: Size-Env.Correct:FC         Paper Transfer: 2Side:S2         ENG*         [1 to 100/78/1]           534- 009         Thick 3: Size-Env.Correct:FC         Paper Transfer: 1Side:S3         ENG*         [1 to 100/79/1]           534- 010         Thick 3: Size-Env.Correct:FC         Paper Transfer: 1Side:S3         ENG*         [1 to 100/80/1]           534- 010         Thick 3: Size-Env.Correct:FC         Paper Transfer: 1Side:S4         ENG*         [1 to 100/81/1]           534- 010         Thick 3: Size-Env.Correct:FC         Paper Transfer: 1Side:S4         ENG*         [1 to 100/81/1]           534- 010         Thick 3: Size-Env.Correct:FC         Paper Transfer: 1Side:S4         ENG*	2-	Thick 3: Size-Env.Correct:BW	Paper Transfer: 2Side:S3	ENG*	[ 1 to 100 / 80 / 1 ]
Thick 3: Size-Env.Correct:BW   Paper Transfer: 1Side:S4   ENG*   [1 to 100/81/1]	533-				
533- 015         Thick 3: Size-Env.Correct:BW         Paper Transfer: 2Side:S4         ENG*         [1 to 100/82/1]           533- 016         Thick 3: Size-Env.Correct:FC         Paper Transfer: 1Side:S1         ENG*         [1 to 100/75/1]           2- 534- 003         Thick 3: Size-Env.Correct:FC         Paper Transfer: 2Side:S1         ENG*         [1 to 100/76/1]           534- 004         Thick 3: Size-Env.Correct:FC         Paper Transfer: 1Side:S2         ENG*         [1 to 100/77/1]           534- 007         Thick 3: Size-Env.Correct:FC         Paper Transfer: 2Side:S2         ENG*         [1 to 100/78/1]           534- 008         Thick 3: Size-Env.Correct:FC         Paper Transfer: 1Side:S3         ENG*         [1 to 100/79/1]           534- 011         Thick 3: Size-Env.Correct:FC         Paper Transfer: 2Side:S3         ENG*         [1 to 100/80/1]           2- 534- 012         Thick 3: Size-Env.Correct:FC         Paper Transfer: 1Side:S4         ENG*         [1 to 100/81/1]           2- 534- 016         Thick 3: Size-Env.Correct:FC         Paper Transfer: 2Side:S4         ENG*         [1 to 100/82/1]           2- 534- 016         Thick 3: Leading Edge Correct.         Paper Transfer: 1Side:S4         ENG*         [0 to 995/100/5%]           2- 535- 033         Thick 3: Leading Edge Correct.         Paper Transfer: 2Side: S4         ENG* <td>012</td> <td></td> <td></td> <td></td> <td></td>	012				
015         Inick 3: Size-Env.Correct:BW         Paper Transfer: 2Side:S4         ENG*         [1 to 100/82/1]           533- 016         Thick 3: Size-Env.Correct:FC         Paper Transfer: 1Side:S1         ENG*         [1 to 100/75/1]           534- 003         Thick 3: Size-Env.Correct:FC         Paper Transfer: 2Side:S1         ENG*         [1 to 100/76/1]           534- 004         Thick 3: Size-Env.Correct:FC         Paper Transfer: 1Side:S2         ENG*         [1 to 100/77/1]           534- 007         Thick 3: Size-Env.Correct:FC         Paper Transfer: 2Side:S2         ENG*         [1 to 100/78/1]           534- 008         Thick 3: Size-Env.Correct:FC         Paper Transfer: 1Side:S2         ENG*         [1 to 100/78/1]           534- 009         Thick 3: Size-Env.Correct:FC         Paper Transfer: 1Side:S3         ENG*         [1 to 100/79/1]           534- 011         Thick 3: Size-Env.Correct:FC         Paper Transfer: 1Side:S3         ENG*         [1 to 100/80/1]           534- 015         Thick 3: Size-Env.Correct:FC         Paper Transfer: 1Side:S4         ENG*         [1 to 100/82/1]           534- 016         Thick 3: Leading Edge Correct.         Paper Transfer: 1Side         ENG*         [0 to 995/100/5%]           535- 003         Thick 3: Leading Edge Correct.         Paper Transfer: 2Side         ENG*         [0 to 995/10	2-	Thick 3: Size-Env.Correct:BW	Paper Transfer: 1Side:S4	ENG*	[ 1 to 100 / 81 / 1 ]
Thick 3: Size-Env.Correct.FC	533-				
533-016         Thick 3: Size-Env.Correct;FC         Paper Transfer: 1Side:S1         ENG*         [1 to 100/75/1]           534-003         Thick 3: Size-Env.Correct;FC         Paper Transfer: 2Side:S1         ENG*         [1 to 100/76/1]           534-004         Thick 3: Size-Env.Correct;FC         Paper Transfer: 1Side:S2         ENG*         [1 to 100/77/1]           534-007         Thick 3: Size-Env.Correct;FC         Paper Transfer: 2Side:S2         ENG*         [1 to 100/78/1]           534-008         Paper Transfer: 2Side:S2         ENG*         [1 to 100/78/1]           534-008         Paper Transfer: 1Side:S3         ENG*         [1 to 100/79/1]           534-011         Paper Transfer: 1Side:S3         ENG*         [1 to 100/80/1]           534-011         Paper Transfer: 2Side:S3         ENG*         [1 to 100/80/1]           534-012         Paper Transfer: 1Side:S4         ENG*         [1 to 100/81/1]           534-015         Paper Transfer: 2Side:S4         ENG*         [1 to 100/82/1]           534-01	015				
016         Image: Content of the	2-	Thick 3: Size-Env.Correct:BW	Paper Transfer: 2Side:S4	ENG*	[ 1 to 100 / 82 / 1 ]
2-	533-				
Sade	016				
003         Inick 3: Size-Env.Correct:FC         Paper Transfer: 2Side:S1         ENG*         [1 to 100 / 76 / 1]           534- 004         Thick 3: Size-Env.Correct:FC         Paper Transfer: 1Side:S2         ENG*         [1 to 100 / 77 / 1]           534- 007         Paper Transfer: 2Side:S2         ENG*         [1 to 100 / 78 / 1]           534- 008         Paper Transfer: 2Side:S2         ENG*         [1 to 100 / 78 / 1]           534- 011         Paper Transfer: 1Side:S3         ENG*         [1 to 100 / 79 / 1]           534- 012         Paper Transfer: 2Side:S3         ENG*         [1 to 100 / 80 / 1]           534- 012         Paper Transfer: 1Side:S3         ENG*         [1 to 100 / 81 / 1]           534- 015         Paper Transfer: 1Side:S4         ENG*         [1 to 100 / 82 / 1]           534- 015         Paper Transfer: 2Side:S4         ENG*         [1 to 100 / 82 / 1]           534- 016         Paper Transfer: 1Side         ENG*         [0 to 995 / 100 / 5%]           535- 003         Thick 3: Leading Edge Correct.         Paper Transfer: 2Side         ENG*         [0 to 995 / 100 / 5%]	2-	Thick 3: Size-Env.Correct:FC	Paper Transfer: 1Side:S1	ENG*	[ 1 to 100 / 75 / 1 ]
2-	534-				
534- 004         Thick 3: Size-Env.Correct:FC         Paper Transfer: 1Side:S2         ENG*         [1 to 100/77/1]           534- 007         Thick 3: Size-Env.Correct:FC         Paper Transfer: 2Side:S2         ENG*         [1 to 100/78/1]           534- 008         Thick 3: Size-Env.Correct:FC         Paper Transfer: 1Side:S3         ENG*         [1 to 100/79/1]           534- 011         Thick 3: Size-Env.Correct:FC         Paper Transfer: 2Side:S3         ENG*         [1 to 100/80/1]           2- 534- 015         Thick 3: Size-Env.Correct:FC         Paper Transfer: 1Side:S4         ENG*         [1 to 100/81/1]           534- 016         Thick 3: Size-Env.Correct:FC         Paper Transfer: 2Side:S4         ENG*         [1 to 100/82/1]           534- 016         Thick 3: Leading Edge Correct.         Paper Transfer: 1Side         ENG*         [0 to 995/100/5%]           535- 003         Thick 3: Leading Edge Correct.         Paper Transfer: 2Side         ENG*         [0 to 995/100/5%]	003				
004         Inlick 3: Size-Env.Correct:FC         Paper Transfer: 1Side:S2         ENG*         [1 to 100/77/1]           534- 007         Thick 3: Size-Env.Correct:FC         Paper Transfer: 2Side:S2         ENG*         [1 to 100/78/1]           534- 008         Thick 3: Size-Env.Correct:FC         Paper Transfer: 1Side:S3         ENG*         [1 to 100/79/1]           534- 011         Thick 3: Size-Env.Correct:FC         Paper Transfer: 2Side:S3         ENG*         [1 to 100/80/1]           2- 534- 015         Thick 3: Size-Env.Correct:FC         Paper Transfer: 1Side:S4         ENG*         [1 to 100/81/1]           534- 016         Thick 3: Size-Env.Correct:FC         Paper Transfer: 2Side:S4         ENG*         [1 to 100/82/1]           534- 016         Thick 3: Leading Edge Correct.         Paper Transfer: 1Side         ENG*         [1 to 100/82/1]           535- 003         Thick 3: Leading Edge Correct.         Paper Transfer: 2Side         ENG*         [0 to 995/100/5%]           535- 003         Thick 3: Leading Edge Correct.         Paper Transfer: 2Side         ENG*         [0 to 995/100/5%]	2-	Thick 3: Size-Env.Correct:FC	Paper Transfer: 2Side:S1	ENG*	[ 1 to 100 / 76 / 1 ]
2-   Thick 3: Size-Env.Correct:FC   Paper Transfer: 1Side:S2   ENG*   [1 to 100 / 77 / 1]	534-				
534- 007         Thick 3: Size-Env.Correct:FC         Paper Transfer: 2Side:S2         ENG*         [1 to 100 / 78 / 1]           534- 008         Thick 3: Size-Env.Correct:FC         Paper Transfer: 1Side:S3         ENG*         [1 to 100 / 79 / 1]           534- 011         Thick 3: Size-Env.Correct:FC         Paper Transfer: 2Side:S3         ENG*         [1 to 100 / 80 / 1]           534- 012         Thick 3: Size-Env.Correct:FC         Paper Transfer: 1Side:S4         ENG*         [1 to 100 / 81 / 1]           534- 015         Thick 3: Size-Env.Correct:FC         Paper Transfer: 2Side:S4         ENG*         [1 to 100 / 82 / 1]           534- 016         Thick 3: Leading Edge Correct.         Paper Transfer: 1Side         ENG*         [0 to 995 / 100 / 5%]           535- 003         Thick 3: Leading Edge Correct.         Paper Transfer: 2Side         ENG*         [0 to 995 / 100 / 5%]	004				
007         Thick 3: Size-Env.Correct:FC         Paper Transfer: 2Side:S2         ENG*         [1 to 100 / 78 / 1]           534- 008         Thick 3: Size-Env.Correct:FC         Paper Transfer: 1Side:S3         ENG*         [1 to 100 / 79 / 1]           534- 011         Thick 3: Size-Env.Correct:FC         Paper Transfer: 2Side:S3         ENG*         [1 to 100 / 80 / 1]           534- 012         Thick 3: Size-Env.Correct:FC         Paper Transfer: 1Side:S4         ENG*         [1 to 100 / 81 / 1]           534- 015         Thick 3: Size-Env.Correct:FC         Paper Transfer: 2Side:S4         ENG*         [1 to 100 / 82 / 1]           534- 016         Thick 3: Leading Edge Correct.         Paper Transfer: 1Side         ENG*         [0 to 995 / 100 / 5%]           535- 003         Thick 3: Leading Edge Correct.         Paper Transfer: 2Side         ENG*         [0 to 995 / 100 / 5%]	2-	Thick 3: Size-Env.Correct:FC	Paper Transfer: 1Side:S2	ENG*	[ 1 to 100 / 77 / 1 ]
2-         Thick 3: Size-Env.Correct:FC         Paper Transfer: 2Side:S2         ENG*         [1 to 100 / 78 / 1]           534-         008         Thick 3: Size-Env.Correct:FC         Paper Transfer: 1Side:S3         ENG*         [1 to 100 / 79 / 1]           534-         011         ENG*         [1 to 100 / 80 / 1]           534-         012         ENG*         [1 to 100 / 80 / 1]           534-         012         ENG*         [1 to 100 / 81 / 1]           534-         015         ENG*         [1 to 100 / 81 / 1]           534-         015         ENG*         [1 to 100 / 82 / 1]           534-         016         ENG*         [1 to 100 / 82 / 1]           534-         016         ENG*         [0 to 995 / 100 / 5%]           535-         Thick 3: Leading Edge Correct.         Paper Transfer: 1Side         ENG*         [0 to 995 / 100 / 5%]           535-         Thick 3: Leading Edge Correct.         Paper Transfer: 2Side         ENG*         [0 to 995 / 100 / 5%]	534-				
S34-   O08	007				
008         Thick 3: Size-Env.Correct:FC         Paper Transfer: 1Side:S3         ENG*         [ 1 to 100 / 79 / 1 ]           534- 011         Thick 3: Size-Env.Correct:FC         Paper Transfer: 2Side:S3         ENG*         [ 1 to 100 / 80 / 1 ]           534- 012         Thick 3: Size-Env.Correct:FC         Paper Transfer: 1Side:S4         ENG*         [ 1 to 100 / 81 / 1 ]           534- 015         Thick 3: Size-Env.Correct:FC         Paper Transfer: 2Side:S4         ENG*         [ 1 to 100 / 82 / 1 ]           534- 016         Thick 3: Leading Edge Correct.         Paper Transfer: 1Side         ENG*         [ 0 to 995 / 100 / 5% ]           535- 003         Thick 3: Leading Edge Correct.         Paper Transfer: 2Side         ENG*         [ 0 to 995 / 100 / 5% ]           535- 003         Thick 3: Leading Edge Correct.         Paper Transfer: 2Side         ENG*         [ 0 to 995 / 100 / 5% ]	2-	Thick 3: Size-Env.Correct:FC	Paper Transfer: 2Side:S2	ENG*	[ 1 to 100 / 78 / 1 ]
2- 534- 011       Thick 3: Size-Env.Correct:FC       Paper Transfer: 1Side:S3       ENG*       [1 to 100/79/1]         2- 534- 012       Thick 3: Size-Env.Correct:FC       Paper Transfer: 2Side:S3       ENG*       [1 to 100/80/1]         2- 534- 015       Thick 3: Size-Env.Correct:FC       Paper Transfer: 1Side:S4       ENG*       [1 to 100/81/1]         2- 534- 016       Thick 3: Size-Env.Correct:FC       Paper Transfer: 2Side:S4       ENG*       [1 to 100/82/1]         535- 003       Thick 3: Leading Edge Correct.       Paper Transfer: 1Side       ENG*       [0 to 995/100/5%]         535- 035-       Thick 3: Leading Edge Correct.       Paper Transfer: 2Side       ENG*       [0 to 995/100/5%]	534-				
534- 011       Thick 3: Size-Env.Correct:FC       Paper Transfer: 2Side:S3       ENG*       [ 1 to 100 / 80 / 1 ]         534- 012       Thick 3: Size-Env.Correct:FC       Paper Transfer: 1Side:S4       ENG*       [ 1 to 100 / 81 / 1 ]         534- 015       Thick 3: Size-Env.Correct:FC       Paper Transfer: 2Side:S4       ENG*       [ 1 to 100 / 82 / 1 ]         534- 016       Thick 3: Leading Edge Correct.       Paper Transfer: 1Side       ENG*       [ 0 to 995 / 100 / 5% ]         535- 003       Thick 3: Leading Edge Correct.       Paper Transfer: 2Side       ENG*       [ 0 to 995 / 100 / 5% ]	008				
011       2-       Thick 3: Size-Env.Correct:FC       Paper Transfer: 2Side:S3       ENG*       [ 1 to 100 / 80 / 1 ]         534-       012       Thick 3: Size-Env.Correct:FC       Paper Transfer: 1Side:S4       ENG*       [ 1 to 100 / 81 / 1 ]         534-       015       Thick 3: Size-Env.Correct:FC       Paper Transfer: 2Side:S4       ENG*       [ 1 to 100 / 82 / 1 ]         534-       016       ENG*       [ 0 to 995 / 100 / 5% ]         2-       Thick 3: Leading Edge Correct.       Paper Transfer: 1Side       ENG*       [ 0 to 995 / 100 / 5% ]         535-       003       ENG*       [ 0 to 995 / 100 / 5% ]	2-	Thick 3: Size-Env.Correct:FC	Paper Transfer: 1Side:S3	ENG*	[ 1 to 100 / 79 / 1 ]
2-         Thick 3: Size-Env.Correct:FC         Paper Transfer: 2Side:S3         ENG*         [ 1 to 100 / 80 / 1 ]           534- 012         Thick 3: Size-Env.Correct:FC         Paper Transfer: 1Side:S4         ENG*         [ 1 to 100 / 81 / 1 ]           534- 015         Thick 3: Size-Env.Correct:FC         Paper Transfer: 2Side:S4         ENG*         [ 1 to 100 / 82 / 1 ]           534- 016         Thick 3: Leading Edge Correct.         Paper Transfer: 1Side         ENG*         [ 0 to 995 / 100 / 5% ]           535- 003         Thick 3: Leading Edge Correct.         Paper Transfer: 2Side         ENG*         [ 0 to 995 / 100 / 5% ]           535- 535-         Thick 3: Leading Edge Correct.         Paper Transfer: 2Side         ENG*         [ 0 to 995 / 100 / 5% ]	534-				
534- 012       Description       Paper Transfer: 1Side:S4       ENG*       [1 to 100 / 81 / 1]         2- 534- 015       Thick 3: Size-Env.Correct:FC       Paper Transfer: 2Side:S4       ENG*       [1 to 100 / 82 / 1]         534- 016       Thick 3: Leading Edge Correct.       Paper Transfer: 1Side       ENG*       [0 to 995 / 100 / 5%]         535- 003       Thick 3: Leading Edge Correct.       Paper Transfer: 2Side       ENG*       [0 to 995 / 100 / 5%]	011				
012       Thick 3: Size-Env.Correct:FC       Paper Transfer: 1Side:S4       ENG*       [1 to 100 / 81 / 1]         534- 015       Thick 3: Size-Env.Correct:FC       Paper Transfer: 2Side:S4       ENG*       [1 to 100 / 82 / 1]         534- 016       Thick 3: Leading Edge Correct.       Paper Transfer: 1Side       ENG*       [0 to 995 / 100 / 5%]         535- 003       Thick 3: Leading Edge Correct.       Paper Transfer: 2Side       ENG*       [0 to 995 / 100 / 5%]	2-	Thick 3: Size-Env.Correct:FC	Paper Transfer: 2Side:S3	ENG*	[ 1 to 100 / 80 / 1 ]
2-       Thick 3: Size-Env.Correct:FC       Paper Transfer: 1Side:S4       ENG*       [ 1 to 100 / 81 / 1 ]         534- 015       Thick 3: Size-Env.Correct:FC       Paper Transfer: 2Side:S4       ENG*       [ 1 to 100 / 82 / 1 ]         534- 016       Thick 3: Leading Edge Correct.       Paper Transfer: 1Side       ENG*       [ 0 to 995 / 100 / 5% ]         535- 003       Thick 3: Leading Edge Correct.       Paper Transfer: 2Side       ENG*       [ 0 to 995 / 100 / 5% ]	534-				
534- 015       015       Thick 3: Size-Env.Correct:FC       Paper Transfer: 2Side:S4       ENG*       [ 1 to 100 / 82 / 1 ]         534- 016       Thick 3: Leading Edge Correct.       Paper Transfer: 1Side       ENG*       [ 0 to 995 / 100 / 5% ]         535- 003       Thick 3: Leading Edge Correct.       Paper Transfer: 2Side       ENG*       [ 0 to 995 / 100 / 5% ]         535- 535-       Thick 3: Leading Edge Correct.       Paper Transfer: 2Side       ENG*       [ 0 to 995 / 100 / 5% ]	012				
015       Thick 3: Size-Env.Correct:FC       Paper Transfer: 2Side:S4       ENG*       [ 1 to 100 / 82 / 1 ]         534- 016       Thick 3: Leading Edge Correct.       Paper Transfer: 1Side       ENG*       [ 0 to 995 / 100 / 5% ]         535- 003       Thick 3: Leading Edge Correct.       Paper Transfer: 2Side       ENG*       [ 0 to 995 / 100 / 5% ]         535- 535-       Thick 3: Leading Edge Correct.       Paper Transfer: 2Side       ENG*       [ 0 to 995 / 100 / 5% ]	2-	Thick 3: Size-Env.Correct:FC	Paper Transfer: 1Side:S4	ENG*	[1 to 100 / 81 / 1]
2-       Thick 3: Size-Env.Correct:FC       Paper Transfer: 2Side:S4       ENG*       [ 1 to 100 / 82 / 1 ]         534- 016       Thick 3: Leading Edge Correct.       Paper Transfer: 1Side       ENG*       [ 0 to 995 / 100 / 5% ]         535- 003       Thick 3: Leading Edge Correct.       Paper Transfer: 2Side       ENG*       [ 0 to 995 / 100 / 5% ]         535- 535-       Finch 3: Leading Edge Correct.       Paper Transfer: 2Side       ENG*       [ 0 to 995 / 100 / 5% ]	534-				
534-       016         2-       Thick 3: Leading Edge Correct.       Paper Transfer: 1Side       ENG*       [ 0 to 995 / 100 / 5% ]         535-       003       Thick 3: Leading Edge Correct.       Paper Transfer: 2Side       ENG*       [ 0 to 995 / 100 / 5% ]         535-       535-       Find the paper Transfer: 2Side       ENG*       [ 0 to 995 / 100 / 5% ]	015				
016       Thick 3: Leading Edge Correct.       Paper Transfer: 1Side       ENG*       [ 0 to 995 / 100 / 5% ]         535- 003       Thick 3: Leading Edge Correct.       Paper Transfer: 2Side       ENG*       [ 0 to 995 / 100 / 5% ]         535- 535-       ENG*       [ 0 to 995 / 100 / 5% ]	2-	Thick 3: Size-Env.Correct:FC	Paper Transfer: 2Side:S4	ENG*	[ 1 to 100 / 82 / 1 ]
2- Thick 3: Leading Edge Correct. Paper Transfer: 1Side ENG* [ 0 to 995 / 100 / 5% ]  2- Thick 3: Leading Edge Correct. Paper Transfer: 2Side ENG* [ 0 to 995 / 100 / 5% ]  535- [ 0 to 995 / 100 / 5% ]	534-				
535- 003  2- Thick 3: Leading Edge Correct. Paper Transfer: 2Side ENG* [ 0 to 995 / 100 / 5% ]	016				
003         Thick 3: Leading Edge Correct.         Paper Transfer: 2Side         ENG*         [ 0 to 995 / 100 / 5% ]	2-	Thick 3: Leading Edge Correct.	Paper Transfer: 1Side	ENG*	[ 0 to 995 / 100 / 5% ]
2- Thick 3: Leading Edge Correct. Paper Transfer: 2Side ENG* [ 0 to 995 / 100 / 5% ] 535-	535-				
535-	003				
	2-	Thick 3: Leading Edge Correct.	Paper Transfer: 2Side	ENG*	[ 0 to 995 / 100 / 5% ]
004	535-				
	004				

	m: 1 2 7		F3.7.5.1	F.O
2-	Thick 3: Leading Edge Correct.	Separation DC: 1Side	ENG*	[ 0 to 995 / 100 / 5% ]
535-				
007				
2-	Thick 3: Leading Edge Correct.	Separation DC: 2Side	ENG*	[ 0 to 995 / 100 / 5% ]
535-				
008				
2-	Thick 3: SW Timing Lead Edge	Paper Transfer: 1Side	ENG*	[ 0 to 50 / 0 / 2mm ]
536-				
003				
2-	Thick 3: SW Timing Lead Edge	Paper Transfer: 2Side	ENG*	[ 0 to 50 / 0 / 2mm ]
536-				
004				
2-	Thick 3: SW Timing Lead Edge	Separation DC: 1Side	ENG*	[ 0 to 50 / 0 / 2mm ]
536-				
007				
2-	Thick 3: SW Timing Lead Edge	Separation DC: 2Side	ENG*	[ 0 to 50 / 0 / 2mm ]
536-				
008				
2-	Thick 3: Trail Edge Correction	Paper Transfer: 1Side	ENG*	[ 0 to 995 / 100 / 5% ]
537-				
003				
2-	Thick 3: Trail Edge Correction	Paper Transfer: 2Side	ENG*	[ 0 to 995 / 100 / 5% ]
537-				
004				
2-	Thick 3: Trail Edge Correction	Separation DC: 1Side	ENG*	[ 0 to 995 / 100 / 5% ]
537-				
007				
2-	Thick 3: Trail Edge Correction	Separation DC: 2Side	ENG*	[ 0 to 995 / 100 / 5% ]
537-				
008				
2-	Thick 3: SW Timing Trail Edge	Paper Transfer: 1Side	ENG*	[ 0 to 50 / 0 / 2mm ]
538-				
003				
2-	Thick 3: SW Timing Trail Edge	Paper Transfer: 2Side	ENG*	[ 0 to 50 / 0 / 2mm ]
538-				
004				
2-	Thick 3: SW Timing Trail Edge	Separation DC: 1Side	ENG*	[ 0 to 50 / 0 / 2mm ]
538-				
007				
110	1	L		

## 3.SP Mode Tables

2-	Thick 3: SW Timing Trail Edge	Separation DC: 2Side	ENG*	[ 0 to 50 / 0 / 2mm ]
538-				
008				
2-	Thick 3: Envir Correct. Table	Separation DC: 1Side	ENG*	[ 1 to 100 / 30 / 1 ]
539-				
015				
2-	Thick 3: Envir Correct. Table	Separation DC: 2Side	ENG*	[ 1 to 100 / 30 / 1 ]
539-				
016				
2-	Thick 3: Edge Envir Correct.	Separation DC: 1Side	ENG*	[ 1 to 100 / 30 / 1 ]
539-				
019				
2-	Thick 3: Edge Envir Correct.	Separation DC: 2Side	ENG*	[ 1 to 100 / 30 / 1 ]
539-				
020				

## SP Tables - SP2-XXX (2)

## SP2-XXX (Drum) -2

SP No.	Large Category	Small Category	ENG or	[Min to
			CTL	Max/Init./Step]
2-541-	OHP: Bias	Separation DC	ENG*	[ 0 to 4000 / 0 / 10-V ]
003				
2-543-	OHP: Bias: BW	Paper Transfer	ENG*	[ 0 to 200 / 9 / 1uA ]
003				
2-547-	OHP: Bias: FC	Paper Transfer	ENG*	[ 0 to 200 / 10 / 1uA ]
003				
2-551-	OHP: Size Correction:BW	PaperTransfer:S1	ENG*	[ 100 to 995 / 100 /
003				5% ]
2-551-	OHP: Size Correction:BW	PaperTransfer:S2	ENG*	[ 100 to 995 / 122 /
007				5% ]
2-551-	OHP: Size Correction:BW	PaperTransfer:S3	ENG*	[ 100 to 995 / 156 /
011				5% ]
2-551-	OHP: Size Correction:BW	PaperTransfer:S4	ENG*	[ 100 to 995 / 189 /
015				5% ]
2-552-	OHP: Size Correction:FC	PaperTransfer:S1	ENG*	[ 100 to 995 / 100 /
003				5% ]
2-552-	OHP: Size Correction:FC	PaperTransfer:S2	ENG*	[ 100 to 995 / 118 /
007				5% ]
2-552-	OHP: Size Correction:FC	PaperTransfer:S3	ENG*	[ 100 to 995 / 164 /
011				5% ]
2-552-	OHP: Size Correction:FC	PaperTransfer:S4	ENG*	[ 100 to 995 / 182 /
015				5% ]
2-553-	OHP: Size-Env.Correct:BW	PaperTransfer:S1	ENG*	[ 1 to 100 / 83 / 1 ]
003				
2-553-	OHP: Size-Env.Correct:BW	PaperTransfer:S2	ENG*	[ 1 to 100 / 84 / 1 ]
007				
2-553-	OHP: Size-Env.Correct:BW	PaperTransfer:S3	ENG*	[ 1 to 100 / 85 / 1 ]
011				
2-553-	OHP: Size-Env.Correct:BW	PaperTransfer:S4	ENG*	[ 1 to 100 / 86 / 1 ]
015				
2-554-	OHP: Size-Env.Correct:FC	PaperTransfer:S1	ENG*	[ 1 to 100 / 83 / 1 ]
003				
2-554-	OHP: Size-Env.Correct:FC	PaperTransfer:S2	ENG*	[ 1 to 100 / 84 / 1 ]

	T			
007				
2-554-	OHP: Size-Env.Correct:FC	PaperTransfer:S3	ENG*	[ 1 to 100 / 85 / 1 ]
011				
2-554-	OHP: Size-Env.Correct:FC	PaperTransfer:S4	ENG*	[ 1 to 100 / 86 / 1 ]
015				
2-555-	OHP: Leading Edge	Paper Transfer	ENG*	[ 0 to 995 / 100 / 5% ]
003	Correction			
2-555-	OHP: Leading Edge	Separation DC	ENG*	[ 0 to 995 / 100 / 5% ]
007	Correction			
2-556-	OHP: Switch Timing Lead	Paper Transfer	ENG*	[ 0 to 50 / 0 / 2mm ]
003	Edge			
2-556-	OHP: Switch Timing Lead	Separation DC	ENG*	[ 0 to 50 / 0 / 2mm ]
007	Edge			
2-557-	OHP: Trail Edge Correction	Paper Transfer	ENG*	[ 0 to 995 / 100 / 5% ]
003				
2-557-	OHP: Trail Edge Correction	Separation DC	ENG*	[ 0 to 995 / 100 / 5% ]
007				
2-558-	OHP: Switch Timing Trail	Paper Transfer	ENG*	[ 0 to 50 / 0 / 2mm ]
003	Edge			
2-558-	OHP: Switch Timing Trail	Separation DC	ENG*	[ 0 to 50 / 0 / 2mm ]
007	Edge			
2-559-	OHP: Environment Correct	Separation DC	ENG*	[ 1 to 100 / 30 / 1 ]
015	Table			
2-559-	OHP: Edge Environment	Separation DC	ENG*	[ 1 to 100 / 30 / 1 ]
019	Correc.			
2-561-	Special 1: Bias	Separation DC: Std Spd:	ENG*	[ 0 to 4000 / 2000 /
001		1Side		10-V ]
2-561-	Special 1: Bias	Separation DC: Std Spd:	ENG*	[ 0 to 4000 / 2000 /
002		2Side		10-V ]
2-561-	Special 1: Bias	Separation DC: Low Spd:	ENG*	[ 0 to 4000 / 2000 /
003		1Side		10-V ]
2-561-	Special 1: Bias	Separation DC: Low Spd:	ENG*	[ 0 to 4000 / 2000 /
004		2Side	<u> </u>	10-V ]
2-563-	Special 1: Bias: BW	Paper Transfer: Std/Mid Spd:	ENG*	[ 0 to 200 / * / 1uA ]
001		1Side		*MP C307: 21
				*MP C407: 24
2-563-	Special 1: Bias: BW	Paper Transfer: Std/Mid Spd:	ENG*	[ 0 to 200 / * / 1uA ]
002		2Side		*MP C307: 16

				*MP C407: 18
2-563-	Special 1: Bias: BW	Paper Transfer: Low Spd:	ENG*	[ 0 to 200 / 10 / 1uA ]
003		1Side		
2-563-	Special 1: Bias: BW	Paper Transfer: Low Spd:	ENG*	[ 0 to 200 / 8 / 1uA ]
004		2Side		
2-563-	Special 1: Bias: BW	Paper Transfer: Std Spd 2:	ENG*	[ 0 to 200 / 30 / 1uA ]
201		1Side		
2-563-	Special 1: Bias: BW	Paper Transfer: Std Spd 2:	ENG*	[ 0 to 200 / 22 / 1uA ]
202		2Side		
2-567-	Special 1: Bias: FC	Paper Transfer: Std/Mid Spd:	ENG*	[ 0 to 200 / * / 1uA ]
001		1Side		*MP C307: 22
				*MP C407: 25
2-567-	Special 1: Bias: FC	Paper Transfer: Std/Mid Spd:	ENG*	[ 0 to 200 / * / 1uA ]
002		2Side		*MP C307: 18
				*MP C407: 20
2-567-	Special 1: Bias: FC	Paper Transfer: Low Spd:	ENG*	[ 0 to 200 / 11 / 1uA ]
003		1Side		
2-567-	Special 1: Bias: FC	Paper Transfer: Low Spd:	ENG*	[ 0 to 200 / 10 / 1uA ]
004		2Side		
2-571-	Special 1: SizeCorrection:BW	Paper Transfer: Std/Mid Spd:	ENG*	[ 100 to 995 / 100 /
001		1Side:S1		5%]
2-571-	Special 1: SizeCorrection:BW	Paper Transfer: Std/Mid Spd:	ENG*	[ 100 to 995 / 100 /
002		2Side:S1		5% ]
2-571-	Special 1: SizeCorrection:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 100 /
003		1Side:S1		5%]
2-571-	Special 1: SizeCorrection:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 100 /
004		2Side:S1		5%]
2-571-	Special 1: SizeCorrection:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 120 /
007		1Side:S2		5% ]
2-571-	Special 1: SizeCorrection:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 175 /
008		2Side:S2		5%]
2-571-	Special 1: SizeCorrection:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 130 /
011		1Side:S3		5% ]
2-571-	Special 1: SizeCorrection:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 213 /
012		2Side:S3		5%]
2-571-	Special 1: SizeCorrection:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 140 /
015		1Side:S4		5%]
2-571-	Special 1: SizeCorrection:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 275 /

016		2Side:S4		5% ]
2-572-	Special 1: SizeCorrection:FC	Paper Transfer: Std/Mid Spd:	ENG*	[ 100 to 995 / 100 /
001		1Side:S1		5%]
2-572-	Special 1: SizeCorrection:FC	Paper Transfer: Std/Mid Spd:	ENG*	[ 100 to 995 / 100 /
002		2Side:S1		5%]
2-572-	Special 1: SizeCorrection:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 100 /
003		1Side:S1		5%]
2-572-	Special 1: SizeCorrection:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 100 /
004		2Side:S1		5% ]
2-572-	Special 1: SizeCorrection:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 118 /
007		1Side:S2		5%]
2-572-	Special 1: SizeCorrection:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 150 /
008		2Side:S2		5%]
2-572-	Special 1: SizeCorrection:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 130 /
011		1Side:S3		5% ]
2-572-	Special 1: SizeCorrection:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 180 /
012		2Side:S3		5%]
2-572-	Special 1: SizeCorrection:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 140 /
015		1Side:S4		5%]
2-572-	Special 1: SizeCorrection:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 250 /
016		2Side:S4		5%]
2-573-	Special 1: Size-	Paper Transfer: Std/Mid Spd:	ENG*	[ 1 to 100 / 21 / 1 ]
001	Env.Correct:BW	1Side:S1		
2-573-	Special 1: Size-	Paper Transfer: Std/Mid Spd:	ENG*	[ 1 to 100 / 22 / 1 ]
002	Env.Correct:BW	2Side:S1		
2-573-	Special 1: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 25 / 1 ]
003	Env.Correct:BW	1Side:S1		
2-573-	Special 1: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 26 / 1 ]
004	Env.Correct:BW	2Side:S1		
2-573-	Special 1: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 27 / 1 ]
007	Env.Correct:BW	1Side:S2		
2-573-	Special 1: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 28 / 1 ]
008	Env.Correct:BW	2Side:S2		
2-573-	Special 1: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 29 / 1 ]
011	Env.Correct:BW	1Side:S3		
2-573-	Special 1: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 30 / 1 ]
012	Env.Correct:BW	2Side:S3		
2-573-	Special 1: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 31 / 1 ]

015	Env.Correct:BW	1Side:S4		
2-573-	Special 1: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 32 / 1 ]
016	Env.Correct:BW	2Side:S4		
2-574-	Special 1: Size-	Paper Transfer: Std/Mid Spd:	ENG*	[ 1 to 100 / 23 / 1 ]
001	Env.Correct:FC	1Side:S1		
2-574-	Special 1: Size-	Paper Transfer: Std/Mid Spd:	ENG*	[ 1 to 100 / 24 / 1 ]
002	Env.Correct:FC	2Side:S1		
2-574-	Special 1: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 25 / 1 ]
003	Env.Correct:FC	1Side:S1		
2-574-	Special 1: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 26 / 1 ]
004	Env.Correct:FC	2Side:S1		
2-574-	Special 1: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 27 / 1 ]
007	Env.Correct:FC	1Side:S2		
2-574-	Special 1: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 28 / 1 ]
008	Env.Correct:FC	2Side:S2		
2-574-	Special 1: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 29 / 1 ]
011	Env.Correct:FC	1Side:S3		
2-574-	Special 1: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 30 / 1 ]
012	Env.Correct:FC	2Side:S3		
2-574-	Special 1: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 31 / 1 ]
015	Env.Correct:FC	1Side:S4		
2-574-	Special 1: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 32 / 1 ]
016	Env.Correct:FC	2Side:S4		
2-575-	Special 1:	Paper Transfer: Std/Mid Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
001	LeadingEdgeCorrect.	1Side		
2-575-	Special 1:	Paper Transfer: Std/Mid Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
002	LeadingEdgeCorrect.	2Side		
2-575-	Special 1:	Paper Transfer: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
003	LeadingEdgeCorrect.	1Side		
2-575-	Special 1:	Paper Transfer: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
004	LeadingEdgeCorrect.	2Side		
2-575-	Special 1:	Separation DC: Std Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
005	LeadingEdgeCorrect.	1Side		
2-575-	Special 1:	Separation DC: Std Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
006	LeadingEdgeCorrect.	2Side		
2-575-	Special 1:	Separation DC: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
007	LeadingEdgeCorrect.	1Side		
2-575-	Special 1:	Separation DC: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
		1	<u> </u>	

008	LeadingEdgeCorrect.	2Side		
2-576-	Special 1: SW Timing Lead	Paper Transfer: Std/Mid Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
001	Edge	1Side		
2-576-	Special 1: SW Timing Lead	Paper Transfer: Std/Mid Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
002	Edge	2Side		
2-576-	Special 1: SW Timing Lead	Paper Transfer: Low Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
003	Edge	1Side		
2-576-	Special 1: SW Timing Lead	Paper Transfer: Low Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
004	Edge	2Side		
2-576-	Special 1: SW Timing Lead	Separation DC: Std Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
005	Edge	1Side		
2-576-	Special 1: SW Timing Lead	Separation DC: Std Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
006	Edge	2Side		
2-576-	Special 1: SW Timing Lead	Separation DC: Low Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
007	Edge	1Side		
2-576-	Special 1: SW Timing Lead	Separation DC: Low Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
008	Edge	2Side		
2-577-	Special 1:	Paper Transfer: Std/Mid Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
001	TrailEdgeCorrection	1Side		
2-577-	Special 1:	Paper Transfer: Std/Mid Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
002	TrailEdgeCorrection	2Side		
2-577-	Special 1:	Paper Transfer: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
003	TrailEdgeCorrection	1Side		
2-577-	Special 1:	Paper Transfer: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
004	TrailEdgeCorrection	2Side		
2-577-	Special 1:	Separation DC: Std Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
005	TrailEdgeCorrection	1Side		
2-577-	Special 1:	Separation DC: Std Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
006	TrailEdgeCorrection	2Side		
2-577-	Special 1:	Separation DC: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
007	TrailEdgeCorrection	1Side		
2-577-	Special 1:	Separation DC: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
008	TrailEdgeCorrection	2Side		
2-578-	Special 1: SWTiming Trail	Paper Transfer: Std/Mid Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
001	Edge	1Side		
2-578-	Special 1: SWTiming Trail	Paper Transfer: Std/Mid Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
002	Edge	2Side		
2-578-	Special 1: SWTiming Trail	Paper Transfer: Low Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]

003	Edge	1Side		
2-578-	Special 1: SWTiming Trail	Paper Transfer: Low Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
004	Edge	2Side		
2-578-	Special 1: SWTiming Trail	Separation DC: Std Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
005	Edge	1Side		
2-578-	Special 1: SWTiming Trail	Separation DC: Std Spd: 2side	ENG*	[ 0 to 50 / 0 / 2mm ]
006	Edge			
2-578-	Special 1: SWTiming Trail	Separation DC: Low Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
007	Edge	1Side		
2-578-	Special 1: SWTiming Trail	Separation DC: Low Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
800	Edge	2Side		
2-579-	Special 1: EnvCorrectionTable	Separation DC: Std Spd:	ENG*	[ 1 to 100 / 30 / 1 ]
013		1Side		
2-579-	Special 1: EnvCorrectionTable	Separation DC: Std Spd: 2side	ENG*	[ 1 to 100 / 30 / 1 ]
014				
2-579-	Special 1: EnvCorrectionTable	Separation DC: Low Spd:	ENG*	[ 1 to 100 / 30 / 1 ]
015		1Side		
2-579-	Special 1: EnvCorrectionTable	Separation DC: Low Spd:	ENG*	[ 1 to 100 / 30 / 1 ]
016		2Side		
2-579-	Special 1: Edge Envir Correc.	Separation DC: Std Spd:	ENG*	[ 1 to 100 / 50 / 1 ]
017		1Side		
2-579-	Special 1: Edge Envir Correc.	Separation DC: Std Spd: 2side	ENG*	[ 1 to 100 / 50 / 1 ]
018				
2-579-	Special 1: Edge Envir Correc.	Separation DC: Low Spd:	ENG*	[ 1 to 100 / 50 / 1 ]
019		1Side		
2-579-	Special 1: Edge Envir Correc.	Separation DC: Low Spd:	ENG*	[ 1 to 100 / 50 / 1 ]
020		2Side		
2-581-	Special 2: Bias	Separation DC: Std Spd:	ENG*	[ 0 to 4000 / 2000 /
001		1Side		10-V ]
2-581-	Special 2: Bias	Separation DC: Std Spd:	ENG*	[ 0 to 4000 / 2000 /
002		2Side		10-V ]
2-581-	Special 2: Bias	Separation DC: Low Spd:	ENG*	[ 0 to 4000 / 2000 /
003		1Side		10-V ]
2-581-	Special 2: Bias	Separation DC: Low Spd:	ENG*	[ 0 to 4000 / 2000 /
004		2Side		10-V ]
2-583-	Special 2: Bias: BW	Paper Transfer: Std/Mid Spd:	ENG*	[ 0 to 200 / * / 1uA ]
001		1Side		*MP C307: 19
				*MP C407: 22

2-583-	Special 2: Bias: BW	Paper Transfer: Std/Mid Spd:	ENG*	[ 0 to 200 / * / 1uA ]
002	Special 2. Blus. B W	2Side	Ervo	*MP C307: 16
002		20140		*MP C407: 18
2-583-	Special 2: Bias: BW	Paper Transfer: Low Spd:	ENG*	[ 0 to 200 / 11 / 1uA ]
003	Special 2. Blas. BW	1Side	LING	[ 0 to 200 / 11 / 14/1]
2-583-	Special 2: Bias: BW	Paper Transfer: Low Spd:	ENG*	[ 0 to 200 / 11 / 1uA ]
004	Special 2. Dias. Dw	2Side	ENG	[0 to 200 / 11 / 14A]
2-583-	Special 2: Bias: BW	Paper Transfer: Std Spd 2:	ENG*	[ 0 to 200 / 26 / 1uA ]
201	Special 2. Dias. DW	1Side	ENG	[0 to 200 / 20 / TuA]
2-583-	Special 2: Bias: BW	Paper Transfer: Std Spd 2:	ENG*	[ 0 to 200 / 22 / 1uA ]
202	Special 2. Dias. Dw	2Side	ENG	[ 0 to 200 / 22 / TuA ]
2-587-	Special 2: Bias: FC	Paper Transfer: Std/Mid Spd:	ENG*	[ 0 to 200 / * / 1uA ]
001	Special 2. Blas. FC	1Side	ENG	*MP C307: 22
001		TSIGE		*MP C407: 25
2.507	G: 12 Pi FC	D T C C/ 1/MC 1 C . 1	ENC*	
2-587-	Special 2: Bias: FC	Paper Transfer: Std/Mid Spd:	ENG*	[ 0 to 200 / * / 1uA ]
002		2Side		*MP C307: 18
• • • •	a		- Direct	*MP C407: 20
2-587-	Special 2: Bias: FC	Paper Transfer: Low Spd:	ENG*	[ 0 to 200 / 13 / 1uA ]
003		1Side		
2-587-	Special 2: Bias: FC	Paper Transfer: Low Spd:	ENG*	[ 0 to 200 / 13 / 1uA ]
004		2Side		
2-591-	Special 2: SizeCorrection:BW	Paper Transfer: Std/Mid Spd:	ENG*	[ 100 to 995 / 100 /
001		1Side:S1		5% ]
2-591-	Special 2: SizeCorrection:BW	Paper Transfer: Std/Mid Spd:	ENG*	[ 100 to 995 / 100 /
002		2Side:S1		5% ]
2-591-	Special 2: SizeCorrection:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 100 /
003		1Side:S1		5% ]
2-591-	Special 2: SizeCorrection:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 100 /
004		2Side:S1		5% ]
2-591-	Special 2: SizeCorrection:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 120 /
007		1Side:S2		5%]
2-591-	Special 2: SizeCorrection:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 175 /
008		2Side:S2		5% ]
2-591-	Special 2: SizeCorrection:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 140 /
011		1Side:S3		5% ]
2-591-	Special 2: SizeCorrection:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 213 /
1		Ī	1	Í
012		2Side:S3		5% ]

015		1Side:S4		5%]
2-591-	Special 2: SizeCorrection:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 275 /
016	•	2Side:S4		5%]
2-592-	Special 2: SizeCorrection:FC	Paper Transfer: Std/Mid Spd:	ENG*	[ 100 to 995 / 100 /
001		1Side:S1		5%]
2-592-	Special 2: SizeCorrection:FC	Paper Transfer: Std/Mid Spd:	ENG*	[ 100 to 995 / 100 /
002		2Side:S1		5%]
2-592-	Special 2: SizeCorrection:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 100 /
003		1Side:S1		5%]
2-592-	Special 2: SizeCorrection:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 100 /
004		2Side:S1		5%]
2-592-	Special 2: SizeCorrection:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 118 /
007		1Side:S2		5%]
2-592-	Special 2: SizeCorrection:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 150 /
008		2Side:S2		5%]
2-592-	Special 2: SizeCorrection:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 136 /
011		1Side:S3		5% ]
2-592-	Special 2: SizeCorrection:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 154 /
012		2Side:S3		5% ]
2-592-	Special 2: SizeCorrection:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 140 /
015		1Side:S4		5% ]
2-592-	Special 2: SizeCorrection:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 250 /
016		2Side:S4		5% ]
2-593-	Special 2: Size-	Paper Transfer: Std/Mid Spd:	ENG*	[ 1 to 100 / 33 / 1 ]
001	Env.Correct:BW	1Side:S1		
2-593-	Special 2: Size-	Paper Transfer: Std/Mid Spd:	ENG*	[ 1 to 100 / 34 / 1 ]
002	Env.Correct:BW	2Side:S1		
2-593-	Special 2: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 37 / 1 ]
003	Env.Correct:BW	1Side:S1		
2-593-	Special 2: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 38 / 1 ]
004	Env.Correct:BW	2Side:S1		
2-593-	Special 2: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 39 / 1 ]
007	Env.Correct:BW	1Side:S2		
2-593-	Special 2: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 40 / 1 ]
008	Env.Correct:BW	2Side:S2		
2-593-	Special 2: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 41 / 1 ]
011	Env.Correct:BW	1Side:S3		
2-593-	Special 2: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 42 / 1 ]

012	Env.Correct:BW	2Side:S3		
2-593-	Special 2: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 43 / 1 ]
015	Env.Correct:BW	1Side:S4		
2-593-	Special 2: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 44 / 1 ]
016	Env.Correct:BW	2Side:S4		
2-594-	Special 2: Size-	Paper Transfer: Std/Mid Spd:	ENG*	[ 1 to 100 / 35 / 1 ]
001	Env.Correct:FC	1Side:S1		
2-594-	Special 2: Size-	Paper Transfer: Std/Mid Spd:	ENG*	[ 1 to 100 / 36 / 1 ]
002	Env.Correct:FC	2Side:S1		
2-594-	Special 2: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 37 / 1 ]
003	Env.Correct:FC	1Side:S1		
2-594-	Special 2: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 38 / 1 ]
004	Env.Correct:FC	2Side:S1		
2-594-	Special 2: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 39 / 1 ]
007	Env.Correct:FC	1Side:S2		
2-594-	Special 2: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 40 / 1 ]
008	Env.Correct:FC	2Side:S2		
2-594-	Special 2: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 41 / 1 ]
011	Env.Correct:FC	1Side:S3		
2-594-	Special 2: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 42 / 1 ]
012	Env.Correct:FC	2Side:S3		
2-594-	Special 2: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 43 / 1 ]
015	Env.Correct:FC	1Side:S4		
2-594-	Special 2: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 44 / 1 ]
016	Env.Correct:FC	2Side:S4		
2-595-	Special 2:	Paper Transfer: Std/Mid Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
001	LeadingEdgeCorrect.	1Side		
2-595-	Special 2:	Paper Transfer: Std/Mid Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
002	LeadingEdgeCorrect.	2Side		
2-595-	Special 2:	Paper Transfer: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
003	LeadingEdgeCorrect.	1Side		
2-595-	Special 2:	Paper Transfer: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
004	LeadingEdgeCorrect.	2Side		
2-595-	Special 2:	Separation DC: Std Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
005	LeadingEdgeCorrect.	1Side		
2-595-	Special 2:	Separation DC: Std Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
006	LeadingEdgeCorrect.	2Side		
2-595-	Special 2:	Separation DC: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]

007	LeadingEdgeCorrect.	1Side		
2-595-	Special 2:	Separation DC: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
008	LeadingEdgeCorrect.	2Side		
2-596-	Special 2: SW Timing Lead	Paper Transfer: Std/Mid Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
001	Edge	1Side		
2-596-	Special 2: SW Timing Lead	Paper Transfer: Std/Mid Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
002	Edge	2Side		
2-596-	Special 2: SW Timing Lead	Paper Transfer: Low Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
003	Edge	1Side		
2-596-	Special 2: SW Timing Lead	Paper Transfer: Low Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
004	Edge	2Side		
2-596-	Special 2: SW Timing Lead	Separation DC: Std Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
005	Edge	1Side		
2-596-	Special 2: SW Timing Lead	Separation DC: Std Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
006	Edge	2Side		
2-596-	Special 2: SW Timing Lead	Separation DC: Low Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
007	Edge	1Side		
2-596-	Special 2: SW Timing Lead	Separation DC: Low Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
008	Edge	2Side		
2-597-	Special 2:	Paper Transfer: Std/Mid Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
001	TrailEdgeCorrection	1Side		
2-597-	Special 2:	Paper Transfer: Std/Mid Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
002	TrailEdgeCorrection	2Side		
2-597-	Special 2:	Paper Transfer: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
003	TrailEdgeCorrection	1Side		
2-597-	Special 2:	Paper Transfer: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
004	TrailEdgeCorrection	2Side		
2-597-	Special 2:	Separation DC: Std Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
005	TrailEdgeCorrection	1Side		
2-597-	Special 2:	Separation DC: Std Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
006	TrailEdgeCorrection	2Side		
2-597-	Special 2:	Separation DC: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
007	TrailEdgeCorrection	1Side		
2-597-	Special 2:	Separation DC: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
008	TrailEdgeCorrection	2Side		
2-598-	Special 2: SWTiming Trail	Paper Transfer: Std/Mid Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
001	Edge	1Side		
2-598-	Special 2: SWTiming Trail	Paper Transfer: Std/Mid Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]

002	Edge	2Side		
2-598-	Special 2: SWTiming Trail	Paper Transfer: Low Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
003	Edge	1Side		
2-598-	Special 2: SWTiming Trail	Paper Transfer: Low Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
004	Edge	2Side		
2-598-	Special 2: SWTiming Trail	Separation DC: Std Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
005	Edge	1Side		
2-598-	Special 2: SWTiming Trail	Separation DC: Std Spd: 2side	ENG*	[ 0 to 50 / 0 / 2mm ]
006	Edge			
2-598-	Special 2: SWTiming Trail	Separation DC: Low Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
007	Edge	1Side		
2-598-	Special 2: SWTiming Trail	Separation DC: Low Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
008	Edge	2Side		
2-599-	Special 2: EnvCorrectionTable	Separation DC: Std Spd:	ENG*	[ 1 to 100 / 30 / 1 ]
013		1Side		
2-599-	Special 2: EnvCorrectionTable	Separation DC: Std Spd: 2side	ENG*	[ 1 to 100 / 30 / 1 ]
014				
2-599-	Special 2: EnvCorrectionTable	Separation DC: Low Spd:	ENG*	[ 1 to 100 / 30 / 1 ]
015		1Side		
2-599-	Special 2: EnvCorrectionTable	Separation DC: Low Spd:	ENG*	[ 1 to 100 / 30 / 1 ]
016		2Side		
2-599-	Special 2: Edge Envir Correc.	Separation DC: Std Spd:	ENG*	[ 1 to 100 / 30 / 1 ]
017		1Side		
2-599-	Special 2: Edge Envir Correc.	Separation DC: Std Spd: 2side	ENG*	[ 1 to 100 / 30 / 1 ]
018				
2-599-	Special 2: Edge Envir Correc.	Separation DC: Low Spd:	ENG*	[ 1 to 100 / 30 / 1 ]
019		1Side		
2-599-	Special 2: Edge Envir Correc.	Separation DC: Low Spd:	ENG*	[ 1 to 100 / 30 / 1 ]
020		2Side		
2-601-	Special 3: Bias	Separation DC: Std Spd:	ENG*	[ 0 to 4000 / 2000 /
001		1Side		10-V ]
2-601-	Special 3: Bias	Separation DC: Std Spd:	ENG*	[ 0 to 4000 / 2000 /
002		2Side		10-V ]
2-601-	Special 3: Bias	Separation DC: Low Spd:	ENG*	[ 0 to 4000 / 2000 /
003		1Side		10-V ]
2-601-	Special 3: Bias	Separation DC: Low Spd:	ENG*	[ 0 to 4000 / 2000 /
004		2Side		10-V ]
2-603-	Special 3: Bias: BW	Paper Transfer: Std/Mid Spd:	ENG*	[ 0 to 200 / 20 / 1uA ]

001		1Side		
2-603-	Special 3: Bias: BW	Paper Transfer: Std/Mid Spd:	ENG*	[ 0 to 200 / 16 / 1uA ]
002	•	2Side		
2-603-	Special 3: Bias: BW	Paper Transfer: Low Spd:	ENG*	[ 0 to 200 / 10 / 1uA ]
003		1Side		
2-603-	Special 3: Bias: BW	Paper Transfer: Low Spd:	ENG*	[ 0 to 200 / 8 / 1uA ]
004		2Side		
2-603-	Special 3: Bias: BW	Paper Transfer: Std Spd 2:	ENG*	[ 0 to 200 / 26 / 1uA ]
201		1Side		
2-603-	Special 3: Bias: BW	Paper Transfer: Std Spd 2:	ENG*	[ 0 to 200 / 22 / 1uA ]
202		2Side		
2-607-	Special 3: Bias: FC	Paper Transfer: Std/Mid Spd:	ENG*	[ 0 to 200 / 22 / 1uA ]
001		1Side		
2-607-	Special 3: Bias: FC	Paper Transfer: Std/Mid Spd:	ENG*	[ 0 to 200 / 18 / 1uA ]
002		2Side		
2-607-	Special 3: Bias: FC	Paper Transfer: Low Spd:	ENG*	[ 0 to 200 / 11 / 1uA ]
003		1Side		
2-607-	Special 3: Bias: FC	Paper Transfer: Low Spd:	ENG*	[ 0 to 200 / 10 / 1uA ]
004		2Side		
2-611-	Special 3: SizeCorrection:BW	Paper Transfer: Std/Mid Spd:	ENG*	[ 100 to 995 / 100 /
001		1Side:S1		5% ]
2-611-	Special 3: SizeCorrection:BW	Paper Transfer: Std/Mid Spd:	ENG*	[ 100 to 995 / 100 /
002		2Side:S1		5% ]
2-611-	Special 3: SizeCorrection:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 100 /
003		1Side:S1		5% ]
2-611-	Special 3: SizeCorrection:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 100 /
004		2Side:S1		5% ]
2-611-	Special 3: SizeCorrection:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 130 /
007		1Side:S2		5% ]
2-611-	Special 3: SizeCorrection:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 163 /
008		2Side:S2		5% ]
2-611-	Special 3: SizeCorrection:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 150 /
011		1Side:S3		5% ]
2-611-	Special 3: SizeCorrection:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 250 /
012		2Side:S3		5% ]
2-611-	Special 3: SizeCorrection:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 150 /
015		1Side:S4		5% ]
2-611-	Special 3: SizeCorrection:BW	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 375 /

016		2Side:S4		5% ]
2-612-	Special 3: SizeCorrection:FC	Paper Transfer: Std/Mid Spd:	ENG*	[ 100 to 995 / 100 /
001		1Side:S1		5% ]
2-612-	Special 3: SizeCorrection:FC	Paper Transfer: Std/Mid Spd:	ENG*	[ 100 to 995 / 100 /
002		2Side:S1		5% ]
2-612-	Special 3: SizeCorrection:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 100 /
003		1Side:S1		5% ]
2-612-	Special 3: SizeCorrection:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 100 /
004		2Side:S1		5%]
2-612-	Special 3: SizeCorrection:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 136 /
007		1Side:S2		5%]
2-612-	Special 3: SizeCorrection:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 180 /
008		2Side:S2		5%]
2-612-	Special 3: SizeCorrection:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 150 /
011		1Side:S3		5% ]
2-612-	Special 3: SizeCorrection:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 250 /
012		2Side:S3		5%]
2-612-	Special 3: SizeCorrection:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 150 /
015		1Side:S4		5%]
2-612-	Special 3: SizeCorrection:FC	Paper Transfer: Low Spd:	ENG*	[ 100 to 995 / 350 /
016		2Side:S4		5%]
2-613-	Special 3: Size-	Paper Transfer: Std/Mid Spd:	ENG*	[ 1 to 100 / 21 / 1 ]
001	Env.Correct:BW	1Side:S1		
2-613-	Special 3: Size-	Paper Transfer: Std/Mid Spd:	ENG*	[ 1 to 100 / 22 / 1 ]
002	Env.Correct:BW	2Side:S1		
2-613-	Special 3: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 47 / 1 ]
003	Env.Correct:BW	1Side:S1		
2-613-	Special 3: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 48 / 1 ]
004	Env.Correct:BW	2Side:S1		
2-613-	Special 3: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 49 / 1 ]
007	Env.Correct:BW	1Side:S2		
2-613-	Special 3: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 50 / 1 ]
008	Env.Correct:BW	2Side:S2		
2-613-	Special 3: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 51 / 1 ]
011	Env.Correct:BW	1Side:S3		
2-613-	Special 3: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 52 / 1 ]
012	Env.Correct:BW	2Side:S3		
2-613-	Special 3: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 53 / 1 ]

015	Env.Correct:BW	1Side:S4		
2-613-	Special 3: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 54 / 1 ]
016	Env.Correct:BW	2Side:S4		
2-614-	Special 3: Size-	Paper Transfer: Std/Mid Spd:	ENG*	[ 1 to 100 / 45 / 1 ]
001	Env.Correct:FC	1Side:S1		
2-614-	Special 3: Size-	Paper Transfer: Std/Mid Spd:	ENG*	[ 1 to 100 / 46 / 1 ]
002	Env.Correct:FC	2Side:S1		
2-614-	Special 3: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 47 / 1 ]
003	Env.Correct:FC	1Side:S1		
2-614-	Special 3: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 48 / 1 ]
004	Env.Correct:FC	2Side:S1		
2-614-	Special 3: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 49 / 1 ]
007	Env.Correct:FC	1Side:S2		
2-614-	Special 3: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 50 / 1 ]
008	Env.Correct:FC	2Side:S2		
2-614-	Special 3: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 51 / 1 ]
011	Env.Correct:FC	1Side:S3		
2-614-	Special 3: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 52 / 1 ]
012	Env.Correct:FC	2Side:S3		
2-614-	Special 3: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 53 / 1 ]
015	Env.Correct:FC	1Side:S4		
2-614-	Special 3: Size-	Paper Transfer: Low Spd:	ENG*	[ 1 to 100 / 54 / 1 ]
016	Env.Correct:FC	2Side:S4		
2-615-	Special 3:	Paper Transfer: Std/Mid Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
001	LeadingEdgeCorrect.	1Side		
2-615-	Special 3:	Paper Transfer: Std/Mid Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
002	LeadingEdgeCorrect.	2Side		
2-615-	Special 3:	Paper Transfer: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
003	LeadingEdgeCorrect.	1Side		
2-615-	Special 3:	Paper Transfer: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
004	LeadingEdgeCorrect.	2Side		
2-615-	Special 3:	Separation DC: Std Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
005	LeadingEdgeCorrect.	1Side		
2-615-	Special 3:	Separation DC: Std Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
006	LeadingEdgeCorrect.	2Side		
2-615-	Special 3:	Separation DC: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
007	LeadingEdgeCorrect.	1Side		
2-615-	Special 3:	Separation DC: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]

008	LeadingEdgeCorrect.	2Side		
2-616-	Special 3: SW Timing Lead	Paper Transfer: Std/Mid Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
001	Edge	1Side		
2-616-	Special 3: SW Timing Lead	Paper Transfer: Std/Mid Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
002	Edge	2Side		
2-616-	Special 3: SW Timing Lead	Paper Transfer: Low Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
003	Edge	1Side		
2-616-	Special 3: SW Timing Lead	Paper Transfer: Low Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
004	Edge	2Side		
2-616-	Special 3: SW Timing Lead	Separation DC: Std Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
005	Edge	1Side		
2-616-	Special 3: SW Timing Lead	Separation DC: Std Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
006	Edge	2Side		
2-616-	Special 3: SW Timing Lead	Separation DC: Low Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
007	Edge	1Side		
2-616-	Special 3: SW Timing Lead	Separation DC: Low Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
008	Edge	2Side		
2-617-	Special 3:	Paper Transfer: Std/Mid Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
001	TrailEdgeCorrection	1Side		
2-617-	Special 3:	Paper Transfer: Std/Mid Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
002	TrailEdgeCorrection	2Side		
2-617-	Special 3:	Paper Transfer: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
003	TrailEdgeCorrection	1Side		
2-617-	Special 3:	Paper Transfer: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
004	TrailEdgeCorrection	2Side		
2-617-	Special 3:	Separation DC: Std Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
005	TrailEdgeCorrection	1Side		
2-617-	Special 3:	Separation DC: Std Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
006	TrailEdgeCorrection	2Side		
2-617-	Special 3:	Separation DC: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
007	TrailEdgeCorrection	1Side		
2-617-	Special 3:	Separation DC: Low Spd:	ENG*	[ 0 to 995 / 100 / 5% ]
008	TrailEdgeCorrection	2Side		
2-618-	Special 3: SWTiming Trail	Paper Transfer: Std/Mid Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
001	Edge	1Side		
2-618-	Special 3: SWTiming Trail	Paper Transfer: Std/Mid Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
002	Edge	2Side		
2-618-	Special 3: SWTiming Trail	Paper Transfer: Low Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]

003	Edge	1Side		
2-618-	Special 3: SWTiming Trail	Paper Transfer: Low Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
004	Edge	2Side		
2-618-	Special 3: SWTiming Trail	Separation DC: Std Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
005	Edge	1Side		
2-618-	Special 3: SWTiming Trail	Separation DC: Std Spd: 2side	ENG*	[ 0 to 50 / 0 / 2mm ]
006	Edge			
2-618-	Special 3: SWTiming Trail	Separation DC: Low Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
007	Edge	1Side		
2-618-	Special 3: SWTiming Trail	Separation DC: Low Spd:	ENG*	[ 0 to 50 / 0 / 2mm ]
008	Edge	2Side		
2-619-	Special 3: EnvCorrectionTable	Separation DC: Std Spd:	ENG*	[ 1 to 100 / 30 / 1 ]
013		1Side		
2-619-	Special 3: EnvCorrectionTable	Separation DC: Std Spd: 2side	ENG*	[ 1 to 100 / 30 / 1 ]
014				
2-619-	Special 3: EnvCorrectionTable	Separation DC: Low Spd:	ENG*	[ 1 to 100 / 30 / 1 ]
015		1Side		
2-619-	Special 3: EnvCorrectionTable	Separation DC: Low Spd:	ENG*	[ 1 to 100 / 30 / 1 ]
016		2Side		
2-619-	Special 3: Edge Envir Correc.	Separation DC: Std Spd:	ENG*	[ 1 to 100 / 30 / 1 ]
017		1Side		
2-619-	Special 3: Edge Envir Correc.	Separation DC: Std Spd: 2side	ENG*	[ 1 to 100 / 30 / 1 ]
018				
2-619-	Special 3: Edge Envir Correc.	Separation DC: Low Spd:	ENG*	[ 1 to 100 / 30 / 1 ]
019		1Side		
2-619-	Special 3: Edge Envir Correc.	Separation DC: Low Spd:	ENG*	[ 1 to 100 / 30 / 1 ]
020		2Side		
2-621-	Special 4: Bias	Separation DC: 1Side	ENG*	[ 0 to 4000 / 2000 /
003				10-V ]
2-621-	Special 4: Bias	Separation DC: 2Side	ENG*	[ 0 to 4000 / 2000 /
004				10-V ]
2-623-	Special 4: Bias: BW	Paper Transfer: 1Side	ENG*	[ 0 to 200 / 14 / 1uA ]
003				
2-623-	Special 4: Bias: BW	Paper Transfer: 2Side	ENG*	[ 0 to 200 / 9 / 1uA ]
004				
2-627-	Special 4: Bias: FC	Paper Transfer: 1Side	ENG*	[ 0 to 200 / 15 / 1uA ]
003				
2-627-	Special 4: Bias: FC	Paper Transfer: 2Side	ENG*	[ 0 to 200 / 11 / 1uA ]

004				
2-631-	Special 4: SizeCorrection:BW	Paper Transfer: 1Side: S1	ENG*	[ 100 to 995 / 100 /
003				5%]
2-631-	Special 4: SizeCorrection:BW	Paper Transfer: 2Side: S1	ENG*	[ 100 to 995 / 100 /
004				5%]
2-631-	Special 4: SizeCorrection:BW	Paper Transfer: 1Side: S2	ENG*	[ 100 to 995 / 100 /
007				5%]
2-631-	Special 4: SizeCorrection:BW	Paper Transfer: 2Side: S2	ENG*	[ 100 to 995 / 156 /
008				5%]
2-631-	Special 4: SizeCorrection:BW	Paper Transfer: 1Side: S3	ENG*	[ 100 to 995 / 107 /
011				5%]
2-631-	Special 4: SizeCorrection:BW	Paper Transfer: 2Side: S3	ENG*	[ 100 to 995 / 167 /
012				5%]
2-631-	Special 4: SizeCorrection:BW	Paper Transfer: 1Side: S4	ENG*	[ 100 to 995 / 100 /
015				5%]
2-631-	Special 4: SizeCorrection:BW	Paper Transfer: 2Side: S4	ENG*	[ 100 to 995 / 278 /
016				5% ]
2-632-	Special 4: SizeCorrection:FC	Paper Transfer: 1Side: S1	ENG*	[ 100 to 995 / 100 /
003				5% ]
2-632-	Special 4: SizeCorrection:FC	Paper Transfer: 2Side: S1	ENG*	[ 100 to 995 / 100 /
004				5% ]
2-632-	Special 4: SizeCorrection:FC	Paper Transfer: 1Side: S2	ENG*	[ 100 to 995 / 100 /
007				5% ]
2-632-	Special 4: SizeCorrection:FC	Paper Transfer: 2Side: S2	ENG*	[ 100 to 995 / 164 /
008				5% ]
2-632-	Special 4: SizeCorrection:FC	Paper Transfer: 1Side: S3	ENG*	[ 100 to 995 / 120 /
011				5% ]
2-632-	Special 4: SizeCorrection:FC	Paper Transfer: 2Side: S3	ENG*	[ 100 to 995 / 227 /
012				5% ]
2-632-	Special 4: SizeCorrection:FC	Paper Transfer: 1Side: S4	ENG*	[ 100 to 995 / 130 /
015				5% ]
2-632-	Special 4: SizeCorrection:FC	Paper Transfer: 2Side: S4	ENG*	[ 100 to 995 / 364 /
016				5% ]
2-633-	Special 4: Size-	Paper Transfer: 1Side: S1	ENG*	[ 1 to 100 / 59 / 1 ]
003	Env.Correct:BW			
2-633-	Special 4: Size-	Paper Transfer: 2Side: S1	ENG*	[ 1 to 100 / 60 / 1 ]
004	Env.Correct:BW			
2-633-	Special 4: Size-	Paper Transfer: 1Side: S2	ENG*	[ 1 to 100 / 61 / 1 ]

007	Env.Correct:BW			
2-633-	Special 4: Size-	Paper Transfer: 2Side: S2	ENG*	[ 1 to 100 / 62 / 1 ]
008	Env.Correct:BW			
2-633-	Special 4: Size-	Paper Transfer: 1Side: S3	ENG*	[ 1 to 100 / 55 / 1 ]
011	Env.Correct:BW			
2-633-	Special 4: Size-	Paper Transfer: 2Side: S3	ENG*	[ 1 to 100 / 56 / 1 ]
012	Env.Correct:BW			
2-633-	Special 4: Size-	Paper Transfer: 1Side: S4	ENG*	[ 1 to 100 / 57 / 1 ]
015	Env.Correct:BW			
2-633-	Special 4: Size-	Paper Transfer: 2Side: S4	ENG*	[ 1 to 100 / 58 / 1 ]
016	Env.Correct:BW			
2-634-	Special 4: Size-	Paper Transfer: 1Side: S1	ENG*	[ 1 to 100 / 59 / 1 ]
003	Env.Correct:FC			
2-634-	Special 4: Size-	Paper Transfer: 2Side: S1	ENG*	[ 1 to 100 / 60 / 1 ]
004	Env.Correct:FC			
2-634-	Special 4: Size-	Paper Transfer: 1Side: S2	ENG*	[ 1 to 100 / 61 / 1 ]
007	Env.Correct:FC			
2-634-	Special 4: Size-	Paper Transfer: 2Side: S2	ENG*	[ 1 to 100 / 62 / 1 ]
008	Env.Correct:FC			
2-634-	Special 4: Size-	Paper Transfer: 1Side: S3	ENG*	[ 1 to 100 / 63 / 1 ]
011	Env.Correct:FC			
2-634-	Special 4: Size-	Paper Transfer: 2Side: S3	ENG*	[ 1 to 100 / 64 / 1 ]
012	Env.Correct:FC			
2-634-	Special 4: Size-	Paper Transfer: 1Side: S4	ENG*	[ 1 to 100 / 65 / 1 ]
015	Env.Correct:FC			
2-634-	Special 4: Size-	Paper Transfer: 2Side: S4	ENG*	[ 1 to 100 / 66 / 1 ]
016	Env.Correct:FC			
2-635-	Special 4:	Paper Transfer: 1Side	ENG*	[ 0 to 995 / 100 / 5% ]
003	LeadingEdgeCorrect.			
2-635-	Special 4:	Paper Transfer: 2Side	ENG*	[ 0 to 995 / 100 / 5% ]
004	LeadingEdgeCorrect.			
2-635-	Special 4:	Separation DC: 1Side	ENG*	[ 0 to 995 / 100 / 5% ]
007	LeadingEdgeCorrect.			
2-635-	Special 4:	Separation DC: 2Side	ENG*	[ 0 to 995 / 100 / 5% ]
008	LeadingEdgeCorrect.			
2-636-	Special 4: SW Timing Lead	Paper Transfer: 1Side	ENG*	[ 0 to 50 / 0 / 2mm ]
003	Edge			
2-636-	Special 4: SW Timing Lead	Paper Transfer: 2Side	ENG*	[ 0 to 50 / 0 / 2mm ]

004	Edge			
2-636-	Special 4: SW Timing Lead	Separation DC: 1Side	ENG*	[ 0 to 50 / 0 / 2mm ]
007	Edge			
2-636-	Special 4: SW Timing Lead	Separation DC: 2Side	ENG*	[ 0 to 50 / 0 / 2mm ]
008	Edge			
2-637-	Special 4:	Paper Transfer: 1Side	ENG*	[ 0 to 995 / 100 / 5% ]
003	TrailEdgeCorrection			
2-637-	Special 4:	Paper Transfer: 2Side	ENG*	[ 0 to 995 / 100 / 5% ]
004	TrailEdgeCorrection			
2-637-	Special 4:	Separation DC: 1Side	ENG*	[ 0 to 995 / 100 / 5% ]
007	TrailEdgeCorrection			
2-637-	Special 4:	Separation DC: 2Side	ENG*	[ 0 to 995 / 100 / 5% ]
008	TrailEdgeCorrection			
2-638-	Special 4: SWTiming Trail	Paper Transfer: 1Side	ENG*	[ 0 to 50 / 0 / 2mm ]
003	Edge			
2-638-	Special 4: SWTiming Trail	Paper Transfer: 2Side	ENG*	[ 0 to 50 / 0 / 2mm ]
004	Edge			
2-638-	Special 4: SWTiming Trail	Separation DC: 1Side	ENG*	[ 0 to 50 / 0 / 2mm ]
007	Edge			
2-638-	Special 4: SWTiming Trail	Separation DC: 2Side	ENG*	[ 0 to 50 / 0 / 2mm ]
008	Edge			
2-639-	Special 4: EnvCorrectionTable	Separation DC: 1Side	ENG*	[ 1 to 100 / 30 / 1 ]
015				
2-639-	Special 4: EnvCorrectionTable	Separation DC: 2Side	ENG*	[ 1 to 100 / 30 / 1 ]
016				
2-639-	Special 4: Edge Envir Correc.	Separation DC: 1Side	ENG*	[ 1 to 100 / 30 / 1 ]
019				
2-639-	Special 4: Edge Envir Correc.	Separation DC: 2Side	ENG*	[ 1 to 100 / 30 / 1 ]
020				
2-641-	Special 5: Bias	Separation DC: 1Side	ENG*	[ 0 to 4000 / 2000 /
003				10-V ]
2-641-	Special 5: Bias	Separation DC: 2Side	ENG*	[ 0 to 4000 / 2000 /
004				10-V ]
2-643-	Special 5: Bias: BW	Paper Transfer: 1Side	ENG*	[ 0 to 200 / 11 / 1uA ]
003				
2-643-	Special 5: Bias: BW	Paper Transfer: 2Side	ENG*	[ 0 to 200 / 8 / 1uA ]
004				
2-647-	Special 5: Bias: FC	Paper Transfer: 1Side	ENG*	[ 0 to 200 / 12 / 1uA ]

003				
2-647-	Special 5: Bias: FC	Paper Transfer: 2Side	ENG*	[ 0 to 200 / 9 / 1uA ]
004				
2-651-	Special 5: SizeCorrection:BW	Paper Transfer: 1Side: S1	ENG*	[ 100 to 995 / 100 /
003				5%]
2-651-	Special 5: SizeCorrection:BW	Paper Transfer: 2Side: S1	ENG*	[ 100 to 995 / 100 /
004				5% ]
2-651-	Special 5: SizeCorrection:BW	Paper Transfer: 1Side: S2	ENG*	[ 100 to 995 / 100 /
007				5% ]
2-651-	Special 5: SizeCorrection:BW	Paper Transfer: 2Side: S2	ENG*	[ 100 to 995 / 163 /
008				5% ]
2-651-	Special 5: SizeCorrection:BW	Paper Transfer: 1Side: S3	ENG*	[ 100 to 995 / 136 /
011				5% ]
2-651-	Special 5: SizeCorrection:BW	Paper Transfer: 2Side: S3	ENG*	[ 100 to 995 / 250 /
012				5% ]
2-651-	Special 5: SizeCorrection:BW	Paper Transfer: 1Side: S4	ENG*	[ 100 to 995 / 164 /
015				5% ]
2-651-	Special 5: SizeCorrection:BW	Paper Transfer: 2Side: S4	ENG*	[ 100 to 995 / 313 /
016				5%]
2-652-	Special 5: SizeCorrection:FC	Paper Transfer: 1Side: S1	ENG*	[ 100 to 995 / 100 /
003		D		5%]
2-652-	Special 5: SizeCorrection:FC	Paper Transfer: 2Side: S1	ENG*	[ 100 to 995 / 100 /
004	G : 17 G: G : FG	D T C 10:1 02	ENG*	5%]
2-652-	Special 5: SizeCorrection:FC	Paper Transfer: 1Side: S2	ENG*	[ 100 to 995 / 100 /
007 2-652-	Special 5: SizeCorrection:FC	Paper Transfer: 2Side: S2	ENG*	5%] [ 100 to 995 / 200 /
008	Special 3. SizeConfection.FC	Paper Transfer. 25ide. 52	ENG	5%]
2-652-	Special 5: SizeCorrection:FC	Paper Transfer: 1Side: S3	ENG*	[ 100 to 995 / 138 /
011	Special 3. SizeContection.re	Tuper Transfer, 1810c, 83	LING	5%]
2-652-	Special 5: SizeCorrection:FC	Paper Transfer: 2Side: S3	ENG*	[ 100 to 995 / 278 /
012	1	r		5%]
2-652-	Special 5: SizeCorrection:FC	Paper Transfer: 1Side: S4	ENG*	[ 100 to 995 / 154 /
015	•	•		5%]
2-652-	Special 5: SizeCorrection:FC	Paper Transfer: 2Side: S4	ENG*	[ 100 to 995 / 389 /
016				5%]
2-653-	Special 5: Size-	Paper Transfer: 1Side: S1	ENG*	[ 1 to 100 / 67 / 1 ]
003	Env.Correct:BW			
2-653-	Special 5: Size-	Paper Transfer: 2Side: S1	ENG*	[ 1 to 100 / 68 / 1 ]

004	Env.Correct:BW			
2-653-	Special 5: Size-	Paper Transfer: 1Side: S2	ENG*	[ 1 to 100 / 69 / 1 ]
007	Env.Correct:BW			
2-653-	Special 5: Size-	Paper Transfer: 2Side: S2	ENG*	[ 1 to 100 / 70 / 1 ]
008	Env.Correct:BW			
2-653-	Special 5: Size-	Paper Transfer: 1Side: S3	ENG*	[ 1 to 100 / 71 / 1 ]
011	Env.Correct:BW			
2-653-	Special 5: Size-	Paper Transfer: 2Side: S3	ENG*	[ 1 to 100 / 72 / 1 ]
012	Env.Correct:BW			
2-653-	Special 5: Size-	Paper Transfer: 1Side: S4	ENG*	[ 1 to 100 / 73 / 1 ]
015	Env.Correct:BW			
2-653-	Special 5: Size-	Paper Transfer: 2Side: S4	ENG*	[ 1 to 100 / 74 / 1 ]
016	Env.Correct:BW			
2-654-	Special 5: Size-	Paper Transfer: 1Side: S1	ENG*	[ 1 to 100 / 67 / 1 ]
003	Env.Correct:FC			
2-654-	Special 5: Size-	Paper Transfer: 2Side: S1	ENG*	[ 1 to 100 / 68 / 1 ]
004	Env.Correct:FC			
2-654-	Special 5: Size-	Paper Transfer: 1Side: S2	ENG*	[ 1 to 100 / 69 / 1 ]
007	Env.Correct:FC			
2-654-	Special 5: Size-	Paper Transfer: 2Side: S2	ENG*	[ 1 to 100 / 70 / 1 ]
008	Env.Correct:FC			
2-654-	Special 5: Size-	Paper Transfer: 1Side: S3	ENG*	[ 1 to 100 / 71 / 1 ]
011	Env.Correct:FC			
2-654-	Special 5: Size-	Paper Transfer: 2Side: S3	ENG*	[ 1 to 100 / 72 / 1 ]
012	Env.Correct:FC			
2-654-	Special 5: Size-	Paper Transfer: 1Side: S4	ENG*	[ 1 to 100 / 73 / 1 ]
015	Env.Correct:FC			
2-654-	Special 5: Size-	Paper Transfer: 2Side: S4	ENG*	[ 1 to 100 / 74 / 1 ]
016	Env.Correct:FC			
2-655-	Special 5:	Paper Transfer: 1Side	ENG*	[ 0 to 995 / 100 / 5% ]
003	LeadingEdgeCorrect.			
2-655-	Special 5:	Paper Transfer: 2Side	ENG*	[ 0 to 995 / 100 / 5% ]
004	LeadingEdgeCorrect.			
2-655-	Special 5:	Separation DC: 1Side	ENG*	[ 0 to 995 / 100 / 5% ]
007	LeadingEdgeCorrect.			
2-655-	Special 5:	Separation DC: 2Side	ENG*	[ 0 to 995 / 100 / 5% ]
008	LeadingEdgeCorrect.			
2-656-	Special 5: SW Timing Lead	Paper Transfer: 1Side	ENG*	[ 0 to 50 / 0 / 2mm ]

003	Edge			
2-656-	Special 5: SW Timing Lead	Paper Transfer: 2Side	ENG*	[ 0 to 50 / 0 / 2mm ]
004	Edge			
2-656-	Special 5: SW Timing Lead	Separation DC: 1Side	ENG*	[ 0 to 50 / 0 / 2mm ]
007	Edge			
2-656-	Special 5: SW Timing Lead	Separation DC: 2Side	ENG*	[ 0 to 50 / 0 / 2mm ]
008	Edge			
2-657-	Special 5:	Paper Transfer: 1Side	ENG*	[ 0 to 995 / 100 / 5% ]
003	TrailEdgeCorrection			
2-657-	Special 5:	Paper Transfer: 2Side	ENG*	[ 0 to 995 / 100 / 5% ]
004	TrailEdgeCorrection			
2-657-	Special 5:	Separation DC: 1Side	ENG*	[ 0 to 995 / 100 / 5% ]
007	TrailEdgeCorrection			
2-657-	Special 5:	Separation DC: 2Side	ENG*	[ 0 to 995 / 100 / 5% ]
008	TrailEdgeCorrection			
2-658-	Special 5: SWTiming Trail	Paper Transfer: 1Side	ENG*	[ 0 to 50 / 0 / 2mm ]
003	Edge			
2-658-	Special 5: SWTiming Trail	Paper Transfer: 2Side	ENG*	[ 0 to 50 / 0 / 2mm ]
004	Edge			
2-658-	Special 5: SWTiming Trail	Separation DC: 1Side	ENG*	[ 0 to 50 / 0 / 2mm ]
007	Edge			
2-658-	Special 5: SWTiming Trail	Separation DC: 2Side	ENG*	[ 0 to 50 / 0 / 2mm ]
008	Edge			
2-659-	Special 5: EnvCorrectionTable	Separation DC: 1Side	ENG*	[ 1 to 100 / 30 / 1 ]
015				
2-659-	Special 5: EnvCorrectionTable	Separation DC: 2Side	ENG*	[ 1 to 100 / 30 / 1 ]
016				
2-659-	Special 5: Edge Envir Correc.	Separation DC: 1Side	ENG*	[ 1 to 100 / 30 / 1 ]
019				
2-659-	Special 5: Edge Envir Correc.	Separation DC: 2Side	ENG*	[ 1 to 100 / 30 / 1 ]
020				
2-661-	Special 6: Bias	Separation DC: 1Side	ENG*	[ 0 to 4000 / 2000 /
003				10-V ]
2-661-	Special 6: Bias	Separation DC: 2Side	ENG*	[ 0 to 4000 / 2000 /
004				10-V ]
2-663-	Special 6: Bias: BW	Paper Transfer: 1Side	ENG*	[ 0 to 200 / 9 / 1uA ]
003				
2-663-	Special 6: Bias: BW	Paper Transfer: 2Side	ENG*	[ 0 to 200 / 7 / 1uA ]

004				
2-667-	Special 6: Bias: FC	Paper Transfer: 1Side	ENG*	[ 0 to 200 / 11 / 1uA ]
003				
2-667-	Special 6: Bias: FC	Paper Transfer: 2Side	ENG*	[ 0 to 200 / 9 / 1uA ]
004				
2-671-	Special 6: SizeCorrection:BW	Paper Transfer: 1Side: S1	ENG*	[ 100 to 995 / 100 /
003				5%]
2-671-	Special 6: SizeCorrection:BW	Paper Transfer: 2Side: S1	ENG*	[ 100 to 995 / 100 /
004				5% ]
2-671-	Special 6: SizeCorrection:BW	Paper Transfer: 1Side: S2	ENG*	[ 100 to 995 / 122 /
007				5% ]
2-671-	Special 6: SizeCorrection:BW	Paper Transfer: 2Side: S2	ENG*	[ 100 to 995 / 186 /
008				5% ]
2-671-	Special 6: SizeCorrection:BW	Paper Transfer: 1Side: S3	ENG*	[ 100 to 995 / 156 /
011				5% ]
2-671-	Special 6: SizeCorrection:BW	Paper Transfer: 2Side: S3	ENG*	[ 100 to 995 / 271 /
012				5% ]
2-671-	Special 6: SizeCorrection:BW	Paper Transfer: 1Side: S4	ENG*	[ 100 to 995 / 170 /
015				5% ]
2-671-	Special 6: SizeCorrection:BW	Paper Transfer: 2Side: S4	ENG*	[ 100 to 995 / 357 /
016				5% ]
2-672-	Special 6: SizeCorrection:FC	Paper Transfer: 1Side: S1	ENG*	[ 100 to 995 / 100 /
003				5% ]
2-672-	Special 6: SizeCorrection:FC	Paper Transfer: 2Side: S1	ENG*	[ 100 to 995 / 100 /
004				5% ]
2-672-	Special 6: SizeCorrection:FC	Paper Transfer: 1Side: S2	ENG*	[ 100 to 995 / 118 /
007				5% ]
2-672-	Special 6: SizeCorrection:FC	Paper Transfer: 2Side: S2	ENG*	[ 100 to 995 / 200 /
008				5% ]
2-672-	Special 6: SizeCorrection:FC	Paper Transfer: 1Side: S3	ENG*	[ 100 to 995 / 140 /
011				5% ]
2-672-	Special 6: SizeCorrection:FC	Paper Transfer: 2Side: S3	ENG*	[ 100 to 995 / 278 /
012				5% ]
2-672-	Special 6: SizeCorrection:FC	Paper Transfer: 1Side: S4	ENG*	[ 100 to 995 / 150 /
015				5% ]
2-672-	Special 6: SizeCorrection:FC	Paper Transfer: 2Side: S4	ENG*	[ 100 to 995 / 389 /
016				5% ]
2-673-	Special 6: Size-	Paper Transfer: 1Side: S1	ENG*	[ 1 to 100 / 75 / 1 ]

003	Env.Correct:BW			
2-673-	Special 6: Size-	Paper Transfer: 2Side: S1	ENG*	[ 1 to 100 / 76 / 1 ]
004	Env.Correct:BW			
2-673-	Special 6: Size-	Paper Transfer: 1Side: S2	ENG*	[ 1 to 100 / 77 / 1 ]
007	Env.Correct:BW			
2-673-	Special 6: Size-	Paper Transfer: 2Side: S2	ENG*	[ 1 to 100 / 78 / 1 ]
008	Env.Correct:BW			
2-673-	Special 6: Size-	Paper Transfer: 1Side: S3	ENG*	[ 1 to 100 / 79 / 1 ]
011	Env.Correct:BW			
2-673-	Special 6: Size-	Paper Transfer: 2Side: S3	ENG*	[ 1 to 100 / 80 / 1 ]
012	Env.Correct:BW			
2-673-	Special 6: Size-	Paper Transfer: 1Side: S4	ENG*	[ 1 to 100 / 81 / 1 ]
015	Env.Correct:BW			
2-673-	Special 6: Size-	Paper Transfer: 2Side: S4	ENG*	[ 1 to 100 / 82 / 1 ]
016	Env.Correct:BW			
2-674-	Special 6: Size-	Paper Transfer: 1Side: S1	ENG*	[ 1 to 100 / 75 / 1 ]
003	Env.Correct:FC			
2-674-	Special 6: Size-	Paper Transfer: 2Side: S1	ENG*	[ 1 to 100 / 76 / 1 ]
004	Env.Correct:FC			
2-674-	Special 6: Size-	Paper Transfer: 1Side: S2	ENG*	[ 1 to 100 / 77 / 1 ]
007	Env.Correct:FC			
2-674-	Special 6: Size-	Paper Transfer: 2Side: S2	ENG*	[ 1 to 100 / 78 / 1 ]
008	Env.Correct:FC			
2-674-	Special 6: Size-	Paper Transfer: 1Side: S3	ENG*	[ 1 to 100 / 79 / 1 ]
011	Env.Correct:FC			
2-674-	Special 6: Size-	Paper Transfer: 2Side: S3	ENG*	[ 1 to 100 / 80 / 1 ]
012	Env.Correct:FC			
2-674-	Special 6: Size-	Paper Transfer: 1Side: S4	ENG*	[ 1 to 100 / 81 / 1 ]
015	Env.Correct:FC			
2-674-	Special 6: Size-	Paper Transfer: 2Side: S4	ENG*	[ 1 to 100 / 82 / 1 ]
016	Env.Correct:FC			
2-675-	Special 6:	Paper Transfer: 1Side	ENG*	[ 0 to 995 / 100 / 5% ]
003	LeadingEdgeCorrect.			
2-675-	Special 6:	Paper Transfer: 2Side	ENG*	[ 0 to 995 / 100 / 5% ]
004	LeadingEdgeCorrect.			
2-675-	Special 6:	Separation DC: 1Side	ENG*	[ 0 to 995 / 100 / 5% ]
007	LeadingEdgeCorrect.			
2-675-	Special 6:	Separation DC: 2Side	ENG*	[ 0 to 995 / 100 / 5% ]

008	LeadingEdgeCorrect.			
2-676-	Special 6:	Paper Transfer: 1Side	ENG*	[ 0 to 50 / 0 / 2mm ]
003	SWTimingLeadEdge			
2-676-	Special 6:	Paper Transfer: 2Side	ENG*	[ 0 to 50 / 0 / 2mm ]
004	SWTimingLeadEdge			
2-676-	Special 6:	Separation DC: 1Side	ENG*	[ 0 to 50 / 0 / 2mm ]
007	SWTimingLeadEdge			
2-676-	Special 6:	Separation DC: 2Side	ENG*	[ 0 to 50 / 0 / 2mm ]
008	SWTimingLeadEdge			
2-677-	Special 6:	Paper Transfer: 1Side	ENG*	[ 0 to 995 / 100 / 5% ]
003	TrailEdgeCorrection			
2-677-	Special 6:	Paper Transfer: 2Side	ENG*	[ 0 to 995 / 100 / 5% ]
004	TrailEdgeCorrection			
2-677-	Special 6:	Separation DC: 1Side	ENG*	[ 0 to 995 / 100 / 5% ]
007	TrailEdgeCorrection			
2-677-	Special 6:	Separation DC: 2Side	ENG*	[ 0 to 995 / 100 / 5% ]
008	TrailEdgeCorrection			
2-678-	Special 6:	Paper Transfer: 1Side	ENG*	[ 0 to 50 / 0 / 2mm ]
003	SWTimingTrailEdge			
2-678-	Special 6:	Paper Transfer: 2Side	ENG*	[ 0 to 50 / 0 / 2mm ]
004	SWTimingTrailEdge			
2-678-	Special 6:	Separation DC: 1Side	ENG*	[ 0 to 50 / 0 / 2mm ]
007	SWTimingTrailEdge			
2-678-	Special 6:	Separation DC: 2Side	ENG*	[ 0 to 50 / 0 / 2mm ]
008	SWTimingTrailEdge			
2-679-	Special 6: EnvCorrectionTable	Separation DC: 1Side	ENG*	[ 1 to 100 / 30 / 1 ]
015				
2-679-	Special 6: EnvCorrectionTable	Separation DC: 2Side	ENG*	[ 1 to 100 / 30 / 1 ]
016				
2-679-	Special 6: Edge Envir Correc.	Separation DC: 1Side	ENG*	[ 1 to 100 / 30 / 1 ]
019				
2-679-	Special 6: Edge Envir Correc.	Separation DC: 2Side	ENG*	[ 1 to 100 / 30 / 1 ]
020				
2-690-	ITB Contact Setting	Thick 1	ENG*	[ 0 or 1 / 0 / 1 ]
001				
2-690-	ITB Contact Setting	Thick 2	ENG*	[ 0 or 1 / 0 / 1 ]
002				
2-690-	ITB Contact Setting	Thick 3	ENG*	[ 0 or 1 / 0 / 1 ]

003				
2-690-	ITB Contact Setting	Special 4	ENG*	[ 0 or 1 / 0 / 1 ]
014				
2-690-	ITB Contact Setting	Special 5	ENG*	[ 0 or 1 / 0 / 1 ]
015				
2-690-	ITB Contact Setting	Special 6	ENG*	[ 0 or 1 / 0 / 1 ]
016				
2-900-	Job End: Drum Idling Time	Standard Speed	ENG*	[ 0 to 30 / 0 / 1s ]
001				
2-900-	Job End: Drum Idling Time	Middle Speed	ENG*	[ 0 to 30 / 0 / 1s ]
002				
2-900-	Job End: Drum Idling Time	Low Speed	ENG*	[ 0 to 30 / 0 / 1s ]
003				
2-901-	Fus.	Coverage: 0-6%	ENG*	[-60 to 300 / 0 / 1sec]
001	Reload:DrumIdleTimeOffset			
2-901-	Fus.	Coverage: 6-10%	ENG*	[ -60 to 300 / -11 /
002	Reload:DrumIdleTimeOffset			1sec ]
2-901-	Fus.	Coverage: 10-20%	ENG*	[ -60 to 300 / -26 /
003	Reload:DrumIdleTimeOffset			1sec ]
2-901-	Fus.	Coverage: 20-40%	ENG*	[ -60 to 300 / -21 /
004	Reload:DrumIdleTimeOffset			1sec ]
2-901-	Fus.	Coverage: 40% over	ENG*	[ -60 to 300 / -21 /
005	Reload:DrumIdleTimeOffset			1sec ]
2-905-	Dev Rvs Time	Bk	ENG*	[ 0 to 200 / 80 /
003				10msec ]
2-905-	Dev Rvs Time	Color	ENG*	[ 0 to 200 / 80 /
004				10msec ]
2-905-	Dev Rvs Threshold	ALL	ENG*	[ 0 to 400000 / 18430 /
005				10mm ]
2-905-	Dev Rvs Counter	Bk	ENG*	[ 0 to 999999999 / 0 /
006				1mm ]
2-905-	Dev Rvs Counter	Color	ENG*	[ 0 to 999999999 / 0 /
007				1mm ]
2-905-	Dev pre-drive : ON/OFF	ON/OFF	ENG*	[ 0 or 1 / 0 / 1 ]
010				0: OFF
				1: ON
2-907-	ACS Setting (FC)	Continuous Bk Pages	ENG*	[ 0 to 10 / 0 / 1 sheet ]
001				

2.015	G : G : DI ODGD	G. 1 1G 11	EDIO#	F.O. 1 / O. / 10TED 1
2-915-	Gain Set: Bk OPC Drum	Standard Speed1	ENG*	[ 0 or 1 / 0 / 1STEP]
001	G : G + DI ODG D	T C 1	ENICA	F.O. 1 / 1 / 1 CTEID 1
2-915-	Gain Set: Bk OPC Drum	Low Speed	ENG*	[ 0 or 1 / 1 / 1STEP ]
002	a i a i bi obab	a. 1 1a 1a	TD LC 4	F.O. 1 / O. / 1 GEED 1
2-915-	Gain Set: Bk OPC Drum	Standard Speed2	ENG*	[ 0 or 1 / 0 / 1STEP ]
003				
2-915-	Gain Set: Bk OPC Drum	Middle Speed	ENG*	[ 0 or 1 / 0 / 1STEP ]
004				
2-916-	Gain Set: Color OPC Drum	Standard Speed1	ENG*	[ 0 or 1 / 0 / 1STEP ]
001				
2-916-	Gain Set: Color OPC Drum	Low Speed	ENG*	[ 0 or 1 / 1 / 1STEP ]
002				
2-916-	Gain Set: Color OPC Drum	Middle Speed	ENG*	[ 0 or 1 / 0 / 1STEP ]
003				
2-930-	Paper Transfer: Bias Limiter	Bias	ENG*	[ 0 to 7000 / 6000 /
001				10V]
2-960-	Process Down Interval	Additional Time	ENG*	[ 0 to 10 / 0 / 1sec ]
001				
2-990-	Print Duty Control	Duty Control Status	ENG*	[ 0 or 1 / 0 / 1 ]
001				
2-990-	Print Duty Control	Exec Interval: Duty Control	ENG*	[ 30 to 3600 / 30 /
002				1sec ]
2-990-	Print Duty Control	Forced Process Down Thresh:	ENG*	[ 0 to 5000 / 0 /
004		No Duty Control		lpage ]
2-990-	Print Duty Control	Down-time BW: No Duty	ENG*	[ 0 to 120 / 0 / 1sec ]
005		Control		
2-990-	Print Duty Control	Down-time FC: No Duty	ENG*	[ 0 to 120 / 0 / 1sec ]
006		Control		
2-990-	Print Duty Control	Forced Process Down Thresh:	ENG*	[ 0 to 5000 / 3 /
007		Duty Control		lpage]
2-990-	Print Duty Control	Down-time BW: Duty Control	ENG*	[ 0 to 120 / 0 / 1sec ]
008				
2-990-	Print Duty Control	Down-time FC: Duty Control	ENG*	[ 0 to 120 / 64 / 1sec ]
009		.,,		
2-990-	Print Duty Control	Correction Coefficient	ENG*	[-1 to 1 / -0.5 / 0.1]
010				
2-990-	Print Duty Control	Execution Temperature	ENG*	[ 20 to 70 / 42 /
011				0.1deg ]
V11				J

## 3.SP Mode Tables

2-990-	Print Duty Control	Cancellation Temp. Threshold	ENG*	[ 0 to 20 / 1 / 0.1deg ]
012				
2-990-	Print Duty Control	ON/OFF Setting	ENG*	[ 0 or 1 / 1 / 1 ]
013				
2-990-	Print Duty Control	Duty Control: Down-	ENG*	[ 0 to 120 / 0 / 1sec ]
014		time_BW		
2-990-	Print Duty Control	Duty Control: Down-time_FC	ENG*	[ 0 to 120 / 0 / 1sec ]
015				
2-990-	Print Duty Control	Execution Temp. Upper	ENG*	[ 0 to 99 / 42 /
016		Threshold		0.1deg ]
2-990-	Print Duty Control	Execution Temp. Lower	ENG*	[ 0 to 99 / 38 /
017		Threshold		0.1deg ]

## **SP Tables - SP3-XXX**

## SP3-XXX (Process)

SP	Large Category	Small Category	ENG or	[Min to Max/Init./Step]
No.			CTL	
3-011-	Manual ProCon :Exe	Normal ProCon	ENG	[ 0 or 1 / 0 / 1 ]
001				
3-011-	Manual ProCon :Exe	Toner Density Adjustment	ENG	[ 0 or 1 / 0 / 1 ]
002				
3-011-	Manual ProCon :Exe	ACC RunTime ProCon	ENG	[ 0 or 1 / 0 / 1 ]
003				
3-011-	Manual ProCon :Exe	Full MUSIC	ENG	[ 0 or 1 / 0 / 1 ]
004				
3-011-	Manual ProCon :Exe	Normal MUSIC	ENG	[ 0 or 1 / 0 / 1 ]
005				
3-011-	Manual ProCon :Exe	Normal ProCon BW	ENG	[ 0 or 1 / 0 / 1 ]
011				
3-012-	ProCon Execute Result:	History: Last	ENG*	[ 0 to 99999999 / 0 / 1 ]
001	Display			
3-012-	ProCon Execute Result:	History: Last 2	ENG*	[ 0 to 99999999 / 0 / 1 ]
002	Display			
3-012-	ProCon Execute Result:	History: Last 3	ENG*	[ 0 to 99999999 / 0 / 1 ]
003	Display			
3-012-	ProCon Execute Result:	History: Last 4	ENG*	[ 0 to 99999999 / 0 / 1 ]
004	Display			
3-012-	ProCon Execute Result:	History: Last 5	ENG*	[ 0 to 99999999 / 0 / 1 ]
005	Display			
3-012-	ProCon Execute Result:	History: Last 6	ENG*	[ 0 to 99999999 / 0 / 1 ]
006	Display			
3-012-	ProCon Execute Result:	History: Last 7	ENG*	[ 0 to 99999999 / 0 / 1 ]
007	Display			
3-012-	ProCon Execute Result:	History: Last 8	ENG*	[ 0 to 99999999 / 0 / 1 ]
008	Display			
3-012-	ProCon Execute Result:	History: Last 9	ENG*	[ 0 to 99999999 / 0 / 1 ]
009	Display			
3-012-	ProCon Execute Result:	History: Last 10	ENG*	[ 0 to 99999999 / 0 / 1 ]
010	Display			
3-030-	TD Sensor Initial Set:	Execute: ALL	ENG	[ 0 or 1 / 0 / 1 ]

001	Execute			
3-030-	TD Sensor Initial Set:	Execute: Color	ENG	[ 0 or 1 / 0 / 1 ]
002	Execute			
3-030-	TD Sensor Initial Set:	Execute: Bk	ENG	[ 0 or 1 / 0 / 1 ]
003	Execute			
3-030-	TD Sensor Initial Set:	Execute: C	ENG	[ 0 or 1 / 0 / 1 ]
004	Execute			
3-030-	TD Sensor Initial Set:	Execute: M	ENG	[ 0 or 1 / 0 / 1 ]
005	Execute			
3-030-	TD Sensor Initial Set:	Execute: Y	ENG	[ 0 or 1 / 0 / 1 ]
006	Execute			
3-031-	TD Sen. Ini. Set: Result:	From Left:Y,M,C,Bk	ENG*	[ 0 to 9999 / 0 / 1 ]
001	Disp			
3-050-	Forced Toner Supply: Exe	Execute: ALL	ENG	[ 0 or 1 / 0 / 1 ]
001				
3-050-	Forced Toner Supply: Exe	Execute: Color	ENG	[ 0 or 1 / 0 / 1 ]
002				
3-050-	Forced Toner Supply: Exe	Execute: Bk	ENG	[ 0 or 1 / 0 / 1 ]
003				
3-050-	Forced Toner Supply: Exe	Execute: C	ENG	[ 0 or 1 / 0 / 1 ]
004				
3-050-	Forced Toner Supply: Exe	Execute: M	ENG	[ 0 or 1 / 0 / 1 ]
005		E / W	ENIC	FO 1/0/13
3-050-	Forced Toner Supply: Exe	Execute: Y	ENG	[ 0 or 1 / 0 / 1 ]
3-050-	Formed Tomor Sympley Eve	Supply Quantity: Bk	ENG*	[ 0 to 5 / 0.5 / 0.1wt% ]
021	Forced Toner Supply: Exe	Supply Quality. Bk	EIIG.	[ 0 to 3 / 0.3 / 0.1 wt % ]
3-050-	Forced Toner Supply: Exe	Supply Quantity: C	ENG*	[ 0 to 5 / 0.5 / 0.1wt% ]
022	Toroca Torior Suppry. LAC	Suppry Quantity. C	LING	[ 0 00 5 / 0.5 / 0.1 wt/0 ]
3-050-	Forced Toner Supply: Exe	Supply Quantity: M	ENG*	[ 0 to 5 / 0.5 / 0.1wt% ]
023	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			[
3-050-	Forced Toner Supply: Exe	Supply Quantity: Y	ENG*	[ 0 to 5 / 0.5 / 0.1wt% ]
024				
3-050-	Forced Toner Supply: Exe	Repeat Count	ENG*	[ 0 to 255 / 8 / 1times ]
033				
3-072-	TD Sensor Check	Exe All Colors	ENG	[ 0 or 1 / 0 / 1 ]
001				
3-073-	TD Sensor Check: Display	mu Count:Bk	ENG*	[ 0 to 65535 / 0 / 1 ]

001				
	TD C Cl - 1 D' 1	and Count C	EMC*	[ 0 to (5525 / 0 / 1 ]
3-073-	TD Sensor Check: Display	mu Count:C	ENG*	[ 0 to 65535 / 0 / 1 ]
002	TD Congor Chaole Displace	mu Count:M	ENC*	[ 0 to 65525 / 0 / 1 ]
3-073- 003	TD Sensor Check: Display	mu Count:M	ENG*	[ 0 to 65535 / 0 / 1 ]
	TD Congor Charles Dissels	mu Count V	ENG*	[ 0 to 65525 / 0 / 1 ]
3-073- 004	TD Sensor Check: Display	mu Count:Y	ENG*	[ 0 to 65535 / 0 / 1 ]
3-074-	ID Sensor Check: Exe	All Sensors	ENG	[ 0 or 1 / 0 / 1 ]
001	1D Selisof Check. Exe	All Selisois	ENG	
3-075-	ID Sensor Check: Display	Vsg reg(front)	ENG*	[ 0 to 5.5 / 0 / 0.01V ]
001	110 Schsol Check, Display	v sg reg(nont)	ENG	[ 0 10 3.3 / 0 / 0.01 v ]
3-075-	ID Sensor Check: Display	Vsg reg(center)	ENG*	[ 0 to 5.5 / 0 / 0.01V ]
002	12 Sonsoi Check. Display	, 55 105(0011101)	LING	[ 0 100 3.37 07 0.01 7 ]
3-075-	ID Sensor Check: Display	Vsg reg(rear)	ENG*	[ 0 to 5.5 / 0 / 0.01V ]
003	sensor enven. Display	. 20 100(1001)		
3-075-	ID Sensor Check: Display	Voffset(front)	ENG*	[ 0 to 5.5 / 0 / 0.01V ]
011	-ry			
3-075-	ID Sensor Check: Display	Voffset(center)	ENG*	[ 0 to 5.5 / 0 / 0.01V ]
012	1 3	, ,		-
3-075-	ID Sensor Check: Display	Voffset(rear)	ENG*	[ 0 to 5.5 / 0 / 0.01V ]
013				
3-100-	Toner End Detection: Set	ON/OFF	ENG*	[ 0 or 1 / 0 / 1 ]
001				0: Detect
				1: Not Detect
3-100-	Toner End Detection: Set	NE Detection Select	ENG*	[ 0 or 1 / 0 / 1 ]
002				0: ALL
				1: TE Sensor
3-101-	Toner Status: Display	Bk	ENG*	[ 0 to 2 / 2 / 1 ]
001				
3-101-	Toner Status: Display	С	ENG*	[ 0 to 2 / 2 / 1 ]
002				
3-101-	Toner Status: Display	M	ENG*	[ 0 to 2 / 2 / 1 ]
003				
3-101-	Toner Status: Display	Y	ENG*	[ 0 to 2 / 2 / 1 ]
004				
3-102-	Toner Remaining: Display	Toner Supply Motor Drive	ENG*	[ 0 to 500 / 0 / 0.001g ]
001		Time: Bk		
3-102-	Toner Remaining: Display	Toner Supply Motor Drive	ENG*	[ 0 to 500 / 0 / 0.001g ]

002		Time: C		
3-102-	Toner Remaining: Display	Toner Supply Motor Drive	ENG*	[ 0 to 500 / 0 / 0.001g ]
003		Time: M		
3-102-	Toner Remaining: Display	Toner Supply Motor Drive	ENG*	[ 0 to 500 / 0 / 0.001g ]
004		Time: Y		
3-102-	Toner Remaining: Display	Pixel: Bk	ENG*	[ 0 to 500 / 0 / 0.001g ]
011				
3-102-	Toner Remaining: Display	Pixel: C	ENG*	[ 0 to 500 / 0 / 0.001g ]
012				
3-102-	Toner Remaining: Display	Pixel: M	ENG*	[ 0 to 500 / 0 / 0.001g ]
013				
3-102-	Toner Remaining: Display	Pixel: Y	ENG*	[ 0 to 500 / 0 / 0.001g ]
014				
3-102-	Toner Remaining: Display	Replenishment Amount:	ENG*	[ 0 to 500 / 0 / 1g ]
021		Bk		
3-102-	Toner Remaining: Display	Replenishment Amount: C	ENG*	[ 0 to 500 / 0 / 1g ]
022				
3-102-	Toner Remaining: Display	Replenishment Amount:	ENG*	[ 0 to 500 / 0 / 1g ]
023		M		
3-102-	Toner Remaining: Display	Replenishment Amount: Y	ENG*	[ 0 to 500 / 0 / 1g ]
024				
3-110-	NE Detect: Toner Remain	Bk	ENG*	[ 0 to 500 / 23 / 1g ]
001	Thresh			
3-110-	NE Detect: Toner Remain	С	ENG*	[ 0 to 500 / 10 / 1g ]
002	Thresh			
3-110-	NE Detect: Toner Remain	M	ENG*	[ 0 to 500 / 10 / 1g ]
003	Thresh			
3-110-	NE Detect: Toner Remain	Y	ENG*	[ 0 to 500 / 10 / 1g ]
004	Thresh			
3-121-	TE Counter: Display	Bk	ENG*	[ 0 to 99 / 0 / 1 time ]
001				
3-121-	TE Counter: Display	С	ENG*	[ 0 to 99 / 0 / 1 time ]
002				
3-121-	TE Counter: Display	M	ENG*	[ 0 to 99 / 0 / 1 time ]
003				
3-121-	TE Counter: Display	Y	ENG*	[ 0 to 99 / 0 / 1 time ]
004				
3-123-	Toner End Sen Status:	Latest Output: Bk	ENG	[ 0 or 1 / 0 / 1 ]

021	Display			
3-123-	Toner End Sen Status:	Latest Output: C	ENG	[ 0 or 1 / 0 / 1 ]
022	Display			
3-123-	Toner End Sen Status:	Latest Output: M	ENG	[ 0 or 1 / 0 / 1 ]
023	Display			
3-123-	Toner End Sen Status:	Latest Output: Y	ENG	[ 0 or 1 / 0 / 1 ]
024	Display			
3-131-	Vt TE Thresh	Delta Vt Thresh	ENG*	[ 0 to 5 / 0.5 / 0.01V ]
001				
3-131-	Vt TE Thresh	Delta Vt Sum Thresh	ENG*	[ 0 to 99 / 10 / 1V ]
002				
3-131-	Vt TE Thresh	Delta Vt Thresh Before	ENG*	[ 0 to 5 / 0.5 / 0.01V ]
011		NE		
3-131-	Vt TE Thresh	Delta Vt Sum Thresh	ENG*	[ 0 to 99 / 10 / 1V ]
012		Before NE		
3-131-	Vt TE Thresh	High TC Delta Vt Thresh	ENG*	[ 0 to 5 / 0.3 / 0.01V ]
021				
3-131-	Vt TE Thresh	High TC Delta Vt Sum	ENG*	[ 0 to 99 / 3 / 1V ]
022		Thresh		
3-131-	Vt TE Thresh	High TC Delta Vt Thresh	ENG*	[ 0 to 5 / 0.7 / 0.01V ]
023		Before NE		
3-131-	Vt TE Thresh	High TC Delta Vt Sum	ENG*	[ 0 to 99 / 10 / 1V ]
024		Thresh Before NE		
3-131-	Vt TE Thresh	Low TC Delta Vt Thresh	ENG*	[ 0 to 5 / 0.3 / 0.01V ]
031				
3-131-	Vt TE Thresh	Low TC Delta Vt Sum	ENG*	[ 0 to 99 / 3 / 1V ]
032		Thresh		
3-131-	Vt TE Thresh	Low TC Delta Vt Thresh	ENG*	[ 0 to 5 / 0.7 / 0.01V ]
033		Before NE		
3-131-	Vt TE Thresh	Low TC Delta Vt Sum	ENG*	[ 0 to 99 / 10 / 1V ]
034		Thresh Before NE		
3-131-	Vt TE Thresh	TC Thresh	ENG*	[ 0 to 25.5 / 4 / 0.1wt% ]
041				
3-132-	Delta Vt Sum: Display	Bk	ENG*	[ 0 to 99 / 0 / 0.01V ]
001				
3-132-	Delta Vt Sum: Display	С	ENG*	[ 0 to 99 / 0 / 0.01V ]
002				
3-132-	Delta Vt Sum: Display	M	ENG*	[ 0 to 99 / 0 / 0.01V ]

003				
3-132-	Delta Vt Sum: Display	Y	ENG*	[ 0 to 99 / 0 / 0.01V ]
004				
3-200-	Toner Density: Display	Bk	ENG*	[ 0 to 25.5 / 0 / 0.1wt% ]
001				
3-200-	Toner Density: Display	С	ENG*	[ 0 to 25.5 / 0 / 0.1wt% ]
002				
3-200-	Toner Density: Display	M	ENG*	[ 0 to 25.5 / 0 / 0.1wt% ]
003				
3-200-	Toner Density: Display	Y	ENG*	[ 0 to 25.5 / 0 / 0.1wt% ]
004				
3-201-	Toner Density Limits: Set	Upper TC	ENG*	[ 1 to 15 / 8.5 / 0.1wt% ]
001				
3-201-	Toner Density Limits: Set	Lower TC	ENG*	[ 1 to 15 / 1 / 0.1wt% ]
002				
3-206-	TD Sensor Bulk Corr.: Set	Abs. Humidity Cnver.	ENG*	[ 0 to 6.5535 / 0.4945 /
001		Coef.: Bk		0.0001g/cm3/g/m3 ]
3-206-	TD Sensor Bulk Corr.: Set	Abs. Humidity Cnver.	ENG*	[ 0 to 6.5535 / 0.4945 /
002		Coef.: C		0.0001g/cm3/g/m3 ]
3-206-	TD Sensor Bulk Corr.: Set	Abs. Humidity Cnver.	ENG*	[ 0 to 6.5535 / 0.4945 /
003		Coef.: M		0.0001g/cm3/g/m3 ]
3-206-	TD Sensor Bulk Corr.: Set	Abs. Humidity Cnver.	ENG*	[ 0 to 6.5535 / 0.4945 /
004		Coef.: Y		0.0001g/cm3/g/m3 ]
3-206-	TD Sensor Bulk Corr.: Set	Color Conversion Coef.:	ENG*	[ 0 to 200 / 100 / 1% ]
011		Bk		
3-206-	TD Sensor Bulk Corr.: Set	Color Conversion Coef.: C	ENG*	[ 0 to 200 / 100 / 1% ]
012				
3-206-	TD Sensor Bulk Corr.: Set	Color Conversion Coef.:	ENG*	[ 0 to 200 / 100 / 1% ]
013		M		
3-206-	TD Sensor Bulk Corr.: Set	Color Conversion Coef.: Y	ENG*	[ 0 to 200 / 100 / 1% ]
014				
3-206-	TD Sensor Bulk Corr.: Set	Weight Coefficient	ENG*	[ 0 to 200 / 100 / 1% ]
021				
3-206-	TD Sensor Bulk Corr.: Set	Offset: Bk	ENG*	[ -2 to 2 / 0 / 0.0001g/cm3 ]
031				
3-206-	TD Sensor Bulk Corr.: Set	Offset: C	ENG*	[ -2 to 2 / 0 / 0.0001g/cm3 ]
032				
3-206-	TD Sensor Bulk Corr.: Set	Offset: M	ENG*	[ -2 to 2 / 0 / 0.0001g/cm3 ]

033				
3-206-	TD Sensor Bulk Corr.: Set	Offset: Y	ENG*	[ -2 to 2 / 0 / 0.0001g/cm3 ]
034				
3-206-	TD Sensor Bulk Corr.: Set	Conversion Coeff. Beta:	ENG*	[-999 to 0 / -1 /
041		Bk		0.1count/g/cm3]
3-206-	TD Sensor Bulk Corr.: Set	Conversion Coeff. Beta: C	ENG*	[ -999 to 0 / -1 /
042				0.1count/g/cm3 ]
3-206-	TD Sensor Bulk Corr.: Set	Conversion Coeff. Beta:	ENG*	[ -999 to 0 / -1 /
043		M		0.1count/g/cm3]
3-206-	TD Sensor Bulk Corr.: Set	Conversion Coeff. Beta: Y	ENG*	[ -999 to 0 / -1 /
044				0.1count/g/cm3]
3-210-	TD Sensor: Vt: Display	Current: Bk	ENG*	[ 0 to 5.5 / 0 / 0.01V ]
001				
3-210-	TD Sensor: Vt: Display	Current: C	ENG*	[ 0 to 5.5 / 0 / 0.01V ]
002				
3-210-	TD Sensor: Vt: Display	Current: M	ENG*	[ 0 to 5.5 / 0 / 0.01V ]
003				
3-210-	TD Sensor: Vt: Display	Current: Y	ENG*	[ 0 to 5.5 / 0 / 0.01V ]
004				
3-212-	Vt Shift: Set	TC Cor.(ON/OFF)	ENG*	[ 0 or 1 / 1 / 1 ]
101				0: OFF
				1: ON
3-213-	Vt Shift: Set	TC Cor.(ON/OFF)	ENG*	[ 0 or 1 / 1 / 1 ]
001				0: OFF
				1: ON
3-213-	Vt Shift: Set	Low Speed TC	ENG*	[ -0.5 to 0.5 / 0 / 0.01V ]
021		Correction: Bk		
3-213-	Vt Shift: Set	Low Speed TC	ENG*	[ -0.5 to 0.5 / 0 / 0.01V ]
022		Correction: C		
3-213-	Vt Shift: Set	Low Speed TC	ENG*	[ -0.5 to 0.5 / 0 / 0.01V ]
023		Correction: M		
3-213-	Vt Shift: Set	Low Speed: TC	ENG*	[ -0.5 to 0.5 / 0 / 0.01V ]
024		Correction: Y		
3-213-	Vt Shift: Set	Std Speed 2 TC	ENG*	[ -0.5 to 0.5 / 0 / 0.01V ]
031		Correction: Bk		
3-214-	Vt Save: Set	Dot Coverage Thresh	ENG*	[ 0 to 100 / 20 / 1% ]
001				
3-230-	Vtref: Display/Set	Current: Bk	ENG*	[ 0 to 5 / 1.5 / 0.01V ]

001				
3-230-	Vtref: Display/Set	Current: C	ENG*	[ 0 to 5 / 1.5 / 0.01V ]
002	1 3			
3-230-	Vtref: Display/Set	Current: M	ENG*	[ 0 to 5 / 1.5 / 0.01V ]
003				
3-230-	Vtref: Display/Set	Current: Y	ENG*	[ 0 to 5 / 1.5 / 0.01V ]
004				
3-232-	Vtref Correct: Pixel: Set	ON/OFF	ENG*	[ 0 or 1 / 1 / 1 ]
001				0: OFF
				1: ON
3-232-	Vtref Correct: Pixel: Set	Low Coverage	ENG*	[ 0 to 5 / 0.3 / 0.1 ]
011		Coefficient: Bk		
3-232-	Vtref Correct: Pixel: Set	Low Coverage	ENG*	[ 0 to 5 / 0.3 / 0.1 ]
012		Coefficient: C		
3-232-	Vtref Correct: Pixel: Set	Low Coverage	ENG*	[ 0 to 5 / 0.3 / 0.1 ]
013		Coefficient: M		
3-232-	Vtref Correct: Pixel: Set	Low Coverage	ENG*	[ 0 to 5 / 0.3 / 0.1 ]
014		Coefficient: Y		
3-232-	Vtref Correct: Pixel: Set	High Coverage	ENG*	[ 0 to 5 / 0.4 / 0.1 ]
021		Coefficient: Bk		
3-232-	Vtref Correct: Pixel: Set	High Coverage	ENG*	[ 0 to 5 / 0.4 / 0.1 ]
022		Coefficient: C		
3-232-	Vtref Correct: Pixel: Set	High Coverage	ENG*	[ 0 to 5 / 0.4 / 0.1 ]
023		Coefficient: M		
3-232-	Vtref Correct: Pixel: Set	High Coverage	ENG*	[ 0 to 5 / 0.4 / 0.1 ]
024		Coefficient: Y		
3-232-	Vtref Correct: Pixel: Set	Initial ProCon Interval	ENG*	[ 0 to 255 / 6 / 1time ]
040				
3-232-	Vtref Correct: Pixel: Set	High Coverage Thresh	ENG*	[ 0 to 100 / 60 / 1% ]
041				
3-232-	Vtref Correct: Pixel: Set	ProCon Interval	ENG*	[ 0 to 255 / 14 / 1time ]
050				
3-232-	Vtref Correct: Pixel: Set	Low Coverage Thresh	ENG*	[ 0 to 20 / 3 / 0.1% ]
060				
3-232-	Vtref Correct: Pixel: Set	TC Upper Limit	ENG*	[ 0 to 5 / 0.5 / 0.1wt% ]
070		Correction		
3-232-	Vtref Correct: Pixel: Set	TC Upper Limit: Display:	ENG*	[ 1 to 15 / 8.5 / 0.1wt% ]
071		Bk		

3-232-	Vtref Correct: Pixel: Set	TC Upper Limit: Display:	ENG*	[ 1 to 15 / 8.5 / 0.1wt% ]
072	viigi Comeet, fixel, set	C Opper Limit. Display.	EING,	[ 1 to 13 / 0.3 / 0.1 Wt70 ]
	Vtref Correct: Pixel: Set	TC Upper Limit: Display:	ENG*	[ 1 to 15 / 8.5 / 0.1wt% ]
073	viiei Collect. Fixel. Set	M	ENG	[1 to 13 / 8.5 / 0.1 wt / 6]
	Vtref Correct: Pixel: Set	TC Upper Limit: Display:	ENG*	[ 1 to 15 / 8.5 / 0.1wt% ]
074	viici Collect. I ixel. Set	Y	ENG	[1 to 13 / 8.5 / 0.1 wt / 0 ]
	Vtref Correction.: Set	ON/OFF	ENG*	[ 0 or 1 / 1 / 1 ]
001	viici correction Set	ON/OFF	ENG	0: OFF
001				1: ON
3-234-	Vtref Correction.: Set	Correction Amount (+):	ENG*	[ 0 to 1 / 0.05 / 0.01V ]
011	viter correction Set	Bk	LING	[0 to 17 0.037 0.01 v]
	Vtref Correction.: Set	Correction Amount (+): C	ENG*	[ 0 to 1 / 0.05 / 0.01V ]
012	viter correction Set	Correction 7 timount (+).	LING	[ 0 10 17 0.057 0.01 7 ]
	Vtref Correction.: Set	Correction Amount (+): M	ENG*	[ 0 to 1 / 0.05 / 0.01V ]
013	. III Collowioli Det		2.10	[ 5 55 1 7 5.00 7 5.01 7 ]
	Vtref Correction.: Set	Correction Amount (+): Y	ENG*	[ 0 to 1 / 0.05 / 0.01V ]
014				
	Vtref Correction.: Set	Correction Amount (-): Bk	ENG*	[ 0 to 1 / 0.05 / 0.01V ]
021		()		
3-234-	Vtref Correction.: Set	Correction Amount (-): C	ENG*	[ 0 to 1 / 0.05 / 0.01V ]
022				
3-234-	Vtref Correction.: Set	Correction Amount (-): M	ENG*	[ 0 to 1 / 0.05 / 0.01V ]
023				
3-234-	Vtref Correction.: Set	Correction Amount (-): Y	ENG*	[ 0 to 1 / 0.05 / 0.01V ]
024				
3-234-	Vtref Correction.: Set	P Rank 1 Threshold	ENG*	[ 0 to 2 / 0.15 / 0.01 ]
031				
3-234-	Vtref Correction.: Set	P Rank 2 Threshold	ENG*	[ 0 to 2 / 0.05 / 0.01 ]
032				
3-234-	Vtref Correction.: Set	P Rank 3 Threshold	ENG*	[ -2 to 0 / -0.05 / 0.01 ]
033				
3-234-	Vtref Correction.: Set	P Rank 4 Threshold	ENG*	[ -2 to 0 / -0.15 / 0.01 ]
034				
3-234-	Vtref Correction.: Set	T Rank 1 Threshold	ENG*	[-1 to 0 / -0.2 / 0.01V]
041				
3-234-	Vtref Correction.: Set	T Rank 2 Threshold	ENG*	[ 0 to 1 / 0.2 / 0.01V ]
042			1	

050				
3-250-	Image Area: Display	Latest: Bk	ENG*	[ 0 to 9999 / 0 / 1cm2 ]
001				
3-250-	Image Area: Display	Latest: C	ENG*	[ 0 to 9999 / 0 / 1cm2 ]
002				
3-250-	Image Area: Display	Latest: M	ENG*	[ 0 to 9999 / 0 / 1cm2 ]
003				
3-250-	Image Area: Display	Latest: Y	ENG*	[ 0 to 9999 / 0 / 1cm2 ]
004				
3-251-	Dot Coverage: Display	Latest: Bk	ENG*	[ 0 to 100 / 0 / 0.01% ]
001				
3-251-	Dot Coverage: Display	Latest: C	ENG*	[ 0 to 100 / 0 / 0.01% ]
002				
3-251-	Dot Coverage: Display	Latest: M	ENG*	[ 0 to 100 / 0 / 0.01% ]
003				
3-251-	Dot Coverage: Display	Latest: Y	ENG*	[ 0 to 100 / 0 / 0.01% ]
004				
3-251-	Dot Coverage: Display	Accumulate: Average: S:	ENG*	[ 0 to 100 / 5 / 0.01% ]
011		Bk		
3-251-	Dot Coverage: Display	Accumulate: Average: S:	ENG*	[ 0 to 100 / 5 / 0.01% ]
012		С		
3-251-	Dot Coverage: Display	Accumulate: Average: S:	ENG*	[ 0 to 100 / 5 / 0.01% ]
013		M		
3-251-	Dot Coverage: Display	Accumulate: Average: S:	ENG*	[ 0 to 100 / 5 / 0.01% ]
014		Y		
3-251-	Dot Coverage: Display	Accumulate: Average: M:	ENG*	[ 0 to 100 / 5 / 0.01% ]
021		Bk		
3-251-	Dot Coverage: Display	Accumulate: Average: M:	ENG*	[ 0 to 100 / 5 / 0.01% ]
022		С		
3-251-	Dot Coverage: Display	Accumulate: Average: M:	ENG*	[ 0 to 100 / 5 / 0.01% ]
023		M		
3-251-	Dot Coverage: Display	Accumulate: Average: M:	ENG*	[ 0 to 100 / 5 / 0.01% ]
024		Y		
3-251-	Dot Coverage: Display	Accumulate: Average: L:	ENG*	[ 0 to 100 / 5 / 0.01% ]
031		Bk		
3-251-	Dot Coverage: Display	Accumulate: Average: L:	ENG*	[ 0 to 100 / 5 / 0.01% ]
032		С		
3-251-	Dot Coverage: Display	Accumulate: Average: L:	ENG*	[ 0 to 100 / 5 / 0.01% ]

033		M		
3-251-	Dot Coverage: Display	Accumulate: Average: L:	ENG*	[ 0 to 100 / 5 / 0.01% ]
034		Y		
3-251-	Dot Coverage: Display	Accumulate Page: Set: S	ENG*	[ 1 to 255 / 5 / 1sheet ]
041				
3-251-	Dot Coverage: Display	Accumulate Page: Set: M	ENG*	[ 1 to 500 / 10 / 1sheet ]
042				
3-251-	Dot Coverage: Display	Accumulate Page: Set: L	ENG*	[ 1 to 999 / 50 / 1sheet ]
043				
3-251-	Dot Coverage: Display	Accumulate Page: Set: S2	ENG*	[ 1 to 255 / 40 / 1sheet ]
051				
3-251-	Dot Coverage: Display	Accumulate Page: Set: M2	ENG*	[ 1 to 500 / 10 / 1sheet ]
052				
3-251-	Dot Coverage: Display	Accumulate Page: Set: L2	ENG*	[ 1 to 999 / 50 / 1sheet ]
053				
3-251-	Dot Coverage: Display	Accumulate: Average: Bk	ENG*	[ 0 to 100 / 0 / 0.01% ]
151				
3-251-	Dot Coverage: Display	Accumulate: Average: C	ENG*	[ 0 to 100 / 0 / 0.01% ]
152				
3-251-	Dot Coverage: Display	Accumulate: Average: M	ENG*	[ 0 to 100 / 0 / 0.01% ]
153	D (C D: 1	A 1. A 37	ENG*	F 0 + 100 / 0 / 0 010 / 3
3-251-	Dot Coverage: Display	Accumulate: Average: Y	ENG*	[ 0 to 100 / 0 / 0.01% ]
154 3-252-	A coumulate Image A rec	Latest: Bk	ENG*	[ 0 to 65525 / 0 / 1 cm 2 ]
001	Accumulate Image Area: Display	Latest. DK	ENG.	[ 0 to 65535 / 0 / 1cm2 ]
3-252-	Accumulate Image Area:	Latest: C	ENG*	[ 0 to 65535 / 0 / 1cm2 ]
002	Display	Latest. C	LING	[ 0 to 033337 07 161112 ]
3-252-	Accumulate Image Area:	Latest: M	ENG*	[ 0 to 65535 / 0 / 1cm2 ]
003	Display	Zateot. Iti	2.10	[ o to occoor or rem2 ]
3-252-	Accumulate Image Area:	Latest: Y	ENG*	[ 0 to 65535 / 0 / 1cm2 ]
004	Display			
3-252-	Accumulate Image Area:	Developer: Bk	ENG*	[ 0 to 4294967295 / 0 /
011	Display			1cm2 ]
3-252-	Accumulate Image Area:	Developer: C	ENG*	[ 0 to 4294967295 / 0 /
012	Display	-		1cm2 ]
3-252-	Accumulate Image Area:	Developer: M	ENG*	[ 0 to 4294967295 / 0 /
013	Display			1cm2 ]
3-252-	Accumulate Image Area:	Developer: Y	ENG*	[ 0 to 4294967295 / 0 /

014	Display			1cm2 ]
3-260-	Temperature/Humidity:	Temperature: Display	ENG	[ -5 to 45 / 0 / 0.1deg ]
001	Display			
3-260-	Temperature/Humidity:	Relative Humidity:	ENG	[ 0 to 100 / 0 / 0.1%RH ]
002	Display	Display		
3-260-	Temperature/Humidity:	Absolute Humidity:	ENG	[ 0 to 100 / 0 / 0.01g/m3 ]
003	Display	Display		
3-310-	ID.Sen. Detection: Voffset	Voffset reg	ENG*	[ 0 to 5.5 / 0 / 0.01V ]
001				
3-310-	ID.Sen. Detection: Voffset	Voffset dif	ENG*	[ 0 to 5.5 / 0 / 0.01V ]
011				
3-310-	ID.Sen. Detection: Voffset	Voffset TM (Front)	ENG*	[ 0 to 5.5 / 0 / 0.01V ]
021				
3-310-	ID.Sen. Detection: Voffset	Voffset TM (Center)	ENG*	[ 0 to 5.5 / 0 / 0.01V ]
022				
3-310-	ID.Sen. Detection: Voffset	Voffset TM (Rear)	ENG*	[ 0 to 5.5 / 0 / 0.01V ]
023				
3-311-	ID.Sen. Detection: Vmin	Vmin_K	ENG*	[ 0 to 5 / 0 / 0.001V ]
001				
3-312-	ID.Sen. Detection: Vct	Vct_reg	ENG*	[ 0 to 5 / 0 / 0.001V ]
001				
3-312-	ID.Sen. Detection: Vct	Vct_dif	ENG*	[ 0 to 5 / 0 / 0.001V ]
011				
3-320-	Vsg Adj.: Execute	ID/TM Sensor	ENG	[ 0 or 1 / 0 / 1 ]
001				
3-321-	Vsg Adj. Result: Vsg	Vsg reg	ENG*	[ 0 to 5.5 / 4 / 0.01V ]
001				
3-321-	Vsg Adj. Result: Vsg	Vsg dif	ENG*	[ 0 to 5.5 / 0 / 0.01V ]
011				
3-321-	Vsg Adj. Result: Vsg	Vsg reg (BW)	ENG*	[ 0 to 5.5 / 4 / 0.01V ]
021				
3-321-	Vsg Adj. Result: Vsg	Vsg dif (BW)	ENG*	[ 0 to 5.5 / 0 / 0.01V ]
031				
3-321-	Vsg Adj. Result: Vsg	Vsg TM (Front)	ENG*	[ 0 to 5.5 / 4 / 0.01V ]
041				
3-321-	Vsg Adj. Result: Vsg	Vsg TM (Center)	ENG*	[ 0 to 5.5 / 4 / 0.01V ]
042				
3-321-	Vsg Adj. Result: Vsg	Vsg TM (Rear)	ENG*	[ 0 to 5.5 / 4 / 0.01V ]

043				
3-322-	Vsg Adj. Result: Ifsg	Ifsg	ENG*	[ 0 to 50 / 27 / 0.001mA ]
001				
3-322-	Vsg Adj. Result: Ifsg	Ifsg (minimum)	ENG*	[ 0 to 50 / 27 / 0.001mA ]
011				
3-322-	Vsg Adj. Result: Ifsg	Ifsg: TM (Front)	ENG*	[ 0 to 50 / 27 / 0.001mA ]
021				
3-322-	Vsg Adj. Result: Ifsg	Ifsg: TM (Center)	ENG*	[ 0 to 50 / 27 / 0.001mA ]
022				
3-322-	Vsg Adj. Result: Ifsg	Ifsg: TM (Rear)	ENG*	[ 0 to 50 / 27 / 0.001mA ]
023				
3-323-	Vsg Adj. Result: Display	Latest	ENG*	[ 0 to 999 / 0 / 1 ]
001				
3-323-	Vsg Adj. Result: Display	Latest 1	ENG*	[ 0 to 999 / 0 / 1 ]
002	W 4 1 D 4 D 4	T 0	T. I.C.I.	50000/0/17
3-323-	Vsg Adj. Result: Display	Latest 2	ENG*	[ 0 to 999 / 0 / 1 ]
003	Mar All Dan Is Director	I 2	ENCY	F.O. (1, 000 / 0 / 1 ]
3-323- 004	Vsg Adj. Result: Display	Latest 3	ENG*	[ 0 to 999 / 0 / 1 ]
3-323-	Vsg Adj. Result: Display	Latest 4	ENG*	[ 0 to 999 / 0 / 1 ]
005	v sg Auj. Result. Display	Latest 4	LING	[0 10 999 / 0 / 1]
3-323-	Vsg Adj. Result: Display	Latest 5	ENG*	[ 0 to 999 / 0 / 1 ]
006	v og riag. Result. Display	Datest 5	Live	
3-323-	Vsg Adj. Result: Display	Latest 6	ENG*	[ 0 to 999 / 0 / 1 ]
007				
3-323-	Vsg Adj. Result: Display	Latest 7	ENG*	[ 0 to 999 / 0 / 1 ]
008				
3-323-	Vsg Adj. Result: Display	Latest 8	ENG*	[ 0 to 999 / 0 / 1 ]
009				
3-323-	Vsg Adj. Result: Display	Latest 9	ENG*	[ 0 to 999 / 0 / 1 ]
010				
3-330-	ID Sen. Sensitivity Coef.:	K2(Latest)	ENG*	[ 0 to 5 / 0.528 / 0.0001 ]
001	Set			
3-330-	ID Sen. Sensitivity Coef.:	K5(Latest)	ENG*	[ 0 to 10 / 2 / 0.0001 ]
011	Set			
3-331-	ID Sen. Sensitivity Coef.:	K2: Check	ENG*	[ 0 to 1 / 0.528 / 0.001 ]
021	Set			
3-331-	ID Sen. Sensitivity Coef.:	Diffuse Ratio Correction	ENG*	[ 0.75 to 1.35 / 1 / 0.01 ]

031	Set	Coef.		
3-331-	ID Sen. Sensitivity Coef.:	Vct_reg Check:Slope	ENG*	[ 0 to 1 / 0 / 0.0001V/mA ]
041	Set			
3-331-	ID Sen. Sensitivity Coef.:	Vct_reg Check:Xint	ENG*	[ 0 to 25.5 / 0 / 0.1mA ]
046	Set			
3-331-	ID Sen. Sensitivity Coef.:	Vct_dif Check:Slope	ENG*	[ 0 to 1 / 0 / 0.0001V/mA ]
051	Set			
3-331-	ID Sen. Sensitivity Coef.:	Vct_dif Check:Xint	ENG*	[ 0 to 25.5 / 0 / 0.1mA ]
056	Set			
3-400-	Toner Supply Type Select	Bk	ENG*	[ 0 to 4 / 4 / 1 ]
001				0: FIXED
				2: PID
				4: DANC
3-400-	Toner Supply Type Select	С	ENG*	[ 0 to 4 / 4 / 1 ]
002				0: FIXED
				2: PID
				4: DANC
3-400-	Toner Supply Type Select	M	ENG*	[ 0 to 4 / 4 / 1 ]
003				0: FIXED
				2: PID
				4: DANC
3-400-	Toner Supply Type Select	Y	ENG*	[ 0 to 4 / 4 / 1 ]
004				0: FIXED
				2: PID
				4: DANC
3-411-	Toner Supply Qty: Display	Bk	ENG	[ 0 to 40000 / 0 / 0.1mg ]
001				
3-411-	Toner Supply Qty: Display	С	ENG	[ 0 to 40000 / 0 / 0.1mg ]
002				
3-411-	Toner Supply Qty: Display	M	ENG	[ 0 to 40000 / 0 / 0.1mg ]
003				
3-411-	Toner Supply Qty: Display	Y	ENG	[ 0 to 40000 / 0 / 0.1mg ]
004				
3-420-	Developer Weight: Set	Developer Weight: Bk	ENG*	[ 50 to 2000 / 120 / 1g ]
001				
3-421-	Toner Supply Ability: Set	Bk	ENG*	[ 0.001 to 2 / 0.469 /
001				0.001g/sec ]
3-421-	Toner Supply Ability: Set	С	ENG*	[ 0.001 to 2 / 0.469 /

002				0.001g/sec ]
3-421-	Toner Supply Ability: Set	M	ENG*	[ 0.001 to 2 / 0.469 /
003				0.001g/sec ]
3-421-	Toner Supply Ability: Set	Y	ENG*	[ 0.001 to 2 / 0.469 /
004				0.001g/sec ]
3-421-	Toner Supply Ability: Set	Coefficient 1	ENG*	[ 0.5 to 2 / 1 / 0.01 ]
011				
3-421-	Toner Supply Ability: Set	Coefficient 2	ENG*	[ 0.5 to 2 / 1 / 0.01 ]
012				
3-421-	Toner Supply Ability: Set	Coefficient 3	ENG*	[ 0.5 to 2 / 1 / 0.01 ]
013				
3-421-	Toner Supply Ability: Set	Coefficient 4	ENG*	[ 0.5 to 2 / 1 / 0.01 ]
014				
3-421-	Toner Supply Ability: Set	Coefficient 5	ENG*	[ 0.5 to 2 / 1 / 0.01 ]
015				
3-421-	Toner Supply Ability: Set	Coefficient 6	ENG*	[ 0.5 to 2 / 1 / 0.01 ]
016				
3-421-	Toner Supply Ability: Set	Coefficient 7	ENG*	[ 0.5 to 2 / 1 / 0.01 ]
017				
3-421-	Toner Supply Ability: Set	Coefficient 8	ENG*	[ 0.5 to 2 / 1 / 0.01 ]
018				
3-421-	Toner Supply Ability: Set	Coefficient 9	ENG*	[ 0.5 to 2 / 1 / 0.01 ]
019				
3-421-	Toner Supply Ability: Set	Coefficient 10	ENG*	[ 0.5 to 2 / 1 / 0.01 ]
020				
3-421-	Toner Supply Ability: Set	Unit Time	ENG*	[ 0 to 60000 / 3000 / 1msec ]
021				
3-421-	Toner Supply Ability: Set	Environment Threshold: 1	ENG*	[ 0 to 65 / 17 / 0.1g/m3 ]
031				
3-421-	Toner Supply Ability: Set	Environment Threshold: 2	ENG*	[ 0 to 65 / 29 / 0.1g/m3 ]
032				
3-421-	Toner Supply Ability: Set	Environment Threshold: 3	ENG*	[ 0 to 65 / 34 / 0.1g/m3 ]
033				
3-421-	Toner Supply Ability: Set	Environment Coefficient 1	ENG*	[ 0.5 to 2 / 1.04 / 0.01 ]
041				
3-421-	Toner Supply Ability: Set	Environment Coefficient 2	ENG*	[ 0.5 to 2 / 1 / 0.01 ]
042				
3-421-	Toner Supply Ability: Set	Environment Coefficient 3	ENG*	[ 0.5 to 2 / 1 / 0.01 ]

043				
3-421-	Toner Supply Ability: Set	Environment Coefficient 4	ENG*	[ 0.5 to 2 / 0.96 / 0.01 ]
044				
3-422-	Toner Supply Limits: Set	Max Supply Rate: Bk	ENG*	[ 0 to 255 / 100 / 1% ]
001				
3-422-	Toner Supply Limits: Set	Max Supply Rate: C	ENG*	[ 0 to 255 / 100 / 1% ]
002				
3-422-	Toner Supply Limits: Set	Max Supply Rate: M	ENG*	[ 0 to 255 / 100 / 1% ]
003				
3-422-	Toner Supply Limits: Set	Max Supply Rate: Y	ENG*	[ 0 to 255 / 100 / 1% ]
004				
3-422-	Toner Supply Limits: Set	Min Supply Time: Bk	ENG*	[ 0 to 255 / 100 / 1msec ]
011				
3-422-	Toner Supply Limits: Set	Min Supply Time: C	ENG*	[ 0 to 255 / 100 / 1msec ]
012				
3-422-	Toner Supply Limits: Set	Min Supply Time: M	ENG*	[ 0 to 255 / 100 / 1msec ]
013				
3-422-	Toner Supply Limits: Set	Min Supply Time: Y	ENG*	[ 0 to 255 / 100 / 1msec ]
014				
3-432-	Supply Drive Time: Setting	Drive Time (Maximum)	ENG*	[ 0 to 1500 / 800 / 1msec ]
001	E. 10 1 M 1	E' ID ( DI	ENG*	F 0 + 100 / 10 / 10/ 3
3-440-	Fixed Supply Mode	Fixed Rate: Bk	ENG*	[ 0 to 100 / 10 / 1% ]
3-440-	Eivad Supply Mada	Fixed Rate: C	ENG*	[ 0 to 100 / 10 / 1% ]
002	Fixed Supply Mode	rixed Raic. C	LING	
3-440-	Fixed Supply Mode	Fixed Rate: M	ENG*	[ 0 to 100 / 10 / 1% ]
003	Tixed Supply Wode	Trace Ruic. W	LING	
3-440-	Fixed Supply Mode	Fixed Rate: Y	ENG*	[ 0 to 100 / 10 / 1% ]
004	Time supply intout		DI VO	
3-450-	Toner Supply PID: Setting	Vt Proportion Coef.: Bk	ENG*	[ 0 to 2550 / 40 / 1 ]
001	11.7			
3-450-	Toner Supply PID: Setting	Vt Proportion Coef.: C	ENG*	[ 0 to 2550 / 40 / 1 ]
002	_			
3-450-	Toner Supply PID: Setting	Vt Proportion Coef.: M	ENG*	[ 0 to 2550 / 40 / 1 ]
003				
3-450-	Toner Supply PID: Setting	Vt Proportion Coef.: Y	ENG*	[ 0 to 2550 / 40 / 1 ]
004				
3-450-	Toner Supply PID: Setting	Pixel Proportion Coef. 1:	ENG*	[ 0 to 2.55 / 0.6 / 0.01 ]

011		Bk		
3-450-	Toner Supply PID: Setting	Pixel Proportion Coef. 1:	ENG*	[ 0 to 2.55 / 0.6 / 0.01 ]
012		С		
3-450-	Toner Supply PID: Setting	Pixel Proportion Coef. 1:	ENG*	[ 0 to 2.55 / 0.6 / 0.01 ]
013		M		
3-450-	Toner Supply PID: Setting	Pixel Proportion Coef. 1:	ENG*	[ 0 to 2.55 / 0.6 / 0.01 ]
014		Y		
3-450-	Toner Supply PID: Setting	Pixel Proportion Coef. 2:	ENG*	[ 0 to 2.55 / 1 / 0.01 ]
021		Bk		
3-450-	Toner Supply PID: Setting	Pixel Proportion Coef. 2:	ENG*	[ 0 to 2.55 / 1 / 0.01 ]
022		С		
3-450-	Toner Supply PID: Setting	Pixel Proportion Coef. 2:	ENG*	[ 0 to 2.55 / 1 / 0.01 ]
023		M		
3-450-	Toner Supply PID: Setting	Pixel Proportion Coef. 2:	ENG*	[ 0 to 2.55 / 1 / 0.01 ]
024		Y		
3-450-	Toner Supply PID: Setting	Correction Coefficient: 1	ENG*	[ 0 to 2.55 / 1 / 0.01 ]
031				
3-450-	Toner Supply PID: Setting	Correction Coefficient: 2	ENG*	[ 0 to 2.55 / 0.5 / 0.01 ]
032				
3-450-	Toner Supply PID: Setting	Correction Coefficient: 3	ENG*	[ 0 to 2.55 / 0 / 0.01 ]
033				
3-450-	Toner Supply PID: Setting	Correction Coefficient: 4	ENG*	[ 0 to 2.55 / 0.25 / 0.01 ]
034				
3-450-	Toner Supply PID: Setting	Correction Coefficient: 5	ENG*	[ 0 to 2.55 / 0.5 / 0.01 ]
035				
3-450-	Toner Supply PID: Setting	Pixel Proportion Coef. 3:	ENG*	[ 0.7 to 1.3 / 1 / 0.01 ]
041		Bk		
3-450-	Toner Supply PID: Setting	Pixel Proportion Coef. 3:	ENG*	[ 0.7 to 1.3 / 1 / 0.01 ]
042		С		
3-450-	Toner Supply PID: Setting	Pixel Proportion Coef. 3:	ENG*	[ 0.7 to 1.3 / 1 / 0.01 ]
043		M		
3-450-	Toner Supply PID: Setting	Pixel Proportion Coef. 3:	ENG*	[ 0.7 to 1.3 / 1 / 0.01 ]
044		Y		
3-450-	Toner Supply PID: Setting	Correction Value 1	ENG*	[ -0.1 to 0 / -0.01 / 0.01 ]
051				
3-450-	Toner Supply PID: Setting	Correction Value 2	ENG*	[ 0 to 0.1 / 0.01 / 0.01 ]
052				
3-450-	Toner Supply PID: Setting	Pixel Proportion Coef. Err	ENG*	[ 0 to 1 / 0.35 / 0.01 ]

061				
3-450-	Toner Supply PID: Setting	I_Vt_Coef: Bk	ENG*	[ 0 to 2550 / 500 / 1 ]
071				
3-450-	Toner Supply PID: Setting	I_Vt_Coef: C	ENG*	[ 0 to 2550 / 500 / 1 ]
072				
3-450-	Toner Supply PID: Setting	I_Vt_Coef: M	ENG*	[ 0 to 2550 / 500 / 1 ]
073				
3-450-	Toner Supply PID: Setting	I_Vt_Coef: Y	ENG*	[ 0 to 2550 / 500 / 1 ]
074				
3-450-	Toner Supply PID: Setting	Si:Bk	ENG*	[ -255 to 255 / 0 / 0.01 ]
081				
3-450-	Toner Supply PID: Setting	Si:C	ENG*	[ -255 to 255 / 0 / 0.01 ]
082				
3-450-	Toner Supply PID: Setting	Si:M	ENG*	[ -255 to 255 / 0 / 0.01 ]
083				
3-450-	Toner Supply PID: Setting	Si:Y	ENG*	[ -255 to 255 / 0 / 0.01 ]
084				
3-450-	Toner Supply PID: Setting	Vt Sum Times: Bk	ENG*	[ 1 to 255 / 20 / 1times ]
091				
3-450-	Toner Supply PID: Setting	Vt Sum Times: C	ENG*	[ 1 to 255 / 20 / 1times ]
092				5.4 2.7 (20 (4.1 )
3-450-	Toner Supply PID: Setting	Vt Sum Times: M	ENG*	[ 1 to 255 / 20 / 1times ]
093	T C 1 NID C W	N/ C T' N/	ENG*	[ 1
3-450- 094	Toner Supply PID: Setting	Vt Sum Times: Y	ENG*	[ 1 to 255 / 20 / 1times ]
	Toman Cymmly Ctuly DANC	Minimum Cumulu Timo	ENC*	[ 0 to 250 / 100 / 1mggg ]
3-460- 011	Toner Supply Ctrl: DANC: Set	Minimum Supply Time	ENG*	[ 0 to 250 / 100 / 1msec ]
3-460-	Toner Supply Ctrl: DANC:	Maximum Supply Time	ENG*	[ 0 to 1000 / 200 / 1msec ]
012	Set	Waximum Supply Time	ENG	[ 0 to 1000 / 200 / Thisec ]
3-460-	Toner Supply Ctrl: DANC:	SMITH: Supply Amount:	ENG*	[ 1 to 500 / 129 / 1mg ]
022	Set	Bk	LING	[1 to 500 / 125 / 1111g]
3-460-	Toner Supply Ctrl: DANC:	Transfer Rate: Bk	ENG*	[ 1 to 1.5 / 1 / 0.01 ]
111	Set			[ / -/ -/ -/ -/ -/ -/ -/ -/ -/ -/ -
3-460-	Toner Supply Ctrl: DANC:	Transfer Rate: C	ENG*	[ 1 to 1.5 / 1 / 0.01 ]
112	Set			
3-460-	Toner Supply Ctrl: DANC:	Transfer Rate: M	ENG*	[ 1 to 1.5 / 1 / 0.01 ]
113	Set			,
3-460-	Toner Supply Ctrl: DANC:	Transfer Rate: Y	ENG*	[ 1 to 1.5 / 1 / 0.01 ]

114	Set			
3-461-	Toner Supply Ctrl: DANC:	PI Rate	ENG*	[ 5 to 200 / 100 / 1% ]
001	Set			
3-461-	Toner Supply Ctrl: DANC:	PI: P Gain: Bk	ENG*	[ 0 to 1 / 0.01 / 0.0001 ]
011	Set			
3-461-	Toner Supply Ctrl: DANC:	P Limits: Ratio: Up: Bk	ENG*	[ 0 to 1 / 0.05 / 0.01 ]
012	Set			
3-461-	Toner Supply Ctrl: DANC:	P Limits: Ratio: Low: Bk	ENG*	[ 0 to 1 / 0.2 / 0.01 ]
013	Set			
3-461-	Toner Supply Ctrl: DANC:	PI: I Gain: Bk	ENG*	[ 0 to 0.1 / 0.01 / 0.0001 ]
021	Set			
3-461-	Toner Supply Ctrl: DANC:	I Limits: Ratio: Up: Bk	ENG*	[ 0 to 1 / 0.05 / 0.01 ]
022	Set			
3-461-	Toner Supply Ctrl: DANC:	I Limits: Ratio: Low: Bk	ENG*	[ 0 to 1 / 0.3 / 0.01 ]
023	Set			
3-461-	Toner Supply Ctrl: DANC:	AW:AWIpni:Bk	ENG*	[ 0 to 2000 / 100 / 1 ]
052	Set			
3-461-	Toner Supply Ctrl: DANC:	PI: Line Spd Corr.:	ENG*	[ 0.05 to 1 / * / 0.01 ]
102	Set	StdSpd1: Bk		*MP C307: 1
				*MP C407: 0.84
3-461-	Toner Supply Ctrl: DANC:	PI: Line Spd Corr.:	ENG*	[ 0.05 to 1 / * / 0.01 ]
103	Set	StdSpd2: Bk		*MP C307: 1
				*MP C407: 0.71
3-461-	Toner Supply Ctrl: DANC:	PI: Line Spd Corr.:	ENG*	[ 0.05 to 1 / * / 0.01 ]
104	Set	LowSpd: Bk		*MP C307: 0.5
				*MP C407: 0.35
3-461-	Toner Supply Ctrl: DANC:	SMITH: Gain: Bk	ENG*	[ 0 to 2 / 1 / 0.01 ]
121	Set			
3-461-	Toner Supply Ctrl: DANC:	SMITH: Ratio: Std Speed	ENG*	[ 0 to 1 / 1 / 0.01 ]
122	Set	1: Bk		
3-461-	Toner Supply Ctrl: DANC:	SMITH: Ratio: Std Speed	ENG*	[ 0 to 1 / 1 / 0.01 ]
123	Set	2: Bk		
3-461-	Toner Supply Ctrl: DANC:	SMITH: Ratio: Low	ENG*	[ 0 to 1 / 1 / 0.01 ]
124	Set	Speed: Bk		
3-462-	Toner Supply Ctrl: DANC:	ANC: Rate	ENG*	[ 0 to 200 / 100 / 1% ]
001	Set			
3-462-	Toner Supply Ctrl: DANC:	ANC: Gain: Bk	ENG*	[ 0 to 2 / 1 / 0.01 ]
101	Set			

3-462-	Toner Supply Ctrl: DANC:	ANC: Ratio: Std Speed 1:	ENG*	[ 0.05 to 1 / 1 / 0.01 ]
102	Set	Bk	2110	[ 0.00 to 17 17 0.01 ]
3-462-	Toner Supply Ctrl: DANC:	ANC: Ratio: Std Speed 2:	ENG*	[ 0.05 to 1 / 1 / 0.01 ]
103	Set	Bk	Ervo	[ 0.05 to 17 17 0.01 ]
3-462-	Toner Supply Ctrl: DANC:	ANC: Ratio: Low Speed:	ENG*	[ 0.05 to 1 / 1 / 0.01 ]
104	Set	Bk	2110	[ 0.00 to 1, 1, 0.01 ]
3-463-	Toner Supply Ctrl: DANC:	Integral: I: Save: Bk	ENG*	[ -1000 to 1000 / 0 / 0.0001 ]
101	Set			
3-463-	Toner Supply Ctrl: DANC:	Integral: I: Save: C	ENG*	[ -1000 to 1000 / 0 / 0.0001 ]
102	Set			
3-463-	Toner Supply Ctrl: DANC:	Integral: I: Save: M	ENG*	[ -1000 to 1000 / 0 / 0.0001 ]
103	Set			
3-463-	Toner Supply Ctrl: DANC:	Integral: I: Save: Y	ENG*	[ -1000 to 1000 / 0 / 0.0001 ]
104	Set			
3-463-	Toner Supply Ctrl: DANC:	ANC:Ref Save: Bk	ENG*	[ -1000 to 1000 / 0 / 0.0001 ]
111	Set			
3-463-	Toner Supply Ctrl: DANC:	ANC:Ref Save: C	ENG*	[ -1000 to 1000 / 0 / 0.0001 ]
112	Set			
3-463-	Toner Supply Ctrl: DANC:	ANC:Ref Save: M	ENG*	[ -1000 to 1000 / 0 / 0.0001 ]
113	Set			
3-463-	Toner Supply Ctrl: DANC:	ANC:Ref Save: Y	ENG*	[ -1000 to 1000 / 0 / 0.0001 ]
114	Set			
3-463-	Toner Supply Ctrl: DANC:	Save_DANC: Bk	ENG*	[ 0 to 9999 / 0 / 1cm2 ]
201	Set			
3-463-	Toner Supply Ctrl: DANC:	Save_DANC: C	ENG*	[ 0 to 9999 / 0 / 1cm2 ]
202	Set			
3-463-	Toner Supply Ctrl: DANC:	Save_DANC: M	ENG*	[ 0 to 9999 / 0 / 1cm2 ]
203	Set			
3-463-	Toner Supply Ctrl: DANC:	Save_DANC: Y	ENG*	[ 0 to 9999 / 0 / 1cm2 ]
204	Set			
3-500-	Image Quality Adj.:	ALL	ENG*	[ 0 or 1 / 1 / 1 ]
001	ON/OFF			0: OFF
				1: ON
3-500-	Image Quality Adj.:	Process Control	ENG*	[ 0 or 1 / 1 / 1 ]
002	ON/OFF			0: OFF
				1: ON
3-500-	Image Quality Adj.:	MUSIC	ENG*	[ 0 or 1 / 1 / 1 ]
003	ON/OFF			

3-500-	Image Quality Adj.:	TD Sensor Initial Set	ENG*	[ 0 or 1 / 1 / 1 ]
004	ON/OFF			0: OFF
				1: ON
3-501-	Toner End Prohibition	Process Control	ENG*	[ 0 or 1 / 1 / 1 ]
001	Setting			0: Permit
				1: Forbid
3-501-	Toner End Prohibition	MUSIC	ENG*	[ 0 or 1 / 1 / 1 ]
002	Setting			0: Permit
				1: Forbid
3-501-	Toner End Prohibition	TC Adjustment	ENG*	[ 0 or 1 / 1 / 1 ]
003	Setting			0: Permit
				1: Forbid
3-509-	ImgQltyAdj :ModeSelect	FC/BW Mode Priority	ENG*	[ 0 or 1 / 0 / 1 ]
011		Setting		0: FC Priority
				1: BW Priority
3-510-	Image Quality Adj.: Exec	MUSIC	ENG*	[ 0 to 2 / 0 / 1 ]
024	Flag			
3-510-	Image Quality Adj.: Exec	Init Toner Replenishment:	ENG*	[ 0 to 1 / 0 / 1 ]
031	Flag	Bk		
3-510-	Image Quality Adj.: Exec	Init Toner Replenishment:	ENG*	[ 0 to 1 / 0 / 1 ]
032	Flag	С		
3-510-	Image Quality Adj.: Exec	Init Toner Replenishment:	ENG*	[ 0 to 1 / 0 / 1 ]
033	Flag	M		
3-510-	Image Quality Adj.: Exec	Init Toner Replenishment:	ENG*	[ 0 to 1 / 0 / 1 ]
034	Flag	Y		
3-520-	Image Quality Adj.: Interval	During Job	ENG*	[ 0 to 100 / 5 / 1pages ]
001				
3-520-	Image Quality Adj.: Interval	During Stand-by	ENG*	[ 0 to 100 / 10 / 1minute ]
002				
3-521-	Drum Stop: Time: Display	Year	ENG*	[ 0 to 99 / 0 / 1 year ]
001				
3-521-	Drum Stop: Time: Display	Month	ENG*	[ 1 to 12 / 1 / 1month ]
002				
3-521-	Drum Stop: Time: Display	Day	ENG*	[ 1 to 31 / 1 / 1day ]
003				
3-521-	Drum Stop: Time: Display	Hour	ENG*	[ 0 to 23 / 0 / 1hour ]
004				
3-521-	Drum Stop: Time: Display	Minute	ENG*	[ 0 to 59 / 0 / 1minute ]

005				
3-521-	Drum Stop Time :Disp	Year:Col	ENG*	[ 0 to 99 / 0 / 1year ]
011				
3-521-	Drum Stop Time :Disp	Month:Col	ENG*	[ 1 to 12 / 1 / 1month ]
012				
3-521-	Drum Stop Time :Disp	Day:Col	ENG*	[ 1 to 31 / 1 / 1day ]
013				
3-521-	Drum Stop Time :Disp	Hour:Col	ENG*	[ 0 to 23 / 0 / 1hour ]
014				
3-521-	Drum Stop Time :Disp	Minute:Col	ENG*	[ 0 to 59 / 0 / 1minute ]
015				
3-522-	Drum	Temperature	ENG*	[ -1280 to 1270 / 0 / 0.1deg ]
001	Stop:Environment:Display			
3-522-	Drum	Relative Humidity	ENG*	[ 0 to 1000 / 0 / 0.1%RH ]
002	Stop:Environment:Display			
3-522-	Drum	Absolute Humidity	ENG*	[ 0 to 1000 / 0 / 0.1g/m3 ]
003	Stop:Environment:Display			
3-522-	Drum Stop Environ :Disp	Temperature:Col	ENG*	[ -1280 to 1270 / 0 / 0.1deg ]
011				
3-522-	Drum Stop Environ :Disp	Rel Humidity:Col	ENG*	[ 0 to 1000 / 0 / 0.1%RH ]
012				
3-522-	Drum Stop Environ :Disp	Abs Humidity:Col	ENG*	[ 0 to 1000 / 0 / 0.1g/m3 ]
013				
3-522-	Rapi_timer	Time Setting	ENG*	[ 0 to 255 / 30 / 1sec ]
100				
3-529-	ProCon Auto Exe Interval:	Development Gamma	ENG*	[ 0 to 1 / 1 / 1 ]
001	Set	Correction		0: OFF
				1: ON
3-529-	ProCon Auto Exe Interval:	Environment Correction	ENG*	[ 0 to 1 / 1 / 1 ]
002	Set			0: OFF
				1: ON
3-529-	ProCon Auto Exe Interval:	Absolute Humidity	ENG*	[ 0 to 99 / 4.3 / 0.1g/m3 ]
003	Set	Threshold		
3-529-	ProCon Auto Exe Interval:	Maximum Correction	ENG*	[ 0 to 99 / 4 / 1counts ]
004	Set	Times		
3-529-	ProCon Auto Exe Interval:	Execution Counter	ENG	[ 0 to 255 / 0 / 1 counts ]
005	Set			
3-529-	ProCon Auto Exe Interval:	Page Counter: BW	ENG*	[ 0 to 5000 / 0 / 1sheet ]

006	Set			
3-529-	ProCon Auto Exe Interval:	Page Counter: FC	ENG*	[ 0 to 5000 / 0 / 1sheet ]
007	Set			
3-530-	Power ON ProCon: Set	Non-use Time Setting	ENG*	[ 0 to 1440 / 360 / 1minute ]
001				
3-530-	Power ON ProCon: Set	Temperature Range	ENG*	[ 0 to 99 / 10 / 1deg ]
002		Threshold		
3-530-	Power ON ProCon: Set	Relative Humidity Range	ENG*	[ 0 to 99 / 50 / 1%RH ]
003		Thresh		
3-530-	Power ON ProCon: Set	Absolute Humidity Range	ENG*	[ 0 to 99 / 6 / 1g/m3 ]
004		Thresh		
3-530-	Power ON ProCon: Set	Interval: BW	ENG*	[ 0 to 5000 / 250 / 1sheet ]
005				
3-530-	Power ON ProCon: Set	Interval: FC	ENG*	[ 0 to 5000 / 100 / 1sheet ]
006				
3-530-	Power ON ProCon: Set	Page Counter: BW	ENG*	[ 0 to 5000 / 0 / 1sheet ]
007				
3-530-	Power ON ProCon: Set	Page Counter: FC	ENG*	[ 0 to 5000 / 0 / 1sheet ]
008				
3-530-	Power ON ProCon: Set	Non-use Time Setting	ENG*	[ 0 to 65535 / 2880 / 1min ]
009		(Long)		
3-531-	Non-useTime Procon: Set	Non-use Time Setting	ENG*	[ 0 to 1440 / 360 / 1minute ]
001				
3-531-	Non-useTime Procon: Set	Temperature Range	ENG*	[ 0 to 99 / 10 / 1deg ]
002		Threshold		
3-531-	Non-useTime Procon: Set	Relative Humidity Range	ENG*	[ 0 to 99 / 50 / 1%RH ]
003		Thresh		
3-531-	Non-useTime Procon: Set	Absolute Humidity Range	ENG*	[ 0 to 99 / 6 / 1g/m3 ]
004		Thresh		
3-531-	Non-useTime Procon: Set	Maximum Execution	ENG*	[ 0 to 99 / 14 / 1times ]
005		Times		
3-533-	Interrupt ProCon: Set	Interval: Set: BW	ENG*	[ 0 to 5000 / 500 / 1sheet ]
001				
3-533-	Interrupt ProCon: Set	Interval: Display: BW	ENG*	[ 0 to 5000 / 500 / 1sheet ]
002				
3-533-	Interrupt ProCon: Set	Correction (Short): BW	ENG*	[ 0 to 1 / 0.1 / 0.01 ]
003				
3-533-	Interrupt ProCon: Set	Correction (Mid.): BW	ENG*	[ 0 to 1 / 1 / 0.01 ]

004				
3-533-	Interrupt ProCon: Set	Interval: Set: FC	ENG*	[ 0 to 5000 / 200 / 1sheet ]
011				
3-533-	Interrupt ProCon: Set	Interval: Display: FC	ENG*	[ 0 to 5000 / 200 / 1sheet ]
012				
3-533-	Interrupt ProCon: Set	Correction (Short): FC	ENG*	[ 0 to 1 / 0.25 / 0.01 ]
013				
3-533-	Interrupt ProCon: Set	Correction (Mid.): FC	ENG*	[ 0 to 1 / 1 / 0.01 ]
014				
3-534-	JobEnd ProCon: Set	Interval: Set: BW	ENG*	[ 0 to 5000 / 250 / 1sheet ]
001				
3-534-	JobEnd ProCon: Set	Interval: Display: BW	ENG*	[ 0 to 5000 / 250 / 1sheet ]
002				
3-534-	JobEnd ProCon: Set	Correction (Short): BW	ENG*	[ 0 to 1 / 0.2 / 0.01 ]
003				50 4440047
3-534-	JobEnd ProCon: Set	Correction (Mid.): BW	ENG*	[ 0 to 1 / 1 / 0.01 ]
004		I de la FO	ENIC	F 0 + 1000 / 100 / 1 1 + 4 3
3-534-	JobEnd ProCon: Set	Interval: Set: FC	ENG*	[ 0 to 1000 / 100 / 1sheet ]
3-534-	JobEnd ProCon: Set	Interval: Display: FC	ENG*	[ 0 to 5000 / 100 / 1sheet ]
012	Jodena Frocon, Set	interval. Display. I'C	ENG	[ 0 to 3000 / 100 / Isliect ]
3-534-	JobEnd ProCon: Set	Correction (Short): FC	ENG*	[ 0 to 1 / 0.5 / 0.01 ]
013	Jobbin Tiocon. Set	Correction (bhort). Te	LIVO	[ 0 to 17 0.57 0.01 ]
3-534-	JobEnd ProCon: Set	Correction (Mid.): FC	ENG*	[ 0 to 1 / 1 / 0.01 ]
014				
3-539-	Dev Agitating Time: Set	Agitating Time	ENG*	[ 0 to 3000 / 10 / 1sec ]
001				
3-539-	Dev Agitating Time: Set	ON/OFF(Abs Humidity	ENG*	[ 0 or 1 / 1 / 1 ]
010		Reference)		0: OFF
				1: ON
3-539-	Dev Agitating Time: Set	Absolute Humidity	ENG*	[ 0 to 3000 / 0 / 1sec ]
011		Reference: 1		
3-539-	Dev Agitating Time: Set	Absolute Humidity	ENG*	[ 0 to 3000 / 0 / 1sec ]
012		Reference: 2		
3-539-	Dev Agitating Time: Set	Absolute Humidity	ENG*	[ 0 to 3000 / 5 / 1sec ]
013		Reference: 3		
3-539-	Dev Agitating Time: Set	Absolute Humidity	ENG*	[ 0 to 3000 / 5 / 1sec ]
014		Reference: 4		

3-539-	Dev Agitating Time: Set	Absolute Humidity	ENG*	[ 0 to 3000 / 5 / 1sec ]
015		Reference: 5		
3-539-	Dev Agitating Time: Set	Absolute Humidity	ENG*	[ 0 to 3000 / 5 / 1sec ]
016		Reference: 6		
3-539-	Dev Agitating Time: Set	Absolute Humidity	ENG*	[ 0 to 65 / 4 / 0.1g/m3 ]
021		Threshold: 1		
3-539-	Dev Agitating Time: Set	Absolute Humidity	ENG*	[ 0 to 65 / 8 / 0.1g/m3 ]
022		Threshold: 2		
3-539-	Dev Agitating Time: Set	Absolute Humidity	ENG*	[ 0 to 65 / 12 / 0.1g/m3 ]
023		Threshold: 3		
3-539-	Dev Agitating Time: Set	Absolute Humidity	ENG*	[ 0 to 65 / 16 / 0.1g/m3 ]
024		Threshold: 4		
3-539-	Dev Agitating Time: Set	Absolute Humidity	ENG*	[ 0 to 65 / 24 / 0.1g/m3 ]
025		Threshold: 5		
3-539-	Dev Agitating Time: Set	ON/OFF(Non-use Time	ENG*	[ 0 or 1 / 1 / 1 ]
030		Reference)		0: OFF
				1: ON
3-539-	Dev Agitating Time: Set	Non-use Time Reference:	ENG*	[ 0 to 3000 / 0 / 1sec ]
031		1		
3-539-	Dev Agitating Time: Set	Non-use Time Reference:	ENG*	[ 0 to 3000 / 0 / 1sec ]
032		2		
3-539-	Dev Agitating Time: Set	Non-use Time Reference:	ENG*	[ 0 to 3000 / 0 / 1sec ]
033		3		
3-539-	Dev Agitating Time: Set	Non-use Time Reference:	ENG*	[ 0 to 3000 / 0 / 1sec ]
034		4		
3-539-	Dev Agitating Time: Set	Non-use Time Reference:	ENG*	[ 0 to 3000 / 0 / 1sec ]
035		5		
3-539-	Dev Agitating Time: Set	Non-use Time Reference:	ENG*	[ 0 to 3000 / 0 / 1sec ]
036		6		
3-539-	Dev Agitating Time: Set	Non-use Time Reference:	ENG*	[ 0 to 3000 / 0 / 1sec ]
037		7		
3-539-	Dev Agitating Time: Set	Non-use Time Reference:	ENG*	[ 0 to 3000 / 0 / 1sec ]
038		8		
3-539-	Dev Agitating Time: Set	Non-use Time Reference:	ENG*	[ 0 to 3000 / 5 / 1sec ]
039		9		
3-539-	Dev Agitating Time: Set	Non-use Time Reference:	ENG*	[ 0 to 3000 / 10 / 1sec ]
040		10		
3-539-	Dev Agitating Time: Set	Non-use Time Threshold:	ENG*	[ 0 to 30000 / 15 / 1min ]

041		1		
3-539-	Dev Agitating Time: Set	Non-use Time Threshold:	ENG*	[ 0 to 30000 / 30 / 1min ]
042		2		
3-539-	Dev Agitating Time: Set	Non-use Time Threshold:	ENG*	[ 0 to 30000 / 60 / 1min ]
043		3		
3-539-	Dev Agitating Time: Set	Non-use Time Threshold:	ENG*	[ 0 to 30000 / 120 / 1min ]
044		4		
3-539-	Dev Agitating Time: Set	Non-use Time Threshold:	ENG*	[ 0 to 30000 / 240 / 1min ]
045		5		
3-539-	Dev Agitating Time: Set	Non-use Time Threshold:	ENG*	[ 0 to 30000 / 360 / 1min ]
046		6		
3-539-	Dev Agitating Time: Set	Non-use Time Threshold:	ENG*	[ 0 to 30000 / 720 / 1min ]
047		7		
3-539-	Dev Agitating Time: Set	Non-use Time Threshold:	ENG*	[ 0 to 30000 / 1440 / 1min ]
048		8		
3-539-	Dev Agitating Time: Set	Non-use Time Threshold:	ENG*	[ 0 to 30000 / 2880 / 1min ]
049		9		
3-539-	Dev Agitating Time: Set	ON/OFF(Dot Coverage	ENG*	[ 0 or 1 / 1 / 1 ]
050		Reference)		0: OFF
				1: ON
3-539-	Dev Agitating Time: Set	Dot Coverage Reference:	ENG*	[ 0 to 3000 / 0 / 1sec ]
051		1		
3-539-	Dev Agitating Time: Set	Dot Coverage Reference:	ENG*	[ 0 to 3000 / 0 / 1sec ]
052		2 P. (C. P. C.	ENIG*	50, 2000/5/1
3-539-	Dev Agitating Time: Set	Dot Coverage Reference:	ENG*	[ 0 to 3000 / 5 / 1sec ]
053	Dan Anitation Times Cat	Det Common Reference	ENC*	[ 0 to 2000 / 5 / 1 cos ]
3-539-	Dev Agitating Time: Set	Dot Coverage Reference:	ENG*	[ 0 to 3000 / 5 / 1sec ]
054	Dan Anitation Times Cat	Det Common Performance	ENC*	[ 0 to 2000 / 10 / 1 co ]
3-539- 055	Dev Agitating Time: Set	Dot Coverage Reference: 5	ENG*	[ 0 to 3000 / 10 / 1sec ]
3-539-	Day Agitating Time: Sat	Dot Coverage Reference:	ENG*	[ 0 to 2000 / 10 / 1see ]
056	Dev Agitating Time: Set	6	ENG.	[ 0 to 3000 / 10 / 1sec ]
3-539-	Dev Agitating Time: Set	Dot Coverage Threshold:	ENG*	[ 0 to 100 / 10 / 1% ]
061	DOV Agnating Time. Set	1	EMO.	[ 0 10 100 / 10 / 1 / 0 ]
3-539-	Dev Agitating Time: Set	Dot Coverage Threshold:	ENG*	[ 0 to 100 / 20 / 1% ]
062	201 righting rinic. Set	2	1.10	[ 0 10 100 / 20 / 1 / 0 ]
3-539-	Dev Agitating Time: Set	Dot Coverage Threshold:	ENG*	[ 0 to 100 / 40 / 1% ]
063	20. rigitating fillio. 90t	3	Live	[ 0 10 100 / 10 / 1/0 ]
003				

10 to 100 / 80 / 1%   10 to 100 / 80 / 1%	eet ]
Solution   Solution	eet ]
099   3-541-   Music Interval :Set   Page Counter: BW   ENG*   [ 0 to 5000 / 0 / 1 she   001   3-541-   Music Interval :Set   Page Counter: FC   ENG*   [ 0 to 5000 / 0 / 1 she   002   3-550-   Refresh Mode   Required Area: Bk   ENG*   [ 0 to 65535 / 0 / 1 cm   001   3-550-   Refresh Mode   Required Area: C   ENG*   [ 0 to 65535 / 0 / 1 cm   002   3-550-   Refresh Mode   Required Area: M   ENG*   [ 0 to 65535 / 0 / 1 cm   003   3-550-   Refresh Mode   Required Area: Y   ENG*   [ 0 to 65535 / 0 / 1 cm   004   ENG*   [ 0	eet ]
3-541-   Music Interval :Set   Page Counter: BW   ENG*   [ 0 to 5000 / 0 / 1 she	eet ]
001   3-541-   Music Interval :Set   Page Counter: FC   ENG*   [ 0 to 5000 / 0 / 1 she   002   3-550-   Refresh Mode   Required Area: Bk   ENG*   [ 0 to 65535 / 0 / 1 cm   001   3-550-   Refresh Mode   Required Area: C   ENG*   [ 0 to 65535 / 0 / 1 cm   002   3-550-   Refresh Mode   Required Area: M   ENG*   [ 0 to 65535 / 0 / 1 cm   003   3-550-   Refresh Mode   Required Area: Y   ENG*   [ 0 to 65535 / 0 / 1 cm   004   ENG*   [ 0 to 65535 /	eet ]
3-541-       Music Interval :Set       Page Counter: FC       ENG*       [ 0 to 5000 / 0 / 1 she         3-550-       Refresh Mode       Required Area: Bk       ENG*       [ 0 to 65535 / 0 / 1 cm         3-550-       Refresh Mode       Required Area: C       ENG*       [ 0 to 65535 / 0 / 1 cm         002       3-550-       Refresh Mode       Required Area: M       ENG*       [ 0 to 65535 / 0 / 1 cm         003       3-550-       Refresh Mode       Required Area: Y       ENG*       [ 0 to 65535 / 0 / 1 cm	
3-550-   Refresh Mode   Required Area: Bk   ENG*   [ 0 to 65535 / 0 / 1 cm   001     3-550-   Refresh Mode   Required Area: C   ENG*   [ 0 to 65535 / 0 / 1 cm   002     3-550-   Refresh Mode   Required Area: M   ENG*   [ 0 to 65535 / 0 / 1 cm   003     3-550-   Refresh Mode   Required Area: Y   ENG*   [ 0 to 65535 / 0 / 1 cm   004     ENG*   [ 0 to 65535 / 0 / 1 cm   004   ENG*   [ 0 to 65535 / 0 / 1 cm	
3-550- 001       Refresh Mode       Required Area: Bk       ENG* [ 0 to 65535 / 0 / 1cm]         3-550- 002       Refresh Mode       Required Area: C       ENG* [ 0 to 65535 / 0 / 1cm]         3-550- 003       Refresh Mode       Required Area: M       ENG* [ 0 to 65535 / 0 / 1cm]         003       Refresh Mode       Required Area: Y       ENG* [ 0 to 65535 / 0 / 1cm]         004       Refresh Mode       Required Area: Y       ENG* [ 0 to 65535 / 0 / 1cm]	m2 ]
001       3-550-       Refresh Mode       Required Area: C       ENG*       [ 0 to 65535 / 0 / 1 cm         002       3-550-       Refresh Mode       Required Area: M       ENG*       [ 0 to 65535 / 0 / 1 cm         003       3-550-       Refresh Mode       Required Area: Y       ENG*       [ 0 to 65535 / 0 / 1 cm         004       Refresh Mode       Required Area: Y       ENG*       [ 0 to 65535 / 0 / 1 cm	m2 ]
3-550-       Refresh Mode       Required Area: C       ENG*       [ 0 to 65535 / 0 / 1cm         3-550-       Refresh Mode       Required Area: M       ENG*       [ 0 to 65535 / 0 / 1cm         003       Refresh Mode       Required Area: Y       ENG*       [ 0 to 65535 / 0 / 1cm         004       Refresh Mode       Required Area: Y       ENG*       [ 0 to 65535 / 0 / 1cm	
002       3-550-       Refresh Mode       Required Area: M       ENG*       [ 0 to 65535 / 0 / 1 cm         003       3-550-       Refresh Mode       Required Area: Y       ENG*       [ 0 to 65535 / 0 / 1 cm         004       Refresh Mode       Required Area: Y       ENG*       [ 0 to 65535 / 0 / 1 cm	
3-550-       Refresh Mode       Required Area: M       ENG*       [ 0 to 65535 / 0 / 1 cm         003       3-550-       Refresh Mode       Required Area: Y       ENG*       [ 0 to 65535 / 0 / 1 cm	n2 ]
003  3-550- Refresh Mode Required Area: Y ENG* [ 0 to 65535 / 0 / 1cm 004	
3-550- Refresh Mode Required Area: Y ENG* [ 0 to 65535 / 0 / 1cm	n2 ]
004	
	n2 ]
3-550-   Refresh Mode   Dev. Motor Rotation:   ENG*   [ 0 to 1000 / 0 / 0.1m	1 ]
Display: Bk	
3-550- Refresh Mode Dev. Motor Rotation: ENG* [ 0 to 1000 / 0 / 0.1m	1 ]
Display: C	
3-550- Refresh Mode Dev. Motor Rotation: ENG* [ 0 to 1000 / 0 / 0.1m	 1 ]
Display: M	
3-550- Refresh Mode Dev. Motor Rotation: ENG* [ 0 to 1000 / 0 / 0.1m	 1 ]
Display: Y	
3-550- Refresh Mode Rotation Threshold ENG* [ 0 to 1000 / 0.1 / 0.1	 lm ]
021	
3-550- Refresh Mode Refresh Threshold: Bk ENG* [ 0 to 255 / 25 / 1cm2	2/m ]
031	
3-550- Refresh Mode Refresh Threshold: C ENG* [ 0 to 255 / 25 / 1cm/	2/m ]
032	•
3-550- Refresh Mode Refresh Threshold: M ENG* [ 0 to 255 / 25 / 1cm2	2/m ]
033	•
3-550- Refresh Mode Refresh Threshold: Y ENG* [ 0 to 255 / 25 / 1cm/	
034	2/m ]
3-550- Refresh Mode Job End Area Coefficient ENG* [ 0.1 to 25.5 / 1 / 0.1	2/m ]
041	

3-550-	Refresh Mode	Job End Vb Coefficient	ENG*	[ 0 to 100 / 34 / 1% ]
042				
3-550-	Refresh Mode	Job End Length	ENG*	[ 0 to 99 / 77 / 1mm ]
043				
3-550-	Refresh Mode	Job End Supply	ENG*	[ 0 to 1 / 0.45 /
044				0.001mg/cm2 ]
3-550-	Refresh Mode	Consumption Counts	ENG*	[ 0 to 50 / 0 / 1 ]
081		(Max)		
3-550-	Refresh Mode	Refresh Page Threshold:	ENG*	[ 0 to 200 / 100 / 1page ]
121		Bk		
3-550-	Refresh Mode	Refresh Page Threshold:	ENG*	[ 0 to 200 / 100 / 1page ]
122		Col		
3-550-	Refresh Mode	Refresh Page Counter Bk	ENG*	[ 0 to 999999 / 0 / 1page ]
131				
3-550-	Refresh Mode	Refresh Page Counter C	ENG*	[ 0 to 999999 / 0 / 1page ]
132				
3-550-	Refresh Mode	Refresh Page Counter M	ENG*	[ 0 to 999999 / 0 / 1page ]
133				
3-550-	Refresh Mode	Refresh Page Counter Y	ENG*	[ 0 to 999999 / 0 / 1page ]
134				
3-553-	Transfer Belt Cleaning	Transfer Idle Time Temp.:	ENG*	[ 0 to 3 / 0 / 0.1 revolution ]
001		Н		
3-553-	Transfer Belt Cleaning	Transfer Idle Time Temp.:	ENG*	[ 0 to 3 / 0 / 0.1 revolution ]
002		M		
3-553-	Transfer Belt Cleaning	Transfer Idle Time Temp.:	ENG*	[ 0 to 3 / 0 / 0.1 revolution ]
003		L		
3-553-	Transfer Belt Cleaning	Transfer Idle Time Temp.:	ENG*	[ 0 to 3 / 0 / 0.1 revolution ]
004		L: ON	The second	
3-553-	Transfer Belt Cleaning	Temperature Threshold:T2	ENG*	[ 20 to 30 / 25 / 1deg ]
005	T. C. D. I. Cl.	T 4 TEL 1 11 TEL	ENG*	50, 15/15/11 7
3-553-	Transfer Belt Cleaning	Temperature Threshold:T1	ENG*	[ 0 to 15 / 15 / 1deg ]
006	Tromafor D-14 Classic	Town and town The 11 T2	ENC*	[0+a 20 / 10 / 14- 1
3-553-	Transfer Belt Cleaning	Temperature Threshold:T3	ENG*	[ 0 to 30 / 18 / 1deg ]
007	Evacution Interval: Cat	Charge AC Control	ENC*	[ 0 to 2000 / 500 / 1mage ]
3-555-	Execution Interval: Set	Charge AC Control Counter: FC	ENG*	[ 0 to 2000 / 500 / 1page ]
001	Evacution Interval: Set		ENG*	[ 0 to 2000 / 500 / 1page ]
3-555-	Execution Interval: Set	Charge AC Control Counter: Bk	ENG	[ 0 to 2000 / 500 / 1page ]
002		Counter. BK		

3-600-	Select ProCon	Potential Control	ENG*	[ 0 or 1 / 1 / 1 ]
001				0: FIXED
				1: CONTROL
3-600-	Select ProCon	LD Control	ENG*	[ 0 to 3 / 1 / 1 ]
002				0: OFF
				1: ON
3-600-	Select ProCon	TC Adj. Mode	ENG*	[ 0 to 3 / 3 / 1 ]
003				0: Do Not Execute
				1: 1st Power On
				2: 1st Power On & Job End
				3: Dev gamma judgment
3-600-	Select ProCon	ACC Before ProCon	ENG*	[ 0 to 3 / 2 / 1 ]
004				0: Not Execute
				1: Process Control
				2: TC Control
3-600-	Select ProCon	Vsg ITB Prev Pattern	ENG*	[ 0 to 2 / 2 / 1 ]
060		Corr.		0: OFF
				1: All Time
				2: Non-use Time (Long)
3-610-	Charging AC Control:	Standard Speed: Bk	ENG*	[ 0 to 3 / 2.1 / 0.01kV ]
001	Display			
3-610-	Charging AC Control:	Standard Speed: C	ENG*	[ 0 to 3 / 2.1 / 0.01kV ]
002	Display			
3-610-	Charging AC Control:	Standard Speed: M	ENG*	[ 0 to 3 / 2.1 / 0.01kV ]
003	Display			
3-610-	Charging AC Control:	Standard Speed: Y	ENG*	[ 0 to 3 / 2.1 / 0.01kV ]
004	Display			
3-611-	Charging DC Control:	Standard Speed: Bk	ENG*	[ 300 to 1000 / 700 / 1-V ]
001	Display			
3-611-	Charging DC Control:	Standard Speed: C	ENG*	[ 300 to 1000 / 690 / 1-V ]
002	Display			
3-611-	Charging DC Control:	Standard Speed: M	ENG*	[ 300 to 1000 / 690 / 1-V ]
003	Display			
3-611-	Charging DC Control:	Standard Speed: Y	ENG*	[ 300 to 1000 / 690 / 1-V ]
004	Display			
3-611-	Charging DC Control:	Mid Speed: Bk	ENG*	[ 300 to 1000 / 700 / 1-V ]
011	Display			
3-611-	Charging DC Control:	Mid Speed: C	ENG*	[ 300 to 1000 / 690 / 1-V ]

012	Display			
3-611-	Charging DC Control:	Mid Speed: M	ENG*	[ 300 to 1000 / 690 / 1-V ]
013	Display			
3-611-	Charging DC Control:	Mid Speed: Y	ENG*	[ 300 to 1000 / 690 / 1-V ]
014	Display			
3-611-	Charging DC Control:	Low Speed: Bk	ENG*	[ 300 to 1000 / 700 / 1-V ]
021	Display			
3-611-	Charging DC Control:	Low Speed: C	ENG*	[ 300 to 1000 / 690 / 1-V ]
022	Display			
3-611-	Charging DC Control:	Low Speed: M	ENG*	[ 300 to 1000 / 690 / 1-V ]
023	Display			
3-611-	Charging DC Control:	Low Speed: Y	ENG*	[ 300 to 1000 / 690 / 1-V ]
024	Display			
3-611-	Charging DC Control:	Std Speed: BW	ENG*	[ 300 to 1000 / 700 / 1-V ]
051	Display			
3-611-	Charging DC Control:	Mid Speed: BW	ENG*	[ 300 to 1000 / 700 / 1-V ]
061	Display			
3-611-	Charging DC Control:	Low Speed: BW	ENG*	[ 300 to 1000 / 700 / 1-V ]
071	Display			
3-611-	Charging DC Control:	Std Speed2: BW	ENG*	[ 300 to 1000 / 700 / 1-V ]
081	Display			
3-612-	Dev DC Control: Display	Std Speed: Bk	ENG*	[ 200 to 800 / 550 / 1-V ]
001				
3-612-	Dev DC Control: Display	Std Speed: C	ENG*	[ 200 to 800 / 550 / 1-V ]
002				
3-612-	Dev DC Control: Display	Std Speed: M	ENG*	[ 200 to 800 / 550 / 1-V ]
003				
3-612-	Dev DC Control: Display	Std Speed: Y	ENG*	[ 200 to 800 / 550 / 1-V ]
004				
3-612-	Dev DC Control: Display	Mid Speed: Bk	ENG*	[ 200 to 800 / 550 / 1-V ]
011				
3-612-	Dev DC Control: Display	Mid Speed: C	ENG*	[ 200 to 800 / 550 / 1-V ]
012				
3-612-	Dev DC Control: Display	Mid Speed: M	ENG*	[ 200 to 800 / 550 / 1-V ]
013				
3-612-	Dev DC Control: Display	Mid Speed: Y	ENG*	[ 200 to 800 / 550 / 1-V ]
014				
3-612-	Dev DC Control: Display	Low Speed: Bk	ENG*	[ 200 to 800 / 550 / 1-V ]

021				
3-612-	Dev DC Control: Display	Low Speed: C	ENG*	[ 200 to 800 / 550 / 1-V ]
022	Dev De Control. Display	Low Speed. C	ENG	[ 200 to 800 / 330 / 1- v ]
3-612-	Dev DC Control: Display	Low Speed: M	ENG*	[ 200 to 800 / 550 / 1-V ]
023	Dev De control. Display	Low Speed. W	LING	[ 200 to 600 / 330 / 1- v ]
3-612-	Dev DC Control: Display	Low Speed: Y	ENG*	[ 200 to 800 / 550 / 1-V ]
024	Bev Be control. Bisplay	Low speed. 1	Erio	[200 to 600 / 250 / 1 / ]
3-612-	Dev DC Control: Display	Vb Limit	ENG*	[ 0 to 500 / 50 / 1V ]
041				
3-612-	Dev DC Control: Display	Std Speed: BW	ENG*	[ 200 to 800 / 550 / 1-V ]
051				
3-612-	Dev DC Control: Display	Mid Speed: BW	ENG*	[ 200 to 800 / 550 / 1-V ]
061				
3-612-	Dev DC Control: Display	Low Speed: BW	ENG*	[ 200 to 800 / 550 / 1-V ]
071				
3-612-	Dev DC Control: Display	Std Speed2: BW	ENG*	[ 200 to 800 / 550 / 1-V ]
081				
3-612-	Dev DC Control: Display	Set:PCU Distance	ENG*	[ 0 to 999999999 / 23968496
124		Thresh:K		/ 1mm ]
3-612-	Dev DC Control: Display	Set:PCU Distance	ENG*	[ 0 to 999999999 / 17451292
125		Thresh:Col		/ 1mm ]
3-612-	Dev DC Control: Display	Set:Temperature Thresh	ENG*	[ 0 to 100 / 15 / 1deg ]
126				
3-612-	Dev DC Control: Display	Set:Upper Vb Current:K	ENG*	[ 0 to 800 / 560 / 1V ]
131				
3-612-	Dev DC Control: Display	Set:Upper Vb Current:C	ENG*	[ 0 to 800 / 560 / 1V ]
132				
3-612-	Dev DC Control: Display	Set:Upper Vb Current:M	ENG*	[ 0 to 800 / 560 / 1V ]
133				
3-612-	Dev DC Control: Display	Set:Upper Vb Current:Y	ENG*	[ 0 to 800 / 560 / 1V ]
134				
3-613-	LD Power Control: Display	Std Speed: Bk	ENG*	[ 0 to 200 / 100 / 1% ]
001	1DD 0 1-11	0.10	Disc.	F.O 200 / 100 / 151 5
3-613-	LD Power Control: Display	Std Speed: C	ENG*	[ 0 to 200 / 100 / 1% ]
002	IDD C . ID'	0.10	ENG:	F.O. ( 200 / 100 / 10/ 7
3-613-	LD Power Control: Display	Std Speed: M	ENG*	[ 0 to 200 / 100 / 1% ]
003	IDDCoverlability	Ct.1 C 1. 37	EN/C*	[ 0 4- 200 / 100 / 10/ ]
3-613-	LD Power Control: Display	Std Speed: Y	ENG*	[ 0 to 200 / 100 / 1% ]

004				
3-613-	LD Power Control: Display	Mid Speed: Bk	ENG*	[ 0 to 200 / 100 / 1% ]
011				
3-613-	LD Power Control: Display	Mid Speed: C	ENG*	[ 0 to 200 / 100 / 1% ]
012				
3-613-	LD Power Control: Display	Mid Speed: M	ENG*	[ 0 to 200 / 100 / 1% ]
013				
3-613-	LD Power Control: Display	Mid Speed: Y	ENG*	[ 0 to 200 / 100 / 1% ]
014				
3-613-	LD Power Control: Display	Low Speed: Bk	ENG*	[ 0 to 200 / 100 / 1% ]
021				
3-613-	LD Power Control: Display	Low Speed: C	ENG*	[ 0 to 200 / 100 / 1% ]
022	IDD Cortain Disale	L. C. IM	ENCY	F 0 4 200 / 100 / 10/ 1
3-613- 023	LD Power Control: Display	Low Speed: M	ENG*	[ 0 to 200 / 100 / 1% ]
3-613-	LD Power Control: Display	Low Speed: Y	ENG*	[ 0 to 200 / 100 / 1% ]
024	LD Tower Control. Display	Low Speed. 1	LING	
3-613-	LD Power Control: Display	Std Speed: BW	ENG*	[ 0 to 200 / 100 / 1% ]
051	22 Tower convious 2 soprany	Stu Speed. B W		[00020071007170]
3-613-	LD Power Control: Display	Mid Speed: BW	ENG*	[ 0 to 200 / 100 / 1% ]
061		-		
3-613-	LD Power Control: Display	Low Speed: BW	ENG*	[ 0 to 200 / 100 / 1% ]
071				
3-613-	LD Power Control: Display	Std Speed2: BW	ENG*	[ 0 to 200 / 100 / 1% ]
081				
3-613-	LD Power Control: Display	ProCon Corr: Bk	ENG*	[ 0 to 200 / 160 / 1% ]
101				
3-613-	LD Power Control: Display	ProCon Corr: C	ENG*	[ 0 to 200 / 160 / 1% ]
102				
3-613-	LD Power Control: Display	ProCon Corr: M	ENG*	[ 0 to 200 / 160 / 1% ]
103	IDD C 151	D. C. C. Y	ENIO*	F.O. ( 200 / 1/2 / 12/2
3-613-	LD Power Control: Display	ProCon Corr: Y	ENG*	[ 0 to 200 / 160 / 1% ]
104	Ima Diag Lina Cn J C C	Vh Coof. Std Sa J. Dl	ENC*	[0+0255/*/001]
3-619- 001	Img Bias: Line Spd Corr: Set	Vb Coef: Std Speed: Bk	ENG*	[ 0 to 2.55 / * / 0.01 ] *MP C307: 0.65
001				*MP C307: 0.63
3-619-	Img Bias: Line Spd Corr: Set	Vb Coef: Std Speed: C	ENG*	[ 0 to 2.55 / 1 / 0.01 ]
002	Zimo. Zimo Spa Com. Set	. a count sta speed. C		[ 0.00 2.00 / 1 / 0.01 ]

3-619- 003	Img Bias: Line Spd Corr: Set	Vb Coef: Std Speed: M	ENG*	[ 0 to 2.55 / 1 / 0.01 ]
3-619- 004	Img Bias: Line Spd Corr: Set	Vb Coef: Std Speed: Y	ENG*	[ 0 to 2.55 / 1 / 0.01 ]
3-619- 005	Img Bias: Line Spd Corr: Set	Vb Coef: Low Speed: Bk	ENG*	[ 0 to 2.55 / * / 0.01 ] *MP C307: 0.41 *MP C407: 0.48
3-619- 006	Img Bias: Line Spd Corr: Set	Vb Coef: Low Speed: C	ENG*	[ 0 to 2.55 / 1 / 0.01 ]
3-619- 007	Img Bias: Line Spd Corr: Set	Vb Coef: Low Speed: M	ENG*	[ 0 to 2.55 / 1 / 0.01 ]
3-619- 008	Img Bias: Line Spd Corr: Set	Vb Coef: Low Speed: Y	ENG*	[ 0 to 2.55 / 1 / 0.01 ]
3-619- 011	Img Bias: Line Spd Corr: Set	Vb Offset: Std Speed: Bk	ENG*	[ -1000 to 1000 / * / 1V ] *MP C307: 163 *MP C407: 264
3-619- 012	Img Bias: Line Spd Corr: Set	Vb Offset: Std Speed: C	ENG*	[ -1000 to 1000 / * / 1V ] *MP C307: 44 *MP C407: 45
3-619- 013	Img Bias: Line Spd Corr: Set	Vb Offset: Std Speed: M	ENG*	[ -1000 to 1000 / * / 1V ] *MP C307: 44 *MP C407: 45
3-619- 014	Img Bias: Line Spd Corr: Set	Vb Offset: Std Speed: Y	ENG*	[ -1000 to 1000 / * / 1V ] *MP C307: 44 *MP C407: 45
3-619- 015	Img Bias: Line Spd Corr: Set	Vb Offset: Low Speed: Bk	ENG*	[ -1000 to 1000 / * / 1V ] *MP C307: 215 *MP C407: 200
3-619- 016	Img Bias: Line Spd Corr: Set	Vb Offset: Low Speed: C	ENG*	[ -1000 to 1000 / * / 1V ] *MP C307: -37 *MP C407: -44
3-619- 017	Img Bias: Line Spd Corr: Set	Vb Offset: Low Speed: M	ENG*	[ -1000 to 1000 / * / 1V ] *MP C307: -37 *MP C407: -44
3-619- 018	Img Bias: Line Spd Corr: Set	Vb Offset: Low Speed: Y	ENG*	[ -1000 to 1000 / * / 1V ] *MP C307: -37 *MP C407: -44
3-619-	Img Bias: Line Spd Corr: Set	Vb Coef: Standard Speed	ENG*	[ 0 to 2.55 / 0.51 / 0.01 ]

021		2: Bk		
3-619-	Img Bias: Line Spd Corr: Set	Vb Coef: Mid Speed: Std	ENG*	[ 0 to 2.55 / 0.69 / 0.01 ]
024		Speed 2		
3-619-	Img Bias: Line Spd Corr: Set	Vb Coef: Low Speed: Std	ENG*	[ 0 to 2.55 / 0.55 / 0.01 ]
025		Speed 2		
3-619-	Img Bias: Line Spd Corr: Set	Vb Coef: Std Speed 2: Std	ENG*	[ 0 to 2.55 / 0.85 / 0.01 ]
026		Speed 2		
3-619-	Img Bias: Line Spd Corr: Set	Vb Offset: Std Speed 2:	ENG*	[ -1000 to 1000 / 234 / 1V ]
031		Bk		
3-619-	Img Bias: Line Spd Corr: Set	Vb Offset: Mid Speed: Std	ENG*	[ -1000 to 1000 / 112 / 1V ]
034		Speed 2		
3-619-	Img Bias: Line Spd Corr: Set	Vb Offset: Low Speed:	ENG*	[ -1000 to 1000 / 107 / 1V ]
035		Std Speed 2		
3-619-	Img Bias: Line Spd Corr: Set	Vb Offset: Std Speed 2:	ENG*	[ -1000 to 1000 / 68 / 1V ]
036		Std Speed 2		
3-619-	Img Bias: Line Spd Corr: Set	Vb Coef: Mid Speed: Bk	ENG*	[ 0 to 2.55 / 0.47 / 0.01 ]
041				
3-619-	Img Bias: Line Spd Corr: Set	Vb Coef: Mid Speed: C	ENG*	[ 0 to 2.55 / 1 / 0.01 ]
042	I D' I' GIG G	TH. C. C.N. 10. 1.M.	ENIO#	50, 255/1/0017
3-619-	Img Bias: Line Spd Corr: Set	Vb Coef: Mid Speed: M	ENG*	[ 0 to 2.55 / 1 / 0.01 ]
043	Luca Diana Lina Cud Carro Cad	Who Cook Mid Cook I W	ENC*	[ 0 4- 2 55 / 1 / 0 01 ]
3-619- 044	Img Bias: Line Spd Corr: Set	Vb Coef: Mid Speed: Y	ENG*	[ 0 to 2.55 / 1 / 0.01 ]
3-619-	Img Bias: Line Spd Corr: Set	Vb Offset: Mid Speed: Bk	ENG*	[ -1000 to 1000 / 265 / 1V ]
045	inig Bias. Line Spu Con. Set	VO Offset. What Speed. Bk	LING	[-1000 to 1000 / 203 / 1 v ]
3-619-	Img Bias: Line Spd Corr: Set	Vb Offset: Mid Speed: C	ENG*	[-1000 to 1000 / 15 / 1V]
046	ing Blus. Eme spu con. set	vo onser. Ma speca. C	Live	
3-619-	Img Bias: Line Spd Corr: Set	Vb Offset: Mid Speed: M	ENG*	[-1000 to 1000 / 15 / 1V]
047		•		
3-619-	Img Bias: Line Spd Corr: Set	Vb Offset: Mid Speed: Y	ENG*	[ -1000 to 1000 / 15 / 1V ]
048	_	_		
3-620-	ProCon Target M/A	Maximum M/A: Bk	ENG*	[ 0.25 to 0.75 / 0.436 /
001				0.001mg/cm2 ]
3-620-	ProCon Target M/A	Maximum M/A: C	ENG*	[ 0.25 to 0.75 / 0.412 /
002				0.001mg/cm2 ]
3-620-	ProCon Target M/A	Maximum M/A: M	ENG*	[ 0.25 to 0.75 / 0.471 /
003				0.001mg/cm2 ]
3-620-	ProCon Target M/A	Maximum M/A: Y	ENG*	[ 0.25 to 0.75 / 0.464 /

004				0.001mg/cm2 ]
3-620-	ProCon Target M/A	Maximum M/A: BW	ENG*	[ 0.25 to 0.75 / 0.383 /
051				0.001mg/cm2 ]
3-622-	Development Potential:	Bk	ENG*	[ 0 to 800 / 0 / 1V ]
001	Display			
3-622-	Development Potential:	С	ENG*	[ 0 to 800 / 0 / 1V ]
002	Display			
3-622-	Development Potential:	M	ENG*	[ 0 to 800 / 0 / 1V ]
003	Display			
3-622-	Development Potential:	Y	ENG*	[ 0 to 800 / 0 / 1V ]
004	Display			
3-622-	Development Potential:	Bk: BW	ENG*	[ 0 to 800 / 0 / 1V ]
021	Display			
3-622-	Development Potential:	Upper Limit: Bk	ENG*	[ 400 to 800 / 738 / 1V ]
051	Display			
3-622-	Development Potential:	Upper Limit: C	ENG*	[ 400 to 800 / 650 / 1V ]
052	Display			
3-622-	Development Potential:	Upper Limit: M	ENG*	[ 400 to 800 / 650 / 1V ]
053	Display			
3-622-	Development Potential:	Upper Limit: Y	ENG*	[ 400 to 800 / 650 / 1V ]
054	Display			
3-622-	Development Potential:	Lower Limit: Bk	ENG*	[ 0 to 400 / 250 / 1V ]
061	Display			
3-622-	Development Potential:	Lower Limit: C	ENG*	[ 0 to 400 / 300 / 1V ]
062	Display			
3-622-	Development Potential:	Lower Limit: M	ENG*	[ 0 to 400 / 300 / 1V ]
063	Display			
3-622-	Development Potential:	Lower Limit: Y	ENG*	[ 0 to 400 / 300 / 1V ]
064	Display			
3-623-	LD Power: Set	Standard Speed Slope: Bk	ENG*	[ -1000 to 1000 / * / 1V ]
001				*MP C307: 186
				*MP C407: 228
3-623-	LD Power: Set	Standard Speed Slope: C	ENG*	[ -1000 to 1000 / * / 1V ]
002				*MP C307: 186
				*MP C407: 228
3-623-	LD Power: Set	Standard Speed Slope: M	ENG*	[ -1000 to 1000 / * / 1V ]
003				*MP C307: 186
				*MP C407: 228

3-623-	LD Power: Set	Standard Speed Slope: Y	ENG*	[-1000 to 1000 / * / 1V ]
004				*MP C307: 186
				*MP C407: 228
3-623-	LD Power: Set	Standard Speed Offset: Bk	ENG*	[-1000 to 1000 / * / 1]
011				*MP C307: 6
				*MP C407: -8
3-623-	LD Power: Set	Standard Speed Offset: C	ENG*	[ -1000 to 1000 / * / 1 ]
012				*MP C307: 8
				*MP C407: -8
3-623-	LD Power: Set	Standard Speed Offset: M	ENG*	[ -1000 to 1000 / * / 1 ]
013				*MP C307: 8
				*MP C407: -8
3-623-	LD Power: Set	Standard Speed Offset: Y	ENG*	[ -1000 to 1000 / * / 1 ]
014				*MP C307: 8
				*MP C407: -8
3-623-	LD Power: Set	Mid. Speed Slope: Bk	ENG*	[ -1000 to 1000 / 231 / 1 ]
021				
3-623-	LD Power: Set	Mid. Speed Slope: C	ENG*	[ -1000 to 1000 / 231 / 1 ]
022				
3-623-	LD Power: Set	Mid. Speed Slope: M	ENG*	[ -1000 to 1000 / 231 / 1 ]
023				
3-623-	LD Power: Set	Mid. Speed Slope: Y	ENG*	[ -1000 to 1000 / 231 / 1 ]
024				
3-623-	LD Power: Set	Mid. Speed Offset: Bk	ENG*	[ -1000 to 1000 / -14 / 1 ]
031				
3-623-	LD Power: Set	Mid. Speed Offset: C	ENG*	[ -1000 to 1000 / -14 / 1 ]
032				
3-623-	LD Power: Set	Mid. Speed Offset: M	ENG*	[-1000 to 1000 / -14 / 1]
033				
3-623-	LD Power: Set	Mid. Speed Offset: Y	ENG*	[ -1000 to 1000 / -14 / 1 ]
034				
3-623-	LD Power: Set	Low Speed Slope: Bk	ENG*	[-1000 to 1000 / * / 1]
041				*MP C307: 144
				*MP C407: 154
3-623-	LD Power: Set	Low Speed Slope: C	ENG*	[-1000 to 1000 / * / 1]
042				*MP C307: 144
				*MP C407: 154
3-623-	LD Power: Set	Low Speed Slope: M	ENG*	[-1000 to 1000 / * / 1]

]
•
]
,
]
,
]
,
]
J
1]
,
1]
-

033				
3-624-	TC Adj. Mode: Set	Max Adj. Counts:Jobend	ENG*	[ 0 to 10 / 0 / 1 ]
034				
3-624-	TC Adj. Mode: Set	Max Adj. Counts:ACC	ENG*	[ 0 to 10 / 3 / 1 ]
035				
3-624-	TC Adj. Mode: Set	Max Adj.	ENG*	[ 0 to 10 / 3 / 1 ]
036		Counts:Initialized		
3-624-	TC Adj. Mode: Set	Max Adj. Counts:TE	ENG*	[ 0 to 10 / 1 / 1 ]
040		Check		
3-624-	TC Adj. Mode: Set	Supply Gain(Bk)	ENG*	[ 0 to 1 / 0.5 / 0.1 ]
051				
3-624-	TC Adj. Mode: Set	Supply Gain(C)	ENG*	[ 0 to 1 / 0.5 / 0.1 ]
052				
3-624-	TC Adj. Mode: Set	Supply Gain(M)	ENG*	[ 0 to 1 / 0.5 / 0.1 ]
053	TO A I' M. I. G.		ENC*	FO. 1/05/013
3-624-	TC Adj. Mode: Set	Supply Gain(Y)	ENG*	[ 0 to 1 / 0.5 / 0.1 ]
054	TC A I: Mada: Ca4	Communa Codin (DI)	ENC*	[04-1/05/01]
3-624- 061	TC Adj. Mode: Set	Consump Gain(Bk)	ENG*	[ 0 to 1 / 0.5 / 0.1 ]
3-624-	TC Adj. Mode: Set	Consump Gain(C)	ENG*	[ 0 to 1 / 0.5 / 0.1 ]
062	Te Auj. Wode. Set	Consump Gam(C)	LING	[0 to 17 0.37 0.1]
3-624-	TC Adj. Mode: Set	Consump Gain(M)	ENG*	[ 0 to 1 / 0.5 / 0.1 ]
063	101149.11040.500	Consump Gum(112)	DI VO	
3-624-	TC Adj. Mode: Set	Consump Gain(Y)	ENG*	[ 0 to 1 / 0.5 / 0.1 ]
064	-			
3-627-	ID Pattern Extraction: Set	Edge Detection Threshold:	ENG*	[ 0 to 5 / 2.5 / 0.1V ]
001		Bk		
3-627-	ID Pattern Extraction: Set	Edge Detection Threshold:	ENG*	[ 0 to 5 / 2.5 / 0.1V ]
002		С		
3-627-	ID Pattern Extraction: Set	Edge Detection Threshold:	ENG*	[ 0 to 5 / 2.5 / 0.1V ]
003		M		
3-627-	ID Pattern Extraction: Set	Edge Detection Threshold:	ENG*	[ 0 to 5 / 2.5 / 0.1V ]
004		Y		
3-627-	ID Pattern Extraction: Set	Edge Upper Limit	ENG*	[ 0 to 255 / * / 1point ]
011				*MP C307: 34
				*MP C407: 28
3-627-	ID Pattern Extraction: Set	Edge Upper Limit: Std	ENG*	[ 0 to 255 / 24 / 1point ]
012		Speed 2		

3-627- 021	ID Pattern Extraction: Set	Edge Lower Limit	ENG*	[ 0 to 255 / * / 1point ] *MP C307: 14 *MP C407: 12
3-627- 022	ID Pattern Extraction: Set	Edge Lower Limit: Std Speed 2	ENG*	[ 0 to 255 / 10 / 1point ]
3-627- 031	ID Pattern Extraction: Set	Vsg Upper Threshold	ENG*	[ 0 to 5 / 4.8 / 0.001V ]
3-627- 041	ID Pattern Extraction: Set	Vsg Lower Threshold	ENG*	[ 0 to 5 / 3 / 0.001V ]
3-628- 001	ID Pattern Timing: Set	Scan: YMCK	ENG*	[ -500 to 500 / 0 / 0.1mm ]
3-628- 002	ID Pattern Timing: Set	Detection Delay Time	ENG*	[ 0 to 2500 / 0 / 1msec ]
3-628- 003	ID Pattern Timing: Set	Delay Time	ENG*	[ 0 to 2500 / * / 1msec ] *MP C307: 701 *MP C407: 641
3-628- 004	ID Pattern Timing: Set	MUSIC Delay Time	ENG*	[ -2500 to 2500 / 150 / 1msec ]
3-628- 005	ID Pattern Timing: Set	Delay Time: Std Speed 2	ENG*	[ 0 to 2500 / 592 / 1msec ]
3-630- 001	Dev gamma: Disp/Set	Current:Bk	ENG*	[ 0.1 to 6 / 0.9 / 0.01mg/cm2/-kV ]
3-630- 002	Dev gamma: Disp/Set	Current:C	ENG*	[ 0.1 to 6 / 0.9 / 0.01mg/cm2/-kV ]
3-630- 003	Dev gamma: Disp/Set	Current:M	ENG*	[ 0.1 to 6 / 0.9 / 0.01mg/cm2/-kV ]
3-630- 004	Dev gamma: Disp/Set	Current:Y	ENG*	[ 0.1 to 6 / 0.9 / 0.01mg/cm2/-kV ]
3-630- 011	Dev gamma: Disp/Set	Target:Bk	ENG*	[ 0.5 to 2.55 / 0.9 / 0.01mg/cm2/-kV ]
3-630- 012	Dev gamma: Disp/Set	Target: C	ENG*	[ 0.5 to 2.55 / 0.9 / 0.01mg/cm2/-kV ]
3-630- 013	Dev gamma: Disp/Set	Target:M	ENG*	[ 0.5 to 2.55 / 0.9 / 0.01mg/cm2/-kV ]
3-630- 014	Dev gamma: Disp/Set	Target:Y	ENG*	[ 0.5 to 2.55 / 0.9 / 0.01mg/cm2/-kV ]
3-630- 061	Dev gamma: Disp/Set	Toner Density: Bk	ENG*	[ 0 to 25.5 / 0 / 0.1wt% ]

3-630-	Dev gamma: Disp/Set	Toner Density: C	ENG*	[ 0 to 25.5 / 0 / 0.1wt% ]
062	Dev gamma. Dispreser	Toner Bensity.	LIVO	[ 0 to 25.5 / 0 / 0.1 wt/0 ]
3-630-	Dev gamma: Disp/Set	Toner Density: M	ENG*	[ 0 to 25.5 / 0 / 0.1wt% ]
063	20 Summin 2 ropy 200	101141 2 411010) . 111		[ 0 00 2010 / 0 / 0.1110 / 0 ]
3-630-	Dev gamma: Disp/Set	Toner Density: Y	ENG*	[ 0 to 25.5 / 0 / 0.1wt% ]
064				
3-631-	Development Start	Bk	ENG*	[-300 to 300 / 0 / 1-V]
001	Vk :Display			
3-631-	Development Start	С	ENG*	[ -300 to 300 / 0 / 1-V ]
002	Vk :Display			
3-631-	Development Start	M	ENG*	[ -300 to 300 / 0 / 1-V ]
003	Vk :Display			
3-631-	Development Start	Y	ENG*	[ -300 to 300 / 0 / 1-V ]
004	Vk :Display			
3-700-	New Unit Detection	ON/OFF Setting	ENG*	[ 0 or 1 / 1 / 1 ]
001				
3-701-	Manual New Unit Set	# PCU:Bk	ENG*	[ 0 or 1 / 0 / 1 ]
002				
3-701-	Manual New Unit Set	# Dev Unit:Bk	ENG*	[ 0 or 1 / 0 / 1 ]
003				
3-701-	Manual New Unit Set	# PCU:C	ENG*	[ 0 or 1 / 0 / 1 ]
025				
3-701-	Manual New Unit Set	# Dev Unit:C	ENG*	[ 0 or 1 / 0 / 1 ]
026				
3-701-	Manual New Unit Set	# PCU:M	ENG*	[ 0 or 1 / 0 / 1 ]
048				
3-701-	Manual New Unit Set	# Dev Unit:M	ENG*	[ 0 or 1 / 0 / 1 ]
049				
3-701-	Manual New Unit Set	# PCU:Y	ENG*	[ 0 or 1 / 0 / 1 ]
071				
3-701-	Manual New Unit Set	# Dev Unit:Y	ENG*	[ 0 or 1 / 0 / 1 ]
072				
3-701-	Manual New Unit Set	# ITB Unit	ENG*	[ 0 or 1 / 0 / 1 ]
093				
3-701-	Manual New Unit Set	# ITB Cleaning Unit	ENG*	[ 0 or 1 / 0 / 1 ]
102				
3-701-	Manual New Unit Set	# PTR Unit	ENG*	[ 0 or 1 / 0 / 1 ]
109				

3-701-	Manual New Unit Set	# Fusing Unit	ENG*	[ 0 or 1 / 0 / 1 ]
115	Transact from Clift Set	" I doing oint	Live	
3-701-	Manual New Unit Set	Fusing Sleeve	ENG*	[ 0 or 1 / 0 / 1 ]
116			LIVO	[ 0 01 1 / 0 / 1 ]
3-701-	Manual New Unit Set	Pressure Roller	ENG*	[ 0 or 1 / 0 / 1 ]
118		11455414 1161141	LIVO	[ 0 01 1 / 0 / 1 ]
3-701-	Manual New Unit Set	#Waste Toner Bottle	ENG*	[ 0 or 1 / 0 / 1 ]
142				[ 0 00 0 7 0 7 0 ]
3-701-	Manual New Unit Set	Tray1 Roller Assembly	ENG*	[ 0 or 1 / 0 / 1 ]
145				,
3-701-	Manual New Unit Set	#Paper Feed Roller:Tray1	ENG*	[ 0 or 1 / 0 / 1 ]
147				
3-701-	Manual New Unit Set	#Friction Pad:Tray1	ENG*	[ 0 or 1 / 0 / 1 ]
148				,
3-701-	Manual New Unit Set	#Feed Roller:Bypass	ENG*	[ 0 or 1 / 0 / 1 ]
169				
3-701-	Manual New Unit Set	DF Friction Pad	ENG*	[ 0 or 1 / 0 / 1 ]
206				
3-701-	Manual New Unit Set	DF Pickup Roller	ENG*	[ 0 or 1 / 0 / 1 ]
207				
3-701-	Manual New Unit Set	DF Feed Roller	ENG*	[ 0 or 1 / 0 / 1 ]
208				
3-701-	Manual New Unit Set	Toner Sub Hopper:Bk	ENG*	[ 0 or 1 / 0 / 1 ]
220				
3-701-	Manual New Unit Set	Toner Sub Hopper:C	ENG*	[ 0 or 1 / 0 / 1 ]
221				
3-701-	Manual New Unit Set	Toner Sub Hopper:M	ENG*	[ 0 or 1 / 0 / 1 ]
222				
3-701-	Manual New Unit Set	Toner Sub Hopper:Y	ENG*	[ 0 or 1 / 0 / 1 ]
223				
3-710-	mu Concentration Control:	Control Method: Selection	ENG*	[ 0 or 1 / 1 / 1 ]
001	Set			0: Not Use
				1: Use
3-800-	Waste Toner Full Detection	Condition	ENG*	[ 0 to 4 / 0 / 1 ]
001				
3-800-	Waste Toner Full Detection	Print Page After Near Full	ENG*	[ 0 to 10000 / 0 / 1sheet ]
002				
3-800-	Waste Toner Full Detection	Volume Count 1 After	ENG*	[ 0 to 100000 / 0 / 0.1 ]

## 3.SP Mode Tables

003		Near Full		
3-800-	Waste Toner Full Detection	Volume Count 2 After	ENG*	[ 0 to 1000000 / 0 / 0.1 ]
005		Near Full		
3-800-	Waste Toner Full Detection	Volume Count After	ENG*	[ 0 to 1000000 / 0 / 0.1 ]
007		Replacement		
3-800-	Waste Toner Full Detection	Remaining days	ENG*	[ 0 to 255 / 15 / 1 ]
012		Threshold		
3-800-	Waste Toner Full Detection	Mechanical Full Detection	ENG*	[-/-/-]
020		Date		
3-810-	Paper Interval Ext.: Low Spd	Formula: Slope	ENG*	[ 0 to 100 / 10 / 1% ]
001				
3-810-	Paper Interval Ext.: Low Spd	Formula: Intercept	ENG*	[ -2000 to 2000 / 0 / 1% ]
002				
3-810-	Paper Interval Ext.: Low Spd	Formula: Upper Limit	ENG*	[ 100 to 2000 / 100 / 1% ]
003				

## **SP Tables - SP4-XXX**

## SP4-XXX (Scanner)

SP No.	Large Category	Small Category	ENG or	[Min to
			CTL	Max/Init./Step]
4-008-	Sub Scan Magnification		ENG*	[-1 to 1/0/0.1%]
001	Adj.			
4-010-	Sub Scan Registration		ENG*	[ -1 to 1 / 0 / 0.1mm ]
001	Adj.			
4-011-	Main Scan Registration		ENG*	[ -2 to 2 / 0 / 0.1mm ]
001	Adj.			
4-012-	Scanner Erase Margin:	Book: Sub Scan Leading Edge	ENG*	[ 0 to 3 / 1 / 0.1mm ]
001	Scale	(Left)		
4-012-	Scanner Erase Margin:	Book: Sub Scan Trailing Edge	ENG*	[ 0 to 3 / 1 / 0.1mm ]
002	Scale	(Right)		
4-012-	Scanner Erase Margin:	Book: Main Scan Leading Edge	ENG*	[ 0 to 3 / 1 / 0.1mm ]
003	Scale	(Rear)		
4-012-	Scanner Erase Margin:	Book: Main Scan Trailing Edge	ENG*	[ 0 to 3 / 1 / 0.1mm ]
004	Scale	(Front)		
4-013-	Scanner Free Run	Lamp OFF	ENG	[ 0 or 1 / 0 / 1 ]
001				
4-013-	Scanner Free Run	Lamp ON	ENG	[ 0 or 1 / 0 / 1 ]
002				
4-014-	Scan	HP Detection Enable	ENG	[ 0 or 1 / 0 / 1 ]
001				
4-014-	Scan	HP Detection Disable	ENG	[ 0 or 1 / 0 / 1 ]
002				
4-014-	Scan	HP Detec. On (FC 600dpi LG)	ENG	[ 0 or 1 / 0 / 1 ]
003				
4-014-	Scan	HP Detec. On (BW 600dpi LG)	ENG	[ 0 or 1 / 0 / 1 ]
004				
4-014-	Scan	HP Detec. On (FC 1200dpi LG)	ENG	[ 0 or 1 / 0 / 1 ]
005				
4-016-	DF Scan	FC 600 x 300dpi Duplex Mode	ENG	[ 0 or 1 / 0 / 1STEP ]
001				
4-016-	DF Scan	Bk 600 x 300dpi Duplex Mode	ENG	[ 0 or 1 / 0 / 1STEP ]
002				
4-016-	DF Scan	FC 600 x 600dpi Duplex Mode	ENG	[ 0 or 1 / 0 / 1STEP ]

003				
4-016-	DF Scan	Bk 600 x 600dpi Duplex Mode	ENG	[ 0 or 1 / 0 / 1STEP ]
004				
4-016-	DF Scan	Bk 600 x 200dpi Duplex Mode	ENG	[ 0 or 1 / 0 / 1STEP ]
005				
4-016-	DF Scan	FC 600 x 300dpi Simplex Mode	ENG	[ 0 or 1 / 0 / 1STEP ]
006				
4-016-	DF Scan	Bk 600 x 300dpi Simplex Mode	ENG	[ 0 or 1 / 0 / 1STEP ]
007				
4-016-	DF Scan	FC 600 x 600dpi Simplex Mode	ENG	[ 0 or 1 / 0 / 1STEP ]
008				
4-016-	DF Scan	Bk 600 x 600dpi Simplex Mode	ENG	[ 0 or 1 / 0 / 1STEP ]
009				
4-016-	DF Scan	Bk 600 x 200dpi Simplex Mode	ENG	[ 0 or 1 / 0 / 1STEP ]
010				
4-020-	Dust Check	Dust Detect:On/Off	ENG	[ 0 or 1 / 0 / 1 ]
001				
4-020-	Dust Check	Dust Detect:Lvl	ENG	[ 0 to 8 / 4 / 1 ]
002				
4-020-	Dust Check Lvl	Dust Reject:Lvl	ENG	[0 to 4/0/1]
003			n. c	50 4/0/43
4-020-	DF Dust Check	Dust Detect Level:Rear	ENG	[ 0 or 1 / 0 / 1 ]
011	DED (CL. 1	C t I I I I I I I I I I I I I I I I I I	ENIC	504 0/4/17
4-020- 012	DF Dust Check	Correction Level:Rear	ENG	[ 0 to 8 / 4 / 1 ]
4-400-	Cooper Erosa Marain	Dools Cub Coon Looding Edge	ENG*	[ 0 to 3 / 1 / 0.1mm ]
001	Scanner Erase Margin	Book: Sub Scan Leading Edge (Left)	ENG.	[0 to 3 / 1 / 0.1111111]
4-400-	Scanner Erase Margin	Book: Sub Scan Leading Edge	ENG*	[ 0 to 3 / 1 / 0.1mm ]
002	Scanner Erase Wargin	(Right)	LNG	[0 to 57 17 0.111111]
4-400-	Scanner Erase Margin	Book: Main Scan Leading Edge	ENG*	[ 0 to 3 / 1 / 0.1mm ]
003	Souther Brase Wargin	(Rear)	Live	
4-400-	Scanner Erase Margin	Book: Main Scan Trailing Edge	ENG*	[ 0 to 3 / 1 / 0.1mm ]
004		(Front)		
4-400-	Original Erase Margin	ADF:Sub:L-Edge	ENG*	[ 0 to 3 / 1.6 / 0.1mm ]
005				
4-400-	Original Erase Margin	ADF:Main:Edge	ENG*	[ 0 to 3 / 1.6 / 0.1mm ]
007	- -			
4-400-	Original Erase Margin	ADF:Main:T-Edge	ENG*	[ 0 to 3 / 1.6 / 0.1mm ]

008				
4-417- 001	IPU Test Pattern	Test Pattern	ENG	[ 0 to 8 / 0 / 1 ] 0: Scanned image 1: Gradation main scan A 2: Patch 16C 3: Grid pattern A 4: Slant grid pattern B 5: Slant grid pattern C 6: Slant grid pattern D 7: Scanned+Slant Grid C 8: Scanned+Slant Grid D
4-429- 001	Select Copy Data Security	Copying	ENG	[ 0 to 3 / 3 / 1 ]
4-429- 002	Select Copy Data Security	Scanning	ENG	[ 0 to 3 / 3 / 1 ]
4-429- 003	Select Copy Data Security	Fax Operation	ENG	[ 0 to 3 / 3 / 1 ]
4-460- 001	Digital AE	Low Limit Value	ENG	[ 0 to 1023 / 364 / 1 ]
4-460- 002	Digital AE	Background level	ENG*	[ 512 to 1535 / 932 / 1 ]
4-501- 001	ACC Target Den	Copy:K:Text	ENG*	[ 0 to 10 / 5 / 1 ]
4-501- 002	ACC Target Den	Copy:C:Text	ENG*	[ 0 to 10 / 5 / 1 ]
4-501- 003	ACC Target Den	Copy:M:Text	ENG*	[ 0 to 10 / 5 / 1 ]
4-501- 004	ACC Target Den	Copy:Y:Text	ENG*	[ 0 to 10 / 5 / 1 ]
4-501- 005	ACC Target Den	Copy:K:Photo	ENG*	[ 0 to 10 / 5 / 1 ]
4-501- 006	ACC Target Den	Copy:C:Photo	ENG*	[0 to 10/5/1]
4-501- 007	ACC Target Den	Copy:M:Photo	ENG*	[0 to 10/5/1]

4-501-	ACC Target Den	Copy:Y:Photo	ENG*	[ 0 to 10 / 5 / 1 ]
008				
4-505-	ACC Cor:Bright	Master:K	ENG*	[-128 to 127 / 0 / 1]
001				
4-505-	ACC Cor:Bright	Master:C	ENG*	[-128 to 127 / 0 / 1]
002				
4-505-	ACC Cor:Bright	Master:M	ENG*	[-128 to 127 / 0 / 1]
003				
4-505-	ACC Cor:Bright	Master:Y	ENG*	[-128 to 127 / 0 / 1]
004				
4-505-	ACC Cor:Bright	Slave:K	ENG*	[-128 to 127 / 0 / 1]
005				
4-505-	ACC Cor:Bright	Slave:C	ENG*	[-128 to 127 / 0 / 1]
006				
4-505-	ACC Cor:Bright	Slave:M	ENG*	[-128 to 127 / 0 / 1]
007				
4-505-	ACC Cor:Bright	Slave:Y	ENG*	[-128 to 127 / 0 / 1]
008				
4-506-	ACC Cor:Dark	Master:K	ENG*	[-128 to 127 / 0 / 1]
001				
4-506-	ACC Cor:Dark	Master:C	ENG*	[-128 to 127 / 0 / 1]
002				
4-506-	ACC Cor:Dark	Master:M	ENG*	[-128 to 127 / 0 / 1]
003				
4-506-	ACC Cor:Dark	Master:Y	ENG*	[-128 to 127 / 0 / 1]
004				
4-506-	ACC Cor:Dark	Slave:K	ENG*	[ -128 to 127 / 0 / 1 ]
005				
4-506-	ACC Cor:Dark	Slave:C	ENG*	[-128 to 127 / 0 / 1]
006				
4-506-	ACC Cor:Dark	Slave:M	ENG*	[-128 to 127 / 0 / 1]
007				
4-506-	ACC Cor:Dark	Slave:Y	ENG*	[ -128 to 127 / 0 / 1 ]
008				
4-540-	Print Coverage	RY Phase: Option	ENG	[ 0 to 255 / 0 / 1 ]
001				
4-540-	Print Coverage	RY Phase: R	ENG	[ -256 to 255 / 0 / 1 ]
002				

4-540-	Print Coverage	RY Phase: G	ENG	[ -256 to 255 / 0 / 1 ]
003				
4-540-	Print Coverage	RY Phase: B	ENG	[ -256 to 255 / 0 / 1 ]
004	n			50. 255/0/43
4-540-	Print Coverage	YR Phase: Option	ENG	[ 0 to 255 / 0 / 1 ]
005				
4-540-	Print Coverage	YR Phase: R	ENG	[ -256 to 255 / 0 / 1 ]
006				
4-540-	Print Coverage	YR Phase: G	ENG	[ -256 to 255 / 0 / 1 ]
007				
4-540-	Print Coverage	YR Phase: B	ENG	[ -256 to 255 / 0 / 1 ]
008				
4-540-	Print Coverage	YG Phase: Option	ENG	[ 0 to 255 / 0 / 1 ]
009				
4-540-	Print Coverage	YG Phase: R	ENG	[ -256 to 255 / 0 / 1 ]
010				
4-540-	Print Coverage	YG Phase: G	ENG	[ -256 to 255 / 0 / 1 ]
011				
4-540-	Print Coverage	YG Phase: B	ENG	[ -256 to 255 / 0 / 1 ]
012				
4-540-	Print Coverage	GY Phase: Option	ENG	[ 0 to 255 / 0 / 1 ]
013				
4-540-	Print Coverage	GY Phase: R	ENG	[ -256 to 255 / 0 / 1 ]
014				
4-540-	Print Coverage	GY Phase: G	ENG	[ -256 to 255 / 0 / 1 ]
015				
4-540-	Print Coverage	GY Phase: B	ENG	[ -256 to 255 / 0 / 1 ]
016				
4-540-	Print Coverage	GC Phase: Option	ENG	[ 0 to 255 / 0 / 1 ]
017				
4-540-	Print Coverage	GC Phase: R	ENG	[ -256 to 255 / 0 / 1 ]
018				
4-540-	Print Coverage	GC Phase: G	ENG	[ -256 to 255 / 0 / 1 ]
019				
4-540-	Print Coverage	GC Phase: B	ENG	[ -256 to 255 / 0 / 1 ]
020				
4-540-	Print Coverage	CG Phase: Option	ENG	[ 0 to 255 / 0 / 1 ]
021				

4-540-	Print Coverage	CG Phase: R	ENG	[ -256 to 255 / 0 / 1 ]
022				
4-540-	Print Coverage	CG Phase: G	ENG	[ -256 to 255 / 0 / 1 ]
023				
4-540-	Print Coverage	CG Phase: B	ENG	[-256 to 255 / 0 / 1 ]
024				
4-540-	Print Coverage	CB Phase: Option	ENG	[ 0 to 255 / 0 / 1 ]
025				
4-540-	Print Coverage	CB Phase: R	ENG	[ -256 to 255 / 0 / 1 ]
026				
4-540-	Print Coverage	CB Phase: G	ENG	[ -256 to 255 / 0 / 1 ]
027				
4-540-	Print Coverage	CB Phase: B	ENG	[ -256 to 255 / 0 / 1 ]
028				
4-540-	Print Coverage	BC Phase: Option	ENG	[ 0 to 255 / 0 / 1 ]
029				
4-540-	Print Coverage	BC Phase: R	ENG	[ -256 to 255 / 0 / 1 ]
030				
4-540-	Print Coverage	BC Phase: G	ENG	[ -256 to 255 / 0 / 1 ]
031				
4-540-	Print Coverage	BC Phase: B	ENG	[ -256 to 255 / 0 / 1 ]
032				
4-540-	Print Coverage	BM Phase: Option	ENG	[ 0 to 255 / 0 / 1 ]
033				
4-540-	Print Coverage	BM Phase: R	ENG	[ -256 to 255 / 0 / 1 ]
034				
4-540-	Print Coverage	BM Phase: G	ENG	[ -256 to 255 / 0 / 1 ]
035				
4-540-	Print Coverage	BM Phase: B	ENG	[ -256 to 255 / 0 / 1 ]
036	D G	LOD DI COL	ED LC	50. 057/0//
4-540-	Print Coverage	MB Phase: Option	ENG	[ 0 to 255 / 0 / 1 ]
037	D: C	LED DI D	FNG	F 2564 255 / 2 / 1 2
4-540-	Print Coverage	MB Phase: R	ENG	[ -256 to 255 / 0 / 1 ]
038	B: + C	MD NI C	ENG	F 2564 255 / 2 / 1 2
4-540-	Print Coverage	MB Phase: G	ENG	[ -256 to 255 / 0 / 1 ]
039	Duint Consequen	MD Dl D	ENC	F 256 Az 255 / 0 / 1 3
4-540-	Print Coverage	MB Phase: B	ENG	[ -256 to 255 / 0 / 1 ]
040				

4-540-	Print Coverage	MR Phase: Option	ENG	[ 0 to 255 / 0 / 1 ]
041				[ • • • = • • • • • • • • • • • • • • •
4-540-	Print Coverage	MR Phase: R	ENG	[ -256 to 255 / 0 / 1 ]
042				
4-540-	Print Coverage	MR Phase: G	ENG	[ -256 to 255 / 0 / 1 ]
043				
4-540-	Print Coverage	MR Phase: B	ENG	[ -256 to 255 / 0 / 1 ]
044				
4-540-	Print Coverage	RM Phase: Option	ENG	[ 0 to 255 / 0 / 1 ]
045				
4-540-	Print Coverage	RM Phase: R	ENG	[ -256 to 255 / 0 / 1 ]
046				
4-540-	Print Coverage	RM Phase: G	ENG	[ -256 to 255 / 0 / 1 ]
047				
4-540-	Print Coverage	RM Phase: B	ENG	[ -256 to 255 / 0 / 1 ]
048				
4-540-	Print Coverage	WHITE: Option	ENG	[ 0 to 255 / 0 / 1 ]
049				
4-540-	Print Coverage	WHITE:R	ENG	[ -256 to 255 / 0 / 1 ]
050				
4-540-	Print Coverage	WHITE:G	ENG	[ -256 to 255 / 0 / 1 ]
051				
4-540-	Print Coverage	WHITE:B	ENG	[ -256 to 255 / 0 / 1 ]
052				
4-540-	Print Coverage	BLACK: Option	ENG	[ 0 to 255 / 0 / 1 ]
053				
4-540-	Print Coverage	BLACK:R	ENG	[ -256 to 255 / 0 / 1 ]
054				
4-540-	Print Coverage	BLACK:G	ENG	[ -256 to 255 / 0 / 1 ]
055				
4-540-	Print Coverage	BLACK:B	ENG	[ -256 to 255 / 0 / 1 ]
056				
4-541-	Photo Correction	Copied Photo	ENG*	[ 0 or 1 / 0 / 1 ]
001				
4-550-	Scan Apli:Txt/Print	MTF: 0(Off) 1-15 (Weak-	ENG	[ 0 to 15 / 8 / 1 ]
005		Strong)		
4-550-	Scan Apli:Txt/Print	Smoothing: 0(x1) 1-7 (Weak-	ENG	[ 0 to 7 / 4 / 1 ]
006		Strong)		

4-550-	Scan Apli:Txt/Print	Brightness: 1-255	ENG	[ 1 to 255 / 128 / 1 ]
007	•			
4-550-	Scan Apli:Txt/Print	Contrast: 1-255	ENG	[ 1 to 255 / 128 / 1 ]
008				
4-550-	Scan Apli:Txt/Print	Ind Dot Erase: 0(Off) 1-7	ENG	[ 0 to 7 / 0 / 1 ]
009		(Weak-Strong)		
4-551-	Scan Apli:Txt	MTF: 0(Off) 1-15 (Weak-	ENG	[ 0 to 15 / 8 / 1 ]
005		Strong)		
4-551-	Scan Apli:Txt	Smoothing: 0(x1) 1-7 (Weak-	ENG	[ 0 to 7 / 4 / 1 ]
006		Strong)		
4-551-	Scan Apli:Txt	Brightness: 1-255	ENG	[ 1 to 255 / 128 / 1 ]
007				
4-551-	Scan Apli:Txt	Contrast: 1-255	ENG	[ 1 to 255 / 128 / 1 ]
008				
4-551-	Scan Apli:Txt	Ind Dot Erase: 0(Off) 1-7	ENG	[ 0 to 7 / 0 / 1 ]
009		(Weak-Strong)		
4-552-	Scan Apli:Txt Dropout	MTF: 0(Off) 1-15 (Weak-	ENG	[ 0 to 15 / 8 / 1 ]
005		Strong)		
4-552-	Scan Apli:Txt Dropout	Smoothing: 0(x1) 1-7 (Weak-	ENG	[ 0 to 7 / 4 / 1 ]
006	g	Strong)	FNIG	51. 255/120/13
4-552-	Scan Apli:Txt Dropout	Brightness: 1-255	ENG	[ 1 to 255 / 128 / 1 ]
007	G A I'T I D	C + + 1.055	ENIC	F1 + 255 / 120 / 1 1
4-552- 008	Scan Apli:Txt Dropout	Contrast: 1-255	ENG	[ 1 to 255 / 128 / 1 ]
4-552-	Scan Apli:Txt Dropout	Ind Dot Erase: 0(Off) 1-7	ENG	[ 0 to 7 / 0 / 1 ]
009	Scan April 1xt Diopout	(Weak-Strong)	ENG	
4-553-	Scan Apli:Txt/Photo	MTF: 0(Off) 1-15 (Weak-	ENG	[ 0 to 15 / 8 / 1 ]
005	Seatt Ipin 1764 note	Strong)	Live	
4-553-	Scan Apli:Txt/Photo	Smoothing: 0(x1) 1-7 (Weak-	ENG	[0 to 7/4/1]
006	r	Strong)		
4-553-	Scan Apli:Txt/Photo	Brightness: 1-255	ENG	[ 1 to 255 / 128 / 1 ]
007	_			
4-553-	Scan Apli:Txt/Photo	Contrast: 1-255	ENG	[ 1 to 255 / 128 / 1 ]
008				
4-553-	Scan Apli:Txt/Photo	Ind Dot Erase: 0(Off) 1-7	ENG	[ 0 to 7 / 0 / 1 ]
009		(Weak-Strong)		
4-554-	Scan Apli:Photo	MTF: 0(Off) 1-15 (Weak-	ENG	[ 0 to 15 / 8 / 1 ]
005		Strong)		

4-554- 006	Scan Apli:Photo	Smoothing: 0(x1) 1-7 (Weak-Strong)	ENG	[0 to 7/4/1]
4-554- 007	Scan Apli:Photo	Brightness: 1-255	ENG	[ 1 to 255 / 128 / 1 ]
4-554- 008	Scan Apli:Photo	Contrast: 1-255	ENG	[ 1 to 255 / 128 / 1 ]
4-554- 009	Scan Apli:Photo	Ind Dot Erase: 0(Off) 1-7 (Weak-Strong)	ENG	[0 to 7/0/1]
4-565- 005	Scan Apli:GrayScale	MTF: 0(Off) 1-15 (Weak-Strong)	ENG	[ 0 to 15 / 8 / 1 ]
4-565- 006	Scan Apli:GrayScale	Smoothing: 0(x1) 1-7 (Weak-Strong)	ENG	[0 to 7/4/1]
4-565- 007	Scan Apli:GrayScale	Brightness: 1-255	ENG	[ 1 to 255 / 128 / 1 ]
4-565- 008	Scan Apli:GrayScale	Contrast: 1-255	ENG	[ 1 to 255 / 128 / 1 ]
4-565- 009	Scan Apli:GrayScale	Ind Dot Erase: 0(Off) 1-7 (Weak-Strong)	ENG	[0 to 7/0/1]
4-570- 005	Scan Apli:Col Txt/Photo	MTF: 0(Off) 1-15 (Weak-Strong)	ENG	[ 0 to 15 / 8 / 1 ]
4-570- 006	Scan Apli:Col Txt/Photo	Smoothing: 0(x1) 1-7 (Weak-Strong)	ENG	[0 to 7/4/1]
4-570- 007	Scan Apli:Col Txt/Photo	Brightness: 1-255	ENG	[ 1 to 255 / 128 / 1 ]
4-570- 008	Scan Apli:Col Txt/Photo	Contrast: 1-255	ENG	[ 1 to 255 / 128 / 1 ]
4-570- 009	Scan Apli:Col Txt/Photo	Ind Dot Erase: 0(Off) 1-7 (Weak-Strong)	ENG	[0 to 7/0/1]
4-571- 005	Scan Apli:Col Gloss Photo	MTF: 0(Off) 1-15 (Weak-Strong)	ENG	[ 0 to 15 / 8 / 1 ]
4-571- 006	Scan Apli:Col Gloss Photo	Smoothing: 0(x1) 1-7 (Weak-Strong)	ENG	[0 to 7/4/1]
4-571- 007	Scan Apli:Col Gloss Photo	Brightness: 1-255	ENG	[ 1 to 255 / 128 / 1 ]
4-571- 008	Scan Apli:Col Gloss Photo	Contrast: 1-255	ENG	[ 1 to 255 / 128 / 1 ]
4-571- 009	Scan Apli:Col Gloss Photo	Ind Dot Erase: 0(Off) 1-7 (Weak-Strong)	ENG	[0 to 7/0/1]

4-572-	Scan Apli:AutoCol	MTF: 0(Off) 1-15 (Weak-	ENG	[ 0 to 15 / 8 / 1 ]
005		Strong)		
4-572-	Scan Apli:AutoCol	Smoothing: 0(x1) 1-7 (Weak-	ENG	[ 0 to 7 / 4 / 1 ]
006		Strong)		
4-572-	Scan Apli:AutoCol	Brightness: 1-255	ENG	[ 1 to 255 / 128 / 1 ]
007				
4-572-	Scan Apli:AutoCol	Contrast: 1-255	ENG	[ 1 to 255 / 128 / 1 ]
008				
4-572-	Scan Apli:AutoCol	Ind Dot Erase: 0(Off) 1-7	ENG	[ 0 to 7 / 0 / 1 ]
009		(Weak-Strong)		
4-580-	Fax Apli:Txt/Chart	MTF: 0(Off) 1-15 (Weak-	ENG	[ 0 to 15 / 8 / 1 ]
005		Strong)		
4-580-	Fax Apli:Txt/Chart	Smoothing: 0(x1) 1-7 (Weak-	ENG	[ 0 to 7 / 4 / 1 ]
006		Strong)		
4-580-	Fax Apli:Txt/Chart	Brightness: 1-255	ENG	[ 1 to 255 / 128 / 1 ]
007				
4-580-	Fax Apli:Txt/Chart	Contrast: 1-255	ENG	[ 1 to 255 / 128 / 1 ]
008				
4-580-	Fax Apli:Txt/Chart	Ind Dot Erase: 0(Off) 1-7	ENG	[ 0 to 7 / 0 / 1 ]
009		(Weak-Strong)		
4-580-	Fax Apli:Txt/Chart	Texture Erase: 0	ENG	[ 0 to 2 / 0 / 1 ]
010				
4-581-	Fax Apli:Txt	MTF: 0(Off) 1-15 (Weak-	ENG	[ 0 to 15 / 8 / 1 ]
005		Strong)		
4-581-	Fax Apli:Txt	Smoothing: 0(x1) 1-7 (Weak-	ENG	[ 0 to 7 / 4 / 1 ]
006		Strong)		
4-581-	Fax Apli:Txt	Brightness: 1-255	ENG	[ 1 to 255 / 128 / 1 ]
007				
4-581-	Fax Apli:Txt	Contrast: 1-255	ENG	[ 1 to 255 / 128 / 1 ]
008				
4-581-	Fax Apli:Txt	Ind Dot Erase: 0(Off) 1-7	ENG	[ 0 to 7 / 0 / 1 ]
009		(Weak-Strong)		
4-582-	Fax Apli:Txt/Photo	MTF: 0(Off) 1-15 (Weak-	ENG	[ 0 to 15 / 8 / 1 ]
005		Strong)		
4-582-	Fax Apli:Txt/Photo	Smoothing: 0(x1) 1-7 (Weak-	ENG	[0 to 7/4/1]
006		Strong)		
4-582-	Fax Apli:Txt/Photo	Brightness: 1-255	ENG	[ 1 to 255 / 128 / 1 ]
007				

4-582- 008	Fax Apli:Txt/Photo	Contrast: 1-255	ENG	[ 1 to 255 / 128 / 1 ]
4-582- 009	Fax Apli:Txt/Photo	Ind Dot Erase: 0(Off) 1-7 (Weak-Strong)	ENG	[0 to 7/0/1]
4-582- 010	Fax Apli:Txt/Photo	Texture Erase: 0	ENG	[0 to 2/0/1]
4-583- 005	Fax Apli:Photo	MTF: 0(Off) 1-15 (Weak-Strong)	ENG	[ 0 to 15 / 8 / 1 ]
4-583- 006	Fax Apli:Photo	Smoothing: 0(x1) 1-7 (Weak-Strong)	ENG	[ 0 to 7 / 4 / 1 ]
4-583- 007	Fax Apli:Photo	Brightness: 1-255	ENG	[ 1 to 255 / 128 / 1 ]
4-583- 008	Fax Apli:Photo	Contrast: 1-255	ENG	[ 1 to 255 / 128 / 1 ]
4-583- 009	Fax Apli:Photo	Ind Dot Erase: 0(Off) 1-7 (Weak-Strong)	ENG	[ 0 to 7 / 0 / 1 ]
4-583- 010	Fax Apli:Photo	Texture Erase: 0	ENG	[ 0 to 2 / 0 / 1 ]
4-584- 005	Fax Apli:Original 1	MTF: 0(Off) 1-15 (Weak-Strong)	ENG	[ 0 to 15 / 8 / 1 ]
4-584- 006	Fax Apli:Original 1	Smoothing: 0(x1) 1-7 (Weak-Strong)	ENG	[ 0 to 7 / 4 / 1 ]
4-584- 007	Fax Apli:Original 1	Brightness: 1-255	ENG	[ 1 to 255 / 128 / 1 ]
4-584- 008	Fax Apli:Original 1	Contrast: 1-255	ENG	[ 1 to 255 / 128 / 1 ]
4-584- 009	Fax Apli:Original 1	Ind Dot Erase: 0(Off) 1-7 (Weak-Strong)	ENG	[ 0 to 7 / 0 / 1 ]
4-585- 005	Fax Apli:Original 2	MTF: 0(Off) 1-15 (Weak-Strong)	ENG	[ 0 to 15 / 8 / 1 ]
4-585- 006	Fax Apli:Original 2	Smoothing: 0(x1) 1-7 (Weak-Strong)	ENG	[ 0 to 7 / 4 / 1 ]
4-585- 007	Fax Apli:Original 2	Brightness: 1-255	ENG	[ 1 to 255 / 128 / 1 ]
4-585- 008	Fax Apli:Original 2	Contrast: 1-255	ENG	[ 1 to 255 / 128 / 1 ]
4-585- 009	Fax Apli:Original 2	Independent Dot Erase (0)/ 1-7 (Strong)	ENG	[ 0 to 7 / 0 / 1 ]

4-600-	SCN Version Display	SCN ID	ENG	[ 0x00 to 0xFF / 0 / 1 ]
001				
4-609-	Gray Balance Set: R	Book Scan	ENG*	[ -384 to 255 / -100 /
001				1digit ]
4-609-	Gray Balance Set: R	DF Scan	ENG*	[ -384 to 255 / -100 /
002				1digit ]
4-610-	Gray Balance Set: G	Book Scan	ENG*	[ -384 to 255 / -100 /
001				1digit ]
4-610-	Gray Balance Set: G	DF Scan	ENG*	[ -384 to 255 / -100 /
002				1digit ]
4-611-	Gray Balance Set: B	Book Scan	ENG*	[ -384 to 255 / -100 /
001				1digit ]
4-611-	Gray Balance Set: B	DF Scan	ENG*	[ -384 to 255 / -100 /
002				1digit ]
4-646-	Scan Adjust Error	White level	ENG*	[ 0 to 65535 / 0 / 1 ]
001				
4-646-	Scan Adjust Error	Black level	ENG*	[ 0 to 65535 / 0 / 1 ]
002				
4-647-	Scanner Hard Error	Power-ON	ENG	[ 0 to 65535 / 0 / 1 ]
001				
4-688-	DF Density Adjustment	ARDF	ENG*	[ 80 to 120 / 100 / 1% ]
001				
4-688-	DF Density Adjustment	1-Pass	ENG*	[ 80 to 120 / 100 / 1% ]
002				
4-703-	Scan Mode Selection	Copying	ENG	[ 0 or 1 / 0 / 1 ]
001				
4-703-	Scan Mode Selection	Scanning	ENG	[ 0 or 1 / 0 / 1 ]
002				
4-712-	CIS GB Adj. Value: R		ENG*	[ -384 to 255 / -89 /
001				1digit ]
4-713-	CIS GB Adj. Value: G		ENG*	[ -384 to 255 / -76 /
001				1digit ]
4-714-	CIS GB Adj. Value: B		ENG*	[ -384 to 255 / -85 /
001				1digit ]
4-723-	OUTPUT Check	Scanner Lamp: Color	ENG	[ 0 or 1 / 0 / 1 ]
001				
4-745-	CIS Scan Adjust Error	White level	ENG	[ 0 to 65535 / 0 / 1 ]
001				

4-745-	CIS Scan Adjust Error	Black level	ENG	[ 0 to 65535 / 0 / 1 ]
002				
4-746-	CIS GB Adj Error Flag		ENG	[ 0 to 7 / 0 / 1 ]
001				
4-747-	CIS Scanner Hard Error	Power-ON	ENG	[ 0 to 65535 / 0 / 1 ]
001				
4-785-	CIS White Level Peak	Color	ENG*	[ 0 to 1024 / 707 /
001	Target			1digit ]
4-796-	Low Density Color	Front Side	ENG*	[ 0 to 3 / 0 / 1 ]
001	Correction			0: OFF
				1: WEAK
				2: MEDIUM
				3: STRONG
4-796-	Low Density Color	Rear Side	ENG*	[ 0 to 3 / 0 / 1 ]
002	Correction			0: OFF
				1: WEAK
				2: MEDIUM
				3: STRONG
4-797-	Rear Side: Digital AE	Low Limit Setting	ENG	[ 0 to 1023 / 364 / 1 ]
001				
4-797-	Rear Side: Digital AE	Background Erase Level	ENG*	[ 512 to 1535 / 932 / 1 ]
002				
4-799-	CIS Test Pattern Change		ENG	[ 0 to 255 / 0 / 1 ]
001				
4-802-	DF Shading FreeRun	Lamp OFF	ENG	[ 0 or 1 / 0 / 1 ]
001				
4-802-	DF Shading FreeRun	Lamp ON	ENG	[ 0 or 1 / 0 / 1 ]
002				
4-803-	Home Position Adj.		ENG*	[-1.5 to 1/0/0.1mm]
001				
4-804-	Home Position		ENG	[ 0 or 1 / 0 / 1 ]
001	Operation			
4-806-	Carriage Retract		ENG	[ 0 or 1 / 0 / 1 ]
001	Operation			
4-902-	Disp ACC Data	R_DATA1	ENG*	[ 0 to 255 / 0 / 1 ]
001				
4-902-	Disp ACC Data	G_DATA1	ENG*	[ 0 to 255 / 0 / 1 ]
002				

4-902-	Disp ACC Data	B_DATA1	ENG*	[ 0 to 255 / 0 / 1 ]
003				
4-902-	Disp ACC Data	R_DATA2	ENG*	[ 0 to 255 / 0 / 1 ]
004				
4-902-	Disp ACC Data	G_DATA2	ENG*	[ 0 to 255 / 0 / 1 ]
005				
4-902-	Disp ACC Data	B_DATA2	ENG*	[ 0 to 255 / 0 / 1 ]
006				
4-903-	Filter Setting	Ind Dot Erase: Text	ENG*	[ 0 to 7 / 0 / 1 ]
001				
4-903-	Filter Setting	Ind Dot Erase: Generation Copy	ENG*	[ 0 to 7 / 0 / 1 ]
002				
4-905-	Select Gradation Level		ENG*	[ 0 to 255 / 0 / 1 ]
001				
4-907-	Gamma Correction	Stamp Entry	ENG	[ 0 to 2 / 1 / 1 ]
001				
4-918-	Man Gamma Adj		ENG	[ 0 to 0 / 0 / 0 ]
009				
4-930-	Coverage Ctrl: Text	Copy: Full Color 1	ENG	[ 0 to 400 / 200 / 1 ]
001				
4-930-	Coverage Ctrl: Text	Copy: Full Color 2	ENG	[ 0 to 400 / 200 / 1 ]
002				
4-930-	Coverage Ctrl: Text	Copy: Single Color	ENG	[ 0 to 400 / 100 / 1 ]
003				
4-930-	Coverage Ctrl: Text	Copy: Color Conversion	ENG	[ 0 to 400 / 180 / 1 ]
004				
4-930-	Coverage Ctrl: Text	Coverage Ctrl OFF	ENG	[ 0 to 400 / 400 / 1 ]
005				
4-931-	Coverage Ctrl: Photo	Copy: Full Color 1	ENG	[ 0 to 400 / 240 / 1 ]
001				
4-931-	Coverage Ctrl: Photo	Copy: Full Color 2	ENG	[ 0 to 400 / 260 / 1 ]
002				
4-931-	Coverage Ctrl: Photo	Copy: Single Color	ENG	[ 0 to 400 / 100 / 1 ]
003				
4-931-	Coverage Ctrl: Photo	Copy: Color Conversion	ENG	[ 0 to 400 / 200 / 1 ]
004				
4-931-	Coverage Ctrl: Photo	Coverage Ctrl OFF	ENG	[ 0 to 400 / 400 / 1 ]
005				

4-938- 001	ACS:Edge Mask	Copy:Sub LEdge	ENG*	[ 0 to 31 / 10 / 1mm ]
4-938- 002	ACS:Edge Mask	Copy:Sub TEdge	ENG*	[ 0 to 31 / 10 / 1mm ]
4-938- 003	ACS:Edge Mask	Copy:Main LEdge	ENG*	[ 0 to 31 / 10 / 1mm ]
4-938- 004	ACS:Edge Mask	Copy:Main TEdge	ENG*	[ 0 to 31 / 10 / 1mm ]
4-938- 005	ACS:Edge Mask	Scan:Sub LEdge	ENG*	[ 0 to 31 / 15 / 1mm ]
4-938- 006	ACS:Edge Mask	Scan:Sub TEdge	ENG*	[ 0 to 31 / 15 / 1mm ]
4-938- 007	ACS:Edge Mask	Scan:Main LEdge	ENG*	[ 0 to 31 / 15 / 1mm ]
4-938- 008	ACS:Edge Mask	Scan:Main TEdge	ENG*	[ 0 to 31 / 15 / 1mm ]
4-939- 001	ACS:Color Range		ENG*	[-2 to 2/0/1]
4-954- 005	Restore Test Chart	Chromaticity Rank	ENG*	[ 0 to 255 / 0 / 1 ]
4-958- 001	Read/Restore Std: Rear	Read New Chart	ENG	[ 0 or 1 / 0 / 1 ]
4-958- 002	Read/Restore Std: Rear	Recall Prev Chart	ENG	[0 or 1/0/1]
4-958- 004	Read/Restore Std: Rear	Set Std Chart	ENG	[0 or 1/0/1]
4-958- 005	Restore Test Chart: Rear	Chromaticity Rank	ENG*	[ 0 to 255 / 0 / 1 ]
4-993- 001	High Light Correction	Sensitivity Selection	ENG	[0 to 9/4/1]
4-993- 002	High Light Correction	Range Selection	ENG	[0 to 9/4/1]
4-994- 001	Adj Txt/Photo Recog Level	High Compression PDF	ENG	[0 to 2/1/1]
4-996- 001	White Paper Detection Level		ENG	[ 0 to 6 / 3 / 1 ]

## **SP Tables - SP5-XXX**

SP5-XXX (Engine: Mode)

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
5-131-	Paper Size Type		ENG*	[ 0 to 2 / * / 1 ]
001	Selection			*NA: 1
				*EU, AA, CHN, TWN,
				KOR: 2
				0: JP
				1: NA
				2: EU/ASIA
5-186-	RK4 Pulling		ENG*	[ 0 or 1 / 0 / 1 ]
001				
5-610-	Base Gamma Ctrl	Get Factory Default	ENG	[ 0 or 1 / 0 / 1 ]
004	Pt:Execute			
5-610-	Base Gamma Ctrl	Set Factory Default	ENG	[ 0 or 1 / 0 / 1 ]
005	Pt:Execute			
5-610-	Base Gamma Ctrl	Restore Orginal Value	ENG	[ 0 or 1 / 0 / 1 ]
006	Pt:Execute			
5-611-	Toner Color in 2C	B-C	ENG	[ 0 to 128 / 100 / 1 ]
001				
5-611-	Toner Color in 2C	B-M	ENG	[ 0 to 128 / 100 / 1 ]
002				
5-611-	Toner Color in 2C	G-C	ENG	[ 0 to 128 / 100 / 1 ]
003				
5-611-	Toner Color in 2C	G-Y	ENG	[ 0 to 128 / 100 / 1 ]
004				
5-611-	Toner Color in 2C	R-M	ENG	[ 0 to 128 / 100 / 1 ]
005				
5-611-	Tonner Color in 2C	R-Y	ENG	[ 0 to 128 / 100 / 1 ]
006				
5-801-	Memory Clear	Engine	ENG	[ 0 or 1 / 0 / 1 ]
002				
5-807-	Area Selection		ENG*	[1 to 7/2/1]
001				1: Japan
				2: NA
				3: EU

				4: Taiwan
				5: Asia
				6: China
				7: Korea
5-810-	Fusing SC Reset	Fusing SC Reset	ENG	[ 0 or 1 / 0 / 1 ]
001				
5-810-	Fusing SC Reset	Hard High Temp.	ENG	[ 0 or 1 / 0 / 1 ]
002		Detection		
5-811-	Machine Serial	Display	ENG*	[ 0 to 255 / 0 / 1 ]
002				
5-894-	External Counter Option	Counter Mode Switch	ENG*	[ 0 to 2 / 0 / 1 ]
001	Set	Setting		
5-900-	Engine Log Upload	Pattern	ENG*	[ 0 to 4 / 0 / 1 ]
001				
5-900-	Engine Log Upload	Trigger	ENG*	[ 0 to 3 / 0 / 1 ]
002				
5-987-	Mech. Counter Protection	0:OFF / 1:ON	ENG*	[ 0 or 1 / 0 / 1 ]
001				
5-998-	Fusing Precedence Warm	On/Off	ENG*	[ 0 or 1 / 1 / 1 ]
001	Up			0: OFF
				1: ON

## SP5-XXX (Controller: Mode)

SP	Large Category	Small Category	ENG	[Min to Max/Init./Step]
No.			or	
			CTL	
5-	Add display language	1-8	CTL*	[ 0 to 255 / 0 / 1 ]
009-				
201				
5-	Add display language	9-16	CTL*	[ 0 to 255 / 0 / 1 ]
009-				
202				
5-	Add display language	17-24	CTL*	[ 0 to 255 / 0 / 1 ]
009-				
203				
5-	Add display language	25-32	CTL*	[ 0 to 255 / 0 / 1 ]
009-				
204				

5-	Add display language	33-40	CTL*	[ 0 to 255 / 0 / 1 ]
009-	Trad display language	33- <del>1</del> 0	CIL	[0 to 233 / 0 / 1 ]
205				
5-	Add display language	41-48	CTL*	[ 0 to 255 / 0 / 1 ]
009-	2 rad dispray ranguage	11 70		[0 to 255 / 0 / 1 ]
206				
5-	Add display language	49-56	CTL*	[ 0 to 255 / 0 / 1 ]
009-	Trad dispray ranguage			[ 0 to 200 / 0 / 1 ]
207				
5-	mm/inch Display Selection	0:mm 1:inch	CTL*	[ 0 to 1 / * / 1 ]
024-	min men Bispieg Selection	O.IIIII T.IIIOII	CIL	*NA: 1
001				*Others: 0
5-	Accounting counter	Counter Method	CTL*	[ 0 to 7 / 0 / 1 ]
045-	,			0: Developments
001				1: Prints
				2: Coverage
				7: Coverage (YMC)
5-	Paper Display	Backing Paper	CTL*	[ 0 to 1 / 0 / 1 ]
047-				0: OFF, 1:ON
001				, ,
5-	TonerRefillDetectionDisplay		CTL*	[ 0 to 1 / 0 / 1 ]
051-				_
001				
5-	Display IP address		CTL*	[0 to 1/0/1]
055-				
001				
5-	Part Replacement Alert	#PCU:Bk	CTL*	[0 to 1/0/1]
062-	Display			
002				
5-	Part Replacement Alert	#PCU:C	CTL*	[0 to 1/0/1]
062-	Display			
025				
5-	Part Replacement Alert	#PCU:M	CTL*	[ 0 to 1 / 0 / 1 ]
062-	Display			
048				
5-	Part Replacement Alert	#PCU:Y	CTL*	[0 to 1/0/1]
062-	Display			
071				
5-	Part Replacement Alert	#Image Transfer Belt Unit	CTL*	[ 0 to 1 / 0 / 1 ]
200	1	1	1	1

Part Replacement Alert   Display   Part Replacement Alert   Display   Disp	062-	Display			
062- 1099       Display       Part Replacement Alert Display       #Fusing Unit       CTL* [0 to 1/0/1]       [0 to 1/0/1]         5- 062- 105       Part Replacement Alert Display       Fusing Sleeve       CTL* [0 to 1/0/1]       [0 to 1/0/1]         5- 062- 1062- 1062- 1062- 108       Part Replacement Alert Display       #Wast Toner bottle       CTL* [0 to 1/0/1]       [0 to 1/0/1]         5- 062- 108       Part Replacement Alert Display       #Paper Feed Roller:Tray1       CTL* [0 to 1/0/1]       [0 to 1/0/1]         5- 062- 1062- 1062- 1062- 1062- 1062- 1062- 1066- 1	093				
109	5-	Part Replacement Alert	#Paper Transfer Roller Unit	CTL*	[ 0 to 1 / 0 / 1 ]
5- 062- 062- 062- 07- 063- 07- 064- 07- 066- 07- 066- 07- 066- 066- 07- 066- 07- 066- 066	062-	Display			
062- 115         Display         Fusing Sleeve         CTL* [0 to 1/0/1]         [0 to 1/0/1]           5- 062- 116         Part Replacement Alert Display         Pressure Roller         CTL* [0 to 1/0/1]         [0 to 1/0/1]           5- 062- 118         Part Replacement Alert Display         #Wast Toner bottle         CTL* [0 to 1/0/1]         [0 to 1/0/1]           5- 062- 142         Part Replacement Alert Display         #Paper Feed Roller:Tray1         CTL* [0 to 1/0/1]         [0 to 1/0/1]           5- 062- 148         Part Replacement Alert Display         #Friction Pad:Tray1         CTL* [0 to 1/0/1]         [0 to 1/0/1]           5- 062- 169         Part Replacement Alert Display         #Feed Roller:Bypass         CTL* [0 to 1/0/1]         [0 to 1/0/1]           5- 062- 169         Part Replacement Operation Type         #PCU:Bk         CTL* [0 to 1/0/1]         [0 to 1/0/1]           5- 067- 002         Part Replacement Operation Type         #PCU:C         CTL* [0 to 1/0/1]         [0 to 1/0/1]           5- 07- 07- 07- 07- 07- 07- 07- 07- 07- 07	109				
115   Serial Replacement Alert   Display   Pressure Roller   CTL*   [0 to 1/0/1]   Display   CTL*   [0 to 1/0/1]   Display   CTL*   Display   CTL*   Display	5-	Part Replacement Alert	#Fusing Unit	CTL*	[0 to 1/0/1]
5- Occupancy         Part Replacement Alert Display         Fusing Sleeve         CTL* [0 to 1/0/1]           5- Occupancy         Part Replacement Alert Display         Pressure Roller         CTL* [0 to 1/0/1]           5- Occupancy         Part Replacement Alert Display         #Wast Toner bottle         CTL* [0 to 1/0/1]           5- Occupancy         Part Replacement Alert Display         #Paper Feed Roller:Trayl         CTL* [0 to 1/0/1]           5- Occupancy         Part Replacement Alert Display         #Friction Pad:Trayl         CTL* [0 to 1/0/1]           5- Occupancy         Part Replacement Alert Display         #Feed Roller:Bypass         CTL* [0 to 1/0/1]           5- Occupancy         Part Replacement Alert Display         #Peed Roller:Bypass         CTL* [0 to 1/0/1]           5- Occupancy         Part Replacement Operation Type         #PCU:Bk         CTL* [0 to 1/0/1]           5- Occupancy         Part Replacement Operation Type         #PCU:C         CTL* [0 to 1/0/1]           5- Occupancy         Part Replacement Operation Type         #PCU:M         CTL* [0 to 1/0/1]	062-	Display			
062- 116       Display       Pressure Roller       CTL*       [0 to 1/0/1]         5- 062- 118       Part Replacement Alert Display       #Wast Toner bottle       CTL*       [0 to 1/0/1]         5- 062- 142       Part Replacement Alert Display       #Paper Feed Roller:Trayl       CTL*       [0 to 1/0/1]         5- 062- 147       Part Replacement Alert Display       #Friction Pad:Trayl       CTL*       [0 to 1/0/1]         5- 062- 148       Part Replacement Alert Display       #Feed Roller:Bypass       CTL*       [0 to 1/0/1]         5- 062- 19       Part Replacement Alert Display       #Feed Roller:Bypass       CTL*       [0 to 1/0/1]         5- 063- 0001       PM Parts Display       CTL*       [0 to 1/0/1]         5- 066- 0001       PART Replacement Operation Type       #PCU:Bk       CTL*       [0 to 1/0/1]         5- 067- 068- 069- 070       Part Replacement Operation Type       #PCU:C       CTL*       [0 to 1/0/1]	115				
116	5-	Part Replacement Alert	Fusing Sleeve	CTL*	[ 0 to 1 / 0 / 1 ]
5- Part Replacement Alert Display         Pressure Roller         CTL* [0 to 1/0/1]           5- Part Replacement Alert Display         #Wast Toner bottle         CTL* [0 to 1/0/1]           5- Part Replacement Alert Display         #Paper Feed Roller:Tray1 CTL* [0 to 1/0/1]           5- Part Replacement Alert Display         #Friction Pad:Tray1 CTL* [0 to 1/0/1]           5- Part Replacement Alert Display         #Feed Roller:Bypass         CTL* [0 to 1/0/1]           5- Part Replacement Alert Display         #Feed Roller:Bypass         CTL* [0 to 1/0/1]           5- Part Replacement Operation Type         #PCU:Bk         CTL* [0 to 1/0/1]           5- Part Replacement Operation Type         #PCU:C         CTL* [0 to 1/0/1]           5- Part Replacement Operation Type         #PCU:M         CTL* [0 to 1/0/1]	062-	Display			
062- 118         Display         #Wast Toner bottle         CTL*         [0 to 1/0/1]           5- 062- 142         Part Replacement Alert Display         #Paper Feed Roller:Trayl Paper Feed Roller:Trayl         CTL*         [0 to 1/0/1]           5- 062- 147         Part Replacement Alert Display         #Friction Pad:Trayl         CTL*         [0 to 1/0/1]           5- 062- 148         Part Replacement Alert Display         #Feed Roller:Bypass         CTL*         [0 to 1/0/1]           5- 062- 169         PM Parts Display         CTL*         [0 to 1/0/1]           5- 001         PM Parts Display         CTL*         [0 to 1/0/1]           5- 001         Part Replacement Operation Type         #PCU:Bk         CTL*         [0 to 1/0/1]           5- 067- 070         Part Replacement Operation Type         #PCU:C         CTL*         [0 to 1/0/1]           5- 070         Part Replacement Operation Type         #PCU:M         CTL*         [0 to 1/0/1]	116				
118	5-	Part Replacement Alert	Pressure Roller	CTL*	[ 0 to 1 / 0 / 1 ]
5-         Part Replacement Alert Display         #Wast Toner bottle         CTL* [0 to 1/0/1]           5-         Part Replacement Alert Display         #Paper Feed Roller:Tray1         CTL* [0 to 1/0/1]           5-         Part Replacement Alert Display         #Friction Pad:Tray1         CTL* [0 to 1/0/1]           5-         Part Replacement Alert Display         #Feed Roller:Bypass         CTL* [0 to 1/0/1]           5-         Part Replacement Operation Type         #PCU:Bk         CTL* [0 to 1/0/1]           5-         Part Replacement Operation Type         #PCU:C         CTL* [0 to 1/0/1]           5-         Part Replacement Operation Type         #PCU:M         CTL* [0 to 1/0/1]	062-	Display			
062- 142         Display         #Paper Feed Roller:Trayl         CTL*         [0 to 1/0/1]           5- 062- 147         Part Replacement Alert Display         #Friction Pad:Trayl         CTL*         [0 to 1/0/1]           5- 062- 148         Part Replacement Alert Display         #Feed Roller:Bypass         CTL*         [0 to 1/0/1]           5- 062- 169         Part Replacement Alert Display         #Feed Roller:Bypass         CTL*         [0 to 1/0/1]           5- 066- 001         PM Parts Display         CTL*         [0 to 1/0/1]           5- 07- 07- 07- 07- 07- 07- 07- 07- 07- 07	118				
142         Part Replacement Alert         #Paper Feed Roller:Tray1         CTL*         [0 to 1/0/1]           5-         Part Replacement Alert         #Friction Pad:Tray1         CTL*         [0 to 1/0/1]           5-         Part Replacement Alert         #Friction Pad:Tray1         CTL*         [0 to 1/0/1]           662-         Display         #Feed Roller:Bypass         CTL*         [0 to 1/0/1]           5-         Part Replacement Alert         #Feed Roller:Bypass         CTL*         [0 to 1/0/1]           5-         PM Parts Display         CTL*         [0 to 1/0/1]           666-         O01         **         CTL*         [0 to 1/0/1]           5-         Part Replacement Operation         #PCU:Bk         CTL*         [0 to 1/0/1]           667-         Type         **         CTL*         [0 to 1/0/1]           5-         Part Replacement Operation         #PCU:C         CTL*         [0 to 1/0/1]           667-         Type         **         **         **	5-	Part Replacement Alert	#Wast Toner bottle	CTL*	[0 to 1/0/1]
Part Replacement Alert   Display   Part Replacement Alert   Display   Part Replacement Alert   Priction Pad:Trayl   CTL*   Display   Display   Part Replacement Alert   Priction Pad:Trayl   CTL*   Display   Display   Part Replacement Alert   Preed Roller:Bypass   CTL*   Display   Display   Di	062-	Display			
062- 147         Display         #Friction Pad:Tray1         CTL* Display         [0 to 1/0/1]           5- 148         Part Replacement Alert Display         #Feed Roller:Bypass         CTL* Display         [0 to 1/0/1]           5- 169         Part Replacement Alert Display         #Feed Roller:Bypass         CTL* CTL*         [0 to 1/0/1]           5- 001         PM Parts Display         CTL* Type         [0 to 1/0/1]           5- 07- 07- 025         Part Replacement Operation Type         #PCU:C         CTL* CTL*         [0 to 1/0/1]           5- 067- 025         Part Replacement Operation Type         #PCU:M         CTL* CTL*         [0 to 1/0/1]	142				
147	5-	Part Replacement Alert	#Paper Feed Roller:Tray1	CTL*	[0 to 1/0/1]
5-         Part Replacement Alert Display         #Friction Pad:Tray1         CTL*         [0 to 1/0/1]           5-         Display         #Feed Roller:Bypass         CTL*         [0 to 1/0/1]           5-         Display         CTL*         [0 to 1/0/1]           5-         PM Parts Display         CTL*         [0 to 1/0/1]           66-         O01         **PCU:Bk         CTL*         [0 to 1/0/1]           5-         Part Replacement Operation Type         **PCU:C         CTL*         [0 to 1/0/1]           67-         Type         **CTL*         [0 to 1/0/1]           5-         Part Replacement Operation Type         **PCU:M         CTL*         [0 to 1/0/1]           5-         Part Replacement Operation Type         **PCU:M         CTL*         [0 to 1/0/1]	062-	Display			
062- 148         Display         #Feed Roller:Bypass         CTL*         [0 to 1/0/1]           5- 062- 169         Part Replacement Alert Display         #Feed Roller:Bypass         CTL*         [0 to 1/0/1]           5- 066- 001         PM Parts Display         CTL*         [0 to 1/0/1]           5- 002         Part Replacement Operation Type         #PCU:Bk         CTL*         [0 to 1/0/1]           5- 067- 025         Part Replacement Operation Type         #PCU:C         CTL*         [0 to 1/0/1]           5- 067- 17ype         Part Replacement Operation Type         #PCU:M         CTL*         [0 to 1/0/1]	147				
148       Part Replacement Alert       #Feed Roller:Bypass       CTL* [0 to 1/0/1]         662- Display       Display       CTL* [0 to 1/0/1]         5- PM Parts Display       CTL* [0 to 1/0/1]         666- 001       Part Replacement Operation       #PCU:Bk       CTL* [0 to 1/0/1]         7- Type       Part Replacement Operation       PCU:C       CTL* [0 to 1/0/1]         7- Type       Part Replacement Operation       PCU:M       CTL* [0 to 1/0/1]         7- Part Replacement Operation       PCU:M       CTL* [0 to 1/0/1]	5-	Part Replacement Alert	#Friction Pad:Tray1	CTL*	[ 0 to 1 / 0 / 1 ]
5-         Part Replacement Alert         #Feed Roller:Bypass         CTL*         [ 0 to 1/0/1 ]           662-         Display         CTL*         [ 0 to 1/0/1 ]           5-         PM Parts Display         CTL*         [ 0 to 1/0/1 ]           66-         001         #PCU:Bk         CTL*         [ 0 to 1/0/1 ]           667-         Type         #PCU:C         CTL*         [ 0 to 1/0/1 ]           5-         Part Replacement Operation         #PCU:C         CTL*         [ 0 to 1/0/1 ]           667-         Type         #PCU:M         CTL*         [ 0 to 1/0/1 ]	062-	Display			
062- 169         Display         CTL*         [ 0 to 1/0/1 ]           5- 001         PM Parts Display         CTL*         [ 0 to 1/0/1 ]           5- 001         Part Replacement Operation Type         #PCU:Bk         CTL*         [ 0 to 1/0/1 ]           5- 067- 002         Part Replacement Operation Type         #PCU:C         CTL*         [ 0 to 1/0/1 ]           5- 067- 025         Part Replacement Operation Type         #PCU:M         CTL*         [ 0 to 1/0/1 ]	148				
169       PM Parts Display       CTL*       [ 0 to 1/0/1 ]         5-       Part Replacement Operation       #PCU:Bk       CTL*       [ 0 to 1/0/1 ]         5-       Part Replacement Operation       #PCU:C       CTL*       [ 0 to 1/0/1 ]         5-       Part Replacement Operation       #PCU:C       CTL*       [ 0 to 1/0/1 ]         5-       Part Replacement Operation       #PCU:M       CTL*       [ 0 to 1/0/1 ]         067-       Type       Type       Type	5-	Part Replacement Alert	#Feed Roller:Bypass	CTL*	[ 0 to 1 / 0 / 1 ]
5-         PM Parts Display         CTL*         [ 0 to 1/0/1 ]           66-         001         Fart Replacement Operation         #PCU:Bk         CTL*         [ 0 to 1/0/1 ]           5-         Part Replacement Operation         #PCU:C         CTL*         [ 0 to 1/0/1 ]           667-         Type         CTL*         [ 0 to 1/0/1 ]           5-         Part Replacement Operation         #PCU:M         CTL*         [ 0 to 1/0/1 ]           7-         Type         CTL*         [ 0 to 1/0/1 ]	062-	Display			
066- 001       Part Replacement Operation       #PCU:Bk       CTL* [0 to 1/0/1]         5- 002       Part Replacement Operation       #PCU:C       CTL* [0 to 1/0/1]         5- 025       Part Replacement Operation       #PCU:C       CTL* [0 to 1/0/1]         5- 025       Part Replacement Operation       #PCU:M       CTL* [0 to 1/0/1]         5- 067- 067- Type       Type       CTL*       [0 to 1/0/1]	169				
001         Part Replacement Operation         #PCU:Bk         CTL*         [ 0 to 1/0/1 ]           067- Type         Type         CTL*         [ 0 to 1/0/1 ]           5- Part Replacement Operation         #PCU:C         CTL*         [ 0 to 1/0/1 ]           067- Type         CTL*         [ 0 to 1/0/1 ]           5- Part Replacement Operation         #PCU:M         CTL*         [ 0 to 1/0/1 ]           067- Type         Type         CTL*         [ 0 to 1/0/1 ]	5-	PM Parts Display		CTL*	[ 0 to 1 / 0 / 1 ]
5-         Part Replacement Operation         #PCU:Bk         CTL*         [ 0 to 1/0/1 ]           067-         Type         CTL*         [ 0 to 1/0/1 ]           5-         Part Replacement Operation         #PCU:C         CTL*         [ 0 to 1/0/1 ]           067-         Type         CTL*         [ 0 to 1/0/1 ]           5-         Part Replacement Operation         #PCU:M         CTL*         [ 0 to 1/0/1 ]           067-         Type         CTL*         [ 0 to 1/0/1 ]	066-				
067- 002       Type       Type       CTL*       [ 0 to 1/0/1 ]         5- 067- 025       Part Replacement Operation 25       #PCU:C       CTL*       [ 0 to 1/0/1 ]         5- 067- 1ype       Part Replacement Operation 25       #PCU:M       CTL*       [ 0 to 1/0/1 ]	001				
002       9       Formula (a)       CTL*       [ 0 to 1/0/1 ]         5-       Part Replacement Operation (Operation Decretion)       PCU:M       CTL*       [ 0 to 1/0/1 ]         5-       Part Replacement Operation (Operation)       PCU:M       CTL*       [ 0 to 1/0/1 ]         067-       Type       Type	5-	Part Replacement Operation	#PCU:Bk	CTL*	[0 to 1/0/1]
5-         Part Replacement Operation         #PCU:C         CTL*         [ 0 to 1/0/1 ]           067-         Type         CTL*         [ 0 to 1/0/1 ]           5-         Part Replacement Operation         #PCU:M         CTL*         [ 0 to 1/0/1 ]           067-         Type         CTL*         [ 0 to 1/0/1 ]	067-	Туре			
067-       Type         025       Type         5-       Part Replacement Operation       #PCU:M         CTL*       [ 0 to 1/0/1 ]         067-       Type	002				
025         Fart Replacement Operation         #PCU:M         CTL*         [ 0 to 1/0/1 ]           067-         Type         Type         Type	5-	Part Replacement Operation	#PCU:C	CTL*	[0 to 1/0/1]
5- Part Replacement Operation #PCU:M CTL* [ 0 to 1/0/1 ] 067- Type	067-	Туре			
067- Type	025				
067- Type	5-	Part Replacement Operation	#PCU:M	CTL*	[ 0 to 1 / 0 / 1 ]
	067-				
	048				

				1
5-	Part Replacement Operation	#PCU:Y	CTL*	[ 0 to 1 / 0 / 1 ]
067-	Туре			
071				
5-	Part Replacement Operation	#Image Transfer Belt Unit	CTL*	[ 0 to 1 / 0 / 1 ]
067-	Туре			
093				
5-	Part Replacement Operation	#Paper Transfer Roller Unit	CTL*	[ 0 to 1 / 0 / 1 ]
067-	Туре			
109				
5-	Part Replacement Operation	#Fusing Unit	CTL*	[ 0 to 1 / 0 / 1 ]
067-	Туре			
115				
5-	Part Replacement Operation	Fusing Sleeve	CTL*	[ 0 to 1 / 0 / 1 ]
067-	Туре			
116				
5-	Part Replacement Operation	Pressure Roller	CTL*	[0 to 1/0/1]
067-	Type			
118	31			
5-	Part Replacement Operation	#Wast Toner bottle	CTL*	[ 0 to 1 / 0 / 1 ]
067-	Туре			[ • •• • • • • • ]
142	-797			
5-	Part Replacement Operation	#Paper Feed Roller:Tray1	CTL*	[ 0 to 1 / 0 / 1 ]
067-	Type	with the second		
147	1,100			
5-	Part Replacement Operation	#Friction Pad:Tray1	CTL*	[0 to 1/0/1]
067-	Type	#1 fletion f ad. fray f	CIL	
148	Турс			
5-	Part Replacement Operation	#Feed Roller:Bypass	CTL*	[ 0 to 1 / 0 / 1 ]
067-	Type	m coa Ronor. Dypass		
169	Турс			
5-	Set Bypass Paper Size Display		CTL*	[ 0 to 1 / 0 / 1 ]
071-	Set Dypass Faper Size Display		CIL.	
				0: Disable, 1: Enable
001	H K C	Ii- C-44i	CTI 4	[ 0 to 255 / 0 / 1 ]
5-	Home Key Customization	Login Setting	CTL*	[ 0 to 255 / 0 / 1 ]
074-				
002		~	1 :	
5-	Home Key Customization	Show Home Edit Menu	CTL*	[0 to 2/0/1]
074-				
050				

5-	Home Key Customization	Function Setting	CTL*	[ 0 to 2 / 0 / 1 ]
074-		T unit work s twing	012	
091				
5-	Home Key Customization	Product ID	CTL*	[ 0 to 0xffffffff / 0 / 1 ]
074-		1104,001	012	
092				
5-	Home Key Customization	Application Screen ID	CTL*	[ 0 to 255 / 0 / 1 ]
074-		7-		[ • • • • • • • • ]
093				
5-	USB Keyboard	Display setting	CTL*	[ 0 to 1 / 0 / 1 ]
075-	.,	ar ay and g		
003				
5-	Copy:LT/LG Mixed Sizes	0:OFF 1:ON	CTL*	[ 0 to 1 / * / 1 ]
076-	Setting			*NA: 1
001	•			*Others: 0
5-	ServiceSP Entry Code Setting		CTL*	[0 to 0 / 0 / 0]
081-				DFU
001				
5-	LED Light Switch Setting	Toner Near End	CTL*	[0 to 1/0/1]
083-				
001				
5-	LED Light Switch Setting	Waste Toner Near End	CTL*	[ 0 to 1 / 0 / 1 ]
083-				
002				
5-	Copy Auto Clear Setting	Auto Clear Timer Setting (0:ON	CTL*	[ 0 to 1 / 0 / 1 ]
101-		1:OFF)		
202				
5-	Optional Counter Type	Default Optional Counter Type	CTL*	[ 0 to 8 / 0 / 1 ]
113-				0: None, 1: Key card (RK
001				3, 4)
				2: Key card (down), 3:
				Prepaid card
				4: Coin lock, 5: MF key
				card
				8: Key counter + Vendor
				9: Bar-code Printer
5-	Optional Counter Type	External Optional Counter Type	CTL*	[ 0 to 3 / 0 / 1 ]
113-				0: None
002				1: Expansion Device 1

				2: Expansion Device 2
				3: Expansion Device 3
5-	Optional Counter I/F	MF Key Card Extension	CTL*	[ 0 to 1 / 0 / 1 ]
114-	Optional Counter 1/1	Wil Key Cald Extension	CIL	0: Not installed / 1:
001				
001				Installed (scanning accounting)
-	D'-11 C '		CTI *	<i>C</i> ,
5-	Disable Copying		CTL*	[0 to 1/0/1]
118-				0: Enabled, 1: Disabled
001	14 1 GL 0 1 G	0.17. 1.0. 10. 0.17	COTT to	50.00/0/17
5-	Mode Clear Opt. Counter	0:Yes 1:StandBy 2:No	CTL*	[0 to 2/0/1]
120-	Removal			
001				
5-	Counter Up Timing	0:Feed 1:Exit	CTL*	[0 to 1/0/1]
121-				
001				
5-	APS OFF Mode		CTL*	[ 0 to 1 / 0 / 1 ]
127-				0: Not disabled 1:
001				Disabled
5-	Code Mode With Key/Card		CTL*	[ 0 to 1 / 0 / 1 ]
128-	Option			0: not used in
001				combination
				1: used in combination
5-	Fax Printing Mode at Optional		CTL*	[ 0 to 1 / 0 / 1 ]
167-	Counter Off			0: Automatic printing
001				1: No automatic printing
5-	CE Login		CTL*	[ 0 to 1 / 0 / 1 ]
169-				0: Disabled
001				1: Enabled
5-	Copy Nv Version		CTL*	[0 to 0/0/0]
188-				
001				
5-	Mode Set	Power Str Set	CTL*	[ 0 to 1 / 1 / 1 ]
191-				
001				
5-	Limitless SW		CTL*	[ 0 to 1 / 0 / 1 ]
195-				0: Productivity Precede
001				1: Use paper up
5-	Page Numbering	Duplex Printout Left/Right	CTL*	[-10 to 10 / 0 / 0.01mm]
212-		Position of Left/Right Facing		
204	<u> </u>	1		1

003				
5-	Page Numbering	Duplex Printout Top/Bottom	CTL*	[ -10 to 10 / 0 / 0.01mm ]
212-		Position of Left/Right Facing		
004				
5-	Page Numbering	Duplex Printout Left/Right	CTL*	[-10 to 10 / 0 / 0.01mm]
212-		Position of Top/Bottom Facing		
018				
5-	Page Numbering	Duplex Printout Top/Bottom	CTL*	[-10 to 10 / 0 / 0.01mm]
212-		Position of Top/Bottom Facing		
019				
5-	Page Numbering	Allow Page No. Entry	CTL*	[2 to 9/9/1]
227-				
201				
5-	Page Numbering	Zero Surplus Setting	CTL*	[ 0 to 1 / 0 / 1 ]
227-				
202				
5-	Set Time	Time Difference	CTL*	[-1440 to 1440/*/1]
302-				*NA: -300
002				*EU: 60
				*AA, CHN, TWN: 480
5-	Auto Off Set	Auto Off Limit Set	CTL*	[ 0 to 1 / 0 / 1 ]
305-				
101				
5-	Daylight Saving Time	Setting	CTL*	[ 0 to 1 / * / 1 ]
307-				*NA, EU: 1
001				*AA, CHN, TWN: 0
5-	Daylight Saving Time	Rule Set(Start)	CTL*	[ 0 to 0xffffffff / * / 1 ]
307-				*NA: 0x03200210
003				*EU: 0x03500010
				*AA: 0x10500010
				*CHN, TWN: 0
5-	Daylight Saving Time	Rule Set(End)	CTL*	[ 0 to 0xffffffff / 0 / 1 ]
307-				*NA: 0x11100200
004				*EU: 0x10500100
				*AA: 0x03100000
				*CHN, TWN: 0
5-	Access Control	Default Document ACL	CTL*	[ 0 to 3 / 0 / 1 ]
401-				
103				205

	T			T
5-	Access Control	Authentication Time	CTL*	[ 0 to 255 / 0 / 1sec ]
401-				
104				
5-	Access Control	Extend Certification Detail	CTL*	[ 0 to 0xff / 0 / 1 ]
401-				
162				
5-	Access Control	SDK1 UniqueID	CTL*	[ 0 to 0xFFFFFFFF / 0 /
401-				1]
200				
5-	Access Control	SDK1 Certification Method	CTL*	[ 0 to 0xFF / 0 / 1 ]
401-				
201				
5-	Access Control	SDK2 UniqueID	CTL*	[ 0 to 0xFFFFFFFF / 0 /
401-				1]
210				
5-	Access Control	SDK2 Certification Method	CTL*	[ 0 to 0xFF / 0 / 1 ]
401-				
211				
5-	Access Control	SDK3 UniqueID	CTL*	[ 0 to 0xFFFFFFFF / 0 /
401-				1]
220				
5-	Access Control	SDK3 Certification Method	CTL*	[ 0 to 0xFF / 0 / 1 ]
401-				
221				
5-	Access Control	SDK Certification Device	CTL*	[ 0 to 0xff / 0 / 1 ]
401-				
230				
5-	Access Control	Detail Option	CTL*	[ 0 to 0xff / 0 / 1 ]
401-				
240				
5-	Access Control	SDKJ1 Limit Setting	CTL*	[ 0 to 0xFF / 0 / 1 ]
402-				
101				
5-	Access Control	SDKJ2 Limit Setting	CTL*	[ 0 to 0xFF / 0 / 1 ]
402-				
102				
5-	Access Control	SDKJ3 Limit Setting	CTL*	[ 0 to 0xFF / 0 / 1 ]
402-				
103				
206	1	L		

5-	Access Control	SDKJ4 Limit Setting	CTL*	[ 0 to 0xFF / 0 / 1 ]
402-		2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -		[ • • • • • • • • • ]
104				
5-	Access Control	SDKJ5 Limit Setting	CTL*	[ 0 to 0xFF / 0 / 1 ]
402-		_		
105				
5-	Access Control	SDKJ6 Limit Setting	CTL*	[ 0 to 0xFF / 0 / 1 ]
402-				
106				
5-	Access Control	SDKJ7 Limit Setting	CTL*	[ 0 to 0xFF / 0 / 1 ]
402-				
107				
5-	Access Control	SDKJ8 Limit Setting	CTL*	[ 0 to 0xFF / 0 / 1 ]
402-				
108				
5-	Access Control	SDKJ9 Limit Setting	CTL*	[ 0 to 0xFF / 0 / 1 ]
402-				
109				
5-	Access Control	SDKJ10 Limit Setting	CTL*	[ 0 to 0xFF / 0 / 1 ]
402-				
110				
5-	Access Control	SDKJ11 Limit Setting	CTL*	[ 0 to 0xFF / 0 / 1 ]
402-				
111				
5-	Access Control	SDKJ12 Limit Setting	CTL*	[ 0 to 0xFF / 0 / 1 ]
402-				
112				
5-	Access Control	SDKJ13 Limit Setting	CTL*	[ 0 to 0xFF / 0 / 1 ]
402-				
113			GMT 1	50 0 77 /0 /47
5-	Access Control	SDKJ14 Limit Setting	CTL*	[ 0 to 0xFF / 0 / 1 ]
402-				
114	A	ODWING IT TO GOT	COTT :	104 0 FF /0/17
5-	Access Control	SDKJ15 Limit Setting	CTL*	[ 0 to 0xFF / 0 / 1 ]
402-				
115	A	ODWING IT TO GOT	COTT -	104 0 FF /0/17
5-	Access Control	SDKJ16 Limit Setting	CTL*	[ 0 to 0xFF / 0 / 1 ]
402-				
116				207

5-	Access Control	SDKJ17 Limit Setting	CTL*	[ 0 to 0xFF / 0 / 1 ]
402-	Ticous Control	SDIWIT Emine Setting	CIE	
117				
5-	Access Control	SDKJ18 Limit Setting	CTL*	[ 0 to 0xFF / 0 / 1 ]
402-		2-2-0		[ • • • • • • • • ]
118				
5-	Access Control	SDKJ19 Limit Setting	CTL*	[ 0 to 0xFF / 0 / 1 ]
402-		SSIN IS SIMIN SOMING		
119				
5-	Access Control	SDKJ20 Limit Setting	CTL*	[ 0 to 0xFF / 0 / 1 ]
402-		55120 <b>2</b> 0 2111110 5 <b>00</b> 11115	012	
120				
5-	Access Control	SDKJ21 Limit Setting	CTL*	[ 0 to 0xFF / 0 / 1 ]
402-		2-3-2		[ • • • • • • • • • ]
121				
5-	Access Control	SDKJ22 Limit Setting	CTL*	[ 0 to 0xFF / 0 / 1 ]
402-		2-3-2-3-3-4		[ • • • • • • • • ]
122				
5-	Access Control	SDKJ23 Limit Setting	CTL*	[ 0 to 0xFF / 0 / 1 ]
402-		2-3-2 3-3-3-3-3-8		
123				
5-	Access Control	SDKJ24 Limit Setting	CTL*	[ 0 to 0xFF / 0 / 1 ]
402-				
124				
5-	Access Control	SDKJ25 Limit Setting	CTL*	[ 0 to 0xFF / 0 / 1 ]
402-				
125				
5-	Access Control	SDKJ26 Limit Setting	CTL*	[ 0 to 0xFF / 0 / 1 ]
402-				
126				
5-	Access Control	SDKJ27 Limit Setting	CTL*	[ 0 to 0xFF / 0 / 1 ]
402-				
127				
5-	Access Control	SDKJ28 Limit Setting	CTL*	[ 0 to 0xFF / 0 / 1 ]
402-				
128				
5-	Access Control	SDKJ29 Limit Setting	CTL*	[ 0 to 0xFF / 0 / 1 ]
402-				
129				
208		1	1	

5-	Access Control	SDKJ30 Limit Setting	CTL*	[ 0 to 0xFF / 0 / 1 ]
402-				
130				
5-	Access Control	SDKJ1 ProductID	CTL*	[ 0 to 0xffffffff / 0 / 1 ]
402-				
141				
5-	Access Control	SDKJ2 ProductID	CTL*	[ 0 to 0xffffffff / 0 / 1 ]
402-				
142				
5-	Access Control	SDKJ3 ProductID	CTL*	[ 0 to 0xffffffff / 0 / 1 ]
402-				
143				
5-	Access Control	SDKJ4 ProductID	CTL*	[ 0 to 0xffffffff / 0 / 1 ]
402-				
144				
5-	Access Control	SDKJ5 ProductID	CTL*	[ 0 to 0xffffffff / 0 / 1 ]
402-				
145				
5-	Access Control	SDKJ6 ProductID	CTL*	[ 0 to 0xffffffff / 0 / 1 ]
402-				
146				
5-	Access Control	SDKJ7 ProductID	CTL*	[ 0 to 0xffffffff / 0 / 1 ]
402-				
147				
5-	Access Control	SDKJ8 ProductID	CTL*	[ 0 to 0xffffffff / 0 / 1 ]
402-				
148				
5-	Access Control	SDKJ9 ProductID	CTL*	[ 0 to 0xffffffff / 0 / 1 ]
402-				
149				
5-	Access Control	SDKJ10 ProductID	CTL*	[ 0 to 0xffffffff / 0 / 1 ]
402-				
150				
5-	Access Control	SDKJ11 ProductID	CTL*	[ 0 to 0xffffffff / 0 / 1 ]
402-				
151				
5-	Access Control	SDKJ12 ProductID	CTL*	[ 0 to 0xffffffff / 0 / 1 ]
402-				
152				

5- Access Control	SDKJ13 ProductID	CTL*	[ 0 to 0xffffffff / 0 / 1 ]
402-		•	[ ( ) ( ) ( ) ( ) ( ) ( ) ( )
153			
5- Access Control	SDKJ14 ProductID	CTL*	[ 0 to 0xffffffff / 0 / 1 ]
402-			
154			
5- Access Control	SDKJ15 ProductID	CTL*	[ 0 to 0xffffffff / 0 / 1 ]
402-			
155			
5- Access Control	SDKJ16 ProductID	CTL*	[ 0 to 0xffffffff / 0 / 1 ]
402-			
156			
5- Access Control	SDKJ17 ProductID	CTL*	[ 0 to 0xffffffff / 0 / 1 ]
402-			
157			
5- Access Control	SDKJ18 ProductID	CTL*	[ 0 to 0xffffffff / 0 / 1 ]
402-			
158			
5- Access Control	SDKJ19 ProductID	CTL*	[ 0 to 0xffffffff / 0 / 1 ]
402-			
159			
5- Access Control	SDKJ20 ProductID	CTL*	[ 0 to 0xffffffff / 0 / 1 ]
402-			
160			
5- Access Control	SDKJ21 ProductID	CTL*	[ 0 to 0xffffffff / 0 / 1 ]
402-			
161			
5- Access Control	SDKJ22 ProductID	CTL*	[ 0 to 0xffffffff / 0 / 1 ]
402-			
162			
5- Access Control	SDKJ23 ProductID	CTL*	[ 0 to 0xffffffff / 0 / 1 ]
402-			
163			
5- Access Control	SDKJ24 ProductID	CTL*	[ 0 to 0xffffffff / 0 / 1 ]
402-			
164			
5- Access Control	SDKJ25 ProductID	CTL*	[ 0 to 0xffffffff / 0 / 1 ]
402-			
165			

5-	Access Control	SDKJ26 ProductID	CTL*	[ 0 to 0xffffffff / 0 / 1 ]
402-				
166				
5-	Access Control	SDKJ27 ProductID	CTL*	[ 0 to 0xffffffff / 0 / 1 ]
402-				
167				
5-	Access Control	SDKJ28 ProductID	CTL*	[ 0 to 0xffffffff / 0 / 1 ]
402-				
168				
5-	Access Control	SDKJ29 ProductID	CTL*	[ 0 to 0xffffffff / 0 / 1 ]
402-				
169				
5-	Access Control	SDKJ30 ProductID	CTL*	[ 0 to 0xffffffff / 0 / 1 ]
402-				
170				
5-	User Code Count Clear	User Code Count Clear	CTL*	[ 0 to 0 / 0 / 0 ]
404-				
001				
5-	User Code Count Clear	User Code Count Clear Permit	CTL*	[ 0 to 1 / 0 / 1 ]
404-		Setting		
101				
5-	LDAP-Certification	Simplified Authentication	CTL*	[ 0 to 1 / 1 / 1 ]
411-				1: On, 0: Off
004				
5-	LDAP-Certification	Password Null Not Permit	CTL*	[ 0 to 1 / 1 / 1 ]
411-				0: Password NULL not
005				permitted.
				1: Password NULL
				permitted.
5-	LDAP-Certification	Detail Option	CTL*	[ 0 to 0xff / 0 / 1 ]
411-				
006				
5-	Krb-Certification	Encrypt Mode	CTL*	[ 0 to 0xFF / 0x1F / 1 ]
412-				
100				
5-	Lockout Setting	Lockout On/Off	CTL*	[0 to 1/0/1]
413-				0: Off, 1: On
001				
5-	Lockout Setting	Lockout Threshold	CTL*	[1 to 10 / 5 / 1]

413-				
002				
5-	Lockout Setting	Cancelation On/Off	CTL*	[ 0 to 1 / 0 / 1 ]
413-				0: Off, 1: On
003				,
5-	Lockout Setting	Cancelation Time	CTL*	[ 1 to 9999 / 60 / 1min ]
413-	_			
004				
5-	Access Mitigation	Mitigation On/Off	CTL*	[0 to 1/0/1]
414-				0: Off, 1: On
001				
5-	Access Mitigation	Mitigation Time	CTL*	[ 0 to 60 / 15 / 1min ]
414-				
002				
5-	Password Attack	Permissible Number	CTL*	[ 0 to 100 / 30 / 1 ]
415-				
001				
5-	Password Attack	Detect Time	CTL*	[ 1 to 10 / 5 / 1 ]
415-				
002				
5-	Access Information	Access User Max Num	CTL*	[ 50 to 200 / 200 / 1 ]
416-				
001				
5-	Access Information	Access Password Max Num	CTL*	[ 50 to 200 / 200 / 1 ]
416-				
002				
5-	Access Information	Monitor Interval	CTL*	[ 1 to 10 / 3 / 1 ]
416-				
003				
5-	Access Attack	Access Permissible Number	CTL*	[ 0 to 500 / 100 / 1 ]
417-				
001				
5-	Access Attack	Attack Detect Time	CTL*	[ 10 to 30 / 10 / 1sec ]
417-				
002				
5-	Access Attack	Productivity Fall Waite	CTL*	[ 0 to 9 / 3 / 1sec ]
417-				
003				

5-	Access Attack	Attack Max Num	CTL*	[ 50 to 200 / 200 / 1 ]
417-				
004				
5-	User Authentication	Сору	CTL*	[ 0 to 1 / 0 / 1 ]
420-				0: On, 1: Off
001				
5-	User Authentication	Color Security Setting	CTL*	[ 0 to 255 / 0 / 1 ]
420-				
002				
5-	User Authentication	DocumentServer	CTL*	[ 0 to 1 / 0 / 1 ]
420-				0: On, 1: Off
011				
5-	User Authentication	Fax	CTL*	[ 0 to 1 / 0 / 1 ]
420-				0: On, 1: Off
021				
5-	User Authentication	Scanner	CTL*	[ 0 to 1 / 0 / 1 ]
420-				0: On, 1: Off
031				
5-	User Authentication	Printer	CTL*	[ 0 to 1 / 0 / 1 ]
420-				0: On, 1: Off
041				
5-	User Authentication	SDK1	CTL*	[ 0 to 1 / 0 / 1 ]
420-				0: On, 1: Off
051				
5-	User Authentication	SDK2	CTL*	[ 0 to 1 / 0 / 1 ]
420-				0: On, 1: Off
061				
5-	User Authentication	SDK3	CTL*	[ 0 to 1 / 0 / 1 ]
420-				0: On, 1: Off
071				
5-	User Authentication	Browser	CTL*	[ 0 to 1 / 0 / 1 ]
420-				
081				
5-	Auth Dialog Message Change	Message Change On/Off	CTL*	[ 0 to 1 / 0 / 1 ]
430-				0: Off, 1: On
001				
5-	Auth Dialog Message Change	Message Text Download	CTL	[ 0 to 0 / 0 / 0 ]
430-				
002				

5-       Auth Dialog Message Change       Message Text ID       CTL       [ 0 to 0/0/0 ]         430-       003       CTL*       [ 0 to 1/1/1 ]         5-       External Auth User Preset       Tag       CTL*       [ 0 to 1/1/1 ]         5-       External Auth User Preset       Entry       CTL*       [ 0 to 1/1/1 ]         5-       External Auth User Preset       Group       CTL*       [ 0 to 1/1/1 ]         431-       012       CTL*       [ 0 to 1/1/1 ]         5-       External Auth User Preset       Mail       CTL*       [ 0 to 1/1/1 ]
5-       External Auth User Preset       Tag       CTL*       [ 0 to 1/1/1 ]         431-       010       CTL*       [ 0 to 1/1/1 ]         5-       External Auth User Preset       Entry       CTL*       [ 0 to 1/1/1 ]         5-       External Auth User Preset       Group       CTL*       [ 0 to 1/1/1 ]         431-       012       012       014
431- 010  5- External Auth User Preset Entry  CTL* [0 to 1/1/1]  5- External Auth User Preset Group  CTL* [0 to 1/1/1]
010       5-       External Auth User Preset       Entry       CTL*       [ 0 to 1/1/1 ]         431-       011       CTL*       [ 0 to 1/1/1 ]         5-       External Auth User Preset       Group       CTL*       [ 0 to 1/1/1 ]         431-       012       CTL*       [ 0 to 1/1/1 ]
5-       External Auth User Preset       Entry       CTL*       [ 0 to 1/1/1 ]         431-       011         5-       External Auth User Preset       Group       CTL*       [ 0 to 1/1/1 ]         431-       012
431- 011  5- External Auth User Preset Group  CTL* [0 to 1/1/1]  431- 012
011       5-       External Auth User Preset       Group       CTL*       [ 0 to 1 / 1 / 1 ]         431-       012       012
5- External Auth User Preset Group CTL* [ 0 to 1 / 1 / 1 ] 012
431-012
012
5- External Auth User Preset Mail CTL* [ 0 to 1/1/1 ]
431-
020
5- External Auth User Preset Fax CTL* [ 0 to 1 / 1 / 1 ]
431-
030
5- External Auth User Preset FaxSub CTL* [ 0 to 1 / 1 / 1 ]
431-
031
5- External Auth User Preset Folder CTL* [ 0 to 1 / 1 / 1 ]
431-
032
5- External Auth User Preset ProtectCode CTL* [ 0 to 1 / 1 / 1 ]
431-
033
5- External Auth User Preset SmtpAuth CTL* [ 0 to 1 / 1 / 1 ]
431-
034
5- External Auth User Preset LdapAuth CTL* [ 0 to 1 / 1 / 1 ]
431-
035
5- External Auth User Preset Smb Ftp Fldr Auth CTL* [ 0 to 1 / 1 / 1 ]
431-
036
5- External Auth User Preset AcntAcl CTL* [ 0 to 1 / 1 / 1 ]
431-
037

5-	External Auth User Preset	DocumentAcl	CTL*	[ 0 to 1 / 1 / 1 ]
431-	External ratio osci rieset	Bocamena ter		
038				
5-	External Auth User Preset	CertCrypt	CTL*	[ 0 to 1 / 0 / 1 ]
431-				[ • • • • • • • ]
040				
5-	External Auth User Preset	UserLimitCount	CTL*	[ 0 to 1 / 1 / 1 ]
431-				
050				
5-	Authentication Error Code	System Log Disp	CTL*	[ 0 to 1 / 0 / 1 ]
481-		J		0: Off, 1: On
001				,
5-	Authentication Error Code	Panel Disp	CTL*	[ 0 to 1 / 1 / 1 ]
481-				1: On, 0: Off
002				
5-	MF KeyCard	Job Permit Setting	CTL*	[ 0 to 1 / 0 / 1 ]
490-				0: Disabled
001				1: Enabled
5-	MF KeyCard	Count Mode Setting	CTL*	[ 0 to 1 / 0 / 1 ]
490-				
002				
5-	Optional Counter	Detail Option	CTL*	[ 0 to 0xff / 0 / 1 ]
491-				
001				
5-	PM Alarm	PM Alarm Level	CTL*	[ 0 to 9999 / 0 / 1 ]
501-				
001				
5-	PM Alarm	Original Count Alarm	CTL*	[ 0 to 1 / 0 / 1 ]
501-				
002				
5-	Jam Alarm		CTL*	[ 0 to 3 / 3 / 1 ]
504-				0: Zero (Off)
001				1: Low (2.5K jams)
				2: Medium (3K jams)
				3: High (6K jams)
5-	Jam Alarm	Threshold	CTL*	[ 1 to 99 / 10 / 1 ]
504-				
002				
5-	Error Alarm		CTL*	[ 0 to 255 / 19 / 1 ]

505-				
001				
5-	Error Alarm	Threshold	CTL*	[1 to 99 / 5 / 1]
505-				
002				
5-	Supply/CC Alarm	Paper Supply Alarm	CTL*	[ 0 to 1 / 0 / 1 ]
507-				0: Off, 1: On
001				
5-	Supply/CC Alarm	Toner Supply Alarm	CTL*	[ 0 to 1 / 1 / 1 ]
507-				0: Off, 1: On
003				
5-	Supply/CC Alarm	Toner Call Timing	CTL*	[ 0 to 1 / 0 / 1 ]
507-				0: At replacement
080				1: AtLessThanThresh
5-	Supply/CC Alarm	Toner Call Threshold	CTL*	[ 10 to 90 / 10 / 10% ]
507-				
081				
5-	Supply/CC Alarm	Interval: Others	CTL*	[ 250 to 10000 / 1000 /
507-				1]
128				
5-	Supply/CC Alarm	Interval: A4	CTL*	[ 250 to 10000 / 1000 /
507-				1]
133				
5-	Supply/CC Alarm	Interval: A5	CTL*	[ 250 to 10000 / 1000 /
507-				1]
134				
5-	Supply/CC Alarm	Interval: B5	CTL*	[ 250 to 10000 / 1000 /
507-				1]
142				
5-	Supply/CC Alarm	Interval: LG	CTL*	[ 250 to 10000 / 1000 /
507-				1]
164	0 1 (00 1)	I. I. I. I.	CTT :	F 0.50 / 10000 / 1000 /
5-	Supply/CC Alarm	Interval: LT	CTL*	[ 250 to 10000 / 1000 /
507-				1]
166	g 1 (GC 11	I de la III.	COTT :	F 250 / 10000 / 1000 /
5-	Supply/CC Alarm	Interval: HLT	CTL*	[ 250 to 10000 / 1000 /
507-				1]
172				

SOR-   O: Disable, 1: Enable
Solution   Continuous Jams   CTL*
Disable, 1: Enable
Doc   CC Call   Continuous Door Open   CTL*   [ 0 to 1/1/1 ]   O: Disable, 1: Enable   O: Disable, 1
CC Call   Continuous Door Open   CTL*   [ 0 to 1/1/1 ]   0: Disable, 1: Enable   003
508-   003   0: Disable, 1: Enable   0: Disable, 1: Enable   003   0: Disable, 1: Enable   0: Disable, 1: Disabl
Door Open: Time Length
5-         CC Call         Jam Detection: Time Length         CTL*         [ 3 to 30 / 10 / 1 ]           508- 011         5-         CC Call         Jam Detection: Continuous         CTL*         [ 2 to 10 / 5 / 1 ]           508- 012         COUNT         COUNT         CTL*         [ 3 to 30 / 10 / 1 ]           5-         CC Call         Door Open: Time Length         CTL*         [ 3 to 30 / 10 / 1 ]           508- 013         SC/Alarm Setting         SC Call         CTL*         [ 0 to 1 / 1 / 1 ]           515- 000         SC/Alarm Setting         Service Parts Near End Call         CTL*         [ 0 to 1 / 1 / 1 ]           515- 002         SC/Alarm Setting         Service Parts End Call         CTL*         [ 0 to 1 / 1 / 1 ]
SO8-   O11   SO8-   CC Call   Jam Detection: Continuous   CTL*   [2 to 10 / 5 / 1 ]
O11
5-         CC Call         Jam Detection: Continuous         CTL*         [ 2 to 10 / 5 / 1 ]           508- 012         CC Call         Door Open: Time Length         CTL*         [ 3 to 30 / 10 / 1 ]           5- 508- 013         SC/Alarm Setting         SC Call         CTL*         [ 0 to 1 / 1 / 1 ]           515- 001         SC/Alarm Setting         Service Parts Near End Call         CTL*         [ 0 to 1 / 1 / 1 ]           515- 002         SC/Alarm Setting         Service Parts End Call         CTL*         [ 0 to 1 / 1 / 1 ]           515- 003         SC/Alarm Setting         Service Parts End Call         CTL*         [ 0 to 1 / 1 / 1 ]
Count   Coun
012         5-         CC Call         Door Open: Time Length         CTL*         [ 3 to 30 / 10 / 1 ]           508-         013         CTL*         [ 0 to 1 / 1 / 1 ]           5-         SC/Alarm Setting         SC Call         CTL*         [ 0 to 1 / 1 / 1 ]           515-         001         CTL*         [ 0 to 1 / 1 / 1 ]           515-         002         CTL*         [ 0 to 1 / 1 / 1 ]           5-         SC/Alarm Setting         Service Parts End Call         CTL*         [ 0 to 1 / 1 / 1 ]           515-         003         CTL*         [ 0 to 1 / 1 / 1 ]
5-         CC Call         Door Open: Time Length         CTL*         [ 3 to 30 / 10 / 1 ]           508- 013         SC/Alarm Setting         SC Call         CTL*         [ 0 to 1 / 1 / 1 ]           5- 515- 002         SC/Alarm Setting         Service Parts Near End Call         CTL*         [ 0 to 1 / 1 / 1 ]           5- 515- 003         SC/Alarm Setting         Service Parts End Call         CTL*         [ 0 to 1 / 1 / 1 ]
SOB-   O13   SC/Alarm Setting   SC Call   CTL*   [ 0 to 1/1/1 ]   O: Off, 1: On   O15
013         SC/Alarm Setting         SC Call         CTL* [0 to 1/1/1]           5-5         SC/Alarm Setting         Service Parts Near End Call         CTL* [0 to 1/1/1]           5-5         SC/Alarm Setting         Service Parts Near End Call         CTL* [0 to 1/1/1]           5-6         SC/Alarm Setting         Service Parts End Call         CTL* [0 to 1/1/1]           515-003         CTL* [0 to 1/1/1]
5-         SC/Alarm Setting         SC Call         CTL*         [ 0 to 1/1/1 ]           515-         001         0: Off, 1: On           5-         SC/Alarm Setting         Service Parts Near End Call         CTL*         [ 0 to 1/1/1 ]           515-         002         SC/Alarm Setting         Service Parts End Call         CTL*         [ 0 to 1/1/1 ]           515-         003         CTL*         [ 0 to 1/1/1 ]
515-       0: Off, 1: On         5-       SC/Alarm Setting       Service Parts Near End Call       CTL* [0 to 1/1/1]         515-       002         5-       SC/Alarm Setting       Service Parts End Call       CTL* [0 to 1/1/1]         515-       003
001         5-         SC/Alarm Setting         Service Parts Near End Call         CTL*         [ 0 to 1/1/1 ]           515-         002         5-         SC/Alarm Setting         Service Parts End Call         CTL*         [ 0 to 1/1/1 ]           515-         003         003         CTL*         [ 0 to 1/1/1 ]
5- SC/Alarm Setting Service Parts Near End Call CTL* [ 0 to 1/1/1 ] 515- 002 5- SC/Alarm Setting Service Parts End Call CTL* [ 0 to 1/1/1 ] 515- 003
515-       002         5-       SC/Alarm Setting       Service Parts End Call       CTL*       [ 0 to 1 / 1 / 1 ]         515-       003
002         SC/Alarm Setting         Service Parts End Call         CTL*         [ 0 to 1 / 1 / 1 ]           515- 003         CTL*         [ 0 to 1 / 1 / 1 ]
5- SC/Alarm Setting Service Parts End Call CTL* [ 0 to 1 / 1 / 1 ] 515- 003
515-
003
5- SC/Alarm Setting User Call CTL* [ 0 to 1 / 1 / 1 ]
515-
004
5- SC/Alarm Setting Communication Test Call CTL* [ 0 to 1 / 1 / 1 ]
515-
006
5- SC/Alarm Setting Machine Information Notice CTL* [ 0 to 1 / 1 / 1 ]
515-
007
5- SC/Alarm Setting Alarm Notice CTL* [ 0 to 1 / 1 / 1 ]
515-
008

SCAlarm Setting   Supply Automatic Ordering Call   CTL*   [0 to 1/1/1]	5-	SC/Alarm Setting	Non Genuine Tonner Ararm	CTL*	[ 0 to 1 / 1 / 1 ]
SC/Alarm Setting   Supply Automatic Ordering Call   CTL*   [0 to 1/1/1]		Serrium Setting	Tron condine former runnin	CIE	
Stis-    SC/Alarm Setting   Supply Management Report   CTL*   [ 0 to 1/1/1 ]					
State	5-	SC/Alarm Setting	Supply Automatic Ordering Call	CTL*	[ 0 to 1 / 1 / 1 ]
SC/Alarm Setting   Supply Management Report   CTL*   [0 to 1/1/1]	515-				
SIS-   SC/Alarm Setting   Jam/Door Open Call   CTL*   [0 to 1/11/1]	010				
SC/Alarm Setting	5-	SC/Alarm Setting	Supply Management Report	CTL*	[ 0 to 1 / 1 / 1 ]
SC/Alarm Setting	515-		Call		
S15-  O12   SC/Alarm Setting   Timeout:Manual Call   CTL*   [1 to 255 / 5 / 1min]   S15-  O50   SC/Alarm Setting   Timeout:Other Call   CTL*   [1 to 255 / 10 / 1min]   S15-  O51   SC/Alarm Setting   Timeout:Other Call   CTL*   [0 to 1/0/1]   S17-  O61   Setting   CTL*   O10 / 1 / 1 / 1   Setting   CTL*   O10 / 1 / 1 / 1   Setting   CTL*   O10 / 1 / 1 / 1   Setting   CTL*   O10 / 1 / 1 / 1   Setting   CTL*   O10 / 1 / 1 / 1   Setting   CTL*   O10 / 1 / 1 / 1   Setting   CTL*   O10 / 1 / 1 / 1   Setting   CTL*   O10 / 1 / 1 / 1   Setting   CTL*   O10 / 1 / 1 / 1   Setting   CTL*   O10 / 1 / 1 / 1   Setting   CTL*   O10 / 1 / 1 / 1   Setting   CTL*   O10 / 1	011				
SC/Alarm Setting	5-	SC/Alarm Setting	Jam/Door Open Call	CTL*	[0 to 1/1/1]
5-         SC/Alarm Setting         Timeout:Manual Call         CTL*         [1 to 255/5/1min]           515- 050         SC/Alarm Setting         Timeout:Other Call         CTL*         [1 to 255/10/1min]           5- 515- 051         Get Machine Information         AutoDiscovery Execution Setting         CTL*         [0 to 1/0/1]           5- 517- 062         Get Machine Information         AutoDiscovery Execution Weekday         CTL*         [0 to 6/0/1]           5- 517- 063         Get Machine Information         AutoDiscovery Execution Hour Weekday         CTL*         [0 to 23/0/1]           5- 517- 064         Get Machine Information         AutoDiscovery Execution Minute         CTL*         [0 to 59/0/1]           5- 5- 5- 618- 001         Get Machine Information         AutoDiscovery SNMP Community Name         CTL*         [0 to 0/0/0]	515-				
S15-  SC/Alarm Setting	012				
OSO   SC/Alarm Setting	5-	SC/Alarm Setting	Timeout:Manual Call	CTL*	[ 1 to 255 / 5 / 1min ]
SC/Alarm Setting	515-				
S15-   Get Machine Information   AutoDiscovery Execution   CTL*   [0 to 1/0/1]	050				
O51   Set Machine Information   AutoDiscovery Execution   Setting   CTL*   [ 0 to 1/0/1 ]   Setting	5-	SC/Alarm Setting	Timeout:Other Call	CTL*	[ 1 to 255 / 10 / 1min ]
Setting  Get Machine Information Setting  AutoDiscovery Execution Setting  CTL* [0 to 1/0/1]  Setting  CTL* [0 to 1/0/1]  Setting  CTL* [0 to 1/0/1]  Interval  Setting  CTL* [0 to 1/0/1]  Interval  CTL* [0 to 1/0/1]  Setting  CTL* [0 to 1/0/1]  CTL* [0 to 6/0/1]  Setting  CTL* [0 to 23/0/1]  Setting  CTL* [0 to 23/0/1]  Setting  CTL* [0 to 23/0/1]  Setting  CTL* [0 to 59/0/1]  Setting  CTL* [0 to 59/0/1]  Setting  CTL* [0 to 59/0/1]  Setting  CTL* [0 to 1/0/1]  Setting  CTL* [0 to 1/1/1]  Setting  Setting  CTL* [0 to 1/1/1]  Setting  Setting  Setting  CTL* [0 to 1/1/1]	515-				
Setting  Setting  Setting  Get Machine Information  Interval  Setting  AutoDiscovery Execution  Interval  Setting  CTL* [0 to 1/0/1]  CTL* [0 to 6/0/1]  Setting  CTL* [0 to 1/0/1]  CTL* [0 to 6/0/1]  Setting  CTL* [0 to 1/0/1]  CTL* [0 to 6/0/1]  Setting  CTL* [0 to 23/0/1]  Setting  CTL* [0 to 1/1/1]	051				
Get Machine Information   AutoDiscovery Execution   CTL*   [0 to 1/0/1]	5-	Get Machine Information	AutoDiscovery Execution	CTL*	[ 0 to 1 / 0 / 1 ]
5- Get Machine Information AutoDiscovery Execution Interval  5- Get Machine Information AutoDiscovery Execution Weekday  5- Get Machine Information AutoDiscovery Execution Hour S17- 063  5- Get Machine Information AutoDiscovery Execution Hour CTL* [0 to 23/0/1]  517- 064  5- Get Machine Information AutoDiscovery Execution Minute  5- Get Machine Information AutoDiscovery Execution CTL* [0 to 59/0/1]  517- 065  5- Get Machine Information AutoDiscovery SNMP CTL* [0 to 0/0/0]  517- 066  5- Color Mode Display Selection CTL* [0 to 1/1/1]	517-		Setting		
Interval   Interval   Interval	061				
062       Get Machine Information       AutoDiscovery Execution       CTL*       [ 0 to 6 / 0 / 1 ]         517- 063       Weekday       CTL*       [ 0 to 6 / 0 / 1 ]         5- 063       Get Machine Information       AutoDiscovery Execution Hour       CTL*       [ 0 to 23 / 0 / 1 ]         517- 064       Get Machine Information       AutoDiscovery Execution       CTL*       [ 0 to 59 / 0 / 1 ]         517- 065       Minute       CTL*       [ 0 to 0 / 0 / 0 ]         517- 066       Community Name       CTL*       [ 0 to 0 / 0 / 0 ]         517- 066       Color Mode Display Selection       CTL*       [ 0 to 1 / 1 / 1 ]	5-	Get Machine Information	AutoDiscovery Execution	CTL*	[ 0 to 1 / 0 / 1 ]
5- Get Machine Information Weekday  5- Get Machine Information AutoDiscovery Execution Hour S17- 064  5- Get Machine Information AutoDiscovery Execution Hour S17- 064  5- Get Machine Information AutoDiscovery Execution Minute  5- Get Machine Information AutoDiscovery SNMP CTL* [0 to 59/0/1]  517- 065  5- Get Machine Information AutoDiscovery SNMP CTL* [0 to 0/0/0]  517- 066  5- Color Mode Display Selection CTL* [0 to 1/1/1]	517-		Interval		
S17-   Weekday	062				
063         Get Machine Information         AutoDiscovery Execution Hour         CTL*         [ 0 to 23 / 0 / 1 ]           517- 064         Get Machine Information         AutoDiscovery Execution Minute         CTL*         [ 0 to 59 / 0 / 1 ]           517- 065         Get Machine Information         AutoDiscovery SNMP Community Name         CTL*         [ 0 to 0 / 0 / 0 ]           517- 066         Color Mode Display Selection         CTL*         [ 0 to 1 / 1 / 1 ]           618- 001         CTL*         [ 0 to 1 / 1 / 1 ]	5-	Get Machine Information	AutoDiscovery Execution	CTL*	[ 0 to 6 / 0 / 1 ]
5- Get Machine Information AutoDiscovery Execution Hour CTL* [ 0 to 23 / 0 / 1 ] 517- 064  5- Get Machine Information AutoDiscovery Execution Minute  5- Get Machine Information AutoDiscovery SNMP CTL* [ 0 to 59 / 0 / 1 ]  517- 065  5- Get Machine Information AutoDiscovery SNMP CTL* [ 0 to 0 / 0 / 0 ]  517- 066  5- Color Mode Display Selection CTL* [ 0 to 1 / 1 / 1 ]	517-		Weekday		
517- 064         Get Machine Information         AutoDiscovery Execution         CTL*         [ 0 to 59/0/1 ]           5- 065         Get Machine Information         AutoDiscovery SNMP         CTL*         [ 0 to 0/0/0 ]           5- 066         Community Name         CTL*         [ 0 to 1/1/1 ]           6- 01         Color Mode Display Selection         CTL*         [ 0 to 1/1/1 ]	063				
064         Get Machine Information         AutoDiscovery Execution         CTL*         [ 0 to 59/0/1 ]           517- 065         Minute         CTL*         [ 0 to 59/0/1 ]           5- 5- 066         Get Machine Information         AutoDiscovery SNMP         CTL*         [ 0 to 0/0/0 ]           517- 066         Community Name         CTL*         [ 0 to 1/1/1 ]           618- 001         CTL*         [ 0 to 1/1/1 ]	5-	Get Machine Information	AutoDiscovery Execution Hour	CTL*	[ 0 to 23 / 0 / 1 ]
5- Get Machine Information AutoDiscovery Execution Minute  517- Minute  5- Get Machine Information AutoDiscovery SNMP CTL* [0 to 0/0/0]  517- Community Name  5- Color Mode Display Selection 618- 001	517-				
517-       065       Minute       CTL*       [ 0 to 0/0/0 ]         5-       Get Machine Information       AutoDiscovery SNMP       CTL*       [ 0 to 0/0/0 ]         517-       Community Name       CTL*       [ 0 to 1/1/1 ]         6-       CTL*       [ 0 to 1/1/1 ]         618-       001       CTL*       [ 0 to 1/1/1 ]	064				
065         Get Machine Information         AutoDiscovery SNMP         CTL*         [ 0 to 0 / 0 / 0 ]           517- 066         Community Name         CTL*         [ 0 to 0 / 0 / 0 ]           5- 01         Color Mode Display Selection         CTL*         [ 0 to 1 / 1 / 1 ]	5-	Get Machine Information	AutoDiscovery Execution	CTL*	[ 0 to 59 / 0 / 1 ]
5- Get Machine Information AutoDiscovery SNMP CTL* [ 0 to 0 / 0 / 0 ]  517- Community Name  5- Color Mode Display Selection 618- 001	517-		Minute		
517-       Community Name         56-       Color Mode Display Selection         618-       CTL*         001       CTL*	065				
066       Color Mode Display Selection         618- 001       CTL*       [ 0 to 1 / 1 / 1 ]	5-	Get Machine Information	AutoDiscovery SNMP	CTL*	[ 0 to 0 / 0 / 0 ]
5- Color Mode Display Selection CTL* [ 0 to 1 / 1 / 1 ] 618- 001	517-		Community Name		
618-	066				
001	5-	Color Mode Display Selection		CTL*	[ 0 to 1 / 1 / 1 ]
	618-				

5-	Network Setting	NAT Machine Port1	CTL*	[ 1 to 65535 / 49101 / 1 ]
728-				
001				
5-	Network Setting	NAT UI Port1	CTL*	[ 1 to 65535 / 55101 / 1 ]
728-				
002				
5-	Network Setting	NAT Machine Port2	CTL*	[ 1 to 65535 / 49102 / 1 ]
728-				
003				
5-	Network Setting	NAT UI Port2	CTL*	[ 1 to 65535 / 55102 / 1 ]
728-				
004				
5-	Network Setting	NAT Machine Port3	CTL*	[ 1 to 65535 / 49103 / 1 ]
728-				
005				
5-	Network Setting	NAT UI Port3	CTL*	[ 1 to 65535 / 55103 / 1 ]
728-				
006				
5-	Network Setting	NAT Machine Port4	CTL*	[ 1 to 65535 / 49104 / 1 ]
728-				
007				
5-	Network Setting	NAT UI Port4	CTL*	[ 1 to 65535 / 55104 / 1 ]
728-				
008				5.4 (5.7.5 / 4.0.4.0.7 / 4.7.
5-	Network Setting	NAT Machine Port5	CTL*	[ 1 to 65535 / 49105 / 1 ]
728-				
009	Natara da Cattina	NAT LILD - 45	CTL*	[14-(5525   55105   1 ]
5- 728-	Network Setting	NAT UI Port5	CIL	[ 1 to 65535 / 55105 / 1 ]
010				
5-	Network Setting	NAT Machine Port6	CTL*	[ 1 to 65535 / 49106 / 1 ]
728-	Network Setting	IVAI WIACIIIIC I OITO	CIL	[1 to 03333 / 47100 / 1]
011				
5-	Network Setting	NAT UI Port6	CTL*	[ 1 to 65535 / 55106 / 1 ]
728-	1.00mon botting			[1 00 00000 / 00100 / 1]
012				
5-	Network Setting	NAT Machine Port7	CTL*	[ 1 to 65535 / 49107 / 1 ]
728-				
013				
013				21

5-	Network Setting	NAT UI Port7	CTL*	[ 1 to 65535 / 55107 / 1 ]
728-	2.2202			[ - 00 00000 / 0010/ / 1 ]
014				
5-	Network Setting	NAT Machine Port8	CTL*	[ 1 to 65535 / 49108 / 1 ]
728-				
015				
5-	Network Setting	NAT UI Port8	CTL*	[ 1 to 65535 / 55108 / 1 ]
728-				
016				
5-	Network Setting	NAT Machine Port9	CTL*	[ 1 to 65535 / 49109 / 1 ]
728-				
017				
5-	Network Setting	NAT UI Port9	CTL*	[ 1 to 65535 / 55109 / 1 ]
728-				
018				
5-	Network Setting	NAT Machine Port10	CTL*	[ 1 to 65535 / 49110 / 1 ]
728-				
019				
5-	Network Setting	NAT UI Port10	CTL*	[ 1 to 65535 / 55110 / 1 ]
728-				
020				
5-	Network Setting	PacketCapture	CTL	[ 0 to 1 / 0 / 1 ]
728-				
101				
5-	Network Setting	PacketCapture:mode	CTL	[0 to 1/0/1]
728-				
102				
5-	Network Setting	PacketCapture:interface	CTL	[0 to 3/0/1]
728-				
103				
5-	Network Setting	PacketCapture:length	CTL	[ 54 to 65535 / 128 / 1 ]
728-				
104				
5-	Network Setting	PacketCapture:broadcast	CTL	[ 0 to 1 / 0 / 1 ]
728-				
105				
5-	Network Setting	PacketCapture:specify port	CTL	[ 0 to 1 / 0 / 1 ]
728-				
106				
220				

5-	Network Setting	PacketCapture:portnumber	CTL	[ 0 to 65535 / 0 / 1 ]
728-				
107				
5-	Network Setting	PacketCapture:time	CTL	[ 0 to 0xffffffff / 0 / 1 ]
728-				
108				
5-	Extended Function Setting	JavaTM Platform setting	CTL*	[ 0 to 1 / 1 / 1 ]
730-				0: Disable 1: Enable
001				
5-	Extended Function Setting	Expiration Prior Alarm Set	CTL*	[ 0 to 999 / 20 / 1days ]
730-				
010				
5-	Counter Effect	Change Mk1 Cnt(Paper-	CTL*	[ 0 to 1 / 0 / 1 ]
731-		>Combine)		0: Disable 1: Enable
001				
5-	PDF Setting	PDF/A Fixed	CTL*	[ 0 to 1 / 0 / 1 ]
734-				
001				
5-	Node Authentication Timuout		CTL*	[ 1 to 255 / 60 / 1sec ]
741-				
001				
5-	DeemedPowerConsumption	Controller Standby	CTL*	[ 0 to 9999 / 0 / 1 ]
745-				
211				
5-	DeemedPowerConsumption	STR	CTL*	[ 0 to 9999 / 0 / 1 ]
745-				
212				
5-	DeemedPowerConsumption	Main Power Off	CTL*	[ 0 to 9999 / 0 / 1 ]
745-				
213				
5-	DeemedPowerConsumption	Scanning and Printing	CTL*	[ 0 to 9999 / 0 / 1 ]
745-				
214				
5-	DeemedPowerConsumption	Printing	CTL*	[ 0 to 9999 / 0 / 1 ]
745-				
215				
5-	DeemedPowerConsumption	Scanning	CTL*	[ 0 to 9999 / 0 / 1 ]
745-				
216				

5-	DeemedPowerConsumption	Engine Standby	CTL*	[ 0 to 9999 / 0 / 1 ]
745-	DeemedrowerConsumption	Eligine Standoy	CIL	[0 t0 9999 / 0 / 1]
217				
	D ID C	I D C	CITE *	F.O
5-	DeemedPowerConsumption	Low Power Consumption	CTL*	[ 0 to 9999 / 0 / 1 ]
745-				
218				
5-	DeemedPowerConsumption	Silent condition	CTL*	[ 0 to 9999 / 0 / 1 ]
745-				
219				
5-	DeemedPowerConsumption	Heater Off	CTL*	[ 0 to 9999 / 0 / 1 ]
745-				
220				
5-	OpePanel Setting	Op Type Action Setting	CTL*	[ 0 to 255 / 0 / 1 ]
748-				
101				
5-	OpePanel Setting	Cheetah Panel Connect Setting	CTL*	[ 0 to 1 / 0 / 1 ]
748-				
201				
5-	Import/Export	Export	CTL	[ 0 to 0 / 0 / 0 ]
749-				
001				
5-	Import/Export	Import	CTL	[ 0 to 0 / 0 / 0 ]
749-	Import Export	Import	CIL	
101				
5-	Key Event Encryption Setting	Password	CTL*	[ 0 to 255 / 0 / 1 ]
	Key Event Encryption Setting	rassword	CIL	
751-				
001	C WILADIC W	C El : ADIC #:	CTI *	F.O. (255 / O./ 1.7)
5-	Copy:WebAPI Setting	Copy:FlairAPI Setting	CTL*	[ 0 to 255 / 0 / 1 ]
752-				
001				
5-	Display Setting	Disp Administrator Password	CTL	[ 0 to 0 / 0 / 0 ]
755-		Change Scrn		
001				
5-	Display Setting	Hide Administrator Password	CTL	[ 0 to 0 / 0 / 0 ]
755-		Change Scrn		
002				
5-	RemoteUI Setting	Authentication	CTL*	[0 to 1/0/1]
758-				
001				

RTB 21 5-759 Not used

5-	Machine Limit Count	Machine Limit Count Setting	CTL*	[0 to 1/0/1]
759-				
001				
5-	Machine Limit Count	Full Color Limit Count	CTL*	[ 0 to 99999999 / 0 / 1 ]
759-				
061				
5-	Machine Limit Count	Mono Color Limit Count	CTL*	[ 0 to 99999999 / 0 / 1 ]
759-				
062				
5-	SmartOperationPanel Setting	Restore the default Home screen	CTL*	[ 0 to 255 / 0 / 1 ]
761-				
001				
5-	Memory Clear	All Clear	CTL	[ 0 to 0 / 0 / 0 ]
801-				
001				
5-	Memory Clear	SCS	CTL	[ 0 to 0 / 0 / 0 ]
801-				
003				
5-	Memory Clear	IMH Memory Clr	CTL	[ 0 to 0 / 0 / 0 ]
801-				
004				
5-	Memory Clear	MCS	CTL	[ 0 to 0 / 0 / 0 ]
801-				
005				
5-	Memory Clear	Copier application	CTL	[ 0 to 0 / 0 / 0 ]
801-				
006				
5-	Memory Clear	Fax Application	CTL	[ 0 to 0 / 0 / 0 ]
801-				
007				
5-	Memory Clear	Printer Application	CTL	[ 0 to 0 / 0 / 0 ]
801-				
008				
5-	Memory Clear	Scanner Application	CTL	[ 0 to 0 / 0 / 0 ]
801-				
009				
5-	Memory Clear	Web Service	CTL	[ 0 to 0 / 0 / 0 ]
801-				
010				

5-	Memory Clear	NCS	CTL	[ 0 to 0 / 0 / 0 ]
801-				[ 0 00 0 7 0 7 0 ]
011				
5-	Memory Clear	R-FAX	CTL	[ 0 to 0 / 0 / 0 ]
801-				
012				
5-	Memory Clear	Clear DCS Setting	CTL	[0 to 0 / 0 / 0]
801-	Wiemory Cicur	Clear Des setting	CIL	[0.007070]
014				
5-	Memory Clear	Clear UCS Setting	CTL	[ 0 to 0 / 0 / 0 ]
801-	Memory Clear	Clear OCS Setting	CIL	[0100/0/0]
015				
	Managar Class	MIDC C-44:	CTI	[04-0/0/0]
5- 801-	Memory Clear	MIRS Setting	CTL	[ 0 to 0 / 0 / 0 ]
016	N Cl	aga	CTU	50,0000
5-	Memory Clear	CCS	CTL	[ 0 to 0 / 0 / 0 ]
801-				
017				
5-	Memory Clear	SRM Memory Clr	CTL	[ 0 to 0 / 0 / 0 ]
801-				
018				
5-	Memory Clear	LCS	CTL	[ 0 to 0 / 0 / 0 ]
801-				
019				
5-	Cleae Memory	Web Uapli	CTL	[ 0 to 0 / 0 / 0 ]
801-				
020				
5-	Memory Clear	ECS	CTL	[ 0 to 0 / 0 / 0 ]
801-				
021				
5-	Memory Clear	AICS	CTL	[0 to 0 / 0 / 0]
801-				
023				
5-	Cleae Memory	websys	CTL	[0 to 0/0/0]
801-				
025				
5-	Memory Clear	PLN	CTL	[0 to 0 / 0 / 0]
801-	-			
026				
224	l		1	

5-	Memory Clear	SAS	CTL	[ 0 to 0 / 0 / 0 ]
801-				
027				
5-	Memory Clear	Rest WebService	CTL	[ 0 to 0 / 0 / 0 ]
801-				
028				
5-	Service Tel. No. Setting	Service	CTL*	[0 to 0/0/0]
812-				
001				
5-	Service Tel. No. Setting	Facsimile	CTL*	[0 to 0/0/0]
812-				
002				
5-	Service Tel. No. Setting	Supply	CTL*	[ 0 to 0 / 0 / 0 ]
812-				
003				
5-	Service Tel. No. Setting	Operation	CTL*	[ 0 to 0 / 0 / 0 ]
812-				
004				
5-	Remote Service	I/F Setting	CTL*	[ 0 to 2 / 2 / 1 ]
816-				
001				
5-	Remote Service	CE Call	CTL*	[ 0 to 1 / 0 / 1 ]
816-				
002				
5-	Remote Service	Function Flag	CTL*	[ 0 to 1 / 0 / 1 ]
816-				
003				
5-	Remote Service	SSL Disable	CTL*	[ 0 to 1 / 0 / 1 ]
816-				
007				
5-	Remote Service	RCG Connect Timeout	CTL*	[ 1 to 90 / 30 / 1sec ]
816-				
008				
5-	Remote Service	RCG Write Timeout	CTL*	[ 0 to 100 / 60 / 1sec ]
816-				
009				
5-	Remote Service	RCG Read Timeout	CTL*	[ 0 to 100 / 60 / 1sec ]
816-				
010				225

5-	Remote Service	Port 80 Enable	CTL*	[ 0 to 1 / 0 / 1 ]
816-				[ • • • • • • • • • • • • • • • • • • •
011				
5-	Remote Service	RFU Timing	CTL*	[ 0 to 1 / 1 / 1 ]
816-				
013				
5-	Remote Service	RCG Error Cause	CTL*	[ 0 to 2 / 0 / 1 ]
816-				
014				
5-	Remote Service	RCG-C Registed	CTL*	[ 0 to 1 / 0 / 1 ]
816-				
021				
5-	Remote Service	Connect Type(N/M/3G)	CTL*	[ 0 to 2 / 0 / 1 ]
816-				
023				
5-	Remote Service	Cert Expire Timing	CTL*	[ 0 to 0 / 0 / 1 ]
816-				
061				
5-	Remote Service	Use Proxy	CTL*	[ 0 to 1 / 0 / 1 ]
816-				[ • • • • • • • ]
062				
5-	Remote Service	Proxy Host	CTL*	[0 to 0 / 0 / 0]
816-				
063				
5-	Remote Service	Proxy PortNumber	CTL*	[ 0 to 0xffff / 0 / 1 ]
816-				
064				
5-	Remote Service	Proxy User Name	CTL*	[0 to 0/0/0]
816-				
065				
5-	Remote Service	Proxy Password	CTL*	[0 to 0/0/0]
816-				
066				
5-	Remote Service	CERT:Up State	CTL*	[ 0 to 255 / 0 / 1 ]
816-		<b>r</b>		[
067				
5-	Remote Service	CERT:Error	CTL*	[ 0 to 255 / 0 / 1 ]
816-				[ ]
068				
226	l	_1	1	

5-	Remote Service	CERT:Up ID	CTL*	[ 0 to 0 / 0 / 0 ]
816-		•		
069				
5-	Remote Service	Firm Up Status	CTL*	[ 0 to 1 / 0 / 1 ]
816-				
083				
5-	Remote Service	Firm Up User Check	CTL*	[ 0 to 1 / 0 / 1 ]
816-				
085				
5-	Remote Service	Firmware Size	CTL*	[ 0 to 0xffffffff / 0 / 1 ]
816-				
086				
5-	Remote Service	CERT:Macro Ver.	CTL	[ 0 to 0 / 0 / 0 ]
816-				
087				
5-	Remote Service	CERT:PAC Ver.	CTL	[ 0 to 0 / 0 / 0 ]
816-				
088				
5-	Remote Service	CERT:ID2Code	CTL	[ 0 to 0 / 0 / 0 ]
816-				
089				
5-	Remote Service	CERT:Subject	CTL	[ 0 to 0 / 0 / 0 ]
816-				
090				
5-	Remote Service	CERT:SerialNo.	CTL	[ 0 to 0 / 0 / 0 ]
816-				
091				
5-	Remote Service	CERT:Issuer	CTL	[ 0 to 0 / 0 / 0 ]
816-				
092				
5-	Remote Service	CERT:Valid Start	CTL	[ 0 to 0 / 0 / 0 ]
816-				
093				
5-	Remote Service	CERT:Valid End	CTL	[ 0 to 0 / 0 / 0 ]
816-				
094				
5-	Remote Service	CERT:Encrypt Level	CTL*	[ 1 to 2 / 1 / 1 ]
816-				1: 512 bit
102				2: 2048 bit

Remote Service   Network Information Limit   CTL*   [1 to 7/7/1]   15 to 255/5/   Isec   Line Type Automatic Judgement   CTL*   [0 to 10/0/1]   NA, CHN, TWN, KOR: 151   152   153   Nemote Service   Line Type Judgement Result   Selection Dial / Push   Push   CTL*   [0 to 0/0/0]   NA, CHN, TWN, KOR: 10 to 2/0/0]   NA, CHN, TWN, KOR: 10 to 2/0/0	5-	Remote Service	Client Communication Method	CTL*	[ 0 to 3 / 0 / 1 ]
103		Remote Service	Chefit Communication Wethou	CIL	
Semote Service   Client Communication Limit   CTL*   [1 to 7/7/1]					
Semote Service   Client Communication Limit   CTL*   [1 to 7/7/1]	103				
Remote Service		Daniela Camina	Client Communication Limit	CTI *	
104		Remote Service	Client Communication Limit	CIL*	[1 to // // 1]
Network Information Waiting timer					
Selection Country					
115		Remote Service		CTL*	[ 5 to 255 / 5 / 1sec ]
Selection Country			timer		
*NA: 1					
*EU: 3	5-	Remote Service	Selection Country	CTL*	[ 0 to 10 / * / 1 ]
Remote Service   Line Type Automatic Judgement   CTL   [0 to 1/0/1]	816-				*NA: 1
Selection Dial / Push   CTL   [0 to 0/0/0]	150				*EU: 3
Selection Dial / Push   CTL					*AA, CHN, TWN, KOR:
Remote Service   Line Type Judgement Result   CTL   [0 to 0/0/0]					0
151	5-	Remote Service	Line Type Automatic Judgement	CTL	[ 0 to 1 / 0 / 1 ]
Remote Service   Line Type Judgement Result   CTL   [0 to 0/0/0]	816-				
Selection Dial / Push   CTL*   NA, EU:   [0 to 1/0/0]   AA, CHN, TWN, KOR:   [0 to 2/0/0]	151				
Selection Dial / Push   CTL*   NA, EU:   [0 to 1/0/0]   AA, CHN, TWN, KOR:   [0 to 2/0/0]	5-	Remote Service	Line Type Judgement Result	CTL	[0 to 0 / 0 / 0]
152	816-				
5-         Remote Service         Selection Dial / Push         CTL*         NA, EU:             [0 to 1/0/0]             AA, CHN, TWN, KOR:             [0 to 2/0/0]            5-         Remote Service         Outside Line Outgoing Number         CTL*         [0 to 0/0/0]           816- 154         CTL*         [0 to 0/0/0]           5-         Remote Service         Dial Up User Name         CTL*         [0 to 0/0/0]           816- 156         CTL*         [0 to 0/0/0]         CTL*         [0 to 0/0/0]           816- 157         Local Phone Number         CTL*         [0 to 0/0/0]           816- 161         CTL*         [0 to 0/0/0]         CTL*         [0 to 0/0/1]           816- 161         CTL*         [0 to 0/0/1]         CTL*         [0 to 0/0/1]           816- 161         CTL*         [0 to 0/0/1]         CTL*         [0 to 0/0/1]	152				
S16-   153	5-	Remote Service	Selection Dial / Push	CTL*	NA, EU:
AA, CHN, TWN, KOR: [0 to 2/0/0]	816-				
Semote Service   Outside Line Outgoing Number   CTL*   [0 to 0/0/0]					
5- Remote Service Outside Line Outgoing Number CTL* [0 to 0/0/0]  816- 154 Password CTL* [0 to 0/0/0]  816- 156 Password CTL* [0 to 0/0/0]  816- 157 CTL* [0 to 0/0/0]  816- 161 CTL* [0 to 0/0/1]  816- 161 CTL* [0 to 0/0/1]					
816-       154       Dial Up User Name       CTL*       [ 0 to 0/0/0 ]         5-       Remote Service       Dial Up Password       CTL*       [ 0 to 0/0/0 ]         5-       Remote Service       Dial Up Password       CTL*       [ 0 to 0/0/0 ]         5-       Remote Service       Local Phone Number       CTL*       [ 0 to 0/0/0 ]         816-       161       CTL*       [ 0 to 0/0/1]         5-       Remote Service       Connection Timing Adjustment       CTL*       [ 0 to 24/1/1 ]	5-	Remote Service	Outside Line Outgoing Number	CTL*	
154       Remote Service       Dial Up User Name       CTL* [0 to 0/0/0]         816- 156       Dial Up Password       CTL* [0 to 0/0/0]         816- 157       Remote Service       Dial Up Password       CTL* [0 to 0/0/0]         5- 816- 161       Remote Service       Local Phone Number       CTL* [0 to 0/0/0]         5- 816- 161       Remote Service       Connection Timing Adjustment       CTL* [0 to 24/1/1]		Tremote service	outside Eme outgoing Funder	CIE	
5- Remote Service Dial Up User Name CTL* [0 to 0/0/0]  5- Remote Service Dial Up Password CTL* [0 to 0/0/0]  816- 157  5- Remote Service Local Phone Number CTL* [0 to 0/0/0]  816- 161  5- Remote Service Connection Timing Adjustment CTL* [0 to 24/1/1]					
816-       156         5-       Remote Service       Dial Up Password       CTL* [0 to 0/0/0]         816-       157         5-       Remote Service       Local Phone Number       CTL* [0 to 0/0/0]         816-       161         5-       Remote Service       Connection Timing Adjustment       CTL* [0 to 24/1/1]		Remote Service	Dial Un User Name	CTI *	[ 0 to 0 / 0 / 0 ]
156       Remote Service       Dial Up Password       CTL* [0 to 0/0/0]         816-       157       CTL* [0 to 0/0/0]         5-       Remote Service       Local Phone Number       CTL* [0 to 0/0/0]         816-       161       CTL* [0 to 0/0/0]         5-       Remote Service       Connection Timing Adjustment       CTL* [0 to 24/1/1]		Remote Service	Diai op osci Name	CIL	[ 0 10 0 / 0 / 0 ]
5- Remote Service Dial Up Password CTL* [ 0 to 0/0/0 ]  816- 157  5- Remote Service Local Phone Number CTL* [ 0 to 0/0/0 ]  816- 161  5- Remote Service Connection Timing Adjustment CTL* [ 0 to 24/1/1 ]					
816-       157         5-       Remote Service       Local Phone Number       CTL*       [ 0 to 0/0/0 ]         816-       161       CTL*       [ 0 to 24/1/1 ]		Domoto Carrios	Dial Lin Dossward	CTI *	[ 0 to 0 / 0 / 0 ]
157       Remote Service       Local Phone Number       CTL* [0 to 0/0/0]         816- 161       Remote Service       Connection Timing Adjustment       CTL* [0 to 24/1/1]		Remote Service	Diai Op Password	CIL	[[0]00/0/0]
5- Remote Service Local Phone Number CTL* [0 to 0/0/0] 816- 161 5- Remote Service Connection Timing Adjustment CTL* [0 to 24/1/1]					
816- 161  5- Remote Service Connection Timing Adjustment CTL* [ 0 to 24 / 1 / 1 ]		D	r 101 27 1	amr :	50.00/0/07
161 Connection Timing Adjustment CTL* [ 0 to 24 / 1 / 1 ]		Remote Service	Local Phone Number	CTL*	[ 0 to 0 / 0 / 0 ]
5- Remote Service Connection Timing Adjustment CTL* [ 0 to 24 / 1 / 1 ]					
	161				
816- Incoming	5-	Remote Service	Connection Timing Adjustment	CTL*	[ 0 to 24 / 1 / 1 ]
	816-		Incoming		

162				
5-	Remote Service	Access Point	CTL*	[0 to 0 / 0 / 0]
816-				
163				
5-	Remote Service	Line Connecting	CTL*	[ 0 to 1 / 0 / 1 ]
816-				
164				
5-	Remote Service	Modem Serial No.	CTL*	[ 0 to 0 / 0 / 0 ]
816-				
173				
5-	Remote Service	Retransmission Limit	CTL	[ 0 to 1 / 0 / 1 ]
816-				
174				
5-	Remote Service	FAX TX Priority	CTL*	[ 0 to 1 / 0 / 1 ]
816-				0: Disable, 1: Enable
187				
5-	Remote Service	3G DongleID	CTL*	[ 0 to 0 / 0 / 0 ]
816-				
190				
5-	Remote Service	ppp Connect Timer	CTL*	[ 15 to 30 / 15 / 1min ]
816-				
199				
5-	Remote Service	Manual Polling	CTL	[ 0 to 1 / 0 / 1 ]
816-				
200				
5-	Remote Service	Regist Status	CTL	[ 0 to 255 / 0 / 1 ]
816-				
201				
5-	Remote Service	Letter Number	CTL*	[ 0 to 0 / 0 / 0 ]
816-				
202				
5-	Remote Service	Confirm Execute	CTL	[ 0 to 1 / 0 / 1 ]
816-				
203				
5-	Remote Service	Confirm Result	CTL	[ 0 to 255 / 0 / 1 ]
816-				
204				
5-	Remote Service	Confirm Place	CTL	[ 0 to 1 / 0 / 1 ]

816-				
205				
5-	Remote Service	Register Execute	CTL	[ 0 to 1 / 0 / 1 ]
816-	Remote Service	Register Execute	CIL	
206				
5-	Remote Service	Register Result	CTL	[ 0 to 255 / 0 / 1 ]
816-	Remote Service	Register Result	CIL	[0 to 2557 07 1]
207				
5-	Remote Service	Error Code	CTL	[0 to 0 / 0 / 0]
816-	Remote Service	Entor Code	CIL	[0.007070]
208				
5-	Remote Service	Instl Clear	CTL	[ 0 to 1 / 0 / 1 ]
816-	Remote Service	moti Cicui	CIE	
209				
5-	Remote Service	CommErrorTime	CTL*	[ 0 to 0 / 0 / 1 ]
816-				[ ]
240				
5-	Remote Service	CommErrorCode 1	CTL*	[ 0 to 0xffffffff /
816-				0x00000000 / 1 ]
241				, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
5-	Remote Service	CommErrorCode 2	CTL*	[ 0 to 0xffffffff /
816-				0x00000000 / 1 ]
242				_
5-	Remote Service	CommErrorCode 3	CTL*	[ 0 to 0xffffffff /
816-				0x00000000 / 1 ]
243				
5-	Remote Service	CommErrorState 1	CTL*	[ 0 to 0xffff / 0x0000 / 1 ]
816-				
244				
5-	Remote Service	CommErrorState 2	CTL*	[ 0 to 0xffff / 0x0000 / 1 ]
816-				
245				
5-	Remote Service	CommErrorState 3	CTL*	[ 0 to 0xffff / 0x0000 / 1 ]
816-				
246				
5-	Remote Service	SSL Error Count	CTL*	[ 0 to 255 / 0 / 1 ]
816-				
247				

5-	Remote Service	Other Err Count	CTL*	[ 0 to 255 / 0 / 1 ]
816-				
248				
5-	Remote Service	CommLog Print	CTL	[ 0 to 0 / 0 / 0 ]
816-				
250				
5-	Remote Service RCG Setting	RCG IPv4 Address	CTL*	[ 0 to 0xffffffff / 0 / 1 ]
821-				
002				
5-	Remote Service RCG Setting	RCG Port	CTL*	[ 0 to 65535 / 443 / 1 ]
821-				
003				
5-	Remote Service RCG Setting	RCG IPv4 URL Path	CTL*	[ 0 to 0 / 0 / 0 ]
821-				
004				
5-	Remote Service RCG Setting	RCG IPv6 Address	CTL*	[ 0 to 0 / 0 / 0 ]
821-				
005				
5-	Remote Service RCG Setting	RCG IPv6 URL Path	CTL*	[ 0 to 0 / 0 / 0 ]
821-				
006				
5-	Remote Service RCG Setting	RCG Host Name	CTL*	[ 0 to 0 / 0 / 0 ]
821-				
007				
5-	Remote Service RCG Setting	RCG Host URL Path	CTL*	[ 0 to 0 / 0 / 0 ]
821-				
008				
5-	NV-RAM Data Upload		CTL	[ 0 to 0 / 0 / 0 ]
824-				
001				
5-	NV-RAM Data Download		CTL	[ 0 to 0 / 0 / 0 ]
825-				
001				
5-	Network Setting	User Class	CTL*	[0 to 0/0/0]
828-				
039				
5-	Network Setting	Class Id	CTL*	[ 0 to 0 / 0 / 0 ]
828-				
040				

_	N . 1 0	1001.0	amr :	F.O. 1/1/17
5-	Network Setting	1284 Compatiblity (Centro)	CTL*	[0 to 1/1/1]
828-				
050				
5-	Network Setting	ECP (Centro)	CTL*	[ 0 to 1 / 1 / 1 ]
828-				
052				
5-	Network Setting	Job Spooling	CTL*	[ 0 to 1 / 0 / 1 ]
828-				0: Disabled, 1: Enabled
065				
5-	Network Setting	Job Spooling Clear: Start Time	CTL*	[ 0 to 1 / 1 / 1 ]
828-				0: ON (Data is cleared),
066				1: OFF (Automatically
				printed)
5-	Network Setting	Job Spooling (Protocol)	CTL*	[ 0x00 to 0xff / 0x7f / 0 ]
828-				
069				
5-	Network Setting	Protocol usage	CTL*	[ 0x00000000 to
828-				0xfffffff / 0x00000000 /
087				1]
5-	Network Setting	TELNET(0:OFF 1:ON)	CTL*	[ 0 to 1 / 1 / 1 ]
828-				
090				
5-	Network Setting	Web(0:OFF 1:ON)	CTL*	[ 0 to 1 / 1 / 1 ]
828-				
091				
5-	Network Setting	Active IPv6 Link Local Address	CTL	[0 to 0 / 0 / 0]
828-				
145				
5-	Network Setting	Active IPv6 Stateless Address 1	CTL	[0 to 0 / 0 / 0]
828-				
147				
5-	Network Setting	Active IPv6 Stateless Address 2	CTL	[0 to 0 / 0 / 0]
828-	_			-
149				
5-	Network Setting	Active IPv6 Stateless Address 3	CTL	[0 to 0 / 0 / 0]
828-				
151				
5-	Network Setting	Active IPv6 Stateless Address 4	CTL	[ 0 to 0 / 0 / 0 ]
828-	- Stricting			[ 0 00 0 , 0 , 0 ]
020-				

153				
5-	Network Setting	Active IPv6 Stateless Address 5	CTL	[0 to 0 / 0 / 0]
828-				
155				
5-	Network Setting	IPv6 Manual Address	CTL*	[0 to 0/0/0]
828-				
156				
5-	Network Setting	IPv6 Gateway Address	CTL*	[ 0 to 0 / 0 / 0 ]
828-				
158				
5-	Network Setting	IPv6 Stateless Auto Setting	CTL*	[ 0 to 1 / 1 / 1 ]
828-				
161				
5-	Network Setting	IPsec Aggressive Mode Setting	CTL	[ 0 to 1 / 0 / 1 ]
828-				
219				
5-	Network Setting	Web Item visible	CTL*	[ 0x0000 to 0xffff / 0xffff
828-				/1]
236				
5-	Network Setting	Web shopping link visible	CTL*	[ 0 to 1 / 1 / 1 ]
828-				
237				
5-	Network Setting	Web Supplies Link visible	CTL*	[ 0 to 1 / 1 / 1 ]
828-				
238				
5-	Network Setting	Web Link1 Name	CTL*	[ 0 to 0 / 0 / 0 ]
828-				
239				
5-	Network Setting	Web Link1 URL	CTL*	[ 0 to 0 / 0 / 0 ]
828-				
240				
5-	Network Setting	Web Link1 visible	CTL*	[ 0 to 1 / 1 / 1 ]
828-				
241				
5-	Network Setting	Web Link2 Name	CTL*	[ 0 to 0 / 0 / 0 ]
828-				
242				
5-	Network Setting	Web Link2 URL	CTL*	[ 0 to 0 / 0 / 0 ]

828-				
243				
5-	Network Setting	Web Link2 visible	CTL*	[ 0 to 1 / 1 / 1 ]
828-				
244				
5-	Network Setting	DHCPv6 DUID	CTL*	[0 to 0/0/0]
828-				
249				
5-	HDD	HDD Formatting (ALL)	CTL	[ 0 to 0 / 0 / 0 ]
832-				
001				
5-	HDD	HDD Formatting (IMH)	CTL	[ 0 to 0 / 0 / 0 ]
832-				
002				
5-	HDD	HDD Formatting	CTL	[ 0 to 0 / 0 / 0 ]
832-		(Thumbnail/OCR)		
003				
5-	HDD	HDD Formatting (Job Log)	CTL	[ 0 to 0 / 0 / 0 ]
832-				
004				
5-	HDD	HDD Formatting (Printer Fonts)	CTL	[ 0 to 0 / 0 / 0 ]
832-				
005				
5-	HDD	HDD Formatting (User Info)	CTL	[ 0 to 0 / 0 / 0 ]
832-				
006				
5-	HDD	Mail RX Data	CTL	[ 0 to 0 / 0 / 0 ]
832-				
007				
5-	HDD	Mail TX Data	CTL	[ 0 to 0 / 0 / 0 ]
832-				
008				
5-	HDD	HDD Formatting (Data for a	CTL	[ 0 to 0 / 0 / 0 ]
832-		Design)		
009				
5-	HDD	HDD Formatting (Log)	CTL	[ 0 to 0 / 0 / 0 ]
832-				
010				

5-	HDD	IIDD Formatting (Bidge I/E)	CTL	[ 0 to 0 / 0 / 0 ]
	מעח	HDD Formatting (Ridoc I/F)	CIL	[ 0 to 0 / 0 / 0 ]
832-				
011	· · · · · · · · · · · · · · · · · · ·	11DD D	C/T/	50.0000
5-	HDD	HDD Formatting (Thumbnail)	CTL	[0 to 0/0/0]
832-				
012				
5-	Capture Setting	Capture Function (0:Off 1:On)	CTL*	[ 0 to 1 / 0 / 1 ]
836-				
001				
5-	Capture Setting	Capture Setting: Copy	CTL*	[ 0 to 1 / 0 / 1 ]
836-				
011				
5-	Capture Setting	Capture Setting: Doc. Svr.	CTL*	[ 0 to 1 / 0 / 1 ]
836-				
012				
5-	Capture Setting	Capture Setting: Fax RX Printer	CTL*	[ 0 to 1 / 0 / 1 ]
836-				
013				
5-	Capture Setting	Capture Setting: Fax TX	CTL*	[ 0 to 1 / 0 / 1 ]
836-				
014				
5-	Capture Setting	Capture Setting: Printer	CTL*	[ 0 to 1 / 0 / 1 ]
836-				
015				
5-	Capture Setting	Capture Setting: Scanner	CTL*	[0 to 1/0/1]
836-				
016				
5-	Capture Setting	Capture Setting: SDK	CTL*	[0 to 1/0/1]
836-				
017				
5-	Capture Setting	Captured File Resend (0:Off	CTL*	[ 0 to 1 / 1 / 1 ]
836-		1:On)		
061				
5-	Capture Setting	Reduction for Copy Color	CTL*	[ 0 to 3 / 2 / 1 ]
836-				0: 1to-1, 1: 1/2, 2: 1/3, 3:
071				1/4
5-	Capture Setting	Reduction for Copy B&W Text	CTL*	[0 to 6/0/1]
836-				0: 1to-1, 1: 1/2, 2: 1/3, 3:
072				1/4, 6: 2/3
<u></u>			L	<u> </u>

5-	Capture Setting	Reduction for Copy B&W	CTL*	[ 0 to 6 / 0 / 1 ]
836-	Captair Soung	Other		0: 1to-1, 1: 1/2, 2: 1/3, 3:
073		other		1/4, 6: 2/3
5-	Capture Setting	Reduction for Printer Color	CTL*	[ 0 to 3 / 2 / 1 ]
836-	Cupture Setting	reduction for Finite Color	CIL	0: 1to-1, 1: 1/2, 2: 1/3, 3:
074				1/4
5-	Capture Setting	Reduction for Printer B&W	CTL*	[ 0 to 6 / 0 / 1 ]
836-	Capture Setting	Reduction for Finite B&W	CIL	0: 1to-1, 1: 1/2, 2: 1/3, 3:
075				1/4, 6: 2/3
5-	Capture Setting	Reduction for Printer Color	CTL*	[1 to 5 / 4 / 1]
836-	Capture Setting	1200dpi	CIL	1: 1/2, 3: 1/4, 4: 1/6, 5:
077		1200 <b>u</b> pi		1/8, 6: 2/3
5-	Capture Setting	Reduction for Printer B&W	CTL*	-
836-	Capture Setting		CIL	[1 to 5 / 1 / 1]
078		1200dpi		1: 1/2, 3: 1/4, 4: 1/6, 5:
-	Combana Sattina	F	CTI *	1/8, 6: 2/3
5-	Capture Setting	Format for Copy Color	CTL*	[ 0 to 0 / 0 / 1 ]
836-				
081			amr I	50 0/1/17
5-	Capture Setting	Format for Copy B&W Text	CTL*	[ 0 to 3 / 1 / 1 ]
836-				0: JFIF/JPEG, 1:
082				TIFF/MMR, 2:
				TIFF/MH, 3: TIFF/MR
5-	Capture Setting	Format for Copy B&W Other	CTL*	[ 0 to 3 / 1 / 1 ]
836-				0: JFIF/JPEG, 1:
083				TIFF/MMR, 2:
				TIFF/MH, 3: TIFF/MR
5-	Capture Setting	Format for Printer Color	CTL*	[ 0 to 0 / 0 / 1 ]
836-				
084				
5-	Capture Setting	Format for Printer B&W	CTL*	[ 0 to 3 / 1 / 1 ]
836-				0: JFIF/JPEG, 1:
085				TIFF/MMR, 2:
				TIFF/MH, 3: TIFF/MR
5-	Capture Setting	Default for JPEG	CTL*	[ 5 to 95 / 50 / 1 ]
836-				
091				
5-	Capture Setting	Primary srv IP address	CTL*	[ 0 to 0xffffffff / 0x00 /
836-				0]
101				
		1		

5-	Capture Setting	Primary srv scheme	CTL*	[ 0 to 0 / 0 / 0 ]
836-	Captare Setting	Timary sit seneme	CIE	
102				
5-	Capture Setting	Primary srv port number	CTL*	[ 1 to 65535 / 80 / 1 ]
836-		For summer		
103				
5-	Capture Setting	Primary srv URL path	CTL*	[0 to 0 / 0 / 0]
836-	- capture seeming	l l l l l l l l l l l l l l l l l l l		
104				
5-	Capture Setting	Secondary srv IP address	CTL*	[ 0 to 0xfffffff / 0x00 /
836-				0]
111				. 1
5-	Capture Setting	Secondary srv scheme	CTL*	[0 to 0/0/0]
836-				
112				
5-	Capture Setting	Secondary srv port number	CTL*	[ 1 to 65535 / 80 / 1 ]
836-				
113				
5-	Capture Setting	Secondary srv URL path	CTL*	[0 to 0 / 0 / 0]
836-				
114				
5-	Capture Setting	Default Reso Rate Switch	CTL*	[ 0 to 1 / 0 / 1 ]
836-				
120				
5-	Capture Setting	Reso: Copy(Color)	CTL*	[ 0 to 255 / 2 / 1 ]
836-				0: 600dpi/ 1: 300dpi/ 2:
121				150dpi/ 3: 75dpi
5-	Capture Setting	Reso: Copy(Mono)	CTL*	[ 0 to 255 / 3 / 1 ]
836-				0: 600dpi/ 1: 400dpi/ 2:
122				300dpi/ 3: 200dpi/ 4:
				150dpi/ 5: 100dpi
5-	Capture Setting	Reso: Print(Color)	CTL*	[ 0 to 255 / 2 / 1 ]
836-				0: 600dpi/ 1: 300dpi/ 2:
123				150dpi/ 3: 75dpi
5-	Capture Setting	Reso: Print(Mono)	CTL*	[ 0 to 255 / 3 / 1 ]
836-				0: 600dpi/ 1: 400dpi/ 2:
124				300dpi/ 3: 200dpi/ 4:
				150dpi/ 5: 100dpi
5-	Capture Setting	Reso: Fax(Color)	CTL*	[ 0 to 255 / 4 / 1 ]

026				
836-				
125		D F (M)	CIDI 4	F.O. 255 / 2 / 1 3
5-	Capture Setting	Reso: Fax(Mono)	CTL*	[ 0 to 255 / 3 / 1 ]
836-				0: 600dpi/ 1: 400dpi/ 2:
126				300dpi/ 3: 200dpi/ 4:
				150dpi/ 5: 100dpi/ 6:
				75dpi
5-	Capture Setting	Reso: Scan(Color)	CTL*	[ 0 to 255 / 4 / 1 ]
836-				0: 600dpi/ 1: 400dpi/ 2:
127				300dpi/ 3: 200dpi/ 4:
				150dpi/ 5: 100dpi/ 6:
				75dpi
5-	Capture Setting	Reso: Scan(Mono)	CTL*	[ 0 to 255 / 3 / 1 ]
836-				0: 600dpi/ 1: 400dpi/ 2:
128				300dpi/ 3: 200dpi/ 4:
				150dpi/ 5: 100dpi/ 6:
				75dpi
5-	Capture Setting	Reso: SDK(Color)	CTL*	[ 0 to 255 / 4 / 1 ]
836-				
129				
5-	Capture Setting	Reso: SDK(Mono)	CTL*	[ 0 to 255 / 3 / 1 ]
836-				
130				
5-	Capture Setting	All Addr Info Switch	CTL*	[ 0 to 1 / 1 / 1 ]
836-				
141				
5-	Capture Setting	Stand-by Doc Max Number	CTL*	[ 10 to 10000 / 2000 / 1 ]
836-				
142				
5-	Capture Setting	ClearLightPDF Switch	CTL*	[0 to 1/0/1]
836-				
143				
5-	IEEE 802.11	Channel MAX	CTL*	[ 1 to 14 / 14 / 1 ]
840-				
006				
5-	IEEE 802.11	Channel MIN	CTL*	[1 to 14 / 1 / 1]
840-				
007				
5-	IEEE 802.11	WEP Key Select	CTL*	[ 0x00 to 0x11 / 0x00 /
		J	1	L

840-				0]
011				
5-	IEEE 802.11	WPA Debug Lvl	CTL*	[1 to 3/3/1]
840-				1: Info, 2: warning, 3:
045				error
5-	IEEE 802.11	11w	CTL*	[ 0 to 2 / 0 / 1 ]
840-				
046				
5-	IEEE 802.11	PSK Set Type	CTL*	[ 0 to 1 / 0 / 1 ]
840-				
047				
5-	Supply Name Setting	Toner Name Setting: Black	CTL*	[ 0 to 0 / 0 / 0 ]
841-				
001				
5-	Supply Name Setting	Toner Name Setting: Cyan	CTL*	[ 0 to 0 / 0 / 0 ]
841-				
002				
5-	Supply Name Setting	Toner Name Setting: Yellow	CTL*	[ 0 to 0 / 0 / 0 ]
841-				
003				
5-	Supply Name Setting	Toner Name Setting: Magenta	CTL*	[ 0 to 0 / 0 / 0 ]
841-				
004				
5-	GWWS Analysis	Setting 1	CTL*	[ 0x00 to 0xFF / 0 / 1 ]
842-				
001				
5-	GWWS Analysis	Setting 2	CTL*	[ 0x00 to 0xFF / 0 / 1 ]
842-				
002				
5-	USB	Transfer Rate	CTL*	[ 1 to 4 / 4 / 0 ]
844-				0001: Full speed, 0004:
001				Auto Change
5-	USB	Vendor ID	CTL*	[ 0x0000 to 0xffff /
844-				0x05ca / 0 ]
002				
5-	USB	Product ID	CTL*	[ 0x0000 to 0xffff /
844-				0x0403 / 0 ]
003				

5-	USB	Device Release Number	CTL*	[ 0 to 9999 / 100 / 1 ]
844-	ОЗБ	Device Release Number	CIL	[0 to 99997 1007 1]
004				
5-	USB	Fixed USB Port	CTL*	[ 0 to 2 / 0 / 1 ]
844-	COD	Tixed OBD Fort	CIL	[0 to 27 07 1]
005				
5-	USB	PnP Model Name	CTL*	[ 0 to 0 / 0 / 0 ]
844-	COD	The Model Fund	CIL	
006				
5-	USB	PnP Serial Number	CTL*	[0 to 0 / 0 / 0]
844-				
007				
5-	USB	Mac Supply Level	CTL*	[ 0 to 1 / 1 / 1 ]
844-				
008				
5-	USB	USB Toggle Clear Mode	CTL*	[0 to 1/0/1]
844-				
009				
5-	USB	Notify Unsupport	CTL*	[ 0 to 1 / 1 / 1 ]
844-				
100				
5-	Delivery Server Setting	FTP Port No.	CTL*	[ 1 to 65535 / 3670 / 1 ]
845-				
001				
5-	Delivery Server Setting	IP Address (Primary)	CTL*	[ 0 to 0xffffffff / 0x00 /
845-				0]
002				
5-	Delivery Server Setting	Delivery Error Display Time	CTL*	[ 0 to 999 / 300 / 1sec ]
845-				
006				
5-	Delivery Server Setting	IP Address (Secondary)	CTL*	[ 0 to 0xffffffff / 0x00 /
845-				0]
008				
5-	Delivery Server Setting	Delivery Server Model	CTL*	[ 0 to 4 / 0 / 1 ]
845-				0: Unknown
009				1: SG1 Provided
				2: SG1 Package
				3: SG2 Provided
				4: SG2 Package

5-	Delivery Server Setting	Delivery Svr. Capability	CTL*	[ 0 to 255 / 0 / 1 ]
845-				
010				
5-	Delivery Server Setting	Delivery Svr. Capability (Ext)	CTL*	[ 0 to 255 / 0 / 1 ]
845-				
011				
5-	Delivery Server Setting	Server Scheme(Primary)	CTL*	[ 0 to 0 / 0 / 0 ]
845-				
013				
5-	Delivery Server Setting	Server Port Number(Primary)	CTL*	[ 1 to 65535 / 80 / 1 ]
845-				
014				
5-	Delivery Server Setting	Server URL Path(Primary)	CTL*	[ 0 to 0 / 0 / 0 ]
845-				
015				
5-	Delivery Server Setting	Server Scheme(Secondary)	CTL*	[ 0 to 0 / 0 / 0 ]
845-				
016				
5-	Delivery Server Setting	Server Port	CTL*	[ 1 to 65535 / 80 / 1 ]
845-		Number(Secondary)		
017				
5-	Delivery Server Setting	Server URL Path(Secondary)	CTL*	[ 0 to 0 / 0 / 0 ]
845-				
018				
5-	Delivery Server Setting	Rapid Sending Control	CTL*	[ 0 to 1 / 1 / 1 ]
845-				0: Disable, 1: Enable
022				
5-	UCS Setting	Machine ID (for Delivery	CTL*	[ 0 to 0 / 0 / 0 ]
846-		Server)		
001				
5-	UCS Setting	Machine ID Clear (for Delivery	CTL*	[0 to 0/0/0]
846-		Server)		
002	1100 0		:	
5-	UCS Setting	Maximum Entries	CTL*	[ 2000 to 20000 / 2000 /
846-				1]
003	TIGG G	D. II. G		50. 255.40.44.5
5-	UCS Setting	Delivery Server Retry Timer	CTL*	[ 0 to 255 / 0 / 1 ]
846-				
006				241

846-	5-	UCS Setting	Delivery Server Retry Times	CTL*	[ 0 to 255 / 0 / 1 ]
Delivery Server Maximum	846-				
Section   Sect	007				
DOB	5-	UCS Setting	Delivery Server Maximum	CTL*	[ 2000 to 20000 / 2000 /
DAP Search Timeout	846-		Entries		1]
Section   Sect	008				
5- 846- 020         UCS Setting         WSD Maximum Entries         CTL*         [50 to 250/250/1]           5- 846- 021         UCS Setting         Folder Auth Change         CTL*         [0 to 1/0/1]           5- 846- 040         UCS Setting         Addr Book Migration(USB- >HDD)         CTL         [0 to 0/0/0]           5- 846- 040         UCS Setting         Fill Addr Ael Info         CTL*         [0 to 30/0/1]           5- 846- 041         UCS Setting         Addr Book Media         CTL*         [0 to 30/0/1]           846- 043         UCS Setting         Addr Book Media         CTL*         [0 to 30/0/1]           5- 846- 047         UCS Setting         Initialize Local Addr Book         CTL         [0 to 0/0/0]           5- 846- 047         UCS Setting         Initialize Local Addr Book         CTL         [0 to 0/0/0]           846- 048         UCS Setting         Initialize Delivery Addr Book         CTL         [0 to 0/0/0]           846- 048         UCS Setting         Initialize LDAP Addr Book         CTL         [0 to 0/0/0]	5-	UCS Setting	LDAP Search Timeout	CTL*	[ 1 to 255 / 60 / 1 ]
S-	846-				
846- 020         UCS Setting         Folder Auth Change         CTL*         [0 to 1/0/1]           846- 021         UCS Setting         Addr Book Migration(USB- >HDD)         CTL         [0 to 0/0/0]           846- 040         UCS Setting         Fill Addr Ael Info         CTL         [0 to 0/0/0]           846- 041         UCS Setting         Addr Book Media         CTL*         [0 to 30/0/1]           846- 041         UCS Setting         Addr Book Media         CTL*         [0 to 30/0/1]           846- 043         UCS Setting         Initialize Local Addr Book         CTL         [0 to 0/0/0]           5- 846- 047         UCS Setting         Initialize Local Addr Book         CTL         [0 to 0/0/0]           5- 846- 048         UCS Setting         Initialize Delivery Addr Book         CTL         [0 to 0/0/0]           5- 846- 048         UCS Setting         Initialize LDAP Addr Book         CTL         [0 to 0/0/0]	010				
020         UCS Setting         Folder Auth Change         CTL*         [0 to 1/0/1]           846- 021         Addr Book Migration(USB- >HDD)         CTL         [0 to 0/0/0]           846- 040         PHDD)         CTL         [0 to 0/0/0]           5- 846- 041         UCS Setting         Fill Addr Ael Info         CTL         [0 to 30/0/1]           846- 041         CTL*         [0 to 30/0/1]         0: Unconfirmed           1: SD Slot 1         2: SD Slot 2         4: USB Flash ROM           10: SD Slot 10         20: HDD         30: Nothing           5- 846- 047         UCS Setting         Initialize Local Addr Book         CTL         [0 to 0/0/0]           846- 048         UCS Setting         Initialize Delivery Addr Book         CTL         [0 to 0/0/0]           846- 048         UCS Setting         Initialize LDAP Addr Book         CTL         [0 to 0/0/0]	5-	UCS Setting	WSD Maximum Entries	CTL*	[ 50 to 250 / 250 / 1 ]
S-	846-				
Section   Section   Addr Book Migration(USB-Setting   Addr Book Migration(USB-Setting   SHDD)   Section   Section	020				
021         CYCS Setting         Addr Book Migration(USB- >HDD)         CTL         [0 to 0/0/0]           846- 040         Fill Addr Acl Info         CTL         [0 to 0/0/0]           846- 041         UCS Setting         Addr Book Media         CTL*         [0 to 30/0/1]           846- 043         CTL*         [0 to 30/0/1]         CTL*         UCS D Slot 1           846- 043         1: SD Slot 1         2: SD Slot 2         4: USB Flash ROM           10: SD Slot 10         20: HDD         30: Nothing           5-         UCS Setting         Initialize Local Addr Book         CTL         [0 to 0/0/0]           846- 047         UCS Setting         Initialize Delivery Addr Book         CTL         [0 to 0/0/0]           846- 048         Initialize LDAP Addr Book         CTL         [0 to 0/0/0]	5-	UCS Setting	Folder Auth Change	CTL*	[0 to 1/0/1]
S-	846-				
SHDD    SHDD	021				
040         CTL         [ 0 to 0/0/0 ]           846- 041         Fill Addr Acl Info         CTL         [ 0 to 0/0/0 ]           846- 043         UCS Setting         Addr Book Media         CTL*         [ 0 to 30/0/1 ]           846- 043         0: Unconfirmed         1: SD Slot 1         2: SD Slot 2           4: USB Flash ROM         10: SD Slot 10         20: HDD           30: Nothing         5-         UCS Setting         Initialize Local Addr Book         CTL         [ 0 to 0/0/0 ]           846- 047         UCS Setting         Initialize Delivery Addr Book         CTL         [ 0 to 0/0/0 ]           846- 048         UCS Setting         Initialize LDAP Addr Book         CTL         [ 0 to 0/0/0 ]	5-	UCS Setting	Addr Book Migration(USB-	CTL	[0 to 0 / 0 / 0]
S-	846-		>HDD)		
Section   Sect	040				
041         UCS Setting         Addr Book Media         CTL*         [ 0 to 30/0/1 ]           846- 043         0: Unconfirmed 1: SD Slot 1 2: SD Slot 2 4: USB Flash ROM 10: SD Slot 10 20: HDD 30: Nothing           5- 846- 047         UCS Setting         Initialize Local Addr Book         CTL         [ 0 to 0/0/0 ]           846- 048         UCS Setting         Initialize Delivery Addr Book         CTL         [ 0 to 0/0/0 ]           846- 048         UCS Setting         Initialize LDAP Addr Book         CTL         [ 0 to 0/0/0 ]	5-	UCS Setting	Fill Addr Acl Info	CTL	[ 0 to 0 / 0 / 0 ]
S-   UCS Setting	846-				
846-       0: Unconfirmed         043       1: SD Slot 1         2: SD Slot 2       4: USB Flash ROM         4: USB Flash ROM       10: SD Slot 10         20: HDD       30: Nothing         5-       UCS Setting         Initialize Local Addr Book       CTL       [ 0 to 0/0/0 ]         846-       048         5-       UCS Setting       Initialize Delivery Addr Book       CTL       [ 0 to 0/0/0 ]         846-       048         5-       UCS Setting       Initialize LDAP Addr Book       CTL       [ 0 to 0/0/0 ]	041				
043       1: SD Slot 1         2: SD Slot 2       4: USB Flash ROM         10: SD Slot 10       20: HDD         30: Nothing       30: Nothing         5-       UCS Setting       Initialize Local Addr Book       CTL       [0 to 0/0/0]         846- 047       UCS Setting       Initialize Delivery Addr Book       CTL       [0 to 0/0/0]         846- 048       UCS Setting       Initialize LDAP Addr Book       CTL       [0 to 0/0/0]	5-	UCS Setting	Addr Book Media	CTL*	[ 0 to 30 / 0 / 1 ]
2: SD Slot 2 4: USB Flash ROM 10: SD Slot 10 20: HDD 30: Nothing  5-     UCS Setting	846-				0: Unconfirmed
4: USB Flash ROM   10: SD Slot 10   20: HDD   30: Nothing	043				1: SD Slot 1
10: SD Slot 10   20: HDD   30: Nothing					2: SD Slot 2
20: HDD   30: Nothing					4: USB Flash ROM
30: Nothing   1   30: Nothing   5-					10: SD Slot 10
5- UCS Setting Initialize Local Addr Book CTL [0 to 0/0/0]  846- 047  5- UCS Setting Initialize Delivery Addr Book CTL [0 to 0/0/0]  846- 048  5- UCS Setting Initialize LDAP Addr Book CTL [0 to 0/0/0]  846- 049  Initialize LDAP Addr Book CTL [0 to 0/0/0]					20: HDD
846-       047         5-       UCS Setting       Initialize Delivery Addr Book       CTL       [ 0 to 0 / 0 / 0 ]         846-       048       Initialize LDAP Addr Book       CTL       [ 0 to 0 / 0 / 0 ]         846-       049       Initialize LDAP Addr Book       CTL       [ 0 to 0 / 0 / 0 ]					30: Nothing
047       UCS Setting       Initialize Delivery Addr Book       CTL       [ 0 to 0 / 0 / 0 ]         846- 048       UCS Setting       Initialize LDAP Addr Book       CTL       [ 0 to 0 / 0 / 0 ]         846- 049       UCS Setting       Initialize LDAP Addr Book       CTL       [ 0 to 0 / 0 / 0 ]	5-	UCS Setting	Initialize Local Addr Book	CTL	[ 0 to 0 / 0 / 0 ]
5- UCS Setting Initialize Delivery Addr Book CTL [0 to 0/0/0] 846- 048  5- UCS Setting Initialize LDAP Addr Book CTL [0 to 0/0/0] 846- 049	846-				
846- 048  5- UCS Setting Initialize LDAP Addr Book CTL [0 to 0 / 0 / 0] 846- 049	047				
048         Initialize LDAP Addr Book         CTL         [ 0 to 0 / 0 / 0 ]           846- 049         CTL         [ 0 to 0 / 0 / 0 ]	5-	UCS Setting	Initialize Delivery Addr Book	CTL	[ 0 to 0 / 0 / 0 ]
5- UCS Setting Initialize LDAP Addr Book CTL [0 to 0/0/0] 846- 049	846-				
846- 049	048				
049	5-	UCS Setting	Initialize LDAP Addr Book	CTL	[ 0 to 0 / 0 / 0 ]
	846-				
5- UCS Setting Initialize All Addr Book CTL [0 to 0/0/0]	049				
	5-	UCS Setting	Initialize All Addr Book	CTL	[ 0 to 0 / 0 / 0 ]

846-				
050				
5-	LICE Carrier	Daalaan All Adda Daala	CTL	[04-0/0/0]
	UCS Setting	Backup All Addr Book	CIL	[ 0 to 0 / 0 / 0 ]
846-				
051	Hod d w.	D	CTI	50,0000
5-	UCS Setting	Restore All Addr Book	CTL	[ 0 to 0 / 0 / 0 ]
846-				
052				
5-	UCS Setting	Clear Backup Info	CTL	[ 0 to 0 / 0 / 0 ]
846-				
053				
5-	UCS Setting	Search option	CTL*	[0x00  to  0xff / 0x0f / 1]
846-				
060				
5-	UCS Setting	Complexity option 1	CTL*	[ 0 to 32 / 0 / 1 ]
846-				
062				
5-	UCS Setting	Complexity option 2	CTL*	[ 0 to 32 / 0 / 1 ]
846-				
063				
5-	UCS Setting	Complexity option 3	CTL*	[ 0 to 32 / 0 / 1 ]
846-				
064				
5-	UCS Setting	Complexity option 4	CTL*	[ 0 to 32 / 0 / 1 ]
846-				
065				
5-	UCS Setting	FTP Auth Port Setting	CTL*	[ 0 to 65535 / 3671 / 1 ]
846-				
091				
5-	UCS Setting	Encryption Stat	CTL*	[ 0 to 255 / 0 / 0 ]
846-				
094				
5-	Rep Resolution Reduction	Rate for Copy Color	CTL*	[0 to 5/2/1]
847-	•			0: 1x 1: 1/2x 2:
001				1/3x 3: 1/4x 4:
				1/6x 5: 1/8x
5-	Rep Resolution Reduction	Rate for Copy B&W Text	CTL*	[ 0 to 6 / 0 / 1 ]
847-	T	2 25FJ = 23 11 20110		0: 1x 1: 1/2x 2:
002				1/3x 3: 1/4x 4:
002	<u> </u>			2/2

		1	T	
				1/6x 5: 1/8x 6: 2/3x
5-	Rep Resolution Reduction	Rate for Copy B&W Other	CTL*	[ 0 to 6 / 0 / 1 ]
847-				0: 1x 1: 1/2x 2:
003				1/3x 3: 1/4x 4:
				1/6x 5: 1/8x 6: 2/3x
5-	Rep Resolution Reduction	Rate for Printer Color	CTL*	[ 0 to 5 / 2 / 1 ]
847-				0: 1x 1: 1/2x 2:
004				1/3x 3: 1/4x 4:
				1/6x 5: 1/8x
5-	Rep Resolution Reduction	Rate for Printer B&W	CTL*	[ 0 to 6 / 0 / 1 ]
847-				0: 1x 1: 1/2x 2:
005				1/3x 3: 1/4x 4:
				1/6x 5: 1/8x 6: 2/3x
5-	Rep Resolution Reduction	Rate for Printer Color 1200dpi	CTL*	[ 0 to 5 / 4 / 1 ]
847-				0: 1x 1: 1/2x 2:
006				1/3x 3: 1/4x 4:
				1/6x 5: 1/8x
5-	Rep Resolution Reduction	Rate for Printer B&W 1200dpi	CTL*	[ 0 to 6 / 1 / 1 ]
847-				0: 1x 1: 1/2x 2:
007				1/3x 3: 1/4x 4:
				1/6x 5: 1/8x 6: 2/3x
5-	Rep Resolution Reduction	Network Quality Default for	CTL*	[ 5 to 95 / 50 / 1 ]
847-		JPEG		
021				
5-	Web Service	Access Ctrl:	CTL*	[ 0x00 to 0xFF / 0x02 /
848-		Repository(onlyLower4bits)		0]
002				
5-	Web Service	Access Ctrl: Doc.Svr.Print	CTL*	[ 0x00 to 0xFF / 0x00 /
848-		(Lower 4bits)		0]
003				
5-	Web Service	Access Ctrl: udirectory (Lower	CTL*	[ 0x00 to 0xFF / 0x00 /
848-		4bits)		0]
004				
5-	Web Service	Access Ctrl: Comm. Log	CTL*	[ 0x00 to 0xFF / 0x00 /
848-		Fax(Lower 4bits)		0]
007				
5-	Web Service	Access Ctrl: Job Ctrl (Lower	CTL*	[ 0x00 to 0xFF / 0x00 /
848-		4bits)		0]
009				

Note	5-	Web Service	Access Ctrl:	CTL*	[ 0x00 to 0xFF / 0x00 /
S-	848-		Devicemanagement(Lower		0]
Setting	011		4bits)		
O21	5-	Web Service	Access Ctrl: Delivery (Lower	CTL*	[ 0x00 to 0xFF / 0x00 /
S-	848-		4bits)		0]
848- 022         (Lower 4bits)         0]           5- 848- 024         Web Service         Access Ctrl: Log Service (Lower 4bits)         CTL* 0]         [0x00 to 0xFF / 0x00 / 0]           5- 848- 025         Web Service         Access Ctrl: Rest WebService (Lower 4bits)         CTL* 0]         [0x00 to 0xFF / 0x00 / 0]           5- 848- 0099         Web Service         Repository: Download Image Max. Size         CTL* 0         [1 to 2048 / 2048 / 1]           5- 848- 100         Web Service         Repository: Download Image Max. Size         CTL* 0         [0 to 9/0 / 1]           5- 848- 150         Web Service         Log Operation Mode         CTL* 0         [0 to 9/0 / 1]           5- 848- 150         LogTrans         Setting: Timing         CTL* 0         [0 to 0 / 0 / 0]           5- 848- 217         Installation Date         Display         CTL* 0         [0 to 1 / 1 / 1]           5- 9001         Installation Date         Switch to Print         CTL* 0         [0 to 1 / 1 / 1]           5- 903         Installation Date         Total Counter         CTL* 0         [0 to 99999999 / 0 / 1]           5- 903         Bluetooth         Mode         CTL* 0         [0x00 to 0x01 / 0x00 / 1]	021				
022	5-	Web Service	Access Ctrl: uadministration	CTL*	[ 0x00 to 0xFF / 0x00 /
S-	848-		(Lower 4bits)		0]
Salar	022				
024         Web Service         Access Ctrl: Rest WebService (Lower 4bits)         CTL*         [0x00 to 0xFF/0x00/0]           848-025         Web Service         Repository: Download Image Setting         CTL*         [0x00 to 0xFF/0x00/1]           848-099         Web Service         Repository: Download Image Max. Size         CTL*         [1 to 2048/2048/1]           5-         Web Service         Log Operation Mode         CTL*         [0 to 9/0/1]           5-         LogTrans         Setting: Timing         CTL*         [0 to 2/0/1]           5-         LogTrans         Setting: Timing         CTL*         [0 to 0/0/0]           5-         Installation Date         Display         CTL*         [0 to 0/0/0]           5-         Installation Date         Switch to Print         CTL*         [0 to 0/1/1/1]           600         Total Counter         CTL*         [0 to 99999999/0/1]           849-003         Mode         CTL*         [0x00 to 0x01/0x00/1]           5-         Bluetooth         Mode         CTL*         [0x00 to 0x01/0x00/1]	5-	Web Service	Access Ctrl: Log Service	CTL*	[ 0x00 to 0xFF / 0x00 /
5-         Web Service         Access Ctrl: Rest WebService (Lower 4bits)         CTL*         [ 0x00 to 0xFF / 0x00 / 0 ]           5-         Web Service         Repository: Download Image Setting         CTL*         [ 0x00 to 0xFF / 0x00 / 0 ]           5-         Web Service         Repository: Download Image Max. Size         CTL*         [ 1 to 2048 / 2048 / 1 ]           5-         Web Service         Log Operation Mode         CTL*         [ 0 to 9 / 0 / 1 ]           5-         LogTrans         Setting: Timing         CTL*         [ 0 to 2 / 0 / 1 ]           5-         LogTrans         Setting: Timing         CTL*         [ 0 to 0 / 0 / 0 ]           5-         Installation Date         Display         CTL*         [ 0 to 0 / 0 / 0 ]           5-         Installation Date         Switch to Print         CTL*         [ 0 to 1 / 1 / 1 ]           600         Total Counter         CTL*         [ 0 to 99999999 / 0 / 1 ]           849-         O03         Total Counter         CTL*         [ 0 to 99999999 / 0 / 1 ]           5-         Bluetooth         Mode         CTL*         [ 0x00 to 0x01 / 0x00 / 1 ]	848-		(Lower 4bits)		0]
Setting	024				
Description   Color   Color	5-	Web Service	Access Ctrl: Rest WebService	CTL*	[ 0x00 to 0xFF / 0x00 /
Setting	848-		(Lower 4bits)		0]
848- 099         Setting         1]           5- 848- 100         Web Service         Repository: Download Image Max. Size         CTL*         [1 to 2048 / 2048 / 1]           5- 848- 150         Web Service         Log Operation Mode         CTL*         [0 to 9 / 0 / 1]           5- 848- 217         LogTrans         Setting: Timing         CTL*         [0 to 2 / 0 / 1]           5- 849- 001         Installation Date         Display         CTL*         [0 to 0 / 0 / 0]           5- 849- 002         Installation Date         Switch to Print         CTL*         [0 to 1 / 1 / 1]           5- 849- 003         Installation Date         Total Counter         CTL*         [0 to 99999999 / 0 / 1]           5- 849- 003         Bluetooth         Mode         CTL*         [0 x00 to 0x01 / 0x00 / 1]	025				
Section   Sect	5-	Web Service	Repository: Download Image	CTL*	[ 0x00 to 0xFF / 0x00 /
S-	848-		Setting		1]
848-100       Max. Size         5-848-150       Web Service       Log Operation Mode       CTL* [0 to 9/0/1]         5-848-150       LogTrans       Setting: Timing       CTL* [0 to 2/0/1]         5-848-217       Installation Date       Display       CTL* [0 to 0/0/0]         5-901       Installation Date       Switch to Print       CTL* [0 to 1/1/1]         5-100       Installation Date       Total Counter       CTL* [0 to 99999999/0/1]         5-100       Installation Date       Total Counter       CTL* [0 to 99999999/0/1]         5-100       Bluetooth       Mode       CTL* [0 x00 to 0x01/0x00/1]         5-100       Bluetooth       Mode       CTL* [0 x00 to 0x01/0x00/1]	099				
100	5-	Web Service	Repository: Download Image	CTL*	[ 1 to 2048 / 2048 / 1 ]
5-         Web Service         Log Operation Mode         CTL*         [ 0 to 9 / 0 / 1 ]           5-         LogTrans         Setting: Timing         CTL*         [ 0 to 2 / 0 / 1 ]           5-         Installation Date         Display         CTL*         [ 0 to 0 / 0 / 0 ]           5-         Installation Date         Switch to Print         CTL*         [ 0 to 1 / 1 / 1 ]           849-         002         CTL*         [ 0 to 99999999 / 0 / 1 ]           5-         Installation Date         Total Counter         CTL*         [ 0 to 99999999 / 0 / 1 ]           849-         003         CTL*         [ 0 to 999999999 / 0 / 1 ]           5-         Bluetooth         Mode         CTL*         [ 0x00 to 0x01 / 0x00 / 1 ]	848-		Max. Size		
848-       150       Setting: Timing       CTL*       [ 0 to 2 / 0 / 1 ]         5-       LogTrans       Setting: Timing       CTL*       [ 0 to 2 / 0 / 1 ]         848-       217       Tinstallation Date       Display       CTL*       [ 0 to 0 / 0 / 0 ]         849-       001       Switch to Print       CTL*       [ 0 to 1 / 1 / 1 ]         849-       002       CTL*       [ 0 to 99999999 / 0 / 1 ]         5-       Installation Date       Total Counter       CTL*       [ 0 to 99999999 / 0 / 1 ]         849-       003       Mode       CTL*       [ 0x00 to 0x01 / 0x00 / 1 ]         5-       Bluetooth       Mode       CTL*       [ 0x00 to 0x01 / 0x00 / 1 ]	100				
150	5-	Web Service	Log Operation Mode	CTL*	[0 to 9/0/1]
5-         LogTrans         Setting: Timing         CTL*         [ 0 to 2/0/1 ]           848- 217         Installation Date         Display         CTL*         [ 0 to 0/0/0 ]           849- 001         Installation Date         Switch to Print         CTL*         [ 0 to 1/1/1 ]           849- 002         0: OFF, 1: ON           5- 849- 003         Installation Date         Total Counter         CTL*         [ 0 to 99999999 / 0 / 1 ]           5- 851-         Bluetooth         Mode         CTL*         [ 0x00 to 0x01 / 0x00 / 1 ]	848-				
848-       217         5-       Installation Date       Display       CTL* [0 to 0/0/0]         849-       001         5-       Installation Date       Switch to Print       CTL* [0 to 1/1/1]         849-       002         5-       Installation Date       Total Counter       CTL* [0 to 99999999 / 0 / 1]         849-       003         5-       Bluetooth       Mode       CTL* [0x00 to 0x01 / 0x00 / 1]         851-       Installation Date       Installation Date	150				
217       Installation Date       Display       CTL* [0 to 0/0/0]         849- 001       Switch to Print       CTL* [0 to 1/1/1]         849- 002       0: OFF, 1: ON         5- 849- 003       Installation Date       Total Counter       CTL* [0 to 99999999/0/1]         5- 849- 003       Bluetooth       Mode       CTL* [0x00 to 0x01/0x00/1]         5- 851-       Bluetooth       Mode       CTL* [0x00 to 0x01/0x00/1]	5-	LogTrans	Setting: Timing	CTL*	[ 0 to 2 / 0 / 1 ]
5-         Installation Date         Display         CTL*         [ 0 to 0 / 0 / 0 ]           849- 001         Installation Date         Switch to Print         CTL*         [ 0 to 1 / 1 / 1 ]           849- 002         0: OFF, 1: ON           5- 849- 003         Installation Date         Total Counter         CTL*         [ 0 to 99999999 / 0 / 1 ]           5- 851-         Bluetooth         Mode         CTL*         [ 0x00 to 0x01 / 0x00 / 1 ]	848-				
849- 001  5- Installation Date  Switch to Print  CTL* [0 to 1/1/1] 0: OFF, 1: ON  002  5- Installation Date  Total Counter  CTL* [0 to 99999999 / 0 / 1]  849- 003  5- Bluetooth  Mode  CTL* [0x00 to 0x01 / 0x00 / 1]	217				
001       Switch to Print       CTL* [0 to 1/1/1]         849- 002       0: OFF, 1: ON         5- 849- 003       Installation Date       Total Counter       CTL* [0 to 99999999 / 0 / 1]         5- 851-       Bluetooth       Mode       CTL* [0x00 to 0x01 / 0x00 / 1]	5-	Installation Date	Display	CTL*	[ 0 to 0 / 0 / 0 ]
5-       Installation Date       Switch to Print       CTL*       [ 0 to 1/1/1 ]         849-       002       0: OFF, 1: ON         5-       Installation Date       Total Counter       CTL*       [ 0 to 99999999 / 0 / 1 ]         849-       003       CTL*       [ 0x00 to 0x01 / 0x00 / 1 ]         5-       Bluetooth       Mode       CTL*       [ 0x00 to 0x01 / 0x00 / 1 ]	849-				
849-       0: OFF, 1: ON         002       Total Counter       CTL*       [ 0 to 99999999 / 0 / 1 ]         849-       003       CTL*       [ 0x00 to 0x01 / 0x00 / 1 ]         5-       Bluetooth       Mode       CTL*       [ 0x00 to 0x01 / 0x00 / 1 ]	001				
002       Installation Date       Total Counter       CTL* [ 0 to 99999999 / 0 / 1 ]         849- 003       Mode       CTL* [ 0x00 to 0x01 / 0x00 / 1 ]         5- 851-       Bluetooth       Mode       CTL* [ 0x00 to 0x01 / 0x00 / 1 ]	5-	Installation Date	Switch to Print	CTL*	[ 0 to 1 / 1 / 1 ]
5-       Installation Date       Total Counter       CTL*       [ 0 to 99999999 / 0 / 1 ]         849-       003       CTL*       [ 0 x00 to 0x01 / 0x00 / 1 ]         5-       Bluetooth       Mode       CTL*       [ 0x00 to 0x01 / 0x00 / 1 ]	849-				0: OFF, 1: ON
849- 003	002				
003         Mode         CTL*         [ 0x00 to 0x01 / 0x00 / 1 ]           851-         1 ]	5-	Installation Date	Total Counter	CTL*	[ 0 to 99999999 / 0 / 1 ]
5- Bluetooth Mode CTL* [ 0x00 to 0x01 / 0x00 / 1 ]	849-				
851-	003				
	5-	Bluetooth	Mode	CTL*	[ 0x00 to 0x01 / 0x00 /
	851-				_
	001				

5-	Stamp Data Download		CTL*	[ 0 to 0 / 0 / 0 ]
853-	r			[
001				
5-	Remote ROM Update	Local Port	CTL	[ 0 to 1 / 0 / 1 ]
856-				0: Disable, 1: Enable
002				
5-	Collect Machine Info	0:OFF 1:ON	CTL*	[ 0 to 1 / 1 / 1 ]
858-				
001				
5-	Collect Machine Info	Save To (0:HDD 1:SD)	CTL*	[ 0 to 1 / 0 / 1 ]
858-				
002				
5-	Collect Machine Info	Make Log Trace Dir	CTL*	[0 to 1/0/0]
858-				
003				
5-	Collect Machine Info	Failure Occuring Date	CTL*	[ 0 to 20371212 / 0 / 1 ]
858-				
101				
5-	Collect Machine Info	Tracing Days	CTL*	[ 1 to 180 / 2 / 1day ]
858-				
102				
5-	Collect Machine Info	Acquire Fax Address(0:OFF	CTL*	[0 to 1/0/1]
858-		1:ON)		
103				
5-	Collect Machine Info	Acquire All Info & Logs	CTL*	[ 0 to 1 / 0 / 0 ]
858-				
111				
5-	Collect Machine Info	Acquire Configuration Page	CTL*	[0 to 1/0/0]
858-				
121				
5-	Collect Machine Info	Acquire Font Page	CTL*	[0 to 1/0/0]
858-				
122				
5-	Collect Machine Info	Acquire Print Setting List	CTL*	[ 0 to 1 / 0 / 0 ]
858-				
123				
5-	Collect Machine Info	Acquire Error Log	CTL*	[ 0 to 1 / 0 / 0 ]
858-				
124				
246				

5-	Collect Machine Info	Acquire Fax Info	CTL*	[ 0 to 1 / 0 / 0 ]
858-				
131				
5-	Collect Machine Info	Acquire All Debug Logs	CTL*	[0 to 1/0/0]
858-				
141				
5-	Collect Machine Info	Acquire Controller Debug Logs	CTL*	[ 0 to 1 / 0 / 0 ]
858-		Only		
142				
5-	Collect Machine Info	Acquire Engine Debug Logs	CTL*	[ 0 to 1 / 0 / 0 ]
858-		Only		
143				
5-	Collect Machine Info	Acquire Opepanel Debug Logs	CTL*	[ 0 to 1 / 0 / 0 ]
858-		Only		
144				
5-	Collect Machine Info	Acquire FCU Debug Logs Only	CTL*	[ 0 to 1 / 0 / 0 ]
858-				
145				
5-	Collect Machine Info	Acquire Only Network Packets	CTL*	[ 0 to 1 / 0 / 0 ]
858-				
146				
5-	SMTP/POP3/IMAP4	Partial Mail Receive Timeout	CTL*	[ 1 to 168 / 72 / 1hour ]
860-				
020				
5-	SMTP/POP3/IMAP4	MDN Response RFC2298	CTL*	[ 0 to 1 / 1 / 1 ]
860-		Compliance		0: No, 1: Yes
021				
5-	SMTP/POP3/IMAP4	SMTP Auth. From Field	CTL*	[ 0 to 1 / 0 / 1 ]
860-		Replacement		0: No, 1: Yes
022				
5-	SMTP/POP3/IMAP4	SMTP Auth. Direct Setting	CTL*	[0  to  0xff / 0x0 / 1]
860-				
025				
5-	SMTP/POP3/IMAP4	S/MIME:MIME Header Setting	CTL*	[ 0 to 2 / 0 / 1 ]
860-				0: Microsoft Outlook
026				Express standard
				1: Internet Draft standard
				2: RFC standard
5-	SMTP/POP3/IMAP4	S/MIME: Authentication Check	CTL*	[ 0 to 1 / 0 / 1 ]

860-				0: Check, 1: No check
028				,
5-	E-Mail Report	Report Validity	CTL	[ 0 to 1 / 0 / 1 ]
866-				
001				
5-	E-Mail Report	Add Date Field	CTL	[ 0 to 1 / 0 / 1 ]
866-				
005				
5-	E-Mail Report	CounterE-Mail:Validity	CTL	[ 0 to 1 / 0 / 1 ]
866-				
110				
5-	E-Mail Report	CounterE-Mail:Destination	CTL	[ 0 to 0 / 0 / 0 ]
866-		Registration		
111				
5-	E-Mail Report	CounterE-Mail:Send Test	CTL	[ 0 to 0 / 0 / 0 ]
866-				
112				
5-	E-Mail Report	CounterE-Mail:Next Send Date	CTL	[ 0 to 0 / 0 / 0 ]
866-				
113				
5-	E-Mail Report	CounterE-Mail:Send Date	CTL	[ 0 to 31 / 0 / 1 ]
866-		Setting		
114				
5-	E-Mail Report	CounterE-Mail:Send Time	CTL	[ 0 to 2359 / 0 / 1 ]
866-		Setting		
115				
5-	E-Mail Report	CounterE-Mail:Destination1	CTL	[ 0 to 0 / 0 / 0 ]
866-				
121				
5-	E-Mail Report	CounterE-Mail:Destination2	CTL	[ 0 to 0 / 0 / 0 ]
866-				
122				
5-	E-Mail Report	CounterE-Mail:Destination3	CTL	[ 0 to 0 / 0 / 0 ]
866-				
123				
5-	Common KeyInfo Writing	Writing	CTL	[ 0 to 1 / 0 / 1 ]
870-				
001				

5-	Common KeyInfo Writing	Initialize	CTL	[ 0 to 1 / 0 / 1 ]
870-	, , , ,			
003				
5-	Common Key Info Writing	Writing: 2048bit	CTL	[ 0 to 1 / 0 / 1 ]
870-				
004				
5-	SDCardAppliMove	MoveExec	CTL	[ 0 to 0 / 0 / 1 ]
873-				
001				
5-	SDCardAppliMove	UndoExec	CTL	[ 0 to 0 / 0 / 1 ]
873-				
002				
5-	SC Auto Reboot	Reboot Setting	CTL*	[ 0 to 1 / 0 / 1 ]
875-				
001				
5-	SC Auto Reboot	Reboot Type	CTL*	[ 0 to 1 / 0 / 1 ]
875-				0: Manual reboot, 1:
002				Automatic reboot
5-	Option Setup	Data Overwrite Security	CTL	[ 0 to 0 / 0 / 0 ]
878-				
001				
5-	Option Setup	HDD Encryption	CTL	[ 0 to 0 / 0 / 0 ]
878-				
002				
5-	Option Setup	OCR Dictionary	CTL	[ 0 to 0 / 0 / 0 ]
878-				
004				
5-	Fixed Phrase Block Erasing		CTL	[ 0 to 0 / 0 / 0 ]
881-				
001				
5-	Set WIM Function	DocSvr Acc Ctrl	CTL	[ 0x00 to 0xFF / 0x00 /
885-				0]
020				
5-	Set WIM Function	DocSvr Format	CTL	[ 0 to 2 / 0 / 1 ]
885-				
050				
5-	Set WIM Function	DocSvr Trans	CTL*	[ 5 to 20 / 10 / 1 ]
885-				
051			1	240

	T		1	1
5-	Set WIM Function	Set Signature	CTL*	[ 0 to 2 / 0 / 1 ]
885-				
100				
5-	Set WIM Function	Set Encrypsion	CTL*	[ 0 to 1 / 0 / 1 ]
885-				
101				
5-	Set WIM Function	Detect Mem Leak	CTL*	[ 0x00 to 0xFF / 0x00 /
885-				0]
200				
5-	Set WIM Function	DocSvr Timeout	CTL*	[ 1 to 30 / 30 / 1 ]
885-				
201				
5-	Farm Update Setting	Skip Version Check	CTL*	[ 0 to 1 / 0 / 1 ]
886-				
100				
5-	Farm Update Setting	Skip LR Check	CTL*	[ 0 to 1 / 0 / 1 ]
886-				
101				
5-	Farm Update Setting	Auto Update Setting	CTL*	[ 0 to 1 / 0 / 1 ]
886-				
111				
5-	Farm Update Setting	Auto Update Prohibit Term	CTL*	[ 0 to 1 / 1 / 1 ]
886-		Setting		
112				
5-	Farm Update Setting	Auto Update Prohibit Start hour	CTL*	[ 0 to 23 / 9 / 1hour ]
886-				
113				
5-	Farm Update Setting	Auto Update Prohibit End hour	CTL*	[ 0 to 23 / 17 / 1hour ]
886-				
114				
5-	Farm Update Setting	SFU Auto Download Setting	CTL*	[ 0 to 1 / 0 / 1 ]
886-				
115				
5-	Farm Update Setting	Auto Update Next Date	CTL*	[ 0 to 0 / 0 / 0 ]
886-				
116				
5-	Farm Update Setting	Auto Update Retry Interval	CTL*	[ 1 to 24 / 1 / 1hour ]
886-		Hour		
117				
			1	

5-	Farm Update Setting	Auto Update @Remote Using	CTL*	[ 0 to 1 / 0 / 1 ]
886-		Setting		
119				
5-	Farm Update Setting	Auto Update Prohibit Day of	CTL*	[ 0 to 255 / 0 / 1 ]
886-		Week Setting		
120				
5-	Farm Update Setting	Restore Date	CTL*	[ 0 to 0 / 0 / 0 ]
886-				
201				
5-	Farm Update Setting	Save Old Version List	CTL*	[ 0 to 0 / 0 / 0 ]
886-				
202				
5-	SD GetCounter		CTL	[ 0 to 0 / 0 / 0 ]
887-				
001				
5-	Personal Information Protect		CTL*	[ 0 to 1 / 0 / 1 ]
888-				
001				
5-	SDK Application Counter	SDK-1	CTL	[ 0 to 0 / 0 / 0 ]
893-				
001				
5-	SDK Application Counter	SDK-2	CTL	[ 0 to 0 / 0 / 0 ]
893-				
002				
5-	SDK Application Counter	SDK-3	CTL	[ 0 to 0 / 0 / 0 ]
893-				
003				
5-	SDK Application Counter	SDK-4	CTL	[ 0 to 0 / 0 / 0 ]
893-				
004				
5-	SDK Application Counter	SDK-5	CTL	[ 0 to 0 / 0 / 0 ]
893-				
005				
5-	SDK Application Counter	SDK-6	CTL	[ 0 to 0 / 0 / 0 ]
893-				
006				
5-	SDK Application Counter	SDK-7	CTL	[ 0 to 0 / 0 / 0 ]
893-				
007			1	251

		T	Τ_	
5-	SDK Application Counter	SDK-8	CTL	[ 0 to 0 / 0 / 0 ]
893-				
008				
5-	SDK Application Counter	SDK-9	CTL	[ 0 to 0 / 0 / 0 ]
893-				
009				
5-	SDK Application Counter	SDK-10	CTL	[ 0 to 0 / 0 / 0 ]
893-				
010				
5-	SDK Application Counter	SDK-11	CTL	[ 0 to 0 / 0 / 0 ]
893-				
011				
5-	SDK Application Counter	SDK-12	CTL	[ 0 to 0 / 0 / 0 ]
893-				
012				
5-	Application invalidation	Printer	CTL*	[ 0 to 1 / 0 / 0 ]
895-				
001				
5-	Application invalidation	Scanner	CTL*	[ 0 to 1 / 0 / 0 ]
895-				
002				
5-	Plug & Play Maker/Model		CTL*	[ 0 to 255 / 0 / 1 ]
907-	Name			
001				
5-	Switchover Permission Time	Print Application Timer	CTL*	[ 0 to 30 / 3 / 1 ]
913-				
002				
5-	Copy Server : Set Function	(0:ON 1:OFF)	CTL*	[0 to 1/0/1]
967-		,		
001				
5-	User Stamp Registration	Frame deletion setting	CTL*	[0 to 3/0/1]
973-				
101				
5-	Device Setting	On Board NIC	CTL	[ 0 to 2 / 0 / 1 ]
985-				
001				
5-	Device Setting	On Board USB	CTL	[ 0 to 1 / 0 / 1 ]
985-				[ 5 40 1, 6, 1 ]
002				
002				

5-	SP Print Mode	All (Data List)	CTL	[ 0 to 255 / 0 / 0 ]
990-				
001				
5-	SP Print Mode	SP (Mode Data List)	CTL	[ 0 to 255 / 0 / 0 ]
990-				
002				
5-	SP Print Mode	User Program	CTL	[ 0 to 255 / 0 / 0 ]
990-				
003				
5-	SP Print Mode	Logging Data	CTL	[ 0 to 255 / 0 / 0 ]
990-				
004				
5-	SP Print Mode	Diagnostic Report	CTL	[ 0 to 255 / 0 / 0 ]
990-				
005				
5-	SP Print Mode	Non-Default	CTL	[ 0 to 255 / 0 / 0 ]
990-				
006				
5-	SP Print Mode	NIB Summary	CTL	[ 0 to 0 / 0 / 0 ]
990-				
007				
5-	SP Print Mode	Capture Log	CTL	[ 0 to 255 / 0 / 1 ]
990-				
008	C) (C) D :	G : II P	CTD	50,0000
5-	SMC Print	Copier User Program	CTL	[ 0 to 0 / 0 / 0 ]
990-				
021	CD D 's A M . 1	C CD	CTI	F 0 4 255 / 0 / 0 ]
5-	SP Print Mode	Scanner SP	CTL	[ 0 to 255 / 0 / 0 ]
990- 022				
5-	SP Print Mode	Scanner User Program	CTL	[ 0 to 255 / 0 / 0 ]
990-	SI FIIII WOUC	Scamici Osci Piogram	CIL	[ 0 to 255 / 0 / 0 ]
023				
5-	SP Print Mode	SDK/J Summary	CTL	[ 0 to 0 / 0 / 0 ]
990-	SI IIIII WOO	SDIN S Summary		
024				
5-	SP Print Mode	SDK/J Application Info	CTL	[ 0 to 0 / 0 / 0 ]
990-		~ · · · pp · · · · · · · · · · · · ·		
025				
	1			

990- 026 5- 5- 990- 027 5- 5- 990- 028 SP Print Mode SmartOperationPanel SP CTL [0 to 255/0/0] 990- 028 SP Print Mode SmartOperationPanel UP STL [0 to 255/0/0]  [0 to 255/0/0]  CTL [0 to 0/0/0]	5-	SP Print Mode	Printer SP	CTL	[ 0 to 255 / 0 / 0 ]
S-   SP Print Mode   SmartOperationPanel SP   CTL   [0 to 255/0/0]   SP Print Mode   SmartOperationPanel UP   CTL   [0 to 255/0/0]   SP Print Mode   SmartOperationPanel UP   CTL   [0 to 0/0/0]   SP Text Mode   SP (Mode Data List)   CTL   [0 to 0/0/0]   SP Text Mode   SP (Mode Data List)   CTL   [0 to 0/0/0]   SP Text Mode   SP (Mode Data List)   CTL   [0 to 0/0/0]   SP Text Mode   SP Text Mode   User Program   CTL   [0 to 0/0/0]   SP Text Mode   Logging Data   CTL   [0 to 0/0/0]   SP Text Mode   Diagnostic Report   CTL   [0 to 0/0/0]   SP Text Mode   Non-Default   CTL   [0 to 0/0/0]   SP Text Mode   Non-Default   CTL   [0 to 0/0/0]   SP Text Mode   SP Text Mode   Non-Default   CTL   [0 to 0/0/0]   SP Text Mode   SP Text Mode   SP Text Mode   Capture Log   CTL   [0 to 0/0/0]   SP Text Mode   Capture Log   CTL   [0 to 0/0/0]   SP Text Mode   Capture Log   CTL   [0 to 0/0/0]   SP Text Mode   Capture Log   CTL   [0 to 0/0/0]   SP Text Mode   Capture Log   CTL   [0 to 0/0/0]   SP Text Mode   Capture Program					
990-	026				
990-	5-	SP Print Mode	SmartOperationPanel SP	CTL	[ 0 to 255 / 0 / 0 ]
5- 990- 990- 990- 992- 901	990-		•		
990-  028	027				
028         SP Text Mode         All (Data List)         CTL         [0 to 0/0/0]           992-001         SP Text Mode         SP (Mode Data List)         CTL         [0 to 0/0/0]           5-         SP Text Mode         User Program         CTL         [0 to 0/0/0]           992-003         SP Text Mode         Logging Data         CTL         [0 to 0/0/0]           992-004         SP Text Mode         Diagnostic Report         CTL         [0 to 0/0/0]           992-005         SP Text Mode         Non-Default         CTL         [0 to 0/0/0]           992-006         SP Text Mode         NIB Summary         CTL         [0 to 0/0/0]           5-         SP Text Mode         Capture Log         CTL         [0 to 0/0/0]           992-008         SP Text Mode         Copier User Program         CTL         [0 to 0/0/0]           5-         SP Text Mode         Copier User Program         CTL         [0 to 0/0/0]           5-         SP Text Mode         Scanner SP         CTL         [0 to 0/0/0]	5-	SP Print Mode	SmartOperationPanel UP	CTL	[ 0 to 255 / 0 / 0 ]
5-         SP Text Mode         All (Data List)         CTL         [0 to 0/0/0]           992-001         SP Text Mode         SP (Mode Data List)         CTL         [0 to 0/0/0]           992-002         SP Text Mode         User Program         CTL         [0 to 0/0/0]           992-003         SP Text Mode         Logging Data         CTL         [0 to 0/0/0]           992-004         SP Text Mode         Diagnostic Report         CTL         [0 to 0/0/0]           5-         SP Text Mode         Non-Default         CTL         [0 to 0/0/0]           992-006         SP Text Mode         NIB Summary         CTL         [0 to 0/0/0]           5-         SP Text Mode         Capture Log         CTL         [0 to 255/0/1]           992-008         SP Text Mode         Copier User Program         CTL         [0 to 0/0/0]           5-         SP Text Mode         Copier User Program         CTL         [0 to 0/0/0]           5-         SP Text Mode         Scanner SP         CTL         [0 to 0/0/0]	990-				
992-  001	028				
001         SP Text Mode         SP (Mode Data List)         CTL         [0 to 0/0/0]           992- 002         SP Text Mode         User Program         CTL         [0 to 0/0/0]           5- 992- 003         SP Text Mode         Logging Data         CTL         [0 to 0/0/0]           5- 992- 004         SP Text Mode         Diagnostic Report         CTL         [0 to 0/0/0]           5- 992- 006         SP Text Mode         Non-Default         CTL         [0 to 0/0/0]           5- 992- 007         SP Text Mode         NIB Summary         CTL         [0 to 0/0/0]           5- 992- 008         SP Text Mode         Capture Log         CTL         [0 to 0/0/0]           5- 992- 021         SP Text Mode         Copier User Program         CTL         [0 to 0/0/0]           5- 992- 021         SP Text Mode         Scanner SP         CTL         [0 to 0/0/0]	5-	SP Text Mode	All (Data List)	CTL	[ 0 to 0 / 0 / 0 ]
5- SP Text Mode         SP (Mode Data List)         CTL         [0 to 0/0/0]           992- 002         SP Text Mode         User Program         CTL         [0 to 0/0/0]           5- SP Text Mode         Logging Data         CTL         [0 to 0/0/0]           992- 004         SP Text Mode         Diagnostic Report         CTL         [0 to 0/0/0]           5- SP Text Mode         Non-Default         CTL         [0 to 0/0/0]           992- 006         SP Text Mode         NIB Summary         CTL         [0 to 0/0/0]           5- SP Text Mode         NIB Summary         CTL         [0 to 0/0/0]           992- 007         CTL         [0 to 0/0/0]         CTL           5- SP Text Mode         Capture Log         CTL         [0 to 0/0/0]           5- SP Text Mode         Copier User Program         CTL         [0 to 0/0/0]           5- SP Text Mode         Scanner SP         CTL         [0 to 0/0/0]	992-				
992-   002	001				
002         SP Text Mode         User Program         CTL         [0 to 0/0/0]           992- 003         SP Text Mode         Logging Data         CTL         [0 to 0/0/0]           5- 992- 004         SP Text Mode         Diagnostic Report         CTL         [0 to 0/0/0]           5- 992- 005         SP Text Mode         Non-Default         CTL         [0 to 0/0/0]           5- 992- 006         SP Text Mode         NIB Summary         CTL         [0 to 0/0/0]           5- 992- 007         SP Text Mode         Capture Log         CTL         [0 to 0/0/0]           5- 992- 008         SP Text Mode         Copier User Program         CTL         [0 to 0/0/0]           5- 992- 021         SP Text Mode         Scanner SP         CTL         [0 to 0/0/0]	5-	SP Text Mode	SP (Mode Data List)	CTL	[ 0 to 0 / 0 / 0 ]
5-         SP Text Mode         User Program         CTL         [0 to 0/0/0]           992-         003         CTL         [0 to 0/0/0]           5-         SP Text Mode         Diagnostic Report         CTL         [0 to 0/0/0]           5-         SP Text Mode         Non-Default         CTL         [0 to 0/0/0]           5-         SP Text Mode         NIB Summary         CTL         [0 to 0/0/0]           992-         006         CTL         [0 to 0/0/0]           5-         SP Text Mode         Capture Log         CTL         [0 to 255/0/1]           992-         008         Copier User Program         CTL         [0 to 0/0/0]           5-         SP Text Mode         Copier User Program         CTL         [0 to 0/0/0]           5-         SP Text Mode         Scanner SP         CTL         [0 to 0/0/0]	992-				
992- 003  SP Text Mode  Logging Data  CTL  [0 to 0/0/0]  SP Text Mode  Diagnostic Report  CTL  [0 to 0/0/0]  SP Text Mode  Non-Default  CTL  [0 to 0/0/0]  CTL  CTL  [0 to 0/0/0]  CTL  CTL  [0 to 0/0/0]  CTL  CTL  CTL  [0 to 0/0/0]  CTL  CTL  CTL  CTL  CTL  CTL  CTL  CT	002				
SP Text Mode	5-	SP Text Mode	User Program	CTL	[ 0 to 0 / 0 / 0 ]
SP Text Mode	992-				
992-	003				
004         SP Text Mode         Diagnostic Report         CTL         [0 to 0/0/0]           992- 005         SP Text Mode         Non-Default         CTL         [0 to 0/0/0]           5- 992- 006         SP Text Mode         NIB Summary         CTL         [0 to 0/0/0]           5- 992- 007         SP Text Mode         Capture Log         CTL         [0 to 255/0/1]           5- 992- 008         SP Text Mode         Copier User Program         CTL         [0 to 0/0/0]           5- 992- 021         SP Text Mode         Scanner SP         CTL         [0 to 0/0/0]	5-	SP Text Mode	Logging Data	CTL	[ 0 to 0 / 0 / 0 ]
5-         SP Text Mode         Diagnostic Report         CTL         [ 0 to 0/0/0 ]           992-         005         SP Text Mode         Non-Default         CTL         [ 0 to 0/0/0 ]           5-         SP Text Mode         NIB Summary         CTL         [ 0 to 0/0/0 ]           992-         007         CTL         [ 0 to 255/0/1 ]           5-         SP Text Mode         Capture Log         CTL         [ 0 to 255/0/1 ]           992-         008         COpier User Program         CTL         [ 0 to 0/0/0 ]           5-         SP Text Mode         Scanner SP         CTL         [ 0 to 0/0/0 ]           5-         SP Text Mode         Scanner SP         CTL         [ 0 to 0/0/0 ]	992-				
992- 005  SP Text Mode 992- 006  SP Text Mode Non-Default  CTL  [ 0 to 0/0/0 ]  992- 007  SP Text Mode Capture Log  CTL  [ 0 to 255/0/1 ]  992- 008  SP Text Mode Copier User Program  CTL  [ 0 to 0/0/0 ]	004				
005         SP Text Mode         Non-Default         CTL         [ 0 to 0/0/0 ]           992- 006         SP Text Mode         NIB Summary         CTL         [ 0 to 0/0/0 ]           5- 007         SP Text Mode         Capture Log         CTL         [ 0 to 255/0/1 ]           5- 008         SP Text Mode         Copier User Program         CTL         [ 0 to 0/0/0 ]           5- 021         SP Text Mode         Scanner SP         CTL         [ 0 to 0/0/0 ]	5-	SP Text Mode	Diagnostic Report	CTL	[ 0 to 0 / 0 / 0 ]
5-         SP Text Mode         Non-Default         CTL         [ 0 to 0 / 0 / 0 ]           992-         006         NIB Summary         CTL         [ 0 to 0 / 0 / 0 ]           5-         SP Text Mode         Capture Log         CTL         [ 0 to 255 / 0 / 1 ]           992-         008         Copier User Program         CTL         [ 0 to 0 / 0 / 0 ]           5-         SP Text Mode         Copier User Program         CTL         [ 0 to 0 / 0 / 0 ]           992-         021         CTL         [ 0 to 0 / 0 / 0 ]           5-         SP Text Mode         Scanner SP         CTL         [ 0 to 0 / 0 / 0 ]	992-				
992- 006  SP Text Mode NIB Summary CTL [0 to 0/0/0] 992- 007  SP Text Mode Capture Log CTL [0 to 255/0/1] 992- 008  SP Text Mode Copier User Program CTL [0 to 0/0/0]  SP Text Mode CTL [0 to 0/0/0]  CTL [0 to 0/0/0]  CTL [0 to 0/0/0]	005				
006       SP Text Mode       NIB Summary       CTL       [ 0 to 0/0/0 ]         992- 007       SP Text Mode       Capture Log       CTL       [ 0 to 255/0/1 ]         5- 008       SP Text Mode       Copier User Program       CTL       [ 0 to 0/0/0 ]         992- 021       SP Text Mode       Scanner SP       CTL       [ 0 to 0/0/0 ]	5-	SP Text Mode	Non-Default	CTL	[ 0 to 0 / 0 / 0 ]
5-         SP Text Mode         NIB Summary         CTL         [ 0 to 0/0/0 ]           992- 007         SP Text Mode         Capture Log         CTL         [ 0 to 255/0/1 ]           5- 008         SP Text Mode         Copier User Program         CTL         [ 0 to 0/0/0 ]           5- 992- 021         SP Text Mode         Scanner SP         CTL         [ 0 to 0/0/0 ]	992-				
992- 007  5- SP Text Mode Capture Log CTL [0 to 255 / 0 / 1] 992- 008  5- SP Text Mode Copier User Program CTL [0 to 0 / 0 / 0] 992- 021  5- SP Text Mode Scanner SP CTL [0 to 0 / 0 / 0]	006				
5-       SP Text Mode       Capture Log       CTL       [ 0 to 255 / 0 / 1 ]         992-       008       Copier User Program       CTL       [ 0 to 0 / 0 / 0 ]         5-       SP Text Mode       Copier User Program       CTL       [ 0 to 0 / 0 / 0 ]         5-       SP Text Mode       Scanner SP       CTL       [ 0 to 0 / 0 / 0 ]         992-       022       CTL       [ 0 to 0 / 0 / 0 ]	5-	SP Text Mode	NIB Summary	CTL	[ 0 to 0 / 0 / 0 ]
5-         SP Text Mode         Capture Log         CTL         [ 0 to 255 / 0 / 1 ]           992-         008         Copier User Program         CTL         [ 0 to 0 / 0 / 0 ]           5-         SP Text Mode         Copier User Program         CTL         [ 0 to 0 / 0 / 0 ]           5-         SP Text Mode         Scanner SP         CTL         [ 0 to 0 / 0 / 0 ]           992-         022         CTL         [ 0 to 0 / 0 / 0 ]	992-				
992- 008   Copier User Program   CTL	007				
008         SP Text Mode         Copier User Program         CTL         [ 0 to 0/0/0 ]           992- 021         SP Text Mode         Scanner SP         CTL         [ 0 to 0/0/0 ]           5- 992- 022         SP Text Mode         Scanner SP         CTL         [ 0 to 0/0/0 ]	5-	SP Text Mode	Capture Log	CTL	[ 0 to 255 / 0 / 1 ]
5-       SP Text Mode       Copier User Program       CTL       [ 0 to 0 / 0 / 0 ]         992-       021       CTL       [ 0 to 0 / 0 / 0 ]         5-       SP Text Mode       Scanner SP       CTL       [ 0 to 0 / 0 / 0 ]         992-       022       CTL       [ 0 to 0 / 0 / 0 ]	992-				
992-       021       SP Text Mode       Scanner SP       CTL       [ 0 to 0/0/0 ]         992-       022       CTL       [ 0 to 0/0/0 ]	008				
021         SP Text Mode         Scanner SP         CTL         [ 0 to 0 / 0 / 0 ]           992- 022         CTL         [ 0 to 0 / 0 / 0 ]         CTL	5-	SP Text Mode	Copier User Program	CTL	[ 0 to 0 / 0 / 0 ]
5- SP Text Mode Scanner SP CTL [0 to 0/0/0] 992- 022	992-				
992-	021				
022	5-	SP Text Mode	Scanner SP	CTL	[ 0 to 0 / 0 / 0 ]
	992-				

#### 3.SP Mode Tables

5-	SP Text Mode	Scanner User Program	CTL	[ 0 to 0 / 0 / 0 ]
992-				
023				
5-	SP Text Mode	SDK/J Summary	CTL	[ 0 to 0 / 0 / 0 ]
992-				
024				
5-	SP Text Mode	SDK/J Application Info	CTL	[ 0 to 0 / 0 / 0 ]
992-				
025				
5-	SP Text Mode	Printer SP	CTL	[ 0 to 255 / 0 / 0 ]
992-				
026				
5-	SP Text Mode	SmartOperationPanel SP	CTL	[ 0 to 255 / 0 / 0 ]
992-				
027				
5-	SP Text Mode	SmartOperationPanel UP	CTL	[ 0 to 255 / 0 / 0 ]
992-				
028				

# **SP Tables - SP6-XXX**

### SP6-XXX (Peripherals)

### Engine

SP No.	Large Category	Small Category	ENG or	[Min to
			CTL	Max/Init./Step]
6-006-	ADF Adjustment	Side-to-Side Regist:Face	ENG*	[ -3 to 3 / 0 / 0.1mm ]
001				
6-006-	ADF Adjustment	Side-to-Side Regist (1-	ENG*	[ -2 to 2 / 0 / 0.1mm ]
002		Pass):Back		
6-006-	ADF Adjustment	L-Edge Regist (ARDF):Face	ENG*	[ -5 to 5 / 0 / 0.1mm ]
003				
6-006-	ADF Adjustment	L-Edge Regist (ARDF):Back	ENG*	[ -5 to 5 / 0 / 0.1mm ]
004				
6-006-	ADF Adjustment	Side-to-Side Regist	ENG*	[ -3 to 3 / 0 / 0.1mm ]
005		(ARDF):Back		
6-006-	ADF Adjustment	T-Edge Erase (ARDF)	ENG*	[ -5 to 5 / -1.6 /
007				0.1mm ]
6-006-	ADF Adjustment	L-Edge Regist (1-Pass):Face	ENG*	[ -5 to 5 / 0 / 0.1mm ]
010				
6-006-	ADF Adjustment	L-Edge Regist (1-Pass):Back	ENG*	[ -5 to 5 / 0 / 0.1mm ]
011				
6-006-	ADF Adjustment	T-Edge Erase Width (1-	ENG*	[ -5 to 5 / -1.6 /
014		Pass):Face		0.1mm ]
6-006-	ADF Adjustment	T-Edge Erase Width (1-	ENG*	[ -5 to 5 / -1.6 /
015		Pass):Back		0.1mm ]
6-009-	ADF Free Run	Simplex Mode	ENG	[ 0 or 1 / 0 / 1STEP ]
001				
6-009-	ADF Free Run	Duplex Mode	ENG	[ 0 or 1 / 0 / 1STEP ]
002				
6-017-	ADF Adjustment L-Edge		ENG*	[ -5 to 5 / 0 / 0.1% ]
001	Mag			
6-021-	ARDF Motor	Gain Selection	ENG*	[ 0 to 2 / 0 / 1 ]
001				
6-040-	Page Keeper	Mount Select	ENG*	[ 0 or 1 / 0 / 1 ]
001				
6-040-	Page Keeper	Clear Select	ENG*	[ 0 or 1 / 1 / 1 ]
005				

#### Controller

6800	[Sheet Conversion (Thick Paper)]			
	Not used			
6-800-001	1 to 3 (Initial: 3 Sheets)	CTL	[1 to 3 / <b>3</b> / 1/step]	

6810	[Ring B	ind Sheet Conversio	on (Thick Paper)]
	Not used		
6-810-001	-	CTL	[1 to 3 / <b>3</b> / 1/step]

6830	[Extra]				
	Not used				
6-830-001	Staples 0 to 50 (Initial: 0)	[0 to 50 / <b>0</b> / 1/step]			
6-830-002	Saddles 0 to 50 (Initial: 0)		[0 to 50 / <b>0</b> / 1/step]		
6-830-003	Half-Fold 0 to 50 (Initial: 0)	*CTL	[0 to 50 / <b>0</b> / 1/step]		
6-830-004	Ring Binding 0 to 50 (Initial: 0)	*CTL	[0 to 50 / <b>0</b> / 1/step]		

6890	[Function Enabled]				
	Not used				
6-890-001	Z-Fold *CTL [0 or 1 / 1 / 1/step]				
	0: No Punch 1: Punching OK				
6-890-002	Staple	*CTL	[0 or 1 / <b>0</b> / 1/step]		
	0: No Shift 1: Shift OK				

# **SP Tables - SP7-XXX**

SP7-XXX (Engine: Data Log)

SP No.	Large Category	Small Category	ENG or	[Min to Max/Init./Step]
7-621-	PM Counter Display:	# PCU:Bk	ENG	[ 0 to 99999999 / 0 /
002	Pages	,, 100.BX		lpage]
7-621-	PM Counter Display:	# Dev Unit:Bk	ENG*	[ 0 to 99999999 / 0 /
003	Pages			1page ]
7-621-	PM Counter Display:	# PCU:C	ENG	[ 0 to 99999999 / 0 /
025	Pages			1page ]
7-621-	PM Counter Display:	# Dev Unit:C	ENG*	[ 0 to 99999999 / 0 /
026	Pages			1page ]
7-621-	PM Counter Display:	# PCU:M	ENG	[ 0 to 99999999 / 0 /
048	Pages			1page ]
7-621-	PM Counter Display:	# Dev Unit:M	ENG*	[ 0 to 99999999 / 0 /
049	Pages			1page ]
7-621-	PM Counter Display:	# PCU:Y	ENG	[ 0 to 99999999 / 0 /
071	Pages			lpage]
7-621-	PM Counter Display:	# Dev Unit:Y	ENG*	[ 0 to 99999999 / 0 /
072	Pages			lpage]
7-621-	PM Counter Display:	# ITB Unit	ENG	[ 0 to 99999999 / 0 /
093	Pages			lpage ]
7-621-	PM Counter Display:	# ITB Cleaning Unit	ENG	[ 0 to 99999999 / 0 /
102	Pages			lpage ]
7-621-	PM Counter Display:	# PTR Unit	ENG	[ 0 to 99999999 / 0 /
109	Pages			1page ]
7-621-	PM Counter Display:	# Fusing Unit	ENG	[ 0 to 99999999 / 0 /
115	Pages			1page ]
7-621-	PM Counter Display:	Fusing Sleeve	ENG	[ 0 to 99999999 / 0 /
116	Pages			1page ]
7-621-	PM Counter Display:	Pressure Roller	ENG	[ 0 to 99999999 / 0 /
118	Pages			1page ]
7-621-	PM Counter Display:	#Waste Toner bottle	ENG	[ 0 to 999999999 / 0 /
142	Pages			1mg ]
7-621-	PM Counter Display:	Tray1 Roller Assembly	ENG	[ 0 to 99999999 / 0 /
145	Pages			lpage ]
7-621-	PM Counter Display:	#Paper Feed Roller:Tray1	ENG	[ 0 to 99999999 / 0 /

147	Pages			1page ]
7-621-	PM Counter Display:	#Friction Pad:Tray1	ENG	[ 0 to 99999999 / 0 /
148	Pages			lpage]
7-621-	PM Counter Display:	#Feed Roller:Bypass	ENG	[ 0 to 99999999 / 0 /
169	Pages			lpage]
7-621-	PM Counter Display:	DF Friction Pad	ENG	[ 0 to 99999999 / 0 /
206	Pages			lpage]
7-621-	PM Counter Display:	DF Pickup Roller	ENG	[ 0 to 99999999 / 0 /
207	Pages			lpage ]
7-621-	PM Counter Display:	DF Feed Roller	ENG	[ 0 to 99999999 / 0 /
208	Pages			lpage ]
7-622-	PM Counter Clear	# PCU:Bk	ENG	[ 0 or 1 / 0 / 1 ]
002				
7-622-	PM Counter Clear	# Dev Unit:Bk	ENG	[ 0 or 1 / 0 / 1 ]
003				
7-622-	PM Counter Clear	# PCU:C	ENG	[ 0 or 1 / 0 / 1 ]
025				
7-622-	PM Counter Clear	# Dev Unit:C	ENG	[ 0 or 1 / 0 / 1 ]
026				
7-622-	PM Counter Clear	# PCU:M	ENG	[ 0 or 1 / 0 / 1 ]
048				
7-622-	PM Counter Clear	# Dev Unit:M	ENG	[ 0 or 1 / 0 / 1 ]
049				
7-622-	PM Counter Clear	# PCU:Y	ENG	[ 0 or 1 / 0 / 1 ]
071				
7-622-	PM Counter Clear	# Dev Unit:Y	ENG	[ 0 or 1 / 0 / 1 ]
072				
7-622-	PM Counter Clear	# ITB Unit	ENG	[ 0 or 1 / 0 / 1 ]
093				
7-622-	PM Counter Clear	# ITB Cleaning Unit	ENG	[ 0 or 1 / 0 / 1 ]
102				
7-622-	PM Counter Clear	# PTR Unit	ENG	[ 0 or 1 / 0 / 1 ]
109				
7-622-	PM Counter Clear	# Fusing Unit	ENG	[ 0 or 1 / 0 / 1 ]
115				
7-622-	PM Counter Clear	Fusing Sleeve	ENG	[ 0 or 1 / 0 / 1 ]
116				
7-622-	PM Counter Clear	Pressure Roller	ENG	[ 0 or 1 / 0 / 1 ]

118				
7-622-	PM Counter Clear	Tray1 Roller Assembly	ENG	[ 0 or 1 / 0 / 1 ]
145				
7-622-	PM Counter Clear	#Paper Feed Roller:Tray1	ENG	[ 0 or 1 / 0 / 1 ]
147				
7-622-	PM Counter Clear	#Friction Pad:Tray1	ENG	[ 0 or 1 / 0 / 1 ]
148				
7-622-	PM Counter Clear	#Feed Roller:Bypass	ENG	[ 0 or 1 / 0 / 1 ]
169				
7-622-	PM Counter Clear	DF Friction Pad	ENG	[ 0 or 1 / 0 / 1 ]
206				
7-622-	PM Counter Clear	DF Pickup Roller	ENG	[ 0 or 1 / 0 / 1 ]
207				
7-622-	PM Counter Clear	DF Feed Roller	ENG	[ 0 or 1 / 0 / 1 ]
208	DM C	T. 0.1 H. D.	ENG	FO 1/0/13
7-622-	PM Counter Clear	Toner Sub Hopper:Bk	ENG	[ 0 or 1 / 0 / 1 ]
220	DM Constant Cl	Town C. I. H	ENC	[01/0/13
7-622-	PM Counter Clear	Toner Sub Hopper:C	ENG	[ 0 or 1 / 0 / 1 ]
7-622-	PM Counter Clear	Tonor Sub Horrow M	ENC	[0 or 1 / 0 / 1 ]
222	rivi Countei Cleai	Toner Sub Hopper:M	ENG	[ 0 or 1 / 0 / 1 ]
7-622-	PM Counter Clear	Toner Sub Hopper:Y	ENG	[ 0 or 1 / 0 / 1 ]
223	1111 Countor Cicar	Toner Suo Hopper. 1	2.10	[0011,0/1]
7-622-	PM Counter Clear	PCU:All Colors	ENG	[ 0 or 1 / 0 / 1 ]
245		2000		[]
7-622-	PM Counter Clear	Development Unit:All Colors	ENG	[ 0 or 1 / 0 / 1 ]
246				,
7-622-	PM Counter Clear	Toner Sub Hopper:All Colors	ENG	[ 0 or 1 / 0 / 1 ]
249				
7-622-	PM Counter Clear	All Clear	ENG	[ 0 or 1 / 0 / 1 ]
250				
7-623-	PM Value Setting: Life	# PCU:Bk	ENG	[ 0 to 99999999 / 0 /
002	Pages			1page ]
7-623-	PM Value Setting: Life	# Dev Unit:Bk	ENG	[ 0 to 99999999 / 0 /
003	Pages			1page ]
7-623-	PM Value Setting: Life	# PCU:C	ENG	[ 0 to 99999999 / 0 /
025	Pages			lpage ]
7-623-	PM Value Setting: Life	# Dev Unit:C	ENG	[ 0 to 99999999 / 0 /

026	Pages			1page ]
7-623-	PM Value Setting: Life	# PCU:M	ENG	[ 0 to 99999999 / 0 /
048	Pages			1page ]
7-623-	PM Value Setting: Life	# Dev Unit:M	ENG	[ 0 to 99999999 / 0 /
049	Pages			1page ]
7-623-	PM Value Setting: Life	# PCU:Y	ENG	[ 0 to 99999999 / 0 /
071	Pages			1page ]
7-623-	PM Value Setting: Life	# Dev Unit:Y	ENG	[ 0 to 99999999 / 0 /
072	Pages			1page ]
7-623-	PM Value Setting: Life	# ITB Unit	ENG	[ 0 to 99999999 / 120000
093	Pages			/ lpage ]
7-623-	PM Value Setting: Life	# ITB Cleaning Unit	ENG	[ 0 to 99999999 / 120000
102	Pages			/ lpage ]
7-623-	PM Value Setting: Life	# PTR Unit	ENG	[ 0 to 99999999 / 120000
109	Pages			/ lpage ]
7-623-	PM Value Setting: Life	# Fusing Unit	ENG	[ 0 to 99999999 / 120000
115	Pages			/ lpage ]
7-623-	PM Value Setting: Life	Fusing Sleeve	ENG	[ 0 to 99999999 / 120000
116	Pages			/ lpage ]
7-623-	PM Value Setting: Life	Pressure Roller	ENG	[ 0 to 99999999 / 120000
118	Pages			/ lpage ]
7-623-	PM Value Setting: Life	#Waste Toner bottle	ENG	[ 0 to 999999999 /
142	Pages			800000 / 1mg ]
7-623-	PM Value Setting Life	Tray1 Roller Assembly	ENG	[ 0 to 99999999 / 120000
145	Pages			/ lpage ]
7-623-	PM Value Setting Life	#Paper Feed Roller:Tray1	ENG	[ 0 to 99999999 / 120000
147	Pages			/ lpage ]
7-623-	PM Value Setting Life	#Friction Pad:Tray1	ENG	[ 0 to 99999999 / 120000
148	Pages			/ lpage ]
7-623-	PM Value Setting Life	#Feed Roller:Bypass	ENG	[ 0 to 99999999 / 120000
169	Pages			/ lpage ]
7-625-	Previous Unit Counter:	# PCU:Bk	ENG	[ 0 to 99999999 / 0 /
002	Pages			1page ]
7-625-	Previous Unit Counter:	# Dev Unit:Bk	ENG	[ 0 to 99999999 / 0 /
003	Pages			1page ]
7-625-	Previous Unit Counter:	# PCU:C	ENG	[ 0 to 99999999 / 0 /
025	Pages			1page ]
7-625-	Previous Unit Counter:	# Dev Unit:C	ENG	[ 0 to 99999999 / 0 /

026	Pages			lpage ]
7-625-	Previous Unit Counter:	# PCU:M	ENG	[ 0 to 99999999 / 0 /
048	Pages			lpage ]
7-625-	Previous Unit Counter:	# Dev Unit:M	ENG	[ 0 to 99999999 / 0 /
049	Pages			lpage ]
7-625-	Previous Unit Counter:	# PCU:Y	ENG	[ 0 to 99999999 / 0 /
071	Pages			lpage ]
7-625-	Previous Unit Counter:	# Dev Unit:Y	ENG	[ 0 to 99999999 / 0 /
072	Pages			lpage ]
7-625-	Previous Unit Counter:	# ITB Unit	ENG	[ 0 to 99999999 / 0 /
093	Pages			1page ]
7-625-	Previous Unit Counter:	# ITB Cleaning Unit	ENG	[ 0 to 99999999 / 0 /
102	Pages			lpage ]
7-625-	Previous Unit Counter:	# PTR Unit	ENG	[ 0 to 99999999 / 0 /
109	Pages			lpage ]
7-625-	Previous Unit Counter:	# Fusing Unit	ENG	[ 0 to 99999999 / 0 /
115	Pages			lpage]
7-625-	Previous Unit Counter:	Fusing Sleeve	ENG	[ 0 to 99999999 / 0 /
116	Pages			lpage ]
7-625-	Previous Unit Counter:	Pressure Roller	ENG	[ 0 to 99999999 / 0 /
118	Pages			1page ]
7-625-	Previous Unit Counter:	#Waste Toner bottle	ENG	[ 0 to 999999999 / 0 /
142	Pages			1mg ]
7-625-	Previous Unit Counter:	Tray1 Roller Assembly	ENG	[ 0 to 99999999 / 0 /
145	Pages			1page ]
7-625-	Previous Unit Counter:	#Paper Feed Roller:Tray1	ENG	[ 0 to 99999999 / 0 /
147	Pages			lpage ]
7-625-	Previous Unit Counter:	#Friction Pad:Tray1	ENG	[ 0 to 99999999 / 0 /
148	Pages			lpage]
7-625-	Previous Unit Counter:	#Feed Roller:Bypass	ENG	[ 0 to 99999999 / 0 /
169	Pages			lpage ]
7-625-	Previous Unit Counter:	DF Friction Pad	ENG	[ 0 to 99999999 / 0 /
206	Pages			1page ]
7-625-	Previous Unit Counter:	DF Pickup Roller	ENG	[ 0 to 99999999 / 0 /
207	Pages			lpage]
7-625-	Previous Unit Counter:	DF Feed Roller	ENG	[ 0 to 99999999 / 0 /
208	Pages			lpage]
7-626-	Previous Unit Counter2:	# PCU:Bk	ENG	[ 0 to 99999999 / 0 /

002	Pages			lpage]
7-626-	Previous Unit Counter2:	# Dev Unit:Bk	ENG	[ 0 to 99999999 / 0 /
003	Pages			lpage ]
7-626-	Previous Unit Counter2:	# PCU:C	ENG	[ 0 to 99999999 / 0 /
025	Pages			lpage ]
7-626-	Previous Unit Counter2:	# Dev Unit:C	ENG	[ 0 to 99999999 / 0 /
026	Pages			lpage ]
7-626-	Previous Unit Counter2:	# PCU:M	ENG	[ 0 to 99999999 / 0 /
048	Pages			1page ]
7-626-	Previous Unit Counter2:	# Dev Unit:M	ENG	[ 0 to 99999999 / 0 /
049	Pages			1page ]
7-626-	Previous Unit Counter2:	# PCU:Y	ENG	[ 0 to 99999999 / 0 /
071	Pages			1page ]
7-626-	Previous Unit Counter2:	# Dev Unit:Y	ENG	[ 0 to 99999999 / 0 /
072	Pages			1page ]
7-626-	Previous Unit Counter2:	# ITB Unit	ENG	[ 0 to 99999999 / 0 /
093	Pages			1page ]
7-626-	Previous Unit Counter2:	# ITB Cleaning Unit	ENG	[ 0 to 99999999 / 0 /
102	Pages			1page ]
7-626-	Previous Unit Counter2:	# PTR Unit	ENG	[ 0 to 99999999 / 0 /
109	Pages			1page ]
7-626-	Previous Unit Counter2:	# Fusing Unit	ENG	[ 0 to 99999999 / 0 /
115	Pages			1page ]
7-626-	Previous Unit Counter2:	Fusing Sleeve	ENG	[ 0 to 99999999 / 0 /
116	Pages			1page ]
7-626-	Previous Unit Counter2:	Pressure Roller	ENG	[ 0 to 99999999 / 0 /
118	Pages			1page ]
7-626-	Previous Unit Counter2:	#Waste Toner bottle	ENG	[ 0 to 999999999 / 0 /
142	Pages			1mg ]
7-626-	Previous Unit Counter2:	Tray1 Roller Assembly	ENG	[ 0 to 99999999 / 0 /
145	Pages			1page ]
7-626-	Previous Unit Counter2:	#Paper Feed Roller:Tray1	ENG	[ 0 to 99999999 / 0 /
147	Pages			1page ]
7-626-	Previous Unit Counter2:	#Friction Pad:Tray1	ENG	[ 0 to 99999999 / 0 /
148	Pages			1page ]
7-626-	Previous Unit Counter2:	#Feed Roller:Bypass	ENG	[ 0 to 99999999 / 0 /
169	Pages			1page ]
7-628-	PM Counter Clear	All Clear	ENG	[ 0 or 1 / 0 / 1 ]

002				
7-700-	Accum Cvrg 1 img	Bk	ENG*	[ 0 to 400000000 / 0 /
001	Process.:Disp			0.1% ]
7-700-	Accum Cvrg 1 img	С	ENG*	[ 0 to 400000000 / 0 /
002	Process.:Disp			0.1% ]
7-700-	Accum Cvrg 1 img	M	ENG*	[ 0 to 400000000 / 0 /
003	Process.:Disp			0.1%]
7-700-	Accum Cvrg 1 img	Y	ENG*	[ 0 to 400000000 / 0 /
004	Process.:Disp			0.1%]
7-701-	Accum Cvrg 2 img	Bk	ENG*	[ 0 to 400000000 / 0 /
001	Process.:Disp			0.1%]
7-701-	Accum Cvrg 2 img	С	ENG*	[ 0 to 400000000 / 0 /
002	Process.:Disp			0.1% ]
7-701-	Accum Cvrg 2 img	M	ENG*	[ 0 to 400000000 / 0 /
003	Process.:Disp			0.1% ]
7-701-	Accum Cvrg 2 img	Y	ENG*	[ 0 to 400000000 / 0 /
004	Process.:Disp			0.1% ]
7-710-	Print Pages: Display	Bk	ENG*	[ 0 to 99999999 / 0 /
001				1page ]
7-710-	Print Pages: Display	С	ENG*	[ 0 to 99999999 / 0 /
002				1page ]
7-710-	Print Pages: Display	M	ENG*	[ 0 to 99999999 / 0 /
003				1page ]
7-710-	Print Pages: Display	Y	ENG*	[ 0 to 99999999 / 0 /
004				1page ]
7-720-	Avg. Cvrg for img.:	Bk	ENG*	[ 0 to 100 / 0 / 0.01% ]
001	Display			
7-720-	Avg. Cvrg for img.:	С	ENG*	[ 0 to 100 / 0 / 0.01% ]
002	Display			
7-720-	Avg. Cvrg for img.:	M	ENG*	[ 0 to 100 / 0 / 0.01% ]
003	Display			
7-720-	Avg. Cvrg for img.:	Y	ENG*	[ 0 to 100 / 0 / 0.01% ]
004	Display			
7-801-	ROM No.	Engine	ENG	[-/-/-]
002				
7-801-	ROM No.	PFU	ENG	[-/-/-]
009				
7-801-	ROM No.	PFU2	ENG	[-/-/-]

019				
7-801-	Firmware Version	Engine	ENG	[-/-/-]
102				
7-801-	Firmware Version	PFU	ENG	[-/-/-]
109				
7-801-	Firmware Version	PFU2	ENG	[-/-/-]
119				
7-852-	DF Glass Dust Check	Dust Detection Counter	ENG*	[ 0 to 65535 / 0 / 1 ]
001				
7-852-	DF Glass Dust Check	Dust Detection Clear Counter	ENG*	[ 0 to 65535 / 0 / 1 ]
002				
7-852-	DF Glass Dust Check	(1-Pass) Dust Detection	ENG*	[ 0 to 65535 / 0 / 1 ]
003		Counter: Back		
7-853-	Replace Counter	# PCU:Bk	ENG	[ 0 to 255 / 0 / 1 ]
002				
7-853-	Replace Counter	# Dev Unit:Bk	ENG	[ 0 to 255 / 0 / 1 ]
003				
7-853-	Replace Counter	# PCU:C	ENG	[ 0 to 255 / 0 / 1 ]
025				
7-853-	Replace Counter	# Dev Unit:C	ENG	[ 0 to 255 / 0 / 1 ]
026				
7-853-	Replace Counter	# PCU:M	ENG	[ 0 to 255 / 0 / 1 ]
048	- · ·			50. 255/0/43
7-853-	Replace Counter	# Dev Unit:M	ENG	[ 0 to 255 / 0 / 1 ]
049	D 1 C 4	" DOLL V	ENIC	F.O. 4. 255 / O. / 1.3
7-853-	Replace Counter	# PCU:Y	ENG	[ 0 to 255 / 0 / 1 ]
071 7-853-	Replace Counter	# Dev Unit:Y	ENG	[ 0 to 255 / 0 / 1 ]
072	Replace Counter	# Dev Ont. 1	ENG	[ 0 to 255 / 0 / 1 ]
7-853-	Replace Counter	# ITB Unit	ENG	[ 0 to 255 / 0 / 1 ]
093	Replace Counter	# IIB Omt	LIVO	[ 0 to 255 / 0 / 1 ]
7-853-	Replace Counter	# ITB Cleaning Unit	ENG	[ 0 to 255 / 0 / 1 ]
102	pinet Conner	. 112 Clouding Chit		[ 0 10 200 / 0 / 1 ]
7-853-	Replace Counter	# PTR Unit	ENG	[ 0 to 255 / 0 / 1 ]
109				
7-853-	Replace Counter	# Fusing Unit	ENG	[ 0 to 255 / 0 / 1 ]
115	1			
7-853-	Replace Counter	Fusing Sleeve	ENG	[ 0 to 255 / 0 / 1 ]

116				
7-853-	Replace Counter	Pressure Roller	ENG	[ 0 to 255 / 0 / 1 ]
118				
7-853-	Replace Counter	#Waste Toner bottle	ENG	[ 0 to 255 / 0 / 1 ]
142				
7-906-	Previous Unit	# PCU:Bk	ENG	[ 0 to 4294967295 / 0 /
002	Counter:Distance			1mm ]
7-906-	Previous Unit	# Dev Unit:Bk	ENG	[ 0 to 4294967295 / 0 /
003	Counter:Distance			1mm ]
7-906-	Previous Unit	# PCU:C	ENG	[ 0 to 4294967295 / 0 /
025	Counter:Distance			1mm ]
7-906-	Previous Unit	# Dev Unit:C	ENG	[ 0 to 4294967295 / 0 /
026	Counter:Distance			1mm ]
7-906-	Previous Unit	# PCU:M	ENG	[ 0 to 4294967295 / 0 /
048	Counter:Distance			1mm ]
7-906-	Previous Unit	# Dev Unit:M	ENG	[ 0 to 4294967295 / 0 /
049	Counter:Distance			1mm ]
7-906-	Previous Unit	# PCU:Y	ENG	[ 0 to 4294967295 / 0 /
071	Counter:Distance			1mm ]
7-906-	Previous Unit	# Dev Unit:Y	ENG	[ 0 to 4294967295 / 0 /
072	Counter:Distance			1mm ]
7-906-	Previous Unit	# ITB Unit	ENG	[ 0 to 4294967295 / 0 /
093	Counter:Distance			1mm ]
7-906-	Previous Unit	# ITB Cleaning Unit	ENG	[ 0 to 4294967295 / 0 /
102	Counter:Distance			1mm ]
7-906-	Previous Unit	# PTR Unit	ENG	[ 0 to 4294967295 / 0 /
109	Counter:Distance			1mm ]
7-906-	Previous Unit	# Fusing Unit	ENG	[ 0 to 4294967295 / 0 /
115	Counter:Distance			1mm ]
7-906-	Previous Unit	Fusing Sleeve	ENG	[ 0 to 4294967295 / 0 /
116	Counter:Distance			1mm ]
7-906-	Previous Unit	Pressure Roller	ENG	[ 0 to 4294967295 / 0 /
118	Counter:Distance			1mm ]
7-906-	Previous Unit	Toner Sub Hopper:Bk	ENG	[ 0 to 999999999 / 0 / 1 ]
220	Counter:Distance			
7-906-	Previous Unit	Toner Sub Hopper:C	ENG	[ 0 to 999999999 / 0 / 1 ]
221	Counter:Distance			
7-906-	Previous Unit	Toner Sub Hopper:M	ENG	[ 0 to 999999999 / 0 / 1 ]

222	Counter:Distance			
7-906-	Previous Unit	Toner Sub Hopper:Y	ENG	[ 0 to 999999999 / 0 / 1 ]
223	Counter:Distance			
7-906-	Previous Unit	Low Speed: # PCU:Bk	ENG	[ 0 to 4294967295 / 0 /
230	Counter:Distance			1mm ]
7-906-	Previous Unit	Low Speed: # PCU:C	ENG	[ 0 to 4294967295 / 0 /
231	Counter:Distance			1mm ]
7-906-	Previous Unit	Low Speed: # PCU:M	ENG	[ 0 to 4294967295 / 0 /
232	Counter:Distance			1mm ]
7-906-	Previous Unit	Low Speed: # PCU:Y	ENG	[ 0 to 4294967295 / 0 /
233	Counter:Distance			1mm ]
7-906-	Previous Unit	Middle Speed: # PCU:Bk	ENG	[ 0 to 4294967295 / 0 /
234	Counter:Distance			1mm ]
7-906-	Previous Unit	Middle Speed: # PCU:C	ENG	[ 0 to 4294967295 / 0 /
235	Counter:Distance			1mm ]
7-906-	Previous Unit	Middle Speed: # PCU:M	ENG	[ 0 to 4294967295 / 0 /
236	Counter:Distance			1mm ]
7-906-	Previous Unit	Middle Speed: # PCU:Y	ENG	[ 0 to 4294967295 / 0 /
237	Counter:Distance			1mm ]
7-906-	Previous Unit	Standard Speed2: # PCU:Bk	ENG	[ 0 to 4294967295 / 0 /
238	Counter:Distance			1mm ]
7-907-	Previous Unit	# PCU:Bk	ENG	[ 0 to 255 / 0 / 1% ]
002	Cntr:Distance(%)			
7-907-	Previous Unit	# Dev Unit:Bk	ENG	[ 0 to 255 / 0 / 1% ]
003	Cntr:Distance(%)			
7-907-	Previous Unit	# PCU:C	ENG	[ 0 to 255 / 0 / 1% ]
025	Cntr:Distance(%)			
7-907-	Previous Unit	# Dev Unit:C	ENG	[ 0 to 255 / 0 / 1% ]
026	Cntr:Distance(%)			
7-907-	Previous Unit	# PCU:M	ENG	[ 0 to 255 / 0 / 1% ]
048	Cntr:Distance(%)			
7-907-	Previous Unit	# Dev Unit:M	ENG	[ 0 to 255 / 0 / 1% ]
049	Cntr:Distance(%)			
7-907-	Previous Unit	# PCU:Y	ENG	[ 0 to 255 / 0 / 1% ]
071	Cntr:Distance(%)			
7-907-	Previous Unit	# Dev Unit:Y	ENG	[ 0 to 255 / 0 / 1% ]
072	Cntr:Distance(%)			
7-907-	Previous Unit	# ITB Unit	ENG	[ 0 to 255 / 0 / 1% ]

093	Cntr:Distance(%)			
7-907-	Previous Unit	# ITB Cleaning Unit	ENG	[ 0 to 255 / 0 / 1% ]
102	Cntr:Distance(%)			
7-907-	Previous Unit	# PTR Unit	ENG	[ 0 to 255 / 0 / 1% ]
109	Cntr:Distance(%)			
7-907-	Previous Unit	# Fusing Unit	ENG	[ 0 to 255 / 0 / 1% ]
115	Cntr:Distance(%)			
7-907-	Previous Unit	Fusing Sleeve	ENG	[ 0 to 255 / 0 / 1% ]
116	Cntr:Distance(%)			
7-907-	Previous Unit	Pressure Roller	ENG	[ 0 to 255 / 0 / 1% ]
118	Cntr:Distance(%)			
7-908-	Previous Unit	# PCU:Bk	ENG	[ 0 to 255 / 0 / 1% ]
002	Counter:Pages(%)			
7-908-	Previous Unit	# Dev Unit:Bk	ENG	[ 0 to 255 / 0 / 1% ]
003	Counter:Pages(%)			
7-908-	Previous Unit	# PCU:C	ENG	[ 0 to 255 / 0 / 1% ]
025	Counter:Pages(%)			
7-908-	Previous Unit	# Dev Unit:C	ENG	[ 0 to 255 / 0 / 1% ]
026	Counter:Pages(%)			
7-908-	Previous Unit	# PCU:M	ENG	[ 0 to 255 / 0 / 1% ]
048	Counter:Pages(%)			
7-908-	Previous Unit	# Dev Unit:M	ENG	[ 0 to 255 / 0 / 1% ]
049	Counter:Pages(%)			
7-908-	Previous Unit	# PCU:Y	ENG	[ 0 to 255 / 0 / 1% ]
071	Counter:Pages(%)			
7-908-	Previous Unit	# Dev Unit:Y	ENG	[ 0 to 255 / 0 / 1% ]
072	Counter:Pages(%)			
7-908-	Previous Unit	# ITB Unit	ENG	[ 0 to 255 / 0 / 1% ]
093	Counter:Pages(%)			
7-908-	Previous Unit	# ITB Cleaning Unit	ENG	[ 0 to 255 / 0 / 1% ]
102	Counter:Pages(%)			
7-908-	Previous Unit	# PTR Unit	ENG	[ 0 to 255 / 0 / 1% ]
109	Counter:Pages(%)			
7-908-	Previous Unit	# Fusing Unit	ENG	[ 0 to 255 / 0 / 1% ]
115	Counter:Pages(%)			
7-908-	Previous Unit	Fusing Sleeve	ENG	[ 0 to 255 / 0 / 1% ]
116	Counter:Pages(%)			
7-908-	Previous Unit	Pressure Roller	ENG	[ 0 to 255 / 0 / 1% ]

%] %] %] %]
% ] % ] % ]
% ] % ]
% ] % ]
%]
%]
%]
%]
]
]
]
]
]
]
]
]
]
/ 1% ]

014				
7-931-	Toner Bottle Bk	Refill Information	ENG*	[-/-/-]
015				
7-931-	Toner Bottle Bk	Attachment: Total Counter	ENG*	[ 0 to 99999999 / 0 / 1 ]
016				
7-931-	Toner Bottle Bk	Attachment: Color Counter	ENG*	[ 0 to 99999999 / 0 / 1 ]
017				
7-931-	Toner Bottle Bk	End: Total Counter	ENG*	[ 0 to 99999999 / 0 / 1 ]
018				
7-931-	Toner Bottle Bk	End: Color Counter	ENG*	[ 0 to 99999999 / 0 / 1 ]
019				
7-931-	Toner Bottle Bk	Attachment Date	ENG*	[-/-/-]
020				
7-931-	Toner Bottle Bk	End Date	ENG*	[-/-/-]
021				
7-932-	Toner Bottle M	Machine Serial ID	ENG*	[ 0 to 255 / 0 / 1 ]
001				
7-932-	Toner Bottle M	Cartridge Ver	ENG*	[ 0 to 255 / 0 / 1 ]
002				
7-932-	Toner Bottle M	Brand ID	ENG*	[ 0 to 255 / 0 / 1 ]
003				
7-932-	Toner Bottle M	Area ID	ENG*	[ 0 to 255 / 0 / 1 ]
004				
7-932-	Toner Bottle M	Product ID	ENG*	[ 0 to 255 / 0 / 1 ]
005	T D vI M	C.I. ID	ED I Cok	50, 255, 0, 113
7-932-	Toner Bottle M	Color ID	ENG*	[ 0 to 255 / 0 / 1 ]
006	T D. #1. M	M.'ID	ENIC*	F.O. (255 / O / 1.7)
7-932- 007	Toner Bottle M	Maintenance ID	ENG*	[ 0 to 255 / 0 / 1 ]
7-932-	Toner Bottle M	New Product Information	ENG*	[ 0 to 255 / 0 / 1 ]
008	Toller Bottle W	New Floduct Information	ENG	[0 to 255 / 0 / 1]
7-932-	Toner Bottle M	Recycle Counter	ENG*	[ 0 to 255 / 0 / 1 ]
009	Toller Bottle Wi	Recycle Counter	LIVO	[0 to 255 / 0 / 1]
7-932-	Toner Bottle M	Date	ENG*	[-/-/-]
010	Toner Dounc IVI	Duto	LING	[ [ - / - / - ]
7-932-	Toner Bottle M	SerialNo.	ENG*	[-/-/-]
011	Toner Bottle Wi	Soliuli (o.	121.0	[ ' ' ]
7-932-	Toner Bottle M	Toner Remaining	ENG*	[ 0 to 100 / 100 / 1% ]
, ,,,,,,	Tonor Dottio IVI	Toner Romanning	2110	[ [ 0 100 / 100 / 170 ]

0.1.0				
012				
7-932-	Toner Bottle M	EDP Code	ENG*	[-/-/-]
013				
7-932-	Toner Bottle M	End History	ENG*	[-/-/-]
014				
7-932-	Toner Bottle M	Refill Information	ENG*	[-/-/-]
015				
7-932-	Toner Bottle M	Attachment: Total Counter	ENG*	[ 0 to 99999999 / 0 / 1 ]
016				
7-932-	Toner Bottle M	Attachment: Color Counter	ENG*	[ 0 to 99999999 / 0 / 1 ]
017				
7-932-	Toner Bottle M	End: Total Counter	ENG*	[ 0 to 99999999 / 0 / 1 ]
018				,
7-932-	Toner Bottle M	End: Color Counter	ENG*	[ 0 to 99999999 / 0 / 1 ]
019				,
7-932-	Toner Bottle M	Attachment Date	ENG*	[-/-/-]
020				
7-932-	Toner Bottle M	End Date	ENG*	[-/-/-]
021				
7-933-	Toner Bottle C	Machine Serial ID	ENG*	[ 0 to 255 / 0 / 1 ]
001				
7-933-	Toner Bottle C	Cartridge Ver	ENG*	[ 0 to 255 / 0 / 1 ]
002				
7-933-	Toner Bottle C	Brand ID	ENG*	[ 0 to 255 / 0 / 1 ]
003				[ ]
7-933-	Toner Bottle C	Area ID	ENG*	[ 0 to 255 / 0 / 1 ]
004				
7-933-	Toner Bottle C	Product ID	ENG*	[ 0 to 255 / 0 / 1 ]
005				
7-933-	Toner Bottle C	Color ID	ENG*	[ 0 to 255 / 0 / 1 ]
006				
7-933-	Toner Bottle C	Maintenance ID	ENG*	[ 0 to 255 / 0 / 1 ]
007				
7-933-	Toner Bottle C	New Product Information	ENG*	[ 0 to 255 / 0 / 1 ]
008				
7-933-	Toner Bottle C	Recycle Counter	ENG*	[ 0 to 255 / 0 / 1 ]
009				
7-933-	Toner Bottle C	Date	ENG*	[-/-/-]
L			1	r 1

010				
7-933-	Toner Bottle C	SerialNo.	ENG*	[-/-/-]
011				
7-933-	Toner Bottle C	Toner Remaining	ENG*	[ 0 to 100 / 100 / 1% ]
012				
7-933-	Toner Bottle C	EDP Code	ENG*	[-/-/-]
013				
7-933-	Toner Bottle C	End History	ENG*	[-/-/-]
014				
7-933-	Toner Bottle C	Refill Information	ENG*	[-/-/-]
015				
7-933-	Toner Bottle C	Attachment: Total Counter	ENG*	[ 0 to 99999999 / 0 / 1 ]
016				
7-933-	Toner Bottle C	Attachment: Color Counter	ENG*	[ 0 to 99999999 / 0 / 1 ]
017			This is	5.0.00000000000000000000000000000000000
7-933-	Toner Bottle C	End: Total Counter	ENG*	[ 0 to 99999999 / 0 / 1 ]
018	T. D. W. C.		ENIC	F.O. ( 00000000 / 0 / 1 ]
7-933-	Toner Bottle C	End: Color Counter	ENG*	[ 0 to 99999999 / 0 / 1 ]
019 7-933-	Toner Bottle C	Attackment Data	EMC*	r / / 1
020	Toner Bottle C	Attachment Date	ENG*	[-/-/-]
7-933-	Toner Bottle C	End Date	ENG*	[-/-/-]
021	Toner Bottle C	Life Date	LIVO	[-/-/-]
7-934-	Toner Bottle Y	Machine Serial ID	ENG*	[ 0 to 255 / 0 / 1 ]
001				[
7-934-	Toner Bottle Y	Cartridge Ver	ENG*	[ 0 to 255 / 0 / 1 ]
002				
7-934-	Toner Bottle Y	Brand ID	ENG*	[ 0 to 255 / 0 / 1 ]
003				
7-934-	Toner Bottle Y	Area ID	ENG*	[ 0 to 255 / 0 / 1 ]
004				
7-934-	Toner Bottle Y	Product ID	ENG*	[ 0 to 255 / 0 / 1 ]
005				
7-934-	Toner Bottle Y	Color ID	ENG*	[ 0 to 255 / 0 / 1 ]
006				
7-934-	Toner Bottle Y	Maintenance ID	ENG*	[ 0 to 255 / 0 / 1 ]
007				
7-934-	Toner Bottle Y	New Product Information	ENG*	[ 0 to 255 / 0 / 1 ]

008				
7-934-	Toner Bottle Y	Recycle Counter	ENG*	[ 0 to 255 / 0 / 1 ]
009				
7-934-	Toner Bottle Y	Date	ENG*	[-/-/-]
010				
7-934-	Toner Bottle Y	SerialNo.	ENG*	[-/-/-]
011				
7-934-	Toner Bottle Y	Toner Remaining	ENG*	[ 0 to 100 / 100 / 1% ]
012				
7-934-	Toner Bottle Y	EDP Code	ENG*	[-/-/-]
013				
7-934-	Toner Bottle Y	End History	ENG*	[-/-/-]
014				
7-934-	Toner Bottle Y	Refill Information	ENG*	[-/-/-]
015				
7-934-	Toner Bottle Y	Attachment: Total Counter	ENG*	[ 0 to 99999999 / 0 / 1 ]
016				
7-934-	Toner Bottle Y	Attachment: Color Counter	ENG*	[ 0 to 99999999 / 0 / 1 ]
017				
7-934-	Toner Bottle Y	End: Total Counter	ENG*	[ 0 to 99999999 / 0 / 1 ]
018				
7-934-	Toner Bottle Y	End: Color Counter	ENG*	[ 0 to 99999999 / 0 / 1 ]
019				
7-934-	Toner Bottle Y	Attachment Date	ENG*	[-/-/-]
020				
7-934-	Toner Bottle Y	End Date	ENG*	[-/-/-]
021				
7-935-	Toner Bottle Log 1: Bk	SerialNo.	ENG	[-/-/-]
001				
7-935-	Toner Bottle Log 1: Bk	Attachment Date	ENG	[-/-/-]
002	T D W I 1 D	A. 1 T 1 C	FNIC	F.O
7-935-	Toner Bottle Log 1: Bk	Attachment: Total Counter	ENG	[ 0 to 99999999 / 0 / 1 ]
003	T D. vil. I 4. Di	D.CH.L.C.	EMC*	
7-935-	Toner Bottle Log 1: Bk	Refill Information	ENG*	[-/-/-]
7.025	Tanan Davida Las A. Di	CINI-	ENC	F / / 3
7-935-	Toner Bottle Log 2: Bk	SerialNo.	ENG	[-/-/-]
011	Toman Dattle Lee 2 Di	Attachmant Dete	ENC	r / / 1
7-935-	Toner Bottle Log 2: Bk	Attachment Date	ENG	[-/-/-]

012				
7-935-	Toner Bottle Log 2: Bk	Attachment: Total Counter	ENG	[ 0 to 99999999 / 0 / 1 ]
013				
7-935-	Toner Bottle Log 2: Bk	Refill Information	ENG*	[-/-/-]
014				
7-935-	Toner Bottle Log 3: Bk	SerialNo.	ENG	[-/-/-]
021				
7-935-	Toner Bottle Log 3: Bk	Attachment Date	ENG	[-/-/-]
022				
7-935-	Toner Bottle Log 3: Bk	Attachment: Total Counter	ENG	[ 0 to 99999999 / 0 / 1 ]
023				
7-935-	Toner Bottle Log 3: Bk	Refill Information	ENG*	[-/-/-]
024				
7-935-	Toner Bottle Log 4: Bk	SerialNo.	ENG	[-/-/-]
031	T D at I A DI	Au 1 D	FNIC	5 / / 7
7-935-	Toner Bottle Log 4: Bk	Attachment Date	ENG	[-/-/-]
032	T D I 4. Dl-	Attaches and Tatal Country	ENC	[ 0 4- 00000000 / 0 / 1 ]
7-935- 033	Toner Bottle Log 4: Bk	Attachment: Total Counter	ENG	[ 0 to 99999999 / 0 / 1 ]
7-935-	Toner Bottle Log 4: Bk	Refill Information	ENG*	[-/-/-]
034	Toller Bottle Log 4. Bk	Remi mormation	LIVO	
7-935-	Toner Bottle Log 5: Bk	SerialNo.	ENG	[-/-/-]
041	Toner Bown Bog v. Bu		DI (G	
7-935-	Toner Bottle Log 5: Bk	Attachment Date	ENG	[-/-/-]
042	_			
7-935-	Toner Bottle Log 5: Bk	Attachment: Total Counter	ENG	[ 0 to 99999999 / 0 / 1 ]
043				
7-935-	Toner Bottle Log 5: Bk	Refill Information	ENG*	[-/-/-]
044				
7-936-	Toner Bottle Log 1: M	SerialNo.	ENG	[-/-/-]
001				
7-936-	Toner Bottle Log 1: M	Attachment Date	ENG	[-/-/-]
002				
7-936-	Toner Bottle Log 1: M	Attachment: Total Counter	ENG	[ 0 to 99999999 / 0 / 1 ]
003				
7-936-	Toner Bottle Log 1: M	Refill Information	ENG*	[-/-/-]
004				
7-936-	Toner Bottle Log 2: M	SerialNo.	ENG	[-/-/-]

011				
7-936-	Toner Bottle Log 2: M	Attachment Date	ENG	[-/-/-]
012				
7-936-	Toner Bottle Log 2: M	Attachment: Total Counter	ENG	[ 0 to 99999999 / 0 / 1 ]
013				
7-936-	Toner Bottle Log 2: M	Refill Information	ENG*	[-/-/-]
014				
7-936-	Toner Bottle Log 3: M	SerialNo.	ENG	[-/-/-]
021				
7-936-	Toner Bottle Log 3: M	Attachment Date	ENG	[-/-/-]
022				
7-936-	Toner Bottle Log 3: M	Attachment: Total Counter	ENG	[ 0 to 99999999 / 0 / 1 ]
023				
7-936-	Toner Bottle Log 3: M	Refill Information	ENG*	[-/-/-]
024				
7-936-	Toner Bottle Log 4: M	SerialNo.	ENG	[-/-/-]
031				
7-936-	Toner Bottle Log 4: M	Attachment Date	ENG	[-/-/-]
032				
7-936-	Toner Bottle Log 4: M	Attachment: Total Counter	ENG	[ 0 to 99999999 / 0 / 1 ]
033				
7-936-	Toner Bottle Log 4: M	Refill Information	ENG*	[-/-/-]
034				
7-936-	Toner Bottle Log 5: M	SerialNo.	ENG	[-/-/-]
041				
7-936-	Toner Bottle Log 5: M	Attachment Date	ENG	[-/-/-]
042				
7-936-	Toner Bottle Log 5: M	Attachment: Total Counter	ENG	[ 0 to 99999999 / 0 / 1 ]
043				
7-936-	Toner Bottle Log 5: M	Refill Information	ENG*	[-/-/-]
044	m p	G : N	EN C	F / / 3
7-937-	Toner Bottle Log 1: C	SerialNo.	ENG	[-/-/-]
001	T. D. H. I. C.	Au 1 D	FNC	F / / 3
7-937-	Toner Bottle Log 1: C	Attachment Date	ENG	[-/-/-]
002	T. D. W. T. A. C.	Au 1 T 1 C	FNG	F.O
7-937-	Toner Bottle Log 1: C	Attachment: Total Counter	ENG	[ 0 to 99999999 / 0 / 1 ]
003	T. D. H. I. C.	D CH L C	DMC*	F / / 3
7-937-	Toner Bottle Log 1: C	Refill Information	ENG*	[-/-/-]

004				
7-937-	Toner Bottle Log 2: C	SerialNo.	ENG	[-/-/-]
011				
7-937-	Toner Bottle Log 2: C	Attachment Date	ENG	[-/-/-]
012				
7-937-	Toner Bottle Log 2: C	Attachment: Total Counter	ENG	[ 0 to 99999999 / 0 / 1 ]
013				
7-937-	Toner Bottle Log 2: C	Refill Information	ENG*	[-/-/-]
014				
7-937-	Toner Bottle Log 3: C	SerialNo.	ENG	[-/-/-]
021				
7-937-	Toner Bottle Log 3: C	Attachment Date	ENG	[-/-/-]
022				
7-937-	Toner Bottle Log 3: C	Attachment: Total Counter	ENG	[ 0 to 99999999 / 0 / 1 ]
023				
7-937-	Toner Bottle Log 3: C	Refill Information	ENG*	[-/-/-]
024				
7-937-	Toner Bottle Log 4: C	SerialNo.	ENG	[-/-/-]
031				
7-937-	Toner Bottle Log 4: C	Attachment Date	ENG	[-/-/-]
032	T. D. W. I. A. C.	A 1 T . 1 C	ENG	F.O. / 00000000 / 0 / 1 ]
7-937-	Toner Bottle Log 4: C	Attachment: Total Counter	ENG	[ 0 to 99999999 / 0 / 1 ]
033 7-937-	Tonor Pottle Log 4: C	Dofil Information	ENG*	Г / / 1
034	Toner Bottle Log 4: C	Refill Information	ENG	[-/-/-]
7-937-	Toner Bottle Log 5: C	SerialNo.	ENG	[-/-/-]
041	Toner Bottle Log 3. C	Scrianto.	LIVO	[-/-/-]
7-937-	Toner Bottle Log 5: C	Attachment Date	ENG	[-/-/-]
042	Toner Boule Bog 5. C		Live	
7-937-	Toner Bottle Log 5: C	Attachment: Total Counter	ENG	[ 0 to 99999999 / 0 / 1 ]
043				
7-937-	Toner Bottle Log 5: C	Refill Information	ENG*	[-/-/-]
044				
7-938-	Toner Bottle Log 1: Y	SerialNo.	ENG	[-/-/-]
001				
7-938-	Toner Bottle Log 1: Y	Attachment Date	ENG	[-/-/-]
002				
7-938-	Toner Bottle Log 1: Y	Attachment: Total Counter	ENG	[ 0 to 99999999 / 0 / 1 ]

003				
7-938-	Toner Bottle Log 1: Y	Refill Information	ENG*	[-/-/-]
004				
7-938-	Toner Bottle Log 2: Y	SerialNo.	ENG	[-/-/-]
011				
7-938-	Toner Bottle Log 2: Y	Attachment Date	ENG	[-/-/-]
012				
7-938-	Toner Bottle Log 2: Y	Attachment: Total Counter	ENG	[ 0 to 99999999 / 0 / 1 ]
013				
7-938-	Toner Bottle Log 2: Y	Refill Information	ENG*	[-/-/-]
014				
7-938-	Toner Bottle Log 3: Y	SerialNo.	ENG	[-/-/-]
021				
7-938-	Toner Bottle Log 3: Y	Attachment Date	ENG	[-/-/-]
022				
7-938-	Toner Bottle Log 3: Y	Attachment: Total Counter	ENG	[ 0 to 99999999 / 0 / 1 ]
023				
7-938-	Toner Bottle Log 3: Y	Refill Information	ENG*	[-/-/-]
024				
7-938-	Toner Bottle Log 4: Y	SerialNo.	ENG	[-/-/-]
031				
7-938-	Toner Bottle Log 4: Y	Attachment Date	ENG	[-/-/-]
032				
7-938-	Toner Bottle Log 4: Y	Attachment: Total Counter	ENG	[ 0 to 99999999 / 0 / 1 ]
033				
7-938-	Toner Bottle Log 4: Y	Refill Information	ENG*	[-/-/-]
034				
7-938-	Toner Bottle Log 5: Y	SerialNo.	ENG	[-/-/-]
041				
7-938-	Toner Bottle Log 5: Y	Attachment Date	ENG	[-/-/-]
042				
7-938-	Toner Bottle Log 5: Y	Attachment: Total Counter	ENG	[ 0 to 99999999 / 0 / 1 ]
043				
7-938-	Toner Bottle Log 5: Y	Refill Information	ENG*	[-/-/-]
044				
7-940-	PM Value Setting:Life	# PCU:Bk	ENG	[ 0 to 999999999 / 0 /
002	Distance			1mm ]
7-940-	PM Value Setting:Life	# Dev Unit:Bk	ENG	[ 0 to 999999999 / 0 /

003	Distance			1mm ]
7-940-	PM Value Setting:Life	# PCU:C	ENG	[ 0 to 999999999 / 0 /
025	Distance			1mm ]
7-940-	PM Value Setting:Life	# Dev Unit:C	ENG	[ 0 to 999999999 / 0 /
026	Distance			1mm ]
7-940-	PM Value Setting:Life	# PCU:M	ENG	[ 0 to 999999999 / 0 /
048	Distance			1mm ]
7-940-	PM Value Setting:Life	# Dev Unit:M	ENG	[ 0 to 999999999 / 0 /
049	Distance			1mm ]
7-940-	PM Value Setting:Life	# PCU:Y	ENG	[ 0 to 999999999 / 0 /
071	Distance			1mm ]
7-940-	PM Value Setting:Life	# Dev Unit:Y	ENG	[ 0 to 999999999 / 0 /
072	Distance			1mm ]
7-940-	PM Value Setting:Life	# ITB Unit	ENG	[ 0 to 999999999 /
093	Distance			95873985 / 1mm ]
7-940-	PM Value Setting:Life	# ITB Cleaning Unit	ENG	[ 0 to 999999999 /
102	Distance			95873985 / 1mm ]
7-940-	PM Value Setting:Life	# PTR Unit	ENG	[ 0 to 999999999 /
109	Distance			95873985 / 1mm ]
7-940-	PM Value Setting:Life	# Fusing Unit	ENG	[ 0 to 999999999 /
115	Distance			168978600 / 1mm ]
7-940-	PM Value Setting:Life	Fusing Sleeve	ENG	[ 0 to 999999999 /
116	Distance			168978600 / 1mm ]
7-940-	PM Value Setting:Life	Pressure Roller	ENG	[ 0 to 999999999 /
118	Distance			168978600 / 1mm ]
7-942-	PM Counter	# PCU:Bk	ENG	[ 0 to 255 / 0 / 1% ]
002	Display:Distance(%)			
7-942-	PM Counter	# Dev Unit:Bk	ENG	[ 0 to 255 / 0 / 1% ]
003	Display:Distance(%)			
7-942-	PM Counter	# PCU:C	ENG	[ 0 to 255 / 0 / 1% ]
025	Display:Distance(%)			
7-942-	PM Counter	# Dev Unit:C	ENG	[ 0 to 255 / 0 / 1% ]
026	Display:Distance(%)			
7-942-	PM Counter	# PCU:M	ENG	[ 0 to 255 / 0 / 1% ]
048	Display:Distance(%)			
7-942-	PM Counter	# Dev Unit:M	ENG	[ 0 to 255 / 0 / 1% ]
049	Display:Distance(%)			
7-942-	PM Counter	# PCU:Y	ENG	[ 0 to 255 / 0 / 1% ]

0.51	D: 1 D:			
071	Display:Distance(%)			
7-942-	PM Counter	# Dev Unit: Y	ENG	[ 0 to 255 / 0 / 1% ]
072	Display:Distance(%)			
7-942-	PM Counter	# ITB Unit	ENG	[ 0 to 255 / 0 / 1% ]
093	Display:Distance(%)			
7-942-	PM Counter	# ITB Cleaning Unit	ENG	[ 0 to 255 / 0 / 1% ]
102	Display:Distance(%)			
7-942-	PM Counter	# PTR Unit	ENG	[ 0 to 255 / 0 / 1% ]
109	Display:Distance(%)			
7-942-	PM Counter	# Fusing Unit	ENG	[ 0 to 255 / 0 / 1% ]
115	Display:Distance(%)			
7-942-	PM Counter	Fusing Sleeve	ENG	[ 0 to 255 / 0 / 1% ]
116	Display:Distance(%)			
7-942-	PM Counter	Pressure Roller	ENG	[ 0 to 255 / 0 / 1% ]
118	Display:Distance(%)			
7-944-	PM Counter Display:	# PCU:Bk	ENG*	[ 0 to 4294967295 / 0 /
002	Distance			1mm ]
7-944-	PM Counter Display:	# Dev Unit:Bk	ENG*	[ 0 to 4294967295 / 0 /
003	Distance			1mm ]
7-944-	PM Counter Display:	# PCU:C	ENG*	[ 0 to 4294967295 / 0 /
025	Distance			1mm ]
7-944-	PM Counter Display:	# Dev Unit:C	ENG*	[ 0 to 4294967295 / 0 /
026	Distance			1mm ]
7-944-	PM Counter Display:	# PCU:M	ENG*	[ 0 to 4294967295 / 0 /
048	Distance			1mm ]
7-944-	PM Counter Display:	# Dev Unit:M	ENG*	[ 0 to 4294967295 / 0 /
049	Distance			1mm ]
7-944-	PM Counter Display:	# PCU:Y	ENG*	[ 0 to 4294967295 / 0 /
071	Distance			1mm ]
7-944-	PM Counter Display:	# Dev Unit:Y	ENG*	[ 0 to 4294967295 / 0 /
072	Distance			1mm ]
7-944-	PM Counter Display:	# ITB Unit	ENG	[ 0 to 4294967295 / 0 /
093	Distance			1mm ]
7-944-	PM Counter Display:	# ITB Cleaning Unit	ENG	[ 0 to 4294967295 / 0 /
102	Distance			1mm ]
7-944-	PM Counter Display:	# PTR Unit	ENG	[ 0 to 4294967295 / 0 /
109	Distance			1mm ]
7-944-	PM Counter Display:	# Fusing Unit	ENG	[ 0 to 4294967295 / 0 /
	in the second se		,	1 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

115	Distance			1mm ]
7-944-	PM Counter Display:	Fusing Sleeve	ENG	[ 0 to 4294967295 / 0 /
116	Distance			1mm ]
7-944-	PM Counter Display:	Pressure Roller	ENG	[ 0 to 4294967295 / 0 /
118	Distance			1mm ]
7-944-	PM Counter Display:	Toner Sub Hopper:Bk	ENG	[ 0 to 999999999 / 0 / 1 ]
220	Distance			
7-944-	PM Counter Display:	Toner Sub Hopper:C	ENG	[ 0 to 999999999 / 0 / 1 ]
221	Distance			
7-944-	PM Counter Display:	Toner Sub Hopper:M	ENG	[ 0 to 999999999 / 0 / 1 ]
222	Distance			
7-944-	PM Counter Display:	Toner Sub Hopper:Y	ENG	[ 0 to 999999999 / 0 / 1 ]
223	Distance			
7-944-	PM Counter Display:	Low Speed: # PCU:Bk	ENG	[ 0 to 4294967295 / 0 /
230	Distance			1mm ]
7-944-	PM Counter Display:	Low Speed: # PCU:C	ENG	[ 0 to 4294967295 / 0 /
231	Distance			1mm ]
7-944-	PM Counter Display:	Low Speed: # PCU:M	ENG	[ 0 to 4294967295 / 0 /
232	Distance			1mm ]
7-944-	PM Counter Display:	Low Speed: # PCU:Y	ENG	[ 0 to 4294967295 / 0 /
233	Distance			1mm ]
7-944-	PM Counter Display:	Middle Speed: # PCU:Bk	ENG	[ 0 to 4294967295 / 0 /
234	Distance			1mm ]
7-944-	PM Counter Display:	Middle Speed: # PCU:C	ENG	[ 0 to 4294967295 / 0 /
235	Distance			1mm ]
7-944-	PM Counter Display:	Middle Speed: # PCU:M	ENG	[ 0 to 4294967295 / 0 /
236	Distance			1mm ]
7-944-	PM Counter Display:	Middle Speed: # PCU:Y	ENG	[ 0 to 4294967295 / 0 /
237	Distance			1mm ]
7-944-	PM Counter Display:	Standard Speed2: # PCU:Bk	ENG	[ 0 to 4294967295 / 0 /
238	Distance			1mm ]
7-944-	PM Counter Display:	ITB Unit:FC	ENG	[ 0 to 4294967295 / 0 /
240	Distance			1mm ]
7-950-	Unit Replacement Date	# PCU:Bk	ENG*	[-/-/-]
002				
7-950-	Unit Replacement Date	# Dev Unit:Bk	ENG*	[-/-/-]
003				
7-950-	Unit Replacement Date	# PCU:C	ENG*	[-/-/-]

025				
7-950-	Unit Replacement Date	# Dev Unit:C	ENG*	[-/-/-]
026				
7-950-	Unit Replacement Date	# PCU:M	ENG*	[-/-/-]
048				
7-950-	Unit Replacement Date	# Dev Unit:M	ENG*	[-/-/-]
049				
7-950-	Unit Replacement Date	# PCU:Y	ENG*	[-/-/-]
071				
7-950-	Unit Replacement Date	# Dev Unit:Y	ENG*	[-/-/-]
072				
7-950-	Unit Replacement Date	# ITB Unit	ENG*	[-/-/-]
093				
7-950-	Unit Replacement Date	# ITB Cleaning Unit	ENG*	[-/-/-]
102				
7-950-	Unit Replacement Date	# PTR Unit	ENG*	[-/-/-]
109				
7-950-	Unit Replacement Date	# Fusing Unit	ENG*	[-/-/-]
115				
7-950-	Unit Replacement Date	Fusing Sleeve	ENG*	[-/-/-]
116				
7-950-	Unit Replacement Date	Pressure Roller	ENG*	[-/-/-]
118				
7-950-	Unit Replacement Date	#Waste Toner bottle	ENG*	[-/-/-]
142				
7-950-	Unit Replacement Date	Tray1 Roller Assembly	ENG	[-/-/-]
145				
7-950-	Unit Replacement Date	#Paper Feed Roller:Tray1	ENG	[-/-/-]
147				
7-950-	Unit Replacement Date	#Friction Pad:Tray1	ENG	[-/-/-]
148		//E 15 11 5	Fire	
7-950-	Unit Replacement Date	#Feed Roller:Bypass	ENG	[-/-/-]
169	D : D =	# PGM PI	Fire	50.055.055.05
7-951-	Remain Day Counter:	# PCU:Bk	ENG	[ 0 to 255 / 255 / 1day ]
002	Pages	// D	FNIC	F.O. 255 (5-5-1-1-1-
7-951-	Remain Day Counter:	# Dev Unit:Bk	ENG	[ 0 to 255 / 255 / 1day ]
003	Pages	# P 077 0		
7-951-	Remain Day Counter:	# PCU:C	ENG	[ 0 to 255 / 255 / 1day ]

025	Pages			
7-951-	Remain Day Counter:	# Dev Unit:C	ENG	[ 0 to 255 / 255 / 1day ]
026	Pages			
7-951-	Remain Day Counter:	# PCU:M	ENG	[ 0 to 255 / 255 / 1day ]
048	Pages			
7-951-	Remain Day Counter:	# Dev Unit:M	ENG	[ 0 to 255 / 255 / 1day ]
049	Pages			
7-951-	Remain Day Counter:	# PCU:Y	ENG	[ 0 to 255 / 255 / 1day ]
071	Pages			
7-951-	Remain Day Counter:	# Dev Unit:Y	ENG	[ 0 to 255 / 255 / 1day ]
072	Pages			
7-951-	Remain Day Counter:	# ITB Unit	ENG	[ 0 to 255 / 255 / 1day ]
093	Pages			
7-951-	Remain Day Counter:	# ITB Cleaning Unit	ENG	[ 0 to 255 / 255 / 1day ]
102	Pages			
7-951-	Remain Day Counter:	# PTR Unit	ENG	[ 0 to 255 / 255 / 1day ]
109	Pages			
7-951-	Remain Day Counter:	# Fusing Unit	ENG	[ 0 to 255 / 255 / 1day ]
115	Pages			
7-951-	Remain Day Counter:	Fusing Sleeve	ENG	[ 0 to 255 / 255 / 1day ]
116	Pages			
7-951-	Remain Day Counter:	Pressure Roller	ENG	[ 0 to 255 / 255 / 1day ]
118	Pages			
7-951-	Remain Day Counter:	#Waste Toner bottle	ENG	[ 0 to 255 / 255 / 1day ]
142	Pages			
7-951-	Remain Day Counter:	Tray1 Roller Assembly	ENG	[ 0 to 255 / 255 / 1day ]
145	Pages			
7-951-	Remain Day Counter:	#Paper Feed Roller:Tray1	ENG	[ 0 to 255 / 255 / 1day ]
147	Pages			
7-951-	Remain Day Counter:	#Friction Pad:Tray1	ENG	[ 0 to 255 / 255 / 1day ]
148	Pages			
7-951-	Remain Day Counter:	#Feed Roller:Bypass	ENG	[ 0 to 255 / 255 / 1day ]
169	Pages			
7-952-	Remain Day Counter:	# PCU:Bk	ENG	[ 0 to 255 / 255 / 1day ]
002	Distance			
7-952-	Remain Day Counter:	# Dev Unit:Bk	ENG	[ 0 to 255 / 255 / 1day ]
003	Distance			
7-952-	Remain Day Counter:	# PCU:C	ENG	[ 0 to 255 / 255 / 1day ]

025	Distance			
7-952-	Remain Day Counter:	# Dev Unit:C	ENG	[ 0 to 255 / 255 / 1day ]
026	Distance			
7-952-	Remain Day Counter:	# PCU:M	ENG	[ 0 to 255 / 255 / 1day ]
048	Distance			
7-952-	Remain Day Counter:	# Dev Unit:M	ENG	[ 0 to 255 / 255 / 1day ]
049	Distance			
7-952-	Remain Day Counter:	# PCU:Y	ENG	[ 0 to 255 / 255 / 1day ]
071	Distance			
7-952-	Remain Day Counter:	# Dev Unit:Y	ENG	[ 0 to 255 / 255 / 1day ]
072	Distance			
7-952-	Remain Day Counter:	# ITB Unit	ENG	[ 0 to 255 / 255 / 1day ]
093	Distance			
7-952-	Remain Day Counter:	# ITB Cleaning Unit	ENG	[ 0 to 255 / 255 / 1day ]
102	Distance			
7-952-	Remain Day Counter:	# PTR Unit	ENG	[ 0 to 255 / 255 / 1day ]
109	Distance			
7-952-	Remain Day Counter:	# Fusing Unit	ENG	[ 0 to 255 / 255 / 1day ]
115	Distance			
7-952-	Remain Day Counter:	Fusing Sleeve	ENG	[ 0 to 255 / 255 / 1day ]
116	Distance			
7-952-	Remain Day Counter:	Pressure Roller	ENG	[ 0 to 255 / 255 / 1day ]
118	Distance			
7-953-	Operation Env. Log: PCU:	T<=0	ENG	[ 0 to 99999999 / 0 /
001	Bk			1mm ]
7-953-	Operation Env. Log: PCU:	0 <t<=5:0<=h<30< td=""><td>ENG</td><td>[ 0 to 99999999 / 0 /</td></t<=5:0<=h<30<>	ENG	[ 0 to 99999999 / 0 /
002	Bk			1mm ]
7-953-	Operation Env. Log: PCU:	0 <t<=5:30<=h<70< td=""><td>ENG</td><td>[ 0 to 99999999 / 0 /</td></t<=5:30<=h<70<>	ENG	[ 0 to 99999999 / 0 /
003	Bk			1mm ]
7-953-	Operation Env. Log: PCU:	0 <t<=5:70<=h<=100< td=""><td>ENG</td><td>[ 0 to 99999999 / 0 /</td></t<=5:70<=h<=100<>	ENG	[ 0 to 99999999 / 0 /
004	Bk			1mm ]
7-953-	Operation Env. Log: PCU:	5 <t<15:0<=h<30< td=""><td>ENG</td><td>[ 0 to 99999999 / 0 /</td></t<15:0<=h<30<>	ENG	[ 0 to 99999999 / 0 /
005	Bk			1mm ]
7-953-	Operation Env. Log: PCU:	5 <t<15:30<=h<55< td=""><td>ENG</td><td>[ 0 to 99999999 / 0 /</td></t<15:30<=h<55<>	ENG	[ 0 to 99999999 / 0 /
006	Bk			1mm ]
7-953-	Operation Env. Log: PCU:	5 <t<15:55<=h<80< td=""><td>ENG</td><td>[ 0 to 99999999 / 0 /</td></t<15:55<=h<80<>	ENG	[ 0 to 99999999 / 0 /
007	Bk			1mm ]
7-953-	Operation Env. Log: PCU:	5 <t<15:80<=h<=100< td=""><td>ENG</td><td>[ 0 to 99999999 / 0 /</td></t<15:80<=h<=100<>	ENG	[ 0 to 99999999 / 0 /

008	Bk			1mm ]
7-953-	Operation Env. Log: PCU:	15<=T<25:0<=H<30	ENG	[ 0 to 99999999 / 0 /
009	Bk			1mm ]
7-953-	Operation Env. Log: PCU:	15<=T<25:30<=H<55	ENG	[ 0 to 99999999 / 0 /
010	Bk			1mm ]
7-953-	Operation Env. Log: PCU:	15<=T<25:55<=H<80	ENG	[ 0 to 99999999 / 0 /
011	Bk			1mm ]
7-953-	Operation Env. Log: PCU:	15<=T<25:80<=H<=100	ENG	[ 0 to 99999999 / 0 /
012	Bk			1mm ]
7-953-	Operation Env. Log: PCU:	25<=T<30:0<=H<30	ENG	[ 0 to 99999999 / 0 /
013	Bk			1mm ]
7-953-	Operation Env. Log: PCU:	25<=T<30:30<=H<55	ENG	[ 0 to 99999999 / 0 /
014	Bk			1mm ]
7-953-	Operation Env. Log: PCU:	25<=T<30:55<=H<80	ENG	[ 0 to 99999999 / 0 /
015	Bk			1mm ]
7-953-	Operation Env. Log: PCU:	25<=T<30:80<=H<=100	ENG	[ 0 to 99999999 / 0 /
016	Bk			1mm ]
7-953-	Operation Env. Log: PCU:	30<=T<35:0<=H<30	ENG	[ 0 to 99999999 / 0 /
017	Bk			1mm ]
7-953-	Operation Env. Log: PCU:	30<=T<35:30<=H<55	ENG	[ 0 to 99999999 / 0 /
018	Bk			1mm ]
7-953-	Operation Env. Log: PCU:	30<=T<35:55<=H<80	ENG	[ 0 to 99999999 / 0 /
019	Bk			1mm ]
7-953-	Operation Env. Log: PCU:	30<=T<35:80<=H<=100	ENG	[ 0 to 99999999 / 0 /
020	Bk			1mm ]
7-953-	Operation Env. Log: PCU:	35<=T	ENG	[ 0 to 99999999 / 0 /
021	Bk			1mm ]
7-953-	Operation Env. Log Clear		ENG	[ 0 or 1 / 0 / 1 ]
100				
7-954-	PM Counter Display:	# PCU:Bk	ENG	[ 0 to 255 / 0 / 1% ]
002	Pages (%)			
7-954-	PM Counter Display:	# Dev Unit:Bk	ENG	[ 0 to 255 / 0 / 1% ]
003	Pages (%)			
7-954-	PM Counter Display:	# PCU:C	ENG	[ 0 to 255 / 0 / 1% ]
025	Pages (%)			
7-954-	PM Counter Display:	# Dev Unit:C	ENG	[ 0 to 255 / 0 / 1% ]
026	Pages (%)			
7-954-	PM Counter Display:	# PCU:M	ENG	[ 0 to 255 / 0 / 1% ]

048	Pages (%)			
7-954-	PM Counter Display:	# Dev Unit:M	ENG	[ 0 to 255 / 0 / 1% ]
049	Pages (%)			
7-954-	PM Counter Display:	# PCU:Y	ENG	[ 0 to 255 / 0 / 1% ]
071	Pages (%)			
7-954-	PM Counter Display:	# Dev Unit:Y	ENG	[ 0 to 255 / 0 / 1% ]
072	Pages (%)			
7-954-	PM Counter Display:	# ITB Unit	ENG	[ 0 to 255 / 0 / 1% ]
093	Pages (%)			
7-954-	PM Counter Display:	# ITB Cleaning Unit	ENG	[ 0 to 255 / 0 / 1% ]
102	Pages (%)			
7-954-	PM Counter Display:	# PTR Unit	ENG	[ 0 to 255 / 0 / 1% ]
109	Pages (%)			
7-954-	PM Counter Display:	# Fusing Unit	ENG	[ 0 to 255 / 0 / 1% ]
115	Pages (%)			
7-954-	PM Counter Display:	Fusing Sleeve	ENG	[ 0 to 255 / 0 / 1% ]
116	Pages (%)			
7-954-	PM Counter Display:	Pressure Roller	ENG	[ 0 to 255 / 0 / 1% ]
118	Pages (%)			
7-954-	PM Counter Display:	#Waste Toner bottle	ENG	[ 0 to 255 / 0 / 1% ]
142	Pages (%)			
7-954-	PM Counter Display:	Tray1 Roller Assembly	ENG	[ 0 to 255 / 0 / 1% ]
145	Pages (%)			
7-954-	PM Counter Display:	#Paper Feed Roller:Tray1	ENG	[ 0 to 255 / 0 / 1% ]
147	Pages (%)			
7-954-	PM Counter Display:	#Friction Pad:Tray1	ENG	[ 0 to 255 / 0 / 1% ]
148	Pages (%)			
7-954-	PM Counter Display:	#Feed Roller:Bypass	ENG	[ 0 to 255 / 0 / 1% ]
169	Pages (%)			
7-958-	PM Value	# PCU:Bk	ENG	[ 1 to 30 / 15 / 1day ]
002	Setting:DaysThreshold			
7-958-	PM Value	# Dev Unit:Bk	ENG	[ 1 to 30 / 15 / 1day ]
003	Setting:DaysThreshold			
7-958-	PM Value	# PCU:C	ENG	[ 1 to 30 / 15 / 1day ]
025	Setting:DaysThreshold			
7-958-	PM Value	# Dev Unit:C	ENG	[ 1 to 30 / 15 / 1day ]
026	Setting:DaysThreshold			
7-958-	PM Value	# PCU:M	ENG	[ 1 to 30 / 15 / 1day ]

048	Setting:DaysThreshold			
7-958-	PM Value	# Dev Unit:M	ENG	[ 1 to 30 / 15 / 1day ]
049	Setting:DaysThreshold			
7-958-	PM Value	# PCU:Y	ENG	[ 1 to 30 / 15 / 1day ]
071	Setting:DaysThreshold			
7-958-	PM Value	# Dev Unit:Y	ENG	[ 1 to 30 / 15 / 1day ]
072	Setting:DaysThreshold			
7-958-	PM Value	# ITB Unit	ENG	[ 1 to 30 / 15 / 1day ]
093	Setting:DaysThreshold			
7-958-	PM Value	# ITB Cleaning Unit	ENG	[ 1 to 30 / 15 / 1day ]
102	Setting:DaysThreshold			
7-958-	PM Value	# PTR Unit	ENG	[ 1 to 30 / 15 / 1day ]
109	Setting:DaysThreshold			
7-958-	PM Value	# Fusing Unit	ENG	[ 1 to 30 / 15 / 1day ]
115	Setting:DaysThreshold			
7-958-	PM Value	Fusing Sleeve	ENG	[ 1 to 30 / 15 / 1day ]
116	Setting:DaysThreshold			
7-958-	PM Value	Pressure Roller	ENG	[ 1 to 30 / 15 / 1day ]
118	Setting:DaysThreshold			
7-958-	PM Value	#Waste Toner bottle	ENG	[ 1 to 30 / 15 / 1day ]
142	Setting:DaysThreshold			
7-958-	PM Value	Tray1 Roller Assembly	ENG	[ 1 to 30 / 15 / 1day ]
145	Setting:DaysThreshold			
7-958-	PM Value	#Paper Feed Roller:Tray1	ENG	[ 1 to 30 / 15 / 1day ]
147	Setting:DaysThreshold			
7-958-	PM Value	#Friction Pad:Tray1	ENG	[ 1 to 30 / 15 / 1day ]
148	Setting:DaysThreshold			
7-958-	PM Value	#Feed Roller:Bypass	ENG	[ 1 to 30 / 15 / 1day ]
169	Setting:DaysThreshold			
7-979-	CPU Reset Log	Data1	ENG*	[ 0x00 to 0xFF / 0x00 /
001				1]
7-979-	CPU Reset Log	Data2	ENG*	[ 0x0000 to 0xFFFF /
002				0x0000 / 1 ]
7-979-	CPU Reset Log	Data3	ENG*	[ 0x0000 to 0xFFFF /
003				0x0000 / 1 ]
7-979-	CPU Reset Log	Data4	ENG*	[ 0x0000 to 0xFFFF /
004				0x0000 / 1 ]
7-979-	CPU Reset Log	Data5	ENG*	[ 0x0000 to 0xFFFF /

0xFFFF / 0xFFFF /
0xFFFF /
0xFFFF /
0xFFFF /
0xFFFF /
0xFFFF /

## SP7-XXX (Controller: Data Log)

SP No.	Large Category	Small Category	ENG or	[Min to Max/Init./Step]
			CTL	
7-401-	Total SC	SC Counter	CTL*	[ 0 to 65535 / 0 / 0 ]
001				
7-401-	Total SC	Total SC Counter	CTL*	[ 0 to 65535 / 0 / 0 ]
002				
7-403-	SC History	Latest	CTL*	[ 0 to 0 / 0 / 0 ]
001				
7-403-	SC History	Latest 1	CTL*	[ 0 to 0 / 0 / 0 ]
002				
7-403-	SC History	Latest 2	CTL*	[ 0 to 0 / 0 / 0 ]
003				
7-403-	SC History	Latest 3	CTL*	[ 0 to 0 / 0 / 0 ]
004				
7-403-	SC History	Latest 4	CTL*	[ 0 to 0 / 0 / 0 ]
005				
7-403-	SC History	Latest 5	CTL*	[ 0 to 0 / 0 / 0 ]
006				
7-403-	SC History	Latest 6	CTL*	[ 0 to 0 / 0 / 0 ]
007				
7-403-	SC History	Latest 7	CTL*	[ 0 to 0 / 0 / 0 ]
800				
7-403-	SC History	Latest 8	CTL*	[ 0 to 0 / 0 / 0 ]
009				
7-403-	SC History	Latest 9	CTL*	[ 0 to 0 / 0 / 0 ]
010				
7-404-	Software Error History	Latest	CTL*	[ 0 to 0 / 0 / 0 ]
001				
7-404-	Software Error History	Latest 1	CTL*	[ 0 to 0 / 0 / 0 ]
002				
7-404-	Software Error History	Latest 2	CTL*	[ 0 to 0 / 0 / 0 ]
003				
7-404-	Software Error History	Latest 3	CTL*	[ 0 to 0 / 0 / 0 ]
004				
7-404-	Software Error History	Latest 4	CTL*	[ 0 to 0 / 0 / 0 ]
005				
7-404-	Software Error History	Latest 5	CTL*	[ 0 to 0 / 0 / 0 ]

006				
7-404-	Software Error History	Latest 6	CTL*	[ 0 to 0 / 0 / 0 ]
007				
7-404-	Software Error History	Latest 7	CTL*	[ 0 to 0 / 0 / 0 ]
008				
7-404-	Software Error History	Latest 8	CTL*	[ 0 to 0 / 0 / 0 ]
009				
7-404-	Software Error History	Latest 9	CTL*	[ 0 to 0 / 0 / 0 ]
010				
7-502-	Total Paper Jam	Jam Counter	CTL*	[ 0 to 65535 / 0 / 0 ]
001				
7-502-	Total Paper Jam	Total Jam Counter	CTL*	[ 0 to 65535 / 0 / 0 ]
002				
7-503-	Total Original Jam	Original Jam Counter	CTL*	[ 0 to 65535 / 0 / 0 ]
001				
7-503-	Total Original Jam	Total Original Jam	CTL*	[ 0 to 65535 / 0 / 0 ]
002		Counter		
7-504-	Paper Jam Location	At Power On	CTL*	[ 0 to 65535 / 0 / 0 ]
001				
7-504-	Paper Jam Location	Tray1: On	CTL*	[ 0 to 65535 / 0 / 0 ]
003				50 6555 40 40 7
7-504-	Paper Jam Location	Tray2: On	CTL*	[ 0 to 65535 / 0 / 0 ]
7.504	D I I '	T. 2.0	CTI *	F.O. (5525 / O. / O.)
7-504- 005	Paper Jam Location	Tray3: On	CTL*	[ 0 to 65535 / 0 / 0 ]
7-504-	Don on Iom I continu	Registration:	CTL*	[ 0 to 65525 / 0 / 0 ]
008	Paper Jam Location	On(Bypass)	CIL	[ 0 to 65535 / 0 / 0 ]
7-504-	Paper Jam Location	Registration:	CTL*	[ 0 to 65535 / 0 / 0 ]
009	Taper Jam Location	On(Duplex)	CIL	[0 to 033337 07 0]
7-504-	Paper Jam Location	Bank Transport Sn 1: On	CTL*	[ 0 to 65535 / 0 / 0 ]
012	Tuper sum Eccuron	Built Transport on 1. On	CIL	[0.0000000707070]
7-504-	Paper Jam Location	Registration Sn:	CTL*	[ 0 to 65535 / 0 / 0 ]
017	1	On(Tray)		[
7-504-	Paper Jam Location	Fusing Entrance: On	CTL*	[ 0 to 65535 / 0 / 0 ]
018	_			
7-504-	Paper Jam Location	Fusing Exit: On	CTL*	[ 0 to 65535 / 0 / 0 ]
019				
7-504-	Paper Jam Location	Paper Exit: On	CTL*	[ 0 to 65535 / 0 / 0 ]

020				
7-504-	Paper Jam Location	1bin: Exit Sensor: On	CTL*	[ 0 to 65535 / 0 / 0 ]
021				
7-504-	Paper Jam Location	Duplex Exit : On	CTL*	[ 0 to 65535 / 0 / 0 ]
025				
7-504-	Paper Jam Location	Duplex Entrance: On	CTL*	[ 0 to 65535 / 0 / 0 ]
026				
7-504-	Paper Jam Location	Bank Transport1: Off	CTL*	[ 0 to 65535 / 0 / 0 ]
052				
7-504-	Paper Jam Location	Bank Transport2: Off	CTL*	[ 0 to 65535 / 0 / 0 ]
053				
7-504-	Paper Jam Location	Registration Sensor: Off	CTL*	[ 0 to 65535 / 0 / 0 ]
057				
7-504-	Paper Jam Location	Paper Exit: Off	CTL*	[ 0 to 65535 / 0 / 0 ]
7.504	D. I. I. C.	11: F: G O O	OTI *	F.O. (5525 / O. / O.)
7-504-	Paper Jam Location	1bin: Exit Sensor: Off	CTL*	[ 0 to 65535 / 0 / 0 ]
7.504	Danas Iana I aastian	Develop Freits Off	CTI *	[04-(5525/0/0]
7-504- 065	Paper Jam Location	Duplex Exit: Off	CTL*	[ 0 to 65535 / 0 / 0 ]
7-504-	Paper Jam Location	Duplex Entrance: Off	CTL*	[ 0 to 65535 / 0 / 0 ]
066	1 aper Jam Location	Duplex Entrance. On	CIL	[0 to 055557 07 0]
7-505-	Original Jam Detection	At Power On	CTL*	[ 0 to 65535 / 0 / 0 ]
001	original vain Betevion			
7-505-	Original Jam Detection	Registration Sensor: On	CTL*	[ 0 to 65535 / 0 / 0 ]
004				
7-505-	Original Jam Detection	DF Feed Sensor: On	CTL*	[ 0 to 65535 / 0 / 0 ]
013				
7-505-	Original Jam Detection	Registration Sensor: Off	CTL*	[ 0 to 65535 / 0 / 0 ]
054				
7-505-	Original Jam Detection	DF Feed Sensor: Off	CTL*	[ 0 to 65535 / 0 / 0 ]
063				
7-505-	Original Jam Detection	Motor Error	CTL*	[ 0 to 65535 / 0 / 0 ]
100				
7-506-	Jam Count by Paper Size	A5 LEF	CTL*	[ 0 to 65535 / 0 / 0 ]
006				
7-506-	Jam Count by Paper Size	HLT LEF	CTL*	[ 0 to 65535 / 0 / 0 ]
044				
7-506-	Jam Count by Paper Size	A4 SEF	CTL*	[ 0 to 65535 / 0 / 0 ]

133				
7-506-	Jam Count by Paper Size	A5 SEF	CTL*	[ 0 to 65535 / 0 / 0 ]
134				
7-506-	Jam Count by Paper Size	B5 SEF	CTL*	[ 0 to 65535 / 0 / 0 ]
142				
7-506-	Jam Count by Paper Size	LG SEF	CTL*	[ 0 to 65535 / 0 / 0 ]
164				
7-506-	Jam Count by Paper Size	LT SEF	CTL*	[ 0 to 65535 / 0 / 0 ]
166				
7-506-	Jam Count by Paper Size	HLT SEF	CTL*	[ 0 to 65535 / 0 / 0 ]
172				
7-506-	Jam Count by Paper Size	Others	CTL*	[ 0 to 65535 / 0 / 0 ]
255				
7-507-	Plotter Jam History	Latest	CTL*	[ 0 to 0 / 0 / 0 ]
001	DI W. T. III'	T 1	CET *	50,0000
7-507-	Plotter Jam History	Latest 1	CTL*	[ 0 to 0 / 0 / 0 ]
7-507-	Dlattan Iana History	Lotost 2	CTL*	[ 0 to 0 / 0 / 0 ]
003	Plotter Jam History	Latest 2	CIL	[ 0 to 0 / 0 / 0 ]
7-507-	Plotter Jam History	Latest 3	CTL*	[ 0 to 0 / 0 / 0 ]
004	1 lotter sum Thistory	Datest 3		
7-507-	Plotter Jam History	Latest 4	CTL*	[ 0 to 0 / 0 / 0 ]
005				
7-507-	Plotter Jam History	Latest 5	CTL*	[ 0 to 0 / 0 / 0 ]
006				
7-507-	Plotter Jam History	Latest 6	CTL*	[ 0 to 0 / 0 / 0 ]
007				
7-507-	Plotter Jam History	Latest 7	CTL*	[ 0 to 0 / 0 / 0 ]
800				
7-507-	Plotter Jam History	Latest 8	CTL*	[ 0 to 0 / 0 / 0 ]
009				
7-507-	Plotter Jam History	Latest 9	CTL*	[ 0 to 0 / 0 / 0 ]
010				
7-508-	Original Jam History	Latest	CTL*	[ 0 to 0 / 0 / 0 ]
001				
7-508-	Original Jam History	Latest 1	CTL*	[ 0 to 0 / 0 / 0 ]
002	0 17	1		50,0000
7-508-	Original Jam History	Latest 2	CTL*	[ 0 to 0 / 0 / 0 ]

003				
7-508-	Original Jam History	Latest 3	CTL*	[ 0 to 0 / 0 / 0 ]
004				
7-508-	Original Jam History	Latest 4	CTL*	[ 0 to 0 / 0 / 0 ]
005				
7-508-	Original Jam History	Latest 5	CTL*	[ 0 to 0 / 0 / 0 ]
006				
7-508-	Original Jam History	Latest 6	CTL*	[ 0 to 0 / 0 / 0 ]
007				
7-508-	Original Jam History	Latest 7	CTL*	[ 0 to 0 / 0 / 0 ]
008				
7-508-	Original Jam History	Latest 8	CTL*	[ 0 to 0 / 0 / 0 ]
009				
7-508-	Original Jam History	Latest 9	CTL*	[ 0 to 0 / 0 / 0 ]
010				
7-514-	Paper Jam Count by Location	At Power On	CTL*	[ 0 to 65535 / 0 / 0 ]
001				
7-514-	Paper Jam Count by Location	Tray1: On	CTL*	[ 0 to 65535 / 0 / 0 ]
003				
7-514-	Paper Jam Count by Location	Tray2: On	CTL*	[ 0 to 65535 / 0 / 0 ]
004				
7-514-	Paper Jam Count by Location	Tray3: On	CTL*	[ 0 to 65535 / 0 / 0 ]
005				
7-514-	Paper Jam Count by Location	Registration:	CTL*	[ 0 to 65535 / 0 / 0 ]
008		On(Bypass)		
7-514-	Paper Jam Count by Location	Registration:	CTL*	[ 0 to 65535 / 0 / 0 ]
009		On(Duplex)		
7-514-	Paper Jam Count by Location	Bank Transport Sn 1: On	CTL*	[ 0 to 65535 / 0 / 0 ]
012				
7-514-	Paper Jam Count by Location	Registration Sn:	CTL*	[ 0 to 65535 / 0 / 0 ]
017		On(Tray)	CITY 4	50. (5525./0./0.7
7-514-	Paper Jam Count by Location	Fusing Entrance: On	CTL*	[ 0 to 65535 / 0 / 0 ]
018			OTT *	F.O. (5525 / 0.103
7-514-	Paper Jam Count by Location	Fusing Exit: On	CTL*	[ 0 to 65535 / 0 / 0 ]
019		D F ' C	OTI *	F.O. (5525 / O. / O. 7
7-514-	Paper Jam Count by Location	Paper Exit: On	CTL*	[ 0 to 65535 / 0 / 0 ]
020	Daniel Continue	11 F 0	CTI *	[ 0 t
7-514-	Paper Jam Count by Location	1bin: Exit Sensor: On	CTL*	[ 0 to 65535 / 0 / 0 ]

per Jam Count by Location	D 1 E 7 O		
	Duplex Exit : On	CTL*	[ 0 to 65535 / 0 / 0 ]
per Jam Count by Location	Duplex Entrance: On	CTL*	[ 0 to 65535 / 0 / 0 ]
per Jam Count by Location	Bank Transport1: Off	CTL*	[ 0 to 65535 / 0 / 0 ]
per Jam Count by Location	Bank Transport2: Off	CTL*	[ 0 to 65535 / 0 / 0 ]
per Jam Count by Location	Registration Sensor: Off	CTL*	[ 0 to 65535 / 0 / 0 ]
per Jam Count by Location	Paper Exit: Off	CTL*	[ 0 to 65535 / 0 / 0 ]
per Jam Count by Location	1bin: Exit Sensor: Off	CTL*	[ 0 to 65535 / 0 / 0 ]
per Jam Count by Location	Duplex Exit: Off	CTL*	[ 0 to 65535 / 0 / 0 ]
per Jam Count by Location	Duplex Entrance: Off	CTL*	[ 0 to 65535 / 0 / 0 ]
	At Power On	CTL*	[ 0 to 65535 / 0 / 0 ]
	Registration Sensor: On	CTL*	[ 0 to 65535 / 0 / 0 ]
	DF Feed Sensor: On	CTL*	[ 0 to 65535 / 0 / 0 ]
	D 1 1 1 0 000	CTTL di	50. 65525 / 0 / 0 7
	Registration Sensor: Off	CTL*	[ 0 to 65535 / 0 / 0 ]
	DE F 1 C Off	CTI *	F.O. 4. 65525 / O. / O. I
	DF Feed Sensor: OII	CIL*	[ 0 to 65535 / 0 / 0 ]
	Motor Error	CTI *	[ 0 to 65535 / 0 / 0 ]
	MOTOL ELLOL	CIL	[0 to 033337070]
	ΔSIFE	CTI*	[ 0 to 65535 / 0 / 0 ]
per Size sum Count			[ 0 10 05555 / 0 / 0 ]
iner Size Iam Count	HLT LEF	CTL*	[ 0 to 65535 / 0 / 0 ]
per Size sum Count	TIDI DDI		[0.0000007070]
ner Size Jam Count	A4 SEF	CTL*	[ 0 to 65535 / 0 / 0 ]
-F Size vani Count			[ 0 00 00000 / 0 / 0 ]
per Size Jam Count	A5 SEF	CTL*	[ 0 to 65535 / 0 / 0 ]
y - y - y - y - y - y - r e r e r e r e y - y - y - y - y - y - y - y - y - y	per Jam Count by Location  riginal Jam Count by  retection  riginal Jam Count by  retection	per Jam Count by Location  per Jam Count by Registration Sensor: On  per Size Jam Count by Motor Error  per Size Jam Count  per Size Jam Count  A4 SEF	per Jam Count by Location  Bank Transport1: Off  CTL*  per Jam Count by Location  Registration Sensor: Off  CTL*  per Jam Count by Location  Paper Exit: Off  CTL*  per Jam Count by Location  Ibin: Exit Sensor: Off  CTL*  per Jam Count by Location  Duplex Exit: Off  CTL*  per Jam Count by Location  Duplex Exit: Off  CTL*  per Jam Count by Location  Duplex Entrance: Off  CTL*  diginal Jam Count by  Registration Sensor: On  CTL*  riginal Jam Count by  Registration Sensor: On  CTL*  riginal Jam Count by  Registration Sensor: On  CTL*  retection  riginal Jam Count by  Registration Sensor: Off  CTL*  retection  riginal Jam Count by  Registration Sensor: Off  CTL*  retection  riginal Jam Count by  Registration Sensor: Off  CTL*  retection  riginal Jam Count by  Registration Sensor: Off  CTL*  retection  riginal Jam Count by  Registration Sensor: Off  CTL*  retection  riginal Jam Count by  Registration Sensor: Off  CTL*  retection  riginal Jam Count by  Registration Sensor: Off  CTL*  retection  riginal Jam Count by  Registration Sensor: Off  CTL*  retection  riginal Jam Count by  Registration Sensor: Off  CTL*  retection  riginal Jam Count by  Registration Sensor: Off  CTL*  retection  riginal Jam Count by  Registration Sensor: Off  CTL*  retection  riginal Jam Count by  Registration Sensor: Off  CTL*  retection  riginal Jam Count by  Registration Sensor: Off  CTL*  retection  riginal Jam Count by  Registration Sensor: Off  CTL*  retection  riginal Jam Count by  Registration Sensor: Off  CTL*  retection  riginal Jam Count by  Registration Sensor: Off  CTL*  retection  riginal Jam Count by  Registration Sensor: Off  CTL*  retection  riginal Jam Count by  Registration Sensor: Off  CTL*

134				
7-516-	Paper Size Jam Count	B5 SEF	CTL*	[ 0 to 65535 / 0 / 0 ]
142				
7-516-	Paper Size Jam Count	LG SEF	CTL*	[ 0 to 65535 / 0 / 0 ]
164				
7-516-	Paper Size Jam Count	LT SEF	CTL*	[ 0 to 65535 / 0 / 0 ]
166				
7-516-	Paper Size Jam Count	HLT SEF	CTL*	[ 0 to 65535 / 0 / 0 ]
172				
7-516-	Paper Size Jam Count	Others	CTL*	[ 0 to 65535 / 0 / 0 ]
255				
7-520-	Update Log	ErrorRecord1	CTL*	[ 0 to 255 / 0 / 1 ]
001				
7-520-	Update Log	ErrorRecord2	CTL*	[ 0 to 255 / 0 / 1 ]
002				
7-520-	Update Log	ErrorRecord3	CTL*	[ 0 to 255 / 0 / 1 ]
003	** 1 . *		CTTL to	50. 255./0./17
7-520-	Update Log	ErrorRecord4	CTL*	[ 0 to 255 / 0 / 1 ]
004	T. 1. T	F D 15	CTI *	F 0 + 255 / 0 / 1 ]
7-520-	Update Log	ErrorRecord5	CTL*	[ 0 to 255 / 0 / 1 ]
7-520-	Lindata La a	ErrorRecord6	CTL*	[ 0 to 255 / 0 / 1 ]
006	Update Log	Enorkecoldo	CIL	[ 0 to 255 / 0 / 1 ]
7-520-	Update Log	ErrorRecord7	CTL*	[ 0 to 255 / 0 / 1 ]
007	Opuate Log	Enonceolu	CIL	
7-520-	Update Log	ErrorRecord8	CTL*	[ 0 to 255 / 0 / 1 ]
008	opunio Bog	Enontecordo		[ 0 to 255 / 0 / 1 ]
7-520-	Update Log	ErrorRecord9	CTL*	[ 0 to 255 / 0 / 1 ]
009				
7-520-	Update Log	ErrorRecord10	CTL*	[ 0 to 255 / 0 / 1 ]
010				
7-520-	Update Log	Auto:StartDate1	CTL*	[ 0 to 0 / 0 / 0 ]
011				
7-520-	Update Log	Auto:StartDate2	CTL*	[ 0 to 0 / 0 / 0 ]
012				
7-520-	Update Log	Auto:StartDate3	CTL*	[ 0 to 0 / 0 / 0 ]
013				
7-520-	Update Log	Auto:StartDate4	CTL*	[ 0 to 0 / 0 / 0 ]

014				
7-520-	Update Log	Auto:StartDate5	CTL*	[ 0 to 0 / 0 / 0 ]
015				
7-520-	Update Log	Auto:EndDate1	CTL*	[ 0 to 0 / 0 / 0 ]
021				
7-520-	Update Log	Auto:EndDate2	CTL*	[ 0 to 0 / 0 / 0 ]
022				
7-520-	Update Log	Auto:EndDate3	CTL*	[ 0 to 0 / 0 / 0 ]
023				
7-520-	Update Log	Auto:EndDate4	CTL*	[ 0 to 0 / 0 / 0 ]
024				
7-520-	Update Log	Auto:EndDate5	CTL*	[ 0 to 0 / 0 / 0 ]
025				
7-520-	Update Log	Auto:Piecemark1	CTL*	[ 0 to 0 / 0 / 0 ]
031				
7-520-	Update Log	Auto:Piecemark2	CTL*	[ 0 to 0 / 0 / 0 ]
032			CITIL di	50.00/0/07
7-520-	Update Log	Auto:Piecemark3	CTL*	[ 0 to 0 / 0 / 0 ]
033 7-520-	Lindata Lag	Auto:Piecemark4	CTL*	[ 0 to 0 / 0 / 0 ]
034	Update Log	Auto. Piecemark4	CIL	[ 0 to 0 / 0 / 0 ]
7-520-	Update Log	Auto:Piecemark5	CTL*	[ 0 to 0 / 0 / 0 ]
035	opanic Log	ruto.i iccemarks	CIL	
7-520-	Update Log	Auto:Version1	CTL*	[ 0 to 0 / 0 / 0 ]
041	7			
7-520-	Update Log	Auto:Version2	CTL*	[ 0 to 0 / 0 / 0 ]
042				
7-520-	Update Log	Auto:Version3	CTL*	[ 0 to 0 / 0 / 0 ]
043				
7-520-	Update Log	Auto:Version4	CTL*	[ 0 to 0 / 0 / 0 ]
044				
7-520-	Update Log	Auto:Version5	CTL*	[ 0 to 0 / 0 / 0 ]
045				
7-520-	Update Log	Auto:Result1	CTL*	[ 0 to 255 / 0 / 1 ]
051				
7-520-	Update Log	Auto:Result2	CTL*	[ 0 to 255 / 0 / 1 ]
052				
7-520-	Update Log	Auto:Result3	CTL*	[ 0 to 255 / 0 / 1 ]

053				
7-520- I	Update Log	Auto:Result4	CTL*	[ 0 to 255 / 0 / 1 ]
054				
7-520- I	Update Log	Auto:Result5	CTL*	[ 0 to 255 / 0 / 1 ]
055				
7-520- I	Update Log	Auto:Result6	CTL*	[ 0 to 255 / 0 / 1 ]
056				
7-520- I	Update Log	Auto:Result7	CTL*	[ 0 to 255 / 0 / 1 ]
057				
7-520- I	Update Log	Auto:Result8	CTL*	[ 0 to 255 / 0 / 1 ]
058				
7-520- I	Update Log	Auto:Result9	CTL*	[ 0 to 255 / 0 / 1 ]
059				
7-520- I	Update Log	Auto:Result10	CTL*	[ 0 to 255 / 0 / 1 ]
060				
7-617-	PM Parts Counter Display	Normal	CTL*	[ 0 to 9999999 / 0 / 0 ]
001				
7-617-	PM Parts Counter Display	Df	CTL*	[ 0 to 9999999 / 0 / 0 ]
002				
	PM Parts Counter Reset	Normal	CTL*	[ 0 to 0 / 0 / 0 ]
001				
	PM Parts Counter Reset	Df	CTL*	[ 0 to 0 / 0 / 0 ]
002				
	Part Replacement Operation	#PCU:Bk	CTL*	[ 0 to 1 / 1 / 1 ]
-	ON/OFF	UD GILL G	amr I	
	Part Replacement Operation	#PCU:C	CTL*	[ 0 to 1 / 1 / 1 ]
	ON/OFF	"DOLLN"	CITE &	50.1/1/17
	Part Replacement Operation	#PCU:M	CTL*	[0 to 1/1/1]
	ON/OFF	#DCI LV	CTI *	[ O 4- 1 / 1 / 1 ]
	Part Replacement Operation ON/OFF	#PCU:Y	CTL*	[ 0 to 1 / 1 / 1 ]
	Part Replacement Operation	#Image Transfer Belt	CTL*	[ 0 to 1 / 1 / 1 ]
	ON/OFF	Unit	CIL	
	Part Replacement Operation	#Paper Transfer Roller	CTL*	[ 0 to 1 / 1 / 1 ]
	ON/OFF	Unit	CIL	[0101/1/1]
-	Part Replacement Operation	#Fusing Unit	CTL*	[ 0 to 1 / 1 / 1 ]
		"I doing omt		
1 1 1 2	ON/OFF			

116 C	ON/OFF			
7-624- P	Part Replacement Operation	Pressure Roller	CTL*	[ 0 to 1 / 1 / 1 ]
118 C	ON/OFF			
7-624- P	Part Replacement Operation	#Wast Toner bottle	CTL*	[ 0 to 1 / 1 / 1 ]
142 C	ON/OFF			
7-624- P	Part Replacement Operation	#Paper Feed	CTL*	[ 0 to 1 / 1 / 1 ]
147 O	ON/OFF	Roller:Tray1		
7-624- P	Part Replacement Operation	#Friction Pad:Tray1	CTL*	[ 0 to 1 / 1 / 1 ]
148 C	ON/OFF			
7-624- P	Part Replacement Operation	#Feed Roller:Bypass	CTL*	[ 0 to 1 / 1 / 1 ]
169 C	ON/OFF			
7-801- R	ROM No./ Firmware Version		CTL*	[ 0 to 0 / 0 / 0 ]
255				
7-803- P	PM Counter Display	Paper	CTL*	[ 0 to 9999999 / 0 / 0 ]
001				
	PM Counter Reset	Paper	CTL*	[ 0 to 0 / 0 / 0 ]
001				
	SC/Jam Counter Reset		CTL*	[ 0 to 0 / 0 / 0 ]
001				
	MF Error Counter	Error Total	CTL*	[ 0 to 9999999 / 0 / 0 ]
001				
	MF Error Counter	Error Staple	CTL*	[ 0 to 9999999 / 0 / 0 ]
002	TIP G G		CTV +	50.0000
	MF Error Counter Clear		CTL*	[ 0 to 0 / 0 / 0 ]
001	N 10 D: 1		CTI *	F.O. ( O / O / O ]
	Self-Diagnose Result Display		CTL*	[ 0 to 0 / 0 / 0 ]
7-835- A	A CC Country	Comp. ACC	CTI *	[04-0/0/0]
001 A	ACC Counter	Copy ACC	CTL*	[ 0 to 0 / 0 / 0 ]
	ACC Counter	Printer ACC	CTL*	[0 to 0 / 0 / 0]
002		TIME ACC	CIL	[0100/0/0]
	Total Memory Size		CTL*	0 to 0xffffffff / 0 /
001	Tomi monory one			0MB ]
	ServiceSP Entry Code Chg	Change Time :Latest	CTL*	[ 0 to 0 / 0 / 0 ]
	Hist	Change Time Datest		[ 0 10 0 / 0 / 0 ]
	ServiceSP Entry Code Chg	Change Time :Last1	CTL*	[0 to 0 / 0 / 0]
	Hist			[ 0 00 0 7 0 7
	ServiceSP Entry Code Chg	Initialize Time :Latest	CTL*	[ 0 to 0 / 0 / 0 ]

101	Hist			
7-840-	ServiceSP Entry Code Chg	Initialize Time :Last1	CTL*	[ 0 to 0 / 0 / 0 ]
102	Hist			
7-855-	Coverage Range	Coverage Range 1	CTL*	[ 1 to 200 / 5 / 1% ]
001				
7-855-	Coverage Range	Coverage Range 2	CTL*	[ 1 to 200 / 20 / 1% ]
002				
7-901-	Assert Info.	File Name	CTL*	[ 0 to 0 / 0 / 0 ]
001				
7-901-	Assert Info.	Number of Lines	CTL*	[ 0 to 0 / 0 / 0 ]
002				
7-901-	Assert Info.	Location	CTL*	[ 0 to 0 / 0 / 0 ]
003				
7-910-	ROM No	System/Copy	CTL*	[ 0 to 0 / 0 / 0 ]
001				
7-910-	ROM No	Engine	CTL*	[ 0 to 0 / 0 / 0 ]
002	DOMAN	D 1	CITE *	50,0000
7-910-	ROM No	Bank	CTL*	[ 0 to 0 / 0 / 0 ]
7-910-	ROM No	FCU	CTL*	[04-0/0/0]
012	KOWI NO	rcu	CIL	[ 0 to 0 / 0 / 0 ]
7-910-	ROM No	NetworkSupport	CTL*	[ 0 to 0 / 0 / 0 ]
018	KOW NO	NetworkSupport	CIL	[01007070]
7-910-	ROM No	Bank2	CTL*	[ 0 to 0 / 0 / 0 ]
019	ROWING	Buik2		
7-910-	ROM No	BIOS	CTL*	[ 0 to 0 / 0 / 0 ]
022				
7-910-	ROM No	HDD Format Option	CTL*	[0 to 0 / 0 / 0]
023				
7-910-	ROM No	RPCS	CTL*	[0 to 0/0/0]
150				
7-910-	ROM No	PS	CTL*	[ 0 to 0 / 0 / 0 ]
151				
7-910-	ROM No	RPDL	CTL*	[ 0 to 0 / 0 / 0 ]
152				
7-910-	ROM No	R98	CTL*	[ 0 to 0 / 0 / 0 ]
153				
7-910-	ROM No	R16	CTL*	[ 0 to 0 / 0 / 0 ]

154				
7-910-	ROM No	R55	CTL*	[ 0 to 0 / 0 / 0 ]
156				
7-910-	ROM No	RTIFF	CTL*	[ 0 to 0 / 0 / 0 ]
157				
7-910-	ROM No	PCL	CTL*	[ 0 to 0 / 0 / 0 ]
158				
7-910-	ROM No	PCLXL	CTL*	[ 0 to 0 / 0 / 0 ]
159				
7-910-	ROM No	MSIS	CTL*	[ 0 to 0 / 0 / 0 ]
160				
7-910-	ROM No	PDF	CTL*	[ 0 to 0 / 0 / 0 ]
162				
7-910-	ROM No	PictBridge	CTL*	[ 0 to 0 / 0 / 0 ]
164				
7-910-	ROM No	PJL	CTL*	[ 0 to 0 / 0 / 0 ]
165				
7-910-	ROM No	MediaPrint:JPEG	CTL*	[ 0 to 0 / 0 / 0 ]
167				
7-910-	ROM No	MediaPrint:TIFF	CTL*	[ 0 to 0 / 0 / 0 ]
168	DOMAN	YVDG	CITE *	50,0000
7-910-	ROM No	XPS	CTL*	[ 0 to 0 / 0 / 0 ]
7.010	DOM N.	FONT	CTI *	[04-0/0/0]
7-910- 180	ROM No	FONT	CTL*	[ 0 to 0 / 0 / 0 ]
7-910-	ROM No	FONT1	CTL*	[ 0 to 0 / 0 / 0 ]
181	KOW NO	TONTI	CIL	
7-910-	ROM No	FONT2	CTL*	[ 0 to 0 / 0 / 0 ]
182	TOM NO	101(12	CIL	
7-910-	ROM No	FONT3	CTL*	[ 0 to 0 / 0 / 0 ]
183				
7-910-	ROM No	FONT4	CTL*	[ 0 to 0 / 0 / 0 ]
184				
7-910-	ROM No	FONT5	CTL*	[0 to 0/0/0]
185				
7-910-	ROM No	FONT6	CTL*	[ 0 to 0 / 0 / 0 ]
186				
7-910-	ROM No	FONT7	CTL*	[ 0 to 0 / 0 / 0 ]

187				
7-910-	ROM No	Factory	CTL*	[ 0 to 0 / 0 / 0 ]
200				
7-910-	ROM No	Сору	CTL*	[ 0 to 0 / 0 / 0 ]
201				
7-910-	ROM No	NetworkDocBox	CTL*	[ 0 to 0 / 0 / 0 ]
202				
7-910-	ROM No	Fax	CTL*	[ 0 to 0 / 0 / 0 ]
203				
7-910-	ROM No	Printer	CTL*	[ 0 to 0 / 0 / 0 ]
204				
7-910-	ROM No	Scanner	CTL*	[ 0 to 0 / 0 / 0 ]
205				
7-910-	ROM No	RFax	CTL*	[ 0 to 0 / 0 / 0 ]
206				
7-910-	ROM No	MIB	CTL*	[ 0 to 0 / 0 / 0 ]
210	DOLLY.	***	CTT +	50,0000
7-910-	ROM No	Websupport	CTL*	[ 0 to 0 / 0 / 0 ]
211	DOM NI-	W-LIL1	CTI *	[04-0/0/0]
7-910- 212	ROM No	WebUapl	CTL*	[ 0 to 0 / 0 / 0 ]
7-910-	ROM No	SDK1	CTL*	[ 0 to 0 / 0 / 0 ]
213	KOW NO	SDK1	CIL	[0100/0/0]
7-910-	ROM No	SDK2	CTL*	[ 0 to 0 / 0 / 0 ]
214				
7-910-	ROM No	SDK3	CTL*	[ 0 to 0 / 0 / 0 ]
215				
7-910-	ROM No	Package	CTL*	[ 0 to 0 / 0 / 0 ]
250				
7-911-	Firmware Version	System/Copy	CTL*	[ 0 to 0 / 0 / 0 ]
001				
7-911-	Firmware Version	Engine	CTL*	[ 0 to 0 / 0 / 0 ]
002				
7-911-	Firmware Version	Bank	CTL*	[ 0 to 0 / 0 / 0 ]
009				
7-911-	Firmware Version	FCU	CTL*	[ 0 to 0 / 0 / 0 ]
012				
7-911-	Firmware Version	NetworkSupport	CTL*	[ 0 to 0 / 0 / 0 ]

018				
7-911-	Firmware Version	Bank2	CTL*	[ 0 to 0 / 0 / 0 ]
019				
7-911-	Firmware Version	BIOS	CTL*	[ 0 to 0 / 0 / 0 ]
022				
7-911-	Firmware Version	HDD Format Option	CTL*	[ 0 to 0 / 0 / 0 ]
023				
7-911-	Firmware Version	RPCS	CTL*	[ 0 to 0 / 0 / 0 ]
150				
7-911-	Firmware Version	PS	CTL*	[ 0 to 0 / 0 / 0 ]
151				
7-911-	Firmware Version	RPDL	CTL*	[ 0 to 0 / 0 / 0 ]
152				
7-911-	Firmware Version	R98	CTL*	[ 0 to 0 / 0 / 0 ]
153				
7-911-	Firmware Version	R16	CTL*	[ 0 to 0 / 0 / 0 ]
154				
7-911-	Firmware Version	R55	CTL*	[ 0 to 0 / 0 / 0 ]
156				
7-911-	Firmware Version	RTIFF	CTL*	[ 0 to 0 / 0 / 0 ]
157		D.G.		50.040407
7-911-	Firmware Version	PCL	CTL*	[ 0 to 0 / 0 / 0 ]
158	D' Y/ '	DCI VI	CTI *	F.O. ( O. / O. / O. ]
7-911-	Firmware Version	PCLXL	CTL*	[ 0 to 0 / 0 / 0 ]
7-911-	Firmware Version	MSIS	CTL*	[0 to 0/0/0]
160	Filmware version	MISIS	CIL	[000/0/0]
7-911-	Firmware Version	PDF	CTL*	[ 0 to 0 / 0 / 0 ]
162	Timiwaic version	T D1	CIL	
7-911-	Firmware Version	PictBridge	CTL*	[ 0 to 0 / 0 / 0 ]
164	Timware version	TiotBriage		
7-911-	Firmware Version	PJL	CTL*	[ 0 to 0 / 0 / 0 ]
165				
7-911-	Firmware Version	MediaPrint:JPEG	CTL*	[ 0 to 0 / 0 / 0 ]
167				
7-911-	Firmware Version	MediaPrint:TIFF	CTL*	[ 0 to 0 / 0 / 0 ]
168				
7-911-	Firmware Version	XPS	CTL*	[ 0 to 0 / 0 / 0 ]

169				
7-911-	Firmware Version	FONT	CTL*	[ 0 to 0 / 0 / 0 ]
180				
7-911-	Firmware Version	FONT1	CTL*	[ 0 to 0 / 0 / 0 ]
181				
7-911-	Firmware Version	FONT2	CTL*	[ 0 to 0 / 0 / 0 ]
182				
7-911-	Firmware Version	FONT3	CTL*	[ 0 to 0 / 0 / 0 ]
183				
7-911-	Firmware Version	FONT4	CTL*	[ 0 to 0 / 0 / 0 ]
184				
7-911-	Firmware Version	FONT5	CTL*	[ 0 to 0 / 0 / 0 ]
185				
7-911-	Firmware Version	FONT6	CTL*	[ 0 to 0 / 0 / 0 ]
186				
7-911-	Firmware Version	FONT7	CTL*	[ 0 to 0 / 0 / 0 ]
187				
7-911-	Firmware Version	Factory	CTL*	[ 0 to 0 / 0 / 0 ]
200				
7-911-	Firmware Version	Copy	CTL*	[ 0 to 0 / 0 / 0 ]
201				
7-911-	Firmware Version	NetworkDocBox	CTL*	[ 0 to 0 / 0 / 0 ]
202	D' 17 '	D.	CITE 4	50,0000
7-911-	Firmware Version	Fax	CTL*	[0 to 0/0/0]
203 7-911-	Eimayyana Vansian	Printer	CTL*	[ 0 to 0 / 0 / 0 ]
204	Firmware Version	Printer	CIL	[0 to 0/0/0]
7-911-	Firmware Version	Scanner	CTL*	[0 to 0 / 0 / 0]
205	1 mmwaic version	Scanner	CIL	[0100/0/0]
7-911-	Firmware Version	RFax	CTL*	[ 0 to 0 / 0 / 0 ]
206	Tammare verbion	25. 8/1		[0.00,0,0]
7-911-	Firmware Version	MIB	CTL*	[ 0 to 0 / 0 / 0 ]
210				
7-911-	Firmware Version	Websupport	CTL*	[ 0 to 0 / 0 / 0 ]
211				
7-911-	Firmware Version	WebUapl	CTL*	[ 0 to 0 / 0 / 0 ]
212		-		
7-911-	Firmware Version	SDK1	CTL*	[ 0 to 0 / 0 / 0 ]

213				
7-911-	Firmware Version	SDK2	CTL*	[ 0 to 0 / 0 / 0 ]
214				
7-911-	Firmware Version	SDK3	CTL*	[ 0 to 0 / 0 / 0 ]
215				
7-911-	Firmware Version	Package	CTL*	[ 0 to 0 / 0 / 0 ]
250				

# SP Tables - SP8-XXX (1)

#### Remarks

Many of these counters are provided for features that are currently not available, such as sending color faxes, and so on. However, here are some Group 8 codes that when used in combination with others, can provide useful information.

SP Numbers	What They Do	
SP8-691 to SP8-696	The number of pages sent from the document server.	
SP8-401 to SP8-406	The number of pages printed from the document server.	
SP8-211 to SP8-216	The number of pages scanned to the document server.	

Specifically, the following questions can be answered:

- How is the document server actually being used?
- What application is using the document server most frequently?
- What data in the document server is being reused?

Most of the SPs in this group are prefixed with a letter that indicates the mode of operation (the mode of operation is referred to as an "application"). Before reading the Group 8 Service Table, make sure that you understand what these prefixes mean.

Prefixes		What it means		
T:	Total: (Grand Total).	Grand total of the items counted for all applications (C, F, P, etc.).		
C:	Copy application.	Totals (pages, jobs, etc.) executed for each application when the job was not		
F:	Fax application.	stored on the document server.		
P:	Print application.			
S:	Scan application.			
L:	Local storage	Totals (jobs, pages, etc.) for the document server. The L: counters work		
	(document server)	differently case by case. Sometimes, they count jobs/pages stored on the		
		document server; this can be in document server mode (from the document		
		server window), or from another mode, such as from a printer driver or by		
		pressing the Store File button in the Copy mode window. Sometimes, they		
		include occasions when the user uses a file that is already on the document		
		server. Each counter will be discussed case by case.		
O:	Other applications	Refers to network applications such as Web Image Monitor. Utilities		
	(external network	developed with the SDK (Software Development Kit) will also be counted		
	applications, for	with this group in the future.		
	example)			

The Group 8 SP codes are limited to 17 characters, forced by the necessity of displaying them on the small LCDs of printers and faxes that also use these SPs. Read over the list of abbreviations below and refer to it again if you see the name of an SP that you do not understand.

## **Key for Abbreviations**

/	"By", e.g. "T:Jobs/Apl" = Total Jobs "by" Application	
/		
> A 11D1-	More (2> "2 or more", 4> "4 or more"	
AddBook	Address Book	
Apl	Application	
B/W	Black & White	
Bk	Black	
С	Cyan	
ColCr	Color Create	
ColMode	Color Mode	
Comb	Combine	
Comp	Compression	
Deliv	Delivery	
DesApl	Designated Application. The application (Copy, Fax, Scan, Print) used to store the job on the	
	document server, for example.	
Dev Counter	Development Count, no. of pages developed.	
Dup, Duplex	Duplex, printing on both sides	
Emul	Emulation	
FC	Full Color	
FIN	Post-print processing, i.e. finishing (punching, stapling, etc.)	
Full Bleed	No Margins	
GenCopy	Generation Copy Mode	
GPC	Get Print Counter. For jobs 10 pages or less, this counter does not count up. For jobs larger than	
	10 pages, this counter counts up by the number that is in excess of 10 (e.g., for an 11-page job,	
	the counter counts up 11-10 =1)	
IFax	Internet Fax	
ImgEdt	Image Edit performed on the original with the copier GUI, e.g. border removal, adding stamps,	
	page numbers, etc.	
K	Black (YMCK)	
LS	Local Storage. Refers to the document server.	
LSize	Large (paper) Size	
Mag	Magnification	
MC	One color (monochrome)	
NRS	New Remote Service, which allows a service center to monitor machines remotely. "NRS" is	
	used overseas, "CSS" is used in Japan.	
Org	Original for scanning	
OrgJam	Original Jam	
Palm 2	Print Job Manager/Desk Top Editor: A pair of utilities that allows print jobs to be distributed	

#### 3.SP Mode Tables

	evenly among the printers on the network, and allows files to moved around, combined, and
	converted to different formats.
PC	Personal Computer
PGS	Pages. A page is the total scanned surface of the original. Duplex pages count as two pages, and
	A3 simplex count as two pages if the A3/DLT counter SP is switched ON.
PJob	Print Jobs
Ppr	Paper
PrtJam	Printer (plotter) Jam
PrtPGS	Print Pages
R	Red (Toner Remaining). Applies to the wide format model A2 only. This machine is under
	development and currently not available.
Rez	Resolution
SC	Service Code (Error SC code displayed)
Scn	Scan
Sim,	Simplex, printing on 1 side.
Simplex	
S-to-Email	Scan-to-E-mail
SMC	SMC report printed with SP5-990. All of the Group 8 counters are recorded in the SMC report.
Svr	Server
TonEnd	Toner End
TonSave	Toner Save
TXJob	Send, Transmission
YMC	Yellow, Magenta, Cyan
YMCK	Yellow, Magenta, Cyan, Black
Abbreviation	What it means



• All of the Group 8 SPs are reset with SP5-801-001 (Memory All Clear).

## SP8-XXX (Data Log2) -1

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-001-001	T:Total Jobs		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-002-001	C:Total Jobs		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-003-001	F:Total Jobs		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-004-001	P:Total Jobs		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-005-001	S:Total Jobs		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-006-001	L:Total Jobs		CTL*	[ 0 to 99999999 / 0 / 1 ]

8-011-001	T:Jobs/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-012-001	C:Jobs/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-013-001	F:Jobs/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-014-001	P:Jobs/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-015-001	S:Jobs/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-016-001	L:Jobs/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-017-001	O:Jobs/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-021-001	T:Pjob/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-022-001	C:Pjob/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-023-001	F:Pjob/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-024-001	P:Pjob/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-025-001	S:Pjob/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-026-001	L:Pjob/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-027-001	O:Pjob/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-031-001	T:Pjob/DesApl		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-032-001	C:Pjob/DesApl		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-033-001	F:Pjob/DesApl		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-034-001	P:Pjob/DesApl		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-035-001	S:Pjob/DesApl		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-036-001	L:Pjob/DesApl		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-037-001	O:Pjob/DesApl		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-041-001	T:TX Jobs/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-042-001	C:TX Jobs/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-043-001	F:TX Jobs/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-044-001	P:TX Jobs/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-045-001	S:TX Jobs/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-046-001	L:TX Jobs/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-047-001	O:TX Jobs/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-051-001	T:TX Jobs/DesApl		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-052-001	C:TX Jobs/DesApl		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-053-001	F:TX Jobs/DesApl		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-054-001	P:TX Jobs/DesApl		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-055-001	S:TX Jobs/DesApl		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-056-001	L:TX Jobs/DesApl		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-057-001	O:TX Jobs/DesApl		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-061-001	T:FIN Jobs	Sort	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-061-002	T:FIN Jobs	Stack	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-061-003	T:FIN Jobs	Staple	CTL*	[ 0 to 99999999 / 0 / 1 ]

8-061-004	T:FIN Jobs	Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-061-005	T:FIN Jobs	Z-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-061-006	T:FIN Jobs	Punch	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-061-007	T:FIN Jobs	Other	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-061-008	T:FIN Jobs	Inside-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-061-009	T:FIN Jobs	Three-IN-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-061-010	T:FIN Jobs	Three-OUT-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-061-011	T:FIN Jobs	Four-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-061-012	T:FIN Jobs	KANNON-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-061-013	T:FIN Jobs	Perfect-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-061-014	T:FIN Jobs	Ring-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-061-015	T:FIN Jobs	3rd Vendor	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-061-016	T:FIN Jobs	TwinLoop-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-062-001	C:FIN Jobs	Sort	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-062-002	C:FIN Jobs	Stack	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-062-003	C:FIN Jobs	Staple	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-062-004	C:FIN Jobs	Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-062-005	C:FIN Jobs	Z-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-062-006	C:FIN Jobs	Punch	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-062-007	C:FIN Jobs	Other	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-062-008	C:FIN Jobs	Inside-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-062-009	C:FIN Jobs	Three-IN-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-062-010	C:FIN Jobs	Three-OUT-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-062-011	C:FIN Jobs	Four-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-062-012	C:FIN Jobs	KANNON-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-062-013	C:FIN Jobs	Perfect-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-062-014	C:FIN Jobs	Ring-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-062-015	C:FIN Jobs	3rd Vendor	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-062-016	C:FIN Jobs	TwinLoop-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-063-001	F:FIN Jobs	Sort	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-063-002	F:FIN Jobs	Stack	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-063-003	F:FIN Jobs	Staple	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-063-004	F:FIN Jobs	Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-063-005	F:FIN Jobs	Z-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-063-006	F:FIN Jobs	Punch	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-063-007	F:FIN Jobs	Other	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-063-008	F:FIN Jobs	Inside-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-063-009	F:FIN Jobs	Three-IN-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]

8-063-010	F:FIN Jobs	Three-OUT-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-063-011				[ 0 to 99999999 / 0 / 1 ]
8-063-011	F:FIN Jobs F:FIN Jobs	Four-Fold	CTL*	
8-063-012		KANNON-Fold Perfect-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
	F:FIN Jobs			[ 0 to 99999999 / 0 / 1 ]
8-063-014	F:FIN Jobs	Ring-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-063-015	F:FIN Jobs	3rd Vendor	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-063-016	F:FIN Jobs	TwinLoop-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-064-001	P:FIN Jobs	Sort	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-064-002	P:FIN Jobs	Stack	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-064-003	P:FIN Jobs	Staple	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-064-004	P:FIN Jobs	Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-064-005	P:FIN Jobs	Z-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-064-006	P:FIN Jobs	Punch	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-064-007	P:FIN Jobs	Other	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-064-008	P:FIN Jobs	Inside-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-064-009	P:FIN Jobs	Three-IN-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-064-010	P:FIN Jobs	Three-OUT-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-064-011	P:FIN Jobs	Four-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-064-012	P:FIN Jobs	KANNON-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-064-013	P:FIN Jobs	Perfect-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-064-014	P:FIN Jobs	Ring-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-064-015	P:FIN Jobs	3rd Vendor	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-064-016	P:FIN Jobs	TwinLoop-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-065-001	S:FIN Jobs	Sort	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-065-002	S:FIN Jobs	Stack	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-065-003	S:FIN Jobs	Staple	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-065-004	S:FIN Jobs	Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-065-005	S:FIN Jobs	Z-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-065-006	S:FIN Jobs	Punch	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-065-007	S:FIN Jobs	Other	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-065-008	S:FIN Jobs	Inside-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-065-009	S:FIN Jobs	Three-IN-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-065-010	S:FIN Jobs	Three-OUT-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-065-011	S:FIN Jobs	Four-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-065-012	S:FIN Jobs	KANNON-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-065-013	S:FIN Jobs	Perfect-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-065-014	S:FIN Jobs	Ring-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-065-015	S:FIN Jobs	3rd Vendor	CTL*	[ 0 to 99999999 / 0 / 1 ]

8-065-016	S:FIN Jobs	TwinLoop-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-066-001	L:FIN Jobs	Sort	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-066-002	L:FIN Jobs	Stack	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-066-003	L:FIN Jobs	Staple	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-066-004	L:FIN Jobs	Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-066-005	L:FIN Jobs	Z-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-066-006	L:FIN Jobs	Punch	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-066-007	L:FIN Jobs	Other	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-066-008	L:FIN Jobs	Inside-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-066-009	L:FIN Jobs	Three-IN-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-066-010	L:FIN Jobs	Three-OUT-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-066-011	L:FIN Jobs	Four-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-066-012	L:FIN Jobs	KANNON-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-066-013	L:FIN Jobs	Perfect-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-066-014	L:FIN Jobs	Ring-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-066-015	L:FIN Jobs	3rd Vendor	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-066-016	L:FIN Jobs	TwinLoop-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-067-001	O:FIN Jobs	Sort	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-067-002	O:FIN Jobs	Stack	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-067-003	O:FIN Jobs	Staple	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-067-004	O:FIN Jobs	Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-067-005	O:FIN Jobs	Z-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-067-006	O:FIN Jobs	Punch	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-067-007	O:FIN Jobs	Other	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-067-008	O:FIN Jobs	Inside-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-067-009	O:FIN Jobs	Three-IN-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-067-010	O:FIN Jobs	Three-OUT-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-067-011	O:FIN Jobs	Four-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-067-012	O:FIN Jobs	KANNON-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-067-013	O:FIN Jobs	Perfect-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-067-014	O:FIN Jobs	Ring-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-067-015	O:FIN Jobs	3rd Vendor	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-067-016	O:FIN Jobs	TwinLoop-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-071-001	T:Jobs/PGS	1 Page	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-071-002	T:Jobs/PGS	2 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-071-003	T:Jobs/PGS	3 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-071-004	T:Jobs/PGS	4 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-071-005	T:Jobs/PGS	5 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]

	T	T	T	
8-071-006	T:Jobs/PGS	6~10 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-071-007	T:Jobs/PGS	11~20 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-071-008	T:Jobs/PGS	21~50 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-071-009	T:Jobs/PGS	51~100 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-071-010	T:Jobs/PGS	101~300 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-071-011	T:Jobs/PGS	301~500 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-071-012	T:Jobs/PGS	501~700 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-071-013	T:Jobs/PGS	701~1000 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-071-014	T:Jobs/PGS	1001∼ Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-072-001	C:Jobs/PGS	1 Page	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-072-002	C:Jobs/PGS	2 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-072-003	C:Jobs/PGS	3 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-072-004	C:Jobs/PGS	4 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-072-005	C:Jobs/PGS	5 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-072-006	C:Jobs/PGS	6~10 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-072-007	C:Jobs/PGS	11~20 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-072-008	C:Jobs/PGS	21~50 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-072-009	C:Jobs/PGS	51~100 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-072-010	C:Jobs/PGS	101~300 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-072-011	C:Jobs/PGS	301~500 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-072-012	C:Jobs/PGS	501~700 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-072-013	C:Jobs/PGS	701~1000 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-072-014	C:Jobs/PGS	1001∼ Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-073-001	F:Jobs/PGS	1 Page	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-073-002	F:Jobs/PGS	2 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-073-003	F:Jobs/PGS	3 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-073-004	F:Jobs/PGS	4 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-073-005	F:Jobs/PGS	5 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-073-006	F:Jobs/PGS	6~10 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-073-007	F:Jobs/PGS	11~20 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-073-008	F:Jobs/PGS	21~50 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-073-009	F:Jobs/PGS	51~100 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-073-010	F:Jobs/PGS	101~300 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-073-011	F:Jobs/PGS	301~500 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-073-012	F:Jobs/PGS	501~700 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-073-013	F:Jobs/PGS	701~1000 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-073-014	F:Jobs/PGS	1001~ Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-074-001	P:Jobs/PGS	1 Page	CTL*	[ 0 to 99999999 / 0 / 1 ]

	T	T	1	
8-074-002	P:Jobs/PGS	2 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-074-003	P:Jobs/PGS	3 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-074-004	P:Jobs/PGS	4 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-074-005	P:Jobs/PGS	5 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-074-006	P:Jobs/PGS	6~10 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-074-007	P:Jobs/PGS	11~20 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-074-008	P:Jobs/PGS	21~50 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-074-009	P:Jobs/PGS	51~100 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-074-010	P:Jobs/PGS	101~300 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-074-011	P:Jobs/PGS	301~500 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-074-012	P:Jobs/PGS	501~700 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-074-013	P:Jobs/PGS	701~1000 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-074-014	P:Jobs/PGS	1001∼ Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-075-001	S:Jobs/PGS	1 Page	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-075-002	S:Jobs/PGS	2 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-075-003	S:Jobs/PGS	3 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-075-004	S:Jobs/PGS	4 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-075-005	S:Jobs/PGS	5 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-075-006	S:Jobs/PGS	6~10 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-075-007	S:Jobs/PGS	11~20 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-075-008	S:Jobs/PGS	21~50 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-075-009	S:Jobs/PGS	51~100 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-075-010	S:Jobs/PGS	101~300 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-075-011	S:Jobs/PGS	301~500 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-075-012	S:Jobs/PGS	501~700 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-075-013	S:Jobs/PGS	701~1000 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-075-014	S:Jobs/PGS	1001~ Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-076-001	L:Jobs/PGS	1 Page	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-076-002	L:Jobs/PGS	2 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-076-003	L:Jobs/PGS	3 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-076-004	L:Jobs/PGS	4 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-076-005	L:Jobs/PGS	5 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-076-006	L:Jobs/PGS	6~10 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-076-007	L:Jobs/PGS	11~20 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-076-008	L:Jobs/PGS	21~50 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-076-009	L:Jobs/PGS	51~100 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-076-010	L:Jobs/PGS	101~300 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-076-011	L:Jobs/PGS	301~500 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]

	1			
8-076-012	L:Jobs/PGS	501~700 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-076-013	L:Jobs/PGS	701~1000 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-076-014	L:Jobs/PGS	1001∼ Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-077-001	O:Jobs/PGS	1 Page	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-077-002	O:Jobs/PGS	2 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-077-003	O:Jobs/PGS	3 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-077-004	O:Jobs/PGS	4 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-077-005	O:Jobs/PGS	5 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-077-006	O:Jobs/PGS	6~10 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-077-007	O:Jobs/PGS	11~20 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-077-008	O:Jobs/PGS	21~50 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-077-009	O:Jobs/PGS	51~100 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-077-010	O:Jobs/PGS	101~300 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-077-011	O:Jobs/PGS	301~500 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-077-012	O:Jobs/PGS	501~700 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-077-013	O:Jobs/PGS	701~1000 Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-077-014	O:Jobs/PGS	1001~ Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-081-001	T:Smart Device	Smart Device	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-082-001	C:Smart Device	Smart Device	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-083-001	F:Smart Device	Smart Device	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-084-001	P:Smart Device	Smart Device	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-085-001	S:Smart Device	Smart Device	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-111-001	T:FAX TX Jobs	B/W(Tel)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-111-002	T:FAX TX Jobs	Color(Tel)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-111-101	T:FAX TX Jobs	B/W(Cloud)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-111-102	T:FAX TX Jobs	Color(Cloud)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-113-001	F:FAX TX Jobs	B/W(Tel)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-113-002	F:FAX TX Jobs	Color(Tel)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-113-101	F:FAX TX Jobs	B/W(Cloud)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-113-102	F:FAX TX Jobs	Color(Cloud)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-121-001	T:IFAX TX Jobs	B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-121-002	T:IFAX TX Jobs	Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-123-001	F:IFAX TX Jobs	B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-123-002	F:IFAX TX Jobs	Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-131-001	T:S-to-Email Jobs	B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-131-002	T:S-to-Email Jobs	Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-131-003	T:S-to-Email Jobs	ACS	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-135-001	S:S-to-Email Jobs	B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]

8-135-002	S:S-to-Email Jobs	Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-135-003	S:S-to-Email Jobs	ACS	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-141-001	T:Deliv Jobs/Svr	B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-141-002	T:Deliv Jobs/Svr	Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-141-003	T:Deliv Jobs/Svr	ACS	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-145-001	S:Deliv Jobs/Svr	B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-145-002	S:Deliv Jobs/Svr	Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-145-003	S:Deliv Jobs/Svr	ACS	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-151-001	T:Deliv Jobs/PC	B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-151-002	T:Deliv Jobs/PC	Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-151-003	T:Deliv Jobs/PC	ACS	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-155-001	S:Deliv Jobs/PC	B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-155-002	S:Deliv Jobs/PC	Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-155-003	S:Deliv Jobs/PC	ACS	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-161-001	T:PCFAX TX Jobs		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-163-001	F:PCFAX TX Jobs		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-171-001	T:Deliv Jobs/WSD/DSM	B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-171-002	T:Deliv Jobs/WSD/DSM	Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-171-003	T:Deliv Jobs/WSD/DSM	ACS	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-175-001	S:Deliv Jobs/WSD/DSM	B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-175-002	S:Deliv Jobs/WSD/DSM	Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-175-003	S:Deliv Jobs/WSD/DSM	ACS	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-181-001	T:Scan to Media Jobs	B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-181-002	T:Scan to Media Jobs	Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-181-003	T:Scan to Media Jobs	ACS	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-185-001	S:Scan to Media Jobs	B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-185-002	S:Scan to Media Jobs	Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-185-003	S:Scan to Media Jobs	ACS	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-191-001	T:Total Scan PGS		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-192-001	C:Total Scan PGS		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-193-001	F:Total Scan PGS		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-195-001	S:Total Scan PGS		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-196-001	L:Total Scan PGS		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-201-001	T:LSize Scan PGS	A3/DLT, Larger	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-203-001	F:LSize Scan PGS	A3/DLT, Larger	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-205-001	S:LSize Scan PGS	A3/DLT, Larger	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-211-001	T:Scan PGS/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-212-001	C:Scan PGS/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]

	T	T	<u> </u>	<u> </u>
8-213-001	F:Scan PGS/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-215-001	S:Scan PGS/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-216-001	L:Scan PGS/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-221-001	ADF Org Feeds	Front	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-221-002	ADF Org Feeds	Back	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-231-001	Scan PGS/Mode	Large Volume	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-231-002	Scan PGS/Mode	SADF	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-231-003	Scan PGS/Mode	Mixed Size	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-231-004	Scan PGS/Mode	Custom Size	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-231-005	Scan PGS/Mode	Platen	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-231-006	Scan PGS/Mode	Mixed 1side/2side	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-241-001	T:Scan PGS/Org	Text	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-241-002	T:Scan PGS/Org	Text/Photo	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-241-003	T:Scan PGS/Org	Photo	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-241-004	T:Scan PGS/Org	GenCopy, Pale	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-241-005	T:Scan PGS/Org	Map	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-241-006	T:Scan PGS/Org	Normal/Detail	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-241-007	T:Scan PGS/Org	Fine/Super Fine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-241-008	T:Scan PGS/Org	Binary	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-241-009	T:Scan PGS/Org	Grayscale	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-241-010	T:Scan PGS/Org	Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-241-011	T:Scan PGS/Org	Other	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-242-001	C:Scan PGS/Org	Text	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-242-002	C:Scan PGS/Org	Text/Photo	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-242-003	C:Scan PGS/Org	Photo	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-242-004	C:Scan PGS/Org	GenCopy, Pale	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-242-005	C:Scan PGS/Org	Map	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-242-011	C:Scan PGS/Org	Other	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-243-001	F:Scan PGS/Org	Text	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-243-002	F:Scan PGS/Org	Text/Photo	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-243-003	F:Scan PGS/Org	Photo	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-243-006	F:Scan PGS/Org	Normal/Detail	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-243-007	F:Scan PGS/Org	Fine/Super Fine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-243-011	F:Scan PGS/Org	Other	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-245-001	S:Scan PGS/Org	Text	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-245-002	S:Scan PGS/Org	Text/Photo	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-245-003	S:Scan PGS/Org	Photo	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-245-004	S:Scan PGS/Org	GenCopy, Pale	CTL*	[ 0 to 99999999 / 0 / 1 ]

8-245-008	S:Scan PGS/Org	Binary	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-245-009	S:Scan PGS/Org	Grayscale	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-245-010	S:Scan PGS/Org	Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-245-011	S:Scan PGS/Org	Other	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-246-001	L:Scan PGS/Org	Text	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-246-002	L:Scan PGS/Org	Text/Photo	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-246-003	L:Scan PGS/Org	Photo	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-246-004	L:Scan PGS/Org	GenCopy, Pale	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-246-005	L:Scan PGS/Org	Map	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-246-011	L:Scan PGS/Org	Other	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-251-001	T:Scan PGS/ImgEdt		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-252-001	C:Scan PGS/ImgEdt		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-255-001	S:Scan PGS/ImgEdt		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-256-001	L:Scan PGS/ImgEdt		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-257-001	O:Scan PGS/ImgEdt		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-261-001	T:Scn PGS/ColCr	Color Conversion	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-261-002	T:Scn PGS/ColCr	Color Erase	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-261-003	T:Scn PGS/ColCr	Background	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-261-004	T:Scn PGS/ColCr	Other	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-262-001	C:Scn PGS/ColCr	Color Conversion	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-262-002	C:Scn PGS/ColCr	Color Erase	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-262-003	C:Scn PGS/ColCr	Background	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-262-004	C:Scn PGS/ColCr	Other	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-265-001	S:Scn PGS/ColCr	Color Conversion	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-265-002	S:Scn PGS/ColCr	Color Erase	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-265-003	S:Scn PGS/ColCr	Background	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-265-004	S:Scn PGS/ColCr	Other	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-266-001	L:Scn PGS/ColCr	Color Conversion	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-266-002	L:Scn PGS/ColCr	Color Erase	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-266-003	L:Scn PGS/ColCr	Background	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-266-004	L:Scn PGS/ColCr	Other	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-281-001	T:Scan PGS/TWAIN		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-285-001	S:Scan PGS/TWAIN		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-291-001	T:Scan PGS/Stamp		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-293-001	F:Scan PGS/Stamp		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-295-001	S:Scan PGS/Stamp		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-301-001	T:Scan PGS/Size	A3	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-301-002	T:Scan PGS/Size	A4	CTL*	[ 0 to 99999999 / 0 / 1 ]

8-301-003	T:Scan PGS/Size	A5	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-301-004	T:Scan PGS/Size	B4	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-301-005	T:Scan PGS/Size	B5	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-301-006	T:Scan PGS/Size	DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-301-007	T:Scan PGS/Size	LG	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-301-008	T:Scan PGS/Size	LT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-301-009	T:Scan PGS/Size	HLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-301-010	T:Scan PGS/Size	Full Bleed	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-301-254	T:Scan PGS/Size	Other (Standard)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-301-255	T:Scan PGS/Size	Other (Custom)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-302-001	C:Scan PGS/Size	A3	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-302-002	C:Scan PGS/Size	A4	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-302-003	C:Scan PGS/Size	A5	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-302-004	C:Scan PGS/Size	B4	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-302-005	C:Scan PGS/Size	B5	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-302-006	C:Scan PGS/Size	DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-302-007	C:Scan PGS/Size	LG	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-302-008	C:Scan PGS/Size	LT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-302-009	C:Scan PGS/Size	HLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-302-010	C:Scan PGS/Size	Full Bleed	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-302-254	C:Scan PGS/Size	Other (Standard)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-302-255	C:Scan PGS/Size	Other (Custom)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-303-001	F:Scan PGS/Size	A3	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-303-002	F:Scan PGS/Size	A4	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-303-003	F:Scan PGS/Size	A5	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-303-004	F:Scan PGS/Size	B4	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-303-005	F:Scan PGS/Size	B5	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-303-006	F:Scan PGS/Size	DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-303-007	F:Scan PGS/Size	LG	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-303-008	F:Scan PGS/Size	LT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-303-009	F:Scan PGS/Size	HLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-303-010	F:Scan PGS/Size	Full Bleed	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-303-254	F:Scan PGS/Size	Other (Standard)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-303-255	F:Scan PGS/Size	Other (Custom)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-305-001	S:Scan PGS/Size	A3	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-305-002	S:Scan PGS/Size	A4	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-305-003	S:Scan PGS/Size	A5	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-305-004	S:Scan PGS/Size	B4	CTL*	[ 0 to 99999999 / 0 / 1 ]

8-305-005	S:Scan PGS/Size	B5	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-305-006	S:Scan PGS/Size	DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-305-007	S:Scan PGS/Size	LG	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-305-008	S:Scan PGS/Size	LT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-305-009	S:Scan PGS/Size	HLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-305-010	S:Scan PGS/Size	Full Bleed	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-305-254	S:Scan PGS/Size	Other (Standard)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-305-255	S:Scan PGS/Size	Other (Custom)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-306-001	L:Scan PGS/Size	A3	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-306-002	L:Scan PGS/Size	A4	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-306-003	L:Scan PGS/Size	A5	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-306-004	L:Scan PGS/Size	B4	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-306-005	L:Scan PGS/Size	B5	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-306-006	L:Scan PGS/Size	DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-306-007	L:Scan PGS/Size	LG	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-306-008	L:Scan PGS/Size	LT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-306-009	L:Scan PGS/Size	HLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-306-010	L:Scan PGS/Size	Full Bleed	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-306-254	L:Scan PGS/Size	Other (Standard)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-306-255	L:Scan PGS/Size	Other (Custom)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-311-001	T:Scan PGS/Rez	1200dpi ~	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-311-002	T:Scan PGS/Rez	600dpi~1199dpi	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-311-003	T:Scan PGS/Rez	400dpi~599dpi	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-311-004	T:Scan PGS/Rez	200dpi~399dpi	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-311-005	T:Scan PGS/Rez	~199dpi	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-315-001	S:Scan PGS/Rez	1200dpi ~	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-315-002	S:Scan PGS/Rez	600dpi~1199dpi	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-315-003	S:Scan PGS/Rez	400dpi~599dpi	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-315-004	S:Scan PGS/Rez	200dpi~399dpi	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-315-005	S:Scan PGS/Rez	~199dpi	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-321-001	T:Sacn Poster	2 Sheet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-321-002	T:Sacn Poster	4 Sheet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-321-003	T:Sacn Poster	9 Sheet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-322-001	C:Sacn Poster	2 Sheet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-322-002	C:Sacn Poster	4 Sheet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-322-003	C:Sacn Poster	9 Sheet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-326-001	L:Sacn Poster	2 Sheet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-326-002	L:Sacn Poster	4 Sheet	CTL*	[ 0 to 99999999 / 0 / 1 ]

	1		T	
8-326-003	L:Sacn Poster	9 Sheet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-381-001	T:Total PrtPGS	Field Number	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-382-001	C:Total PrtPGS	Field Number	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-383-001	F:Total PrtPGS	Field Number	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-384-001	P:Total PrtPGS	Field Number	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-385-001	S:Total PrtPGS	Field Number	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-386-001	L:Total PrtPGS	Field Number	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-387-001	O:Total PrtPGS	Field Number	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-391-001	LSize PrtPGS	A3/DLT, Larger	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-391-003	LSize PrtPGS	BannerPaper	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-401-001	T:PrtPGS/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-402-001	C:PrtPGS/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-403-001	F:PrtPGS/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-404-001	P:PrtPGS/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-405-001	S:PrtPGS/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-406-001	L:PrtPGS/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-411-001	Prints/Duplex		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-421-001	T:PrtPGS/Dup Comb	Simplex> Duplex	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-421-002	T:PrtPGS/Dup Comb	Duplex> Duplex	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-421-003	T:PrtPGS/Dup Comb	Book> Duplex	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-421-004	T:PrtPGS/Dup Comb	Simplex Combine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-421-005	T:PrtPGS/Dup Comb	Duplex Combine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-421-006	T:PrtPGS/Dup Comb	2in1	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-421-007	T:PrtPGS/Dup Comb	4in1	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-421-008	T:PrtPGS/Dup Comb	6in1	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-421-009	T:PrtPGS/Dup Comb	8in1	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-421-010	T:PrtPGS/Dup Comb	9in1	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-421-011	T:PrtPGS/Dup Comb	16in1	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-421-012	T:PrtPGS/Dup Comb	Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-421-013	T:PrtPGS/Dup Comb	Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-421-014	T:PrtPGS/Dup Comb	2in1 + Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-421-015	T:PrtPGS/Dup Comb	4in1 + Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-421-016	T:PrtPGS/Dup Comb	6in1 + Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-421-017	T:PrtPGS/Dup Comb	8in1 + Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-421-018	T:PrtPGS/Dup Comb	9in1 + Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-421-019	T:PrtPGS/Dup Comb	2in1 + Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-421-020	T:PrtPGS/Dup Comb	4in1 + Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-421-021	T:PrtPGS/Dup Comb	6in1 + Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]

8-421-022	T:PrtPGS/Dup Comb	8in1 + Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-421-023	T:PrtPGS/Dup Comb	9in1 + Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-421-024	T:PrtPGS/Dup Comb	16in1 + Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-422-001	C:PrtPGS/Dup Comb	Simplex> Duplex	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-422-002	C:PrtPGS/Dup Comb	Duplex> Duplex	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-422-003	C:PrtPGS/Dup Comb	Book> Duplex	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-422-004	C:PrtPGS/Dup Comb	Simplex Combine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-422-005	C:PrtPGS/Dup Comb	Duplex Combine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-422-006	C:PrtPGS/Dup Comb	2in1	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-422-007	C:PrtPGS/Dup Comb	4in1	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-422-009	C:PrtPGS/Dup Comb	8in1	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-422-012	C:PrtPGS/Dup Comb	Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-422-013	C:PrtPGS/Dup Comb	Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-422-014	C:PrtPGS/Dup Comb	2in1 + Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-422-015	C:PrtPGS/Dup Comb	4in1 + Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-422-017	C:PrtPGS/Dup Comb	8in1 + Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-422-019	C:PrtPGS/Dup Comb	2in1 + Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-422-020	C:PrtPGS/Dup Comb	4in1 + Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-422-022	C:PrtPGS/Dup Comb	8in1 + Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-423-001	F:PrtPGS/Dup Comb	Simplex> Duplex	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-423-004	F:PrtPGS/Dup Comb	Simplex Combine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-423-005	F:PrtPGS/Dup Comb	Duplex Combine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-423-006	F:PrtPGS/Dup Comb	2in1	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-423-007	F:PrtPGS/Dup Comb	4in1	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-423-009	F:PrtPGS/Dup Comb	8in1	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-423-011	F:PrtPGS/Dup Comb	16in1	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-423-012	F:PrtPGS/Dup Comb	Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-423-013	F:PrtPGS/Dup Comb	Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-423-014	F:PrtPGS/Dup Comb	2in1 + Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-423-015	F:PrtPGS/Dup Comb	4in1 + Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-423-017	F:PrtPGS/Dup Comb	8in1 + Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-423-019	F:PrtPGS/Dup Comb	2in1 + Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-423-020	F:PrtPGS/Dup Comb	4in1 + Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-423-022	F:PrtPGS/Dup Comb	8in1 + Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-423-024	F:PrtPGS/Dup Comb	16in1 + Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-424-001	P:PrtPGS/Dup Comb	Simplex> Duplex	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-424-004	P:PrtPGS/Dup Comb	Simplex Combine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-424-005	P:PrtPGS/Dup Comb	Duplex Combine	CTL*	[ 0 to 99999999 / 0 / 1 ]

	T	ı	Ι	
8-424-006	P:PrtPGS/Dup Comb	2in1	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-424-007	P:PrtPGS/Dup Comb	4in1	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-424-008	P:PrtPGS/Dup Comb	6in1	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-424-009	P:PrtPGS/Dup Comb	8in1	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-424-010	P:PrtPGS/Dup Comb	9in1	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-424-011	P:PrtPGS/Dup Comb	16in1	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-424-012	P:PrtPGS/Dup Comb	Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-424-013	P:PrtPGS/Dup Comb	Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-424-014	P:PrtPGS/Dup Comb	2in1 + Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-424-015	P:PrtPGS/Dup Comb	4in1 + Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-424-016	P:PrtPGS/Dup Comb	6in1 + Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-424-017	P:PrtPGS/Dup Comb	8in1 + Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-424-018	P:PrtPGS/Dup Comb	9in1 + Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-424-019	P:PrtPGS/Dup Comb	2in1 + Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-424-020	P:PrtPGS/Dup Comb	4in1 + Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-424-021	P:PrtPGS/Dup Comb	6in1 + Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-424-022	P:PrtPGS/Dup Comb	8in1 + Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-424-023	P:PrtPGS/Dup Comb	9in1 + Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-424-024	P:PrtPGS/Dup Comb	16in1 + Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-425-001	S:PrtPGS/Dup Comb	Simplex> Duplex	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-425-004	S:PrtPGS/Dup Comb	Simplex Combine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-425-005	S:PrtPGS/Dup Comb	Duplex Combine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-425-006	S:PrtPGS/Dup Comb	2in1	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-425-007	S:PrtPGS/Dup Comb	4in1	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-425-009	S:PrtPGS/Dup Comb	8in1	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-425-010	S:PrtPGS/Dup Comb	9in1	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-425-011	S:PrtPGS/Dup Comb	16in1	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-425-012	S:PrtPGS/Dup Comb	Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-425-013	S:PrtPGS/Dup Comb	Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-425-014	S:PrtPGS/Dup Comb	2in1 + Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-425-015	S:PrtPGS/Dup Comb	4in1 + Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-425-017	S:PrtPGS/Dup Comb	8in1 + Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-425-018	S:PrtPGS/Dup Comb	9in1 + Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-425-019	S:PrtPGS/Dup Comb	2in1 + Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-425-020	S:PrtPGS/Dup Comb	4in1 + Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-425-022	S:PrtPGS/Dup Comb	8in1 + Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-425-023	S:PrtPGS/Dup Comb	9in1 + Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-425-024	S:PrtPGS/Dup Comb	16in1 + Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]

8-426-001	L:PrtPGS/Dup Comb	Simplex> Duplex	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-426-004	L:PrtPGS/Dup Comb	Simplex Combine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-426-005	L:PrtPGS/Dup Comb	Duplex Combine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-426-006	L:PrtPGS/Dup Comb	2in1	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-426-007	L:PrtPGS/Dup Comb	4in1	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-426-009	L:PrtPGS/Dup Comb	8in1	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-426-011	L:PrtPGS/Dup Comb	16in1	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-426-012	L:PrtPGS/Dup Comb	Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-426-013	L:PrtPGS/Dup Comb	Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-426-014	L:PrtPGS/Dup Comb	2in1 + Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-426-015	L:PrtPGS/Dup Comb	4in1 + Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-426-017	L:PrtPGS/Dup Comb	8in1 + Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-426-019	L:PrtPGS/Dup Comb	2in1 + Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-426-020	L:PrtPGS/Dup Comb	4in1 + Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-426-022	L:PrtPGS/Dup Comb	8in1 + Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-426-024	L:PrtPGS/Dup Comb	16in1 + Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-427-001	O:PrtPGS/Dup Comb	Simplex> Duplex	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-427-002	O:PrtPGS/Dup Comb	Duplex> Duplex	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-427-003	O:PrtPGS/Dup Comb	Book> Duplex	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-427-004	O:PrtPGS/Dup Comb	Simplex Combine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-427-005	O:PrtPGS/Dup Comb	Duplex Combine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-427-006	O:PrtPGS/Dup Comb	2in1	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-427-007	O:PrtPGS/Dup Comb	4in1	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-427-008	O:PrtPGS/Dup Comb	6in1	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-427-009	O:PrtPGS/Dup Comb	8in1	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-427-010	O:PrtPGS/Dup Comb	9in1	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-427-011	O:PrtPGS/Dup Comb	16in1	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-427-012	O:PrtPGS/Dup Comb	Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-427-013	O:PrtPGS/Dup Comb	Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-427-014	O:PrtPGS/Dup Comb	2in1 + Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-427-015	O:PrtPGS/Dup Comb	4in1 + Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-427-016	O:PrtPGS/Dup Comb	6in1 + Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-427-017	O:PrtPGS/Dup Comb	8in1 + Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-427-018	O:PrtPGS/Dup Comb	9in1 + Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-427-019	O:PrtPGS/Dup Comb	2in1 + Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-427-020	O:PrtPGS/Dup Comb	4in1 + Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-427-021	O:PrtPGS/Dup Comb	6in1 + Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-427-022	O:PrtPGS/Dup Comb	8in1 + Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]

0.427.022	O. P. (P.CC/P. C. 1	0: 1 . 36	CITE 1	F 0 / 00000000 / 0 / 1 1
8-427-023	O:PrtPGS/Dup Comb	9in1 + Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-427-024	O:PrtPGS/Dup Comb	16in1 + Magazine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-431-001	T:PrtPGS/ImgEdt	Cover/Slip Sheet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-431-002	T:PrtPGS/ImgEdt	Series/Book	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-431-003	T:PrtPGS/ImgEdt	User Stamp	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-432-001	C:PrtPGS/ImgEdt	Cover/Slip Sheet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-432-002	C:PrtPGS/ImgEdt	Series/Book	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-432-003	C:PrtPGS/ImgEdt	User Stamp	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-434-001	P:PrtPGS/ImgEdt	Cover/Slip Sheet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-434-002	P:PrtPGS/ImgEdt	Series/Book	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-434-003	P:PrtPGS/ImgEdt	User Stamp	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-436-001	L:PrtPGS/ImgEdt	Cover/Slip Sheet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-436-002	L:PrtPGS/ImgEdt	Series/Book	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-436-003	L:PrtPGS/ImgEdt	User Stamp	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-437-001	O:PrtPGS/ImgEdt	Cover/Slip Sheet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-437-002	O:PrtPGS/ImgEdt	Series/Book	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-437-003	O:PrtPGS/ImgEdt	User Stamp	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-441-001	T:PrtPGS/Ppr Size	A3	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-441-002	T:PrtPGS/Ppr Size	A4	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-441-003	T:PrtPGS/Ppr Size	A5	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-441-004	T:PrtPGS/Ppr Size	B4	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-441-005	T:PrtPGS/Ppr Size	B5	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-441-006	T:PrtPGS/Ppr Size	DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-441-007	T:PrtPGS/Ppr Size	LG	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-441-008	T:PrtPGS/Ppr Size	LT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-441-009	T:PrtPGS/Ppr Size	HLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-441-010	T:PrtPGS/Ppr Size	Full Bleed	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-441-254	T:PrtPGS/Ppr Size	Other (Standard)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-441-255	T:PrtPGS/Ppr Size	Other (Custom)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-442-001	C:PrtPGS/Ppr Size	A3	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-442-002	C:PrtPGS/Ppr Size	A4	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-442-003	C:PrtPGS/Ppr Size	A5	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-442-004	C:PrtPGS/Ppr Size	B4	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-442-005	C:PrtPGS/Ppr Size	B5	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-442-006	C:PrtPGS/Ppr Size	DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-442-007	C:PrtPGS/Ppr Size	LG	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-442-008	C:PrtPGS/Ppr Size	LT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-442-009	C:PrtPGS/Ppr Size	HLT	CTL*	[ 0 to 99999999 / 0 / 1 ]

8-442-010	C:PrtPGS/Ppr Size	Full Bleed	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-442-254	C:PrtPGS/Ppr Size	Other (Standard)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-442-255	C:PrtPGS/Ppr Size	Other (Custom)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-443-001	F:PrtPGS/Ppr Size	A3	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-443-002	F:PrtPGS/Ppr Size	A4	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-443-003	F:PrtPGS/Ppr Size	A5	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-443-004	F:PrtPGS/Ppr Size	B4	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-443-005	F:PrtPGS/Ppr Size	B5	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-443-006	F:PrtPGS/Ppr Size	DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-443-007	F:PrtPGS/Ppr Size	LG	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-443-008	F:PrtPGS/Ppr Size	LT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-443-009	F:PrtPGS/Ppr Size	HLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-443-010	F:PrtPGS/Ppr Size	Full Bleed	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-443-254	F:PrtPGS/Ppr Size	Other (Standard)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-443-255	F:PrtPGS/Ppr Size	Other (Custom)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-444-001	P:PrtPGS/Ppr Size	A3	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-444-002	P:PrtPGS/Ppr Size	A4	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-444-003	P:PrtPGS/Ppr Size	A5	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-444-004	P:PrtPGS/Ppr Size	B4	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-444-005	P:PrtPGS/Ppr Size	B5	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-444-006	P:PrtPGS/Ppr Size	DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-444-007	P:PrtPGS/Ppr Size	LG	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-444-008	P:PrtPGS/Ppr Size	LT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-444-009	P:PrtPGS/Ppr Size	HLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-444-010	P:PrtPGS/Ppr Size	Full Bleed	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-444-254	P:PrtPGS/Ppr Size	Other (Standard)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-444-255	P:PrtPGS/Ppr Size	Other (Custom)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-445-001	S:PrtPGS/Ppr Size	A3	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-445-002	S:PrtPGS/Ppr Size	A4	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-445-003	S:PrtPGS/Ppr Size	A5	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-445-004	S:PrtPGS/Ppr Size	B4	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-445-005	S:PrtPGS/Ppr Size	B5	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-445-006	S:PrtPGS/Ppr Size	DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-445-007	S:PrtPGS/Ppr Size	LG	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-445-008	S:PrtPGS/Ppr Size	LT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-445-009	S:PrtPGS/Ppr Size	HLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-445-010	S:PrtPGS/Ppr Size	Full Bleed	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-445-254	S:PrtPGS/Ppr Size	Other (Standard)	CTL*	[ 0 to 99999999 / 0 / 1 ]

8-445-255	S:PrtPGS/Ppr Size	Other (Custom)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-446-001	L:PrtPGS/Ppr Size	A3	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-446-002	L:PrtPGS/Ppr Size	A4	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-446-003	L:PrtPGS/Ppr Size	A5	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-446-004	L:PrtPGS/Ppr Size	B4	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-446-005	L:PrtPGS/Ppr Size	B5	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-446-006	L:PrtPGS/Ppr Size	DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-446-007	L:PrtPGS/Ppr Size	LG	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-446-008	L:PrtPGS/Ppr Size	LT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-446-009	L:PrtPGS/Ppr Size	HLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-446-010	L:PrtPGS/Ppr Size	Full Bleed	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-446-254	L:PrtPGS/Ppr Size	Other (Standard)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-446-255	L:PrtPGS/Ppr Size	Other (Custom)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-447-001	O:PrtPGS/Ppr Size	A3	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-447-002	O:PrtPGS/Ppr Size	A4	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-447-003	O:PrtPGS/Ppr Size	A5	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-447-004	O:PrtPGS/Ppr Size	B4	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-447-005	O:PrtPGS/Ppr Size	B5	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-447-006	O:PrtPGS/Ppr Size	DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-447-007	O:PrtPGS/Ppr Size	LG	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-447-008	O:PrtPGS/Ppr Size	LT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-447-009	O:PrtPGS/Ppr Size	HLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-447-010	O:PrtPGS/Ppr Size	Full Bleed	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-447-254	O:PrtPGS/Ppr Size	Other (Standard)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-447-255	O:PrtPGS/Ppr Size	Other (Custom)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-451-001	PrtPGS/Ppr Tray	Bypass Tray	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-451-002	PrtPGS/Ppr Tray	Tray 1	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-451-003	PrtPGS/Ppr Tray	Tray 2	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-451-004	PrtPGS/Ppr Tray	Tray 3	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-451-005	PrtPGS/Ppr Tray	Tray 4	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-451-006	PrtPGS/Ppr Tray	Tray 5	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-451-007	PrtPGS/Ppr Tray	Tray 6	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-451-008	PrtPGS/Ppr Tray	Tray 7	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-451-009	PrtPGS/Ppr Tray	Tray 8	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-451-010	PrtPGS/Ppr Tray	Tray 9	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-451-011	PrtPGS/Ppr Tray	Tray 10	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-451-012	PrtPGS/Ppr Tray	Tray 11	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-451-013	PrtPGS/Ppr Tray	Tray 12	CTL*	[ 0 to 99999999 / 0 / 1 ]

8-451-014	PrtPGS/Ppr Tray	Tray 13	CTL*	[ 0 to 99999999 / 0 / 1 ]
		-		
8-451-015	PrtPGS/Ppr Tray	Tray 14	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-451-016	PrtPGS/Ppr Tray	Tray 15	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-451-101	PrtPGS/Ppr Tray	LC Inserter	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-451-102	PrtPGS/Ppr Tray	3rd Vendor	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-461-001	T:PrtPGS/Ppr Type	Normal	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-461-002	T:PrtPGS/Ppr Type	Recycled	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-461-003	T:PrtPGS/Ppr Type	Special	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-461-004	T:PrtPGS/Ppr Type	Thick	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-461-005	T:PrtPGS/Ppr Type	Normal (Back)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-461-006	T:PrtPGS/Ppr Type	Thick (Back)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-461-007	T:PrtPGS/Ppr Type	ОНР	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-461-008	T:PrtPGS/Ppr Type	Other	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-462-001	C:PrtPGS/Ppr Type	Normal	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-462-002	C:PrtPGS/Ppr Type	Recycled	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-462-003	C:PrtPGS/Ppr Type	Special	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-462-004	C:PrtPGS/Ppr Type	Thick	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-462-005	C:PrtPGS/Ppr Type	Normal (Back)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-462-006	C:PrtPGS/Ppr Type	Thick (Back)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-462-007	C:PrtPGS/Ppr Type	ОНР	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-462-008	C:PrtPGS/Ppr Type	Other	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-463-001	F:PrtPGS/Ppr Type	Normal	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-463-002	F:PrtPGS/Ppr Type	Recycled	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-463-003	F:PrtPGS/Ppr Type	Special	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-463-004	F:PrtPGS/Ppr Type	Thick	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-463-005	F:PrtPGS/Ppr Type	Normal (Back)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-463-006	F:PrtPGS/Ppr Type	Thick (Back)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-463-007	F:PrtPGS/Ppr Type	OHP	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-463-008	F:PrtPGS/Ppr Type	Other	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-464-001	P:PrtPGS/Ppr Type	Normal	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-464-002	P:PrtPGS/Ppr Type	Recycled	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-464-003	P:PrtPGS/Ppr Type	Special	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-464-004	P:PrtPGS/Ppr Type	Thick	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-464-005	P:PrtPGS/Ppr Type	Normal (Back)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-464-006	P:PrtPGS/Ppr Type	Thick (Back)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-464-007	P:PrtPGS/Ppr Type	ОНР	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-464-008	P:PrtPGS/Ppr Type	Other	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-466-001	L:PrtPGS/Ppr Type	Normal	CTL*	[ 0 to 99999999 / 0 / 1 ]

1				
8-466-002	L:PrtPGS/Ppr Type	Recycled	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-466-003	L:PrtPGS/Ppr Type	Special	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-466-004	L:PrtPGS/Ppr Type	Thick	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-466-005	L:PrtPGS/Ppr Type	Normal (Back)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-466-006	L:PrtPGS/Ppr Type	Thick (Back)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-466-007	L:PrtPGS/Ppr Type	OHP	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-466-008	L:PrtPGS/Ppr Type	Other	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-471-001	PrtPGS/Mag	~49%	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-471-002	PrtPGS/Mag	50%~99%	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-471-003	PrtPGS/Mag	100%	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-471-004	PrtPGS/Mag	101%~200%	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-471-005	PrtPGS/Mag	201% ~	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-481-001	T:PrtPGS/TonSave		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-484-001	P:PrtPGS/TonSave		CTL*	[ 0 to 99999999 / 0 / 1 ]
8-491-001	T:PrtPGS/Col Mode	B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-491-002	T:PrtPGS/Col Mode	Single Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-491-003	T:PrtPGS/Col Mode	Two Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-491-004	T:PrtPGS/Col Mode	Full Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-491-051	T:PrtPGS/Col Mode	B/W(Banner)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-491-052	T:PrtPGS/Col Mode	Single Color(Banner)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-491-053	T:PrtPGS/Col Mode	Two Color(Banner)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-491-054	T:PrtPGS/Col Mode	Full Color(Banner)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-492-001	C:PrtPGS/Col Mode	B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-492-002	C:PrtPGS/Col Mode	Single Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-492-003	C:PrtPGS/Col Mode	Two Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-492-004	C:PrtPGS/Col Mode	Full Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-492-051	C:PrtPGS/Col Mode	B/W(Banner)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-492-052	C:PrtPGS/Col Mode	Single Color(Banner)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-492-053	C:PrtPGS/Col Mode	Two Color(Banner)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-492-054	C:PrtPGS/Col Mode	Full Color(Banner)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-493-001	F:PrtPGS/Col Mode	B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-493-002	F:PrtPGS/Col Mode	Single Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-493-003	F:PrtPGS/Col Mode	Two Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-493-004	F:PrtPGS/Col Mode	Full Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-493-051	F:PrtPGS/Col Mode	B/W(Banner)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-493-052	F:PrtPGS/Col Mode	Single Color(Banner)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-493-053	F:PrtPGS/Col Mode	Two Color(Banner)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-493-054	F:PrtPGS/Col Mode	Full Color(Banner)	CTL*	[ 0 to 99999999 / 0 / 1 ]

8-496-001	L:PrtPGS/Col Mode	B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-496-002	L:PrtPGS/Col Mode	Single Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-496-003	L:PrtPGS/Col Mode	Two Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-496-004	L:PrtPGS/Col Mode	Full Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-496-051	L:PrtPGS/Col Mode	B/W(Banner)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-496-052	L:PrtPGS/Col Mode	Single Color(Banner)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-496-053	L:PrtPGS/Col Mode	Two Color(Banner)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-496-054	L:PrtPGS/Col Mode	Full Color(Banner)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-497-001	O:PrtPGS/Col Mode	B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-497-002	O:PrtPGS/Col Mode	Single Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-497-003	O:PrtPGS/Col Mode	Two Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-497-004	O:PrtPGS/Col Mode	Full Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-497-051	O:PrtPGS/Col Mode	B/W(Banner)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-497-052	O:PrtPGS/Col Mode	Single Color(Banner)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-497-053	O:PrtPGS/Col Mode	Two Color(Banner)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-497-054	O:PrtPGS/Col Mode	Full Color(Banner)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-501-001	T:PrtPGS/Col Mode	B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-501-002	T:PrtPGS/Col Mode	Mono Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-501-003	T:PrtPGS/Col Mode	Full Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-501-004	T:PrtPGS/Col Mode	Single Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-501-005	T:PrtPGS/Col Mode	Two Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-501-051	T:PrtPGS/Col Mode	B/W(Banner)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-501-052	T:PrtPGS/Col Mode	Full Color(Banner)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-501-053	T:PrtPGS/Col Mode	Single Color(Banner)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-501-054	T:PrtPGS/Col Mode	Two Color(Banner)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-504-001	P:PrtPGS/Col Mode	B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-504-002	P:PrtPGS/Col Mode	Mono Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-504-003	P:PrtPGS/Col Mode	Full Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-504-004	P:PrtPGS/Col Mode	Single Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-504-005	P:PrtPGS/Col Mode	Two Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-504-051	P:PrtPGS/Col Mode	B/W(Banner)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-504-052	P:PrtPGS/Col Mode	Full Color(Banner)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-504-053	P:PrtPGS/Col Mode	Single Color(Banner)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-504-054	P:PrtPGS/Col Mode	Two Color(Banner)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-507-001	O:PrtPGS/Col Mode	B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-507-002	O:PrtPGS/Col Mode	Mono Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-507-003	O:PrtPGS/Col Mode	Full Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-507-004	O:PrtPGS/Col Mode	Single Color	CTL*	[ 0 to 99999999 / 0 / 1 ]

8-507-005	O:PrtPGS/Col Mode	Two Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-507-051	O:PrtPGS/Col Mode	B/W(Banner)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-507-052	O:PrtPGS/Col Mode	Full Color(Banner)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-507-053	O:PrtPGS/Col Mode	Single Color(Banner)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-507-054	O:PrtPGS/Col Mode	Two Color(Banner)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-511-001	T:PrtPGS/Emul	RPCS	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-511-002	T:PrtPGS/Emul	RPDL	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-511-003	T:PrtPGS/Emul	PS3	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-511-004	T:PrtPGS/Emul	R98	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-511-005	T:PrtPGS/Emul	R16	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-511-006	T:PrtPGS/Emul	GL/GL2	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-511-007	T:PrtPGS/Emul	R55	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-511-008	T:PrtPGS/Emul	RTIFF	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-511-009	T:PrtPGS/Emul	PDF	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-511-010	T:PrtPGS/Emul	PCL5e/5c	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-511-011	T:PrtPGS/Emul	PCL XL	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-511-012	T:PrtPGS/Emul	IPDL-C	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-511-013	T:PrtPGS/Emul	BM-Links	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-511-014	T:PrtPGS/Emul	Other	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-511-015	T:PrtPGS/Emul	IPDS	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-511-016	T:PrtPGS/Emul	XPS	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-514-001	P:PrtPGS/Emul	RPCS	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-514-002	P:PrtPGS/Emul	RPDL	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-514-003	P:PrtPGS/Emul	PS3	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-514-004	P:PrtPGS/Emul	R98	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-514-005	P:PrtPGS/Emul	R16	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-514-006	P:PrtPGS/Emul	GL/GL2	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-514-007	P:PrtPGS/Emul	R55	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-514-008	P:PrtPGS/Emul	RTIFF	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-514-009	P:PrtPGS/Emul	PDF	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-514-010	P:PrtPGS/Emul	PCL5e/5c	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-514-011	P:PrtPGS/Emul	PCL XL	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-514-012	P:PrtPGS/Emul	IPDL-C	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-514-013	P:PrtPGS/Emul	BM-Links	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-514-014	P:PrtPGS/Emul	Other	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-514-015	P:PrtPGS/Emul	IPDS	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-514-016	P:PrtPGS/Emul	XPS	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-521-001	T:PrtPGS/FIN	Sort	CTL*	[ 0 to 99999999 / 0 / 1 ]

8-521-002	T:PrtPGS/FIN	Stack	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-521-003	T:PrtPGS/FIN	Staple	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-521-004	T:PrtPGS/FIN	Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-521-005	T:PrtPGS/FIN	Z-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-521-006	T:PrtPGS/FIN	Punch	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-521-007	T:PrtPGS/FIN	Other	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-521-008	T:PrtPGS/FIN	Inside-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-521-009	T:PrtPGS/FIN	Three-IN-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-521-010	T:PrtPGS/FIN	Three-OUT-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-521-011	T:PrtPGS/FIN	Four-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-521-012	T:PrtPGS/FIN	KANNON-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-521-013	T:PrtPGS/FIN	Perfect-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-521-014	T:PrtPGS/FIN	Ring-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-521-015	T:PrtPGS/FIN	3rd Vendor	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-521-016	T:PrtPGS/FIN	TwinLoop-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-522-001	C:PrtPGS/FIN	Sort Sort	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-522-001	C:PrtPGS/FIN	Stack	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-522-003	C:PrtPGS/FIN	Staple	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-522-004	C:PrtPGS/FIN	Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-522-005	C:PrtPGS/FIN	Z-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
				,
8-522-006	C:PrtPGS/FIN	Punch	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-522-007	C:PrtPGS/FIN	Other	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-522-008	C:PrtPGS/FIN	Inside-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-522-009	C:PrtPGS/FIN	Three-IN-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-522-010	C:PrtPGS/FIN	Three-OUT-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-522-011	C:PrtPGS/FIN	Four-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-522-012	C:PrtPGS/FIN	KANNON-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-522-013	C:PrtPGS/FIN	Perfect-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-522-014	C:PrtPGS/FIN	Ring-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-522-015	C:PrtPGS/FIN	3rd Vendor	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-522-016	C:PrtPGS/FIN	TwinLoop-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-523-001	F:PrtPGS/FIN	Sort	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-523-002	F:PrtPGS/FIN	Stack	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-523-003	F:PrtPGS/FIN	Staple	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-523-004	F:PrtPGS/FIN	Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-523-005	F:PrtPGS/FIN	Z-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-523-006	F:PrtPGS/FIN	Punch	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-523-007	F:PrtPGS/FIN	Other	CTL*	[ 0 to 99999999 / 0 / 1 ]

8-523-008	F:PrtPGS/FIN	Inside-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-523-009	F:PrtPGS/FIN	Three-IN-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-523-010	F:PrtPGS/FIN	Three-OUT-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-523-011	F:PrtPGS/FIN	Four-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-523-012	F:PrtPGS/FIN	KANNON-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-523-013	F:PrtPGS/FIN	Perfect-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-523-014	F:PrtPGS/FIN	Ring-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-523-015	F:PrtPGS/FIN	3rd Vendor	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-523-016	F:PrtPGS/FIN	TwinLoop-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-524-001	P:PrtPGS/FIN	Sort	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-524-002	P:PrtPGS/FIN	Stack	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-524-003	P:PrtPGS/FIN	Staple	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-524-004	P:PrtPGS/FIN	Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-524-005	P:PrtPGS/FIN	Z-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-524-006	P:PrtPGS/FIN	Punch	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-524-007	P:PrtPGS/FIN	Other	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-524-008	P:PrtPGS/FIN	Inside-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-524-009	P:PrtPGS/FIN	Three-IN-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-524-010	P:PrtPGS/FIN	Three-OUT-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-524-011	P:PrtPGS/FIN	Four-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-524-012	P:PrtPGS/FIN	KANNON-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-524-013	P:PrtPGS/FIN	Perfect-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-524-014	P:PrtPGS/FIN	Ring-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-524-015	P:PrtPGS/FIN	3rd Vendor	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-524-016	P:PrtPGS/FIN	TwinLoop-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-525-001	S:PrtPGS/FIN	Sort	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-525-002	S:PrtPGS/FIN	Stack	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-525-003	S:PrtPGS/FIN	Staple	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-525-004	S:PrtPGS/FIN	Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-525-005	S:PrtPGS/FIN	Z-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-525-006	S:PrtPGS/FIN	Punch	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-525-007	S:PrtPGS/FIN	Other	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-525-008	S:PrtPGS/FIN	Inside-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-525-009	S:PrtPGS/FIN	Three-IN-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-525-010	S:PrtPGS/FIN	Three-OUT-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-525-011	S:PrtPGS/FIN	Four-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-525-012	S:PrtPGS/FIN	KANNON-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-525-013	S:PrtPGS/FIN	Perfect-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]

8-525-014	S:PrtPGS/FIN	Ring-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-525-015	S:PrtPGS/FIN	3rd Vendor	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-525-016	S:PrtPGS/FIN	TwinLoop-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-526-001	L:PrtPGS/FIN	Sort	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-526-002	L:PrtPGS/FIN	Stack	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-526-003	L:PrtPGS/FIN	Staple	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-526-004	L:PrtPGS/FIN	Booklet	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-526-005	L:PrtPGS/FIN	Z-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-526-006	L:PrtPGS/FIN	Punch	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-526-007	L:PrtPGS/FIN	Other	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-526-008	L:PrtPGS/FIN	Inside-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-526-009	L:PrtPGS/FIN	Three-IN-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-526-010	L:PrtPGS/FIN	Three-OUT-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-526-011	L:PrtPGS/FIN	Four-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-526-012	L:PrtPGS/FIN	KANNON-Fold	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-526-013	L:PrtPGS/FIN	Perfect-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-526-014	L:PrtPGS/FIN	Ring-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-526-015	L:PrtPGS/FIN	3rd Vendor	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-526-016	L:PrtPGS/FIN	TwinLoop-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-531-001	Staple	Staples	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-531-002	Staple	Stapless	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-551-001	T:PrtBooks/FIN	Perfect-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-551-002	T:PrtBooks/FIN	Ring-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-551-003	T:PrtBooks/FIN	TwinLoop-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-552-001	C:PrtBooks/FIN	Perfect-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-552-002	C:PrtBooks/FIN	Ring-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-552-003	C:PrtBooks/FIN	TwinLoop-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-554-001	P:PrtBooks/FIN	Perfect-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-554-002	P:PrtBooks/FIN	Ring-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-554-003	P:PrtBooks/FIN	TwinLoop-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-556-001	L:PrtBooks/FIN	Perfect-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-556-002	L:PrtBooks/FIN	Ring-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-556-003	L:PrtBooks/FIN	TwinLoop-Bind	CTL*	[ 0 to 99999999 / 0 / 1 ]

# SP Tables - SP8-XXX (2)

## SP8-XXX (Data Log2) -2

SP No.	Large Category	Small Category	ENG or CTL	[Min to Max/Init./Step]
8-561- 001	T:A Sheet Of Paper	Total: Over A3/DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-561- 002	T:A Sheet Of Paper	Total: Under A3/DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-561- 003	T:A Sheet Of Paper	Duplex: Over A3/DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-561- 004	T:A Sheet Of Paper	Duplex: Under A3/DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-562- 001	C:A Sheet Of Paper	Total: Over A3/DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-562- 002	C:A Sheet Of Paper	Total: Under A3/DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-562- 003	C:A Sheet Of Paper	Duplex: Over A3/DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-562- 004	C:A Sheet Of Paper	Duplex: Under A3/DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-563- 001	F:A Sheet Of Paper	Total: Over A3/DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-563- 002	F:A Sheet Of Paper	Total: Under A3/DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-563- 003	F:A Sheet Of Paper	Duplex: Over A3/DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-563- 004	F:A Sheet Of Paper	Duplex: Under A3/DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-564- 001	P:A Sheet Of Paper	Total: Over A3/DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-564- 002	P:A Sheet Of Paper	Total: Under A3/DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-564- 003	P:A Sheet Of Paper	Duplex: Over A3/DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-564- 004	P:A Sheet Of Paper	Duplex: Under A3/DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-566-	L:A Sheet Of Paper	Total: Over A3/DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]

001				
8-566-	L:A Sheet Of Paper	Total: Under A3/DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
002				
8-566-	L:A Sheet Of Paper	Duplex: Over A3/DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
003				
8-566-	L:A Sheet Of Paper	Duplex: Under A3/DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
004				
8-567-	O:A Sheet Of Paper	Total: Over A3/DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
001				
8-567-	O:A Sheet Of Paper	Total: Under A3/DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
002				
8-567-	O:A Sheet Of Paper	Duplex: Over A3/DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
003				
8-567-	O:A Sheet Of Paper	Duplex: Under A3/DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
004				
8-581-	T:Counter	Total	CTL*	[ 0 to 99999999 / 0 / 1 ]
001				
8-581-	T:Counter	Total: Full Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
002				
8-581-	T:Counter	B&W/Single Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
003				
8-581-	T:Counter	Development: CMY	CTL*	[ 0 to 99999999 / 0 / 1 ]
004	T. C.	D 1	CITY 4	5.0
8-581-	T:Counter	Development: K	CTL*	[ 0 to 99999999 / 0 / 1 ]
005	TO	001	CTI *	F 0.4 . 00000000 / 0 / 1 1
8-581- 006	T:Counter	Copy: Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-581-	T:Counter	Conv. D/W	CTL*	[ 0 to 99999999 / 0 / 1 ]
007	1.Counter	Copy: B/W	CIL	[01099999997071]
8-581-	T:Counter	Print: Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
008	1.Counter	Time. Color	CIL	
8-581-	T:Counter	Print: B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]
009	1.counter	Time. B/ W		[0.000000000000000000000000000000000000
8-581-	T:Counter	Total: Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
010				
8-581-	T:Counter	Total: B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]
011				[
8-581-	T:Counter	Full Color: A3	CTL*	[ 0 to 99999999 / 0 / 1 ]

012				
8-581- 013	T:Counter	Full Color: B4 JIS or Smaller	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-581- 014	T:Counter	Full Color Print	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-581- 015	T:Counter	Mono Color Print	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-581- 016	T:Counter	Full Color GPC	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-581- 017	T:Counter	Twin Color Mode Print	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-581- 018	T:Counter	Full Color Print(Twin)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-581- 019	T:Counter	Mono Color Print(Twin)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-581- 020	T:Counter	Full Color Total(CV)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-581- 021	T:Counter	Mono Color Total(CV)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-581- 022	T:Counter	Full Color Print(CV)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-581- 028	T:Counter	Development: CMY(A3)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-581- 029	T:Counter	Development: K(A3)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-581- 030	T:Counter	Total: Color(A3)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-581- 031	T:Counter	Total: B/W(A3)	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-582- 001	C:Counter	B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-582- 002	C:Counter	Single Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-582- 003	C:Counter	Two Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-582- 004	C:Counter	Full Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-583-	F:Counter	B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]

001				
8-583-	F:Counter	Single Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
002				
8-584-	P:Counter	B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]
001				
8-584-	P:Counter	Mono Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
002				
8-584-	P:Counter	Full Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
003				
8-584-	P:Counter	Single Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
004				
8-584-	P:Counter	Two Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
005				
8-586-	L:Counter	B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]
001				
8-586-	L:Counter	Single Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
002				
8-586-	L:Counter	Two Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
003				
8-586-	L:Counter	Full Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
004	0.0	10/01/5	CITY 4	5.0.100000000.10.11.7
8-591-	O:Counter	A3/DLT	CTL*	[ 0 to 99999999 / 0 / 1 ]
001	0.0	D1.	CTI \$	F 0.4 . 00000000 / 0 / 1 1
8-591- 002	O:Counter	Duplex	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-591-	O:Counter	Banner	CTL*	[ 0 to 99999999 / 0 / 1 ]
005	O.Counter	Baillei	CIL	[01099999997071]
8-601-	T:Coverage Counter	B/W	CTL*	[ 0 to 2147483647 / 0 /
001	1.Coverage Counter	D/ W	CIL	1%]
8-601-	T:Coverage Counter	Color	CTL*	[ 0 to 2147483647 / 0 /
002	1.coverage counter			1%]
8-601-	T:Coverage Counter	B/W Printing Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
011				
8-601-	T:Coverage Counter	Color Printing Pages	CTL*	[ 0 to 99999999 / 0 / 1 ]
012				
8-601-	T:Coverage Counter	Coverage Counter 1	CTL*	[ 0 to 99999999 / 0 / 1 ]
021				
8-601-	T:Coverage Counter	Coverage Counter 2	CTL*	[ 0 to 99999999 / 0 / 1 ]

022				
8-601-	T:Coverage Counter	Coverage Counter 3	CTL*	[ 0 to 99999999 / 0 / 1 ]
023				
8-601-	Coverage Counter	Coverage Counter 1 (YMC)	CTL*	[ 0 to 99999999 / 0 / 1 ]
031				
8-601-	Coverage Counter	Coverage Counter 2 (YMC)	CTL*	[ 0 to 99999999 / 0 / 1 ]
032				
8-601-	Coverage Counter	Coverage Counter 3 (YMC)	CTL*	[ 0 to 99999999 / 0 / 1 ]
033				
8-602-	C:Coverage Counter	B/W	CTL*	[ 0 to 2147483647 / 0 /
001				1%]
8-602-	C:Coverage Counter	Single Color	CTL*	[ 0 to 2147483647 / 0 /
002				1%]
8-602-	C:Coverage Counter	Two Color	CTL*	[ 0 to 2147483647 / 0 /
003				1%]
8-602-	C:Coverage Counter	Full Color	CTL*	[ 0 to 2147483647 / 0 /
004				1%]
8-603-	F:Coverage Counter	B/W	CTL*	[ 0 to 2147483647 / 0 /
001				1%]
8-603-	F:Coverage Counter	Single Color	CTL*	[ 0 to 2147483647 / 0 /
002				1% ]
8-604-	P:Coverage Counter	B/W	CTL*	[ 0 to 2147483647 / 0 /
001				1%]
8-604-	P:Coverage Counter	Single Color	CTL*	[ 0 to 2147483647 / 0 /
002				1% ]
8-604-	P:Coverage Counter	Two Color	CTL*	[ 0 to 2147483647 / 0 /
003				1% ]
8-604-	P:Coverage Counter	Full Color	CTL*	[ 0 to 2147483647 / 0 /
004				1% ]
8-606-	L:Coverage Counter	B/W	CTL*	[ 0 to 2147483647 / 0 /
001				1% ]
8-606-	L:Coverage Counter	Single Color	CTL*	[ 0 to 2147483647 / 0 /
002				1% ]
8-606-	L:Coverage Counter	Two Color	CTL*	[ 0 to 2147483647 / 0 /
003				1% ]
8-606-	L:Coverage Counter	Full Color	CTL*	[ 0 to 2147483647 / 0 /
004				1% ]
8-617-	SDK Apli Counter	SDK-1	CTL*	[ 0 to 99999999 / 0 / 1 ]

001				
8-617-	SDK Apli Counter	SDK-2	CTL*	[ 0 to 99999999 / 0 / 1 ]
002				
8-617-	SDK Apli Counter	SDK-3	CTL*	[ 0 to 99999999 / 0 / 1 ]
003				
8-617-	SDK Apli Counter	SDK-4	CTL*	[ 0 to 99999999 / 0 / 1 ]
004				
8-617-	SDK Apli Counter	SDK-5	CTL*	[ 0 to 99999999 / 0 / 1 ]
005				
8-617-	SDK Apli Counter	SDK-6	CTL*	[ 0 to 99999999 / 0 / 1 ]
006				
8-617-	SDK Apli Counter	SDK-7	CTL*	[ 0 to 99999999 / 0 / 1 ]
007				
8-617-	SDK Apli Counter	SDK-8	CTL*	[ 0 to 99999999 / 0 / 1 ]
008				
8-617-	SDK Apli Counter	SDK-9	CTL*	[ 0 to 99999999 / 0 / 1 ]
009	GDW A 11 G	GDW 10	CETY th	F.O
8-617-	SDK Apli Counter	SDK-10	CTL*	[ 0 to 99999999 / 0 / 1 ]
010	CDV Aul: Country	CDV 11	CTL*	F 0.4- 00000000 / 0. / 1.1
8-617- 011	SDK Apli Counter	SDK-11	CIL	[ 0 to 99999999 / 0 / 1 ]
8-617-	SDK Apli Counter	SDK-12	CTL*	[ 0 to 99999999 / 0 / 1 ]
012	SDR Apri Counter	SDK-12	CIL	[0 10 999999997 07 1]
8-621-	Func Use Counter	Function-001	CTL*	[ 0 to 99999999 / 0 / 1 ]
001	Tane ose counter		CIE	
8-621-	Func Use Counter	Function-002	CTL*	[ 0 to 99999999 / 0 / 1 ]
002				
8-621-	Func Use Counter	Function-003	CTL*	[ 0 to 99999999 / 0 / 1 ]
003				
8-621-	Func Use Counter	Function-004	CTL*	[ 0 to 99999999 / 0 / 1 ]
004				
8-621-	Func Use Counter	Function-005	CTL*	[ 0 to 99999999 / 0 / 1 ]
005				
8-621-	Func Use Counter	Function-006	CTL*	[ 0 to 99999999 / 0 / 1 ]
006				
8-621-	Func Use Counter	Function-007	CTL*	[ 0 to 99999999 / 0 / 1 ]
007				
8-621-	Func Use Counter	Function-008	CTL*	[ 0 to 99999999 / 0 / 1 ]

008				
8-621- 009	Func Use Counter	Function-009	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-621- 010	Func Use Counter	Function-010	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-621- 011	Func Use Counter	Function-011	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-621- 012	Func Use Counter	Function-012	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-621- 013	Func Use Counter	Function-013	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-621- 014	Func Use Counter	Function-014	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-621- 015	Func Use Counter	Function-015	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-621- 016	Func Use Counter	Function-016	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-621- 017	Func Use Counter	Function-017	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-621- 018	Func Use Counter	Function-018	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-621- 019	Func Use Counter	Function-019	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-621- 020	Func Use Counter	Function-020	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-621- 021	Func Use Counter	Function-021	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-621- 022	Func Use Counter	Function-022	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-621- 023	Func Use Counter	Function-023	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-621- 024	Func Use Counter	Function-024	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-621- 025	Func Use Counter	Function-025	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-621- 026	Func Use Counter	Function-026	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-621-	Func Use Counter	Function-027	CTL*	[ 0 to 99999999 / 0 / 1 ]

027				
8-621-	Func Use Counter	Function-028	CTL*	[ 0 to 99999999 / 0 / 1 ]
028				
8-621-	Func Use Counter	Function-029	CTL*	[ 0 to 99999999 / 0 / 1 ]
029				
8-621-	Func Use Counter	Function-030	CTL*	[ 0 to 99999999 / 0 / 1 ]
030				
8-621-	Func Use Counter	Function-031	CTL*	[ 0 to 99999999 / 0 / 1 ]
031				
8-621-	Func Use Counter	Function-032	CTL*	[ 0 to 99999999 / 0 / 1 ]
032				
8-621-	Func Use Counter	Function-033	CTL*	[ 0 to 99999999 / 0 / 1 ]
033				
8-621-	Func Use Counter	Function-034	CTL*	[ 0 to 99999999 / 0 / 1 ]
034				
8-621-	Func Use Counter	Function-035	CTL*	[ 0 to 99999999 / 0 / 1 ]
035		F 026	CITY II	F.O
8-621-	Func Use Counter	Function-036	CTL*	[ 0 to 99999999 / 0 / 1 ]
036	Francisco Company	E	CTI *	[ 0 t- 0000000 / 0 / 1 ]
8-621- 037	Func Use Counter	Function-037	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-621-	Func Use Counter	Function-038	CTL*	[ 0 to 99999999 / 0 / 1 ]
038	Tune Ose Counter	Tunction-038	CIL	[010 999999997071]
8-621-	Func Use Counter	Function-039	CTL*	[ 0 to 99999999 / 0 / 1 ]
039	Tane ose counter	Tunetion 039	CIE	[0.0099999997071]
8-621-	Func Use Counter	Function-040	CTL*	[ 0 to 99999999 / 0 / 1 ]
040				
8-621-	Func Use Counter	Function-041	CTL*	[ 0 to 99999999 / 0 / 1 ]
041				
8-621-	Func Use Counter	Function-042	CTL*	[ 0 to 99999999 / 0 / 1 ]
042				
8-621-	Func Use Counter	Function-043	CTL*	[ 0 to 99999999 / 0 / 1 ]
043				
8-621-	Func Use Counter	Function-044	CTL*	[ 0 to 99999999 / 0 / 1 ]
044				
8-621-	Func Use Counter	Function-045	CTL*	[ 0 to 99999999 / 0 / 1 ]
045				
8-621-	Func Use Counter	Function-046	CTL*	[ 0 to 99999999 / 0 / 1 ]

046				
8-621- 047	Func Use Counter	Function-047	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-621- 048	Func Use Counter	Function-048	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-621- 049	Func Use Counter	Function-049	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-621- 050	Func Use Counter	Function-050	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-621- 051	Func Use Counter	Function-051	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-621- 052	Func Use Counter	Function-052	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-621- 053	Func Use Counter	Function-053	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-621- 054	Func Use Counter	Function-054	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-621- 055	Func Use Counter	Function-055	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-621- 056	Func Use Counter	Function-056	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-621- 057	Func Use Counter	Function-057	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-621- 058	Func Use Counter	Function-058	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-621- 059	Func Use Counter	Function-059	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-621- 060	Func Use Counter	Function-060	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-621- 061	Func Use Counter	Function-061	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-621- 062	Func Use Counter	Function-062	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-621- 063	Func Use Counter	Function-063	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-621- 064	Func Use Counter	Function-064	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-631-	T:FAX TX PGS	B/W(Tel)	CTL*	[ 0 to 99999999 / 0 / 1 ]

001				
8-631-	T:FAX TX PGS	Color(Tel)	CTL*	[ 0 to 99999999 / 0 / 1 ]
002				
8-631-	T:FAX TX PGS	B/W(Cloud)	CTL*	[ 0 to 99999999 / 0 / 1 ]
101				
8-631-	T:FAX TX PGS	Color(Cloud)	CTL*	[ 0 to 99999999 / 0 / 1 ]
102				
8-633-	F:FAX TX PGS	B/W(Tel)	CTL*	[ 0 to 99999999 / 0 / 1 ]
001				
8-633-	F:FAX TX PGS	Color(Tel)	CTL*	[ 0 to 99999999 / 0 / 1 ]
002				
8-633-	F:FAX TX PGS	B/W(Cloud)	CTL*	[ 0 to 99999999 / 0 / 1 ]
101				
8-633-	F:FAX TX PGS	Color(Cloud)	CTL*	[ 0 to 99999999 / 0 / 1 ]
102				
8-641-	T:IFAX TX PGS	B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]
001				
8-641-	T:IFAX TX PGS	Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
002				
8-643-	F:IFAX TX PGS	B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]
001				
8-643-	F:IFAX TX PGS	Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
002				
8-651-	T:S-to-Email PGS	B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]
001				500000000000000000000000000000000000
8-651-	T:S-to-Email PGS	Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
002	G.G. F. H.D.G.	D.MY	CITY II	5000000000./0./13
8-655-	S:S-to-Email PGS	B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]
001	C.C. F. T.D.C.C	0.1	CTT *	F 0 4 00000000 / 0 / 1 3
8-655-	S:S-to-Email PGS	Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
002	T.D.1: DCG/G	D/W	CTI *	F 0 4 20000000 / 0 / 1 3
8-661-	T:Deliv PGS/Svr	B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-661-	T.Doliv. DCC/C	Color	CTL*	[ 0 to 0000000 / 0 / 1 ]
002	T:Deliv PGS/Svr	Color	CIL	[ 0 to 99999999 / 0 / 1 ]
8-665-	S:Deliv PGS/Svr	B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-665- 001	S.Deliv POS/SVI	D/ VV	CIL	[ 0 10 7777777 0 / 1 ]
8-665-	S:Deliv PGS/Svr	Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
0-003-	3.Deliv FUS/3VI	COIOI	CIL.	[ U 10 22777777   U / I ]

002				
8-671-	T:Deliv PGS/PC	B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]
001				
8-671-	T:Deliv PGS/PC	Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
002				
8-675-	S:Deliv PGS/PC	B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]
001				
8-675-	S:Deliv PGS/PC	Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
002				
8-681-	T:PCFAX TXPGS		CTL*	[ 0 to 99999999 / 0 / 1 ]
001				
8-683-	F:PCFAX TXPGS		CTL*	[ 0 to 99999999 / 0 / 1 ]
001				
8-691-	T:TX PGS/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
001				
8-692-	C:TX PGS/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
001				
8-693-	F:TX PGS/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
001				
8-694-	P:TX PGS/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
001				
8-695-	S:TX PGS/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
001				
8-696-	L:TX PGS/LS		CTL*	[ 0 to 99999999 / 0 / 1 ]
001				
8-701-	TX PGS/Port	PSTN-1	CTL*	[ 0 to 99999999 / 0 / 1 ]
001	TV D CG /D	DOTT LA	CITY II	5000000000./0./17
8-701-	TX PGS/Port	PSTN-2	CTL*	[ 0 to 99999999 / 0 / 1 ]
002	TV DCC/D	DOTAL 2	CTI *	F.O. (1, 00000000 / 0 / 1 1
8-701- 003	TX PGS/Port	PSTN-3	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-701-	TX PGS/Port	ISDN(G3,G4)	CTL*	[ 0 to 99999999 / 0 / 1 ]
004	TA FOS/FOIL	13DN(03,04)	CIL	[0 to 99999999 / 0 / 1 ]
8-701-	TX PGS/Port	Network	CTL*	[ 0 to 99999999 / 0 / 1 ]
005	TATOS/TUIL	INCLWOIN	CIL	
8-711-	T:Scan PGS/Comp	JPEG/JPEG2000	CTL*	[ 0 to 99999999 / 0 / 1 ]
001	1.5can 1 G5/Comp	31 EO/31 EO2000	CIL	
8-711-	T:Scan PGS/Comp	TIFF(Multi/Single)	CTL*	[ 0 to 99999999 / 0 / 1 ]
J / 11-	1.50mi i G5/Comp	1111 (1110101/0111610)	U111	[ [ 0 (0 ))))))) [ 0 [ 1 ]

002				
8-711-	T:Scan PGS/Comp	PDF	CTL*	[ 0 to 99999999 / 0 / 1 ]
003				
8-711-	T:Scan PGS/Comp	Other	CTL*	[ 0 to 99999999 / 0 / 1 ]
004				
8-711-	T:Scan PGS/Comp	PDF/Comp	CTL*	[ 0 to 99999999 / 0 / 1 ]
005				
8-711-	T:Scan PGS/Comp	PDF/A	CTL*	[ 0 to 99999999 / 0 / 1 ]
006				
8-711-	T:Scan PGS/Comp	PDF(OCR)	CTL*	[ 0 to 99999999 / 0 / 1 ]
007				
8-711-	T:Scan PGS/Comp	PDF/Comp(OCR)	CTL*	[ 0 to 99999999 / 0 / 1 ]
008				
8-711-	T:Scan PGS/Comp	PDF/A(OCR)	CTL*	[ 0 to 99999999 / 0 / 1 ]
009				
8-715-	S:Scan PGS/Comp	JPEG/JPEG2000	CTL*	[ 0 to 99999999 / 0 / 1 ]
001				
8-715-	S:Scan PGS/Comp	TIFF(Multi/Single)	CTL*	[ 0 to 99999999 / 0 / 1 ]
002				
8-715-	S:Scan PGS/Comp	PDF	CTL*	[ 0 to 99999999 / 0 / 1 ]
003	a a page	0.1	CTDL *	F.O
8-715-	S:Scan PGS/Comp	Other	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-715-	S.S.con DCS/Comm	DDE/Comp	CTL*	[ 0 to 99999999 / 0 / 1 ]
005	S:Scan PGS/Comp	PDF/Comp	CIL	[ 0 to 99999999 / 0 / 1 ]
8-715-	S:Scan PGS/Comp	PDF/A	CTL*	[ 0 to 99999999 / 0 / 1 ]
006	S.Scan 1 GS/Comp		CIL	
8-715-	S:Scan PGS/Comp	PDF(OCR)	CTL*	[ 0 to 99999999 / 0 / 1 ]
007	S.Sum T GS/ Comp			
8-715-	S:Scan PGS/Comp	PDF/Comp(OCR)	CTL*	[ 0 to 99999999 / 0 / 1 ]
008	r	r ( /		
8-715-	S:Scan PGS/Comp	PDF/A(OCR)	CTL*	[ 0 to 99999999 / 0 / 1 ]
009				
8-721-	T:Deliv	B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]
001	PGS/WSD/DSM			
8-721-	T:Deliv	Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
002	PGS/WSD/DSM			
8-725-	S:Deliv	B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]

001	PGS/WSD/DSM			
8-725-	S:Deliv	Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
002	PGS/WSD/DSM			
8-731-	T:Scan PGS/Media	B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]
001				
8-731-	T:Scan PGS/Media	Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
002				
8-735-	S:Scan PGS/Media	B/W	CTL*	[ 0 to 99999999 / 0 / 1 ]
001				
8-735-	S:Scan PGS/Media	Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
002				
8-741-	RX PGS/Port	PSTN-1	CTL*	[ 0 to 99999999 / 0 / 1 ]
001				
8-741-	RX PGS/Port	PSTN-2	CTL*	[ 0 to 99999999 / 0 / 1 ]
002				
8-741-	RX PGS/Port	PSTN-3	CTL*	[ 0 to 99999999 / 0 / 1 ]
003				
8-741-	RX PGS/Port	ISDN(G3,G4)	CTL*	[ 0 to 99999999 / 0 / 1 ]
004				
8-741-	RX PGS/Port	Network	CTL*	[ 0 to 99999999 / 0 / 1 ]
005	D. C. I	m / 1	CTI *	F 0 4 00000000 / 0 / 1 7
8-771-	Dev Counter	Total	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-771-	Dev Counter	K	CTL*	[ 0 to 00000000 / 0 / 1 ]
002	Dev Counter	K	CIL	[ 0 to 99999999 / 0 / 1 ]
8-771-	Dev Counter	Y	CTL*	[ 0 to 99999999 / 0 / 1 ]
003	Dev Counter		CIL	
8-771-	Dev Counter	M	CTL*	[ 0 to 99999999 / 0 / 1 ]
004	Dev Counter	111	CIE	[0.00 33333337 07 1]
8-771-	Dev Counter	С	CTL*	[ 0 to 99999999 / 0 / 1 ]
005				[ • • • • • • • • • • • • • • • • • • •
8-781-	Toner_Botol_Info.	BK	CTL*	[ 0 to 99999999 / 0 / 1 ]
001				
8-781-	Toner_Botol_Info.	Y	CTL*	[ 0 to 99999999 / 0 / 1 ]
002				
8-781-	Toner_Botol_Info.	M	CTL*	[ 0 to 99999999 / 0 / 1 ]
003				
8-781-	Toner_Botol_Info.	С	CTL*	[ 0 to 99999999 / 0 / 1 ]

004				
8-791-	LS Memory Remain		CTL*	[ 0 to 100 / 0 / 1% ]
001				
8-801-	Toner Remain	K	CTL*	[ 0 to 100 / 0 / 1% ]
001				
8-801-	Toner Remain	Y	CTL*	[ 0 to 100 / 0 / 1% ]
002				
8-801-	Toner Remain	M	CTL*	[ 0 to 100 / 0 / 1% ]
003				
8-801-	Toner Remain	C	CTL*	[ 0 to 100 / 0 / 1% ]
004				
8-811-	Eco Counter	Eco Total	CTL*	[ 0 to 99999999 / 0 / 1 ]
001				
8-811-	Eco Counter	Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
002				
8-811-	Eco Counter	Full Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
003				
8-811-	Eco Counter	Duplex	CTL*	[ 0 to 99999999 / 0 / 1 ]
004	F. G.	0.11	GTTL th	5000000000./0./13
8-811-	Eco Counter	Combine	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-811-	Ess Counter	C-1(0/)	CTL*	F 0.4- 100 / 0 / 10/ 1
006	Eco Counter	Color(%)	CIL	[ 0 to 100 / 0 / 1% ]
8-811-	Eco Counter	Full Color(%)	CTL*	[ 0 to 100 / 0 / 1% ]
007	Leo Counter	Tun Coloi(70)	CIL	
8-811-	Eco Counter	Duplex(%)	CTL*	[ 0 to 100 / 0 / 1% ]
008			012	
8-811-	Eco Counter	Combine(%)	CTL*	[ 0 to 100 / 0 / 1% ]
009				
8-811-	Eco Counter	Paper Cut(%)	CTL*	[ 0 to 100 / 0 / 1% ]
010				
8-811-	Eco Counter	Sync Eco Total	CTL*	[ 0 to 99999999 / 0 / 1 ]
051				
8-811-	Eco Counter	Sync Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
052				
8-811-	Eco Counter	Sync Full Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
053				
8-811-	Eco Counter	Sync Duplex	CTL*	[ 0 to 99999999 / 0 / 1 ]

054				
8-811-	Eco Counter	Sync Combine	CTL*	[ 0 to 99999999 / 0 / 1 ]
055				
8-811-	Eco Counter	Sync Color(%)	CTL*	[ 0 to 100 / 0 / 1% ]
056				
8-811-	Eco Counter	Sync Full Color(%)	CTL*	[ 0 to 100 / 0 / 1% ]
057				
8-811-	Eco Counter	Sync Duplex(%)	CTL*	[ 0 to 100 / 0 / 1% ]
058				
8-811-	Eco Counter	Sync Combine(%)	CTL*	[ 0 to 100 / 0 / 1% ]
059				
8-811-	Eco Counter	Sync Paper Cut(%)	CTL*	[ 0 to 100 / 0 / 1% ]
060				
8-811-	Eco Counter	Eco Totalr:Last	CTL*	[ 0 to 99999999 / 0 / 1 ]
101				
8-811-	Eco Counter	Color:Last	CTL*	[ 0 to 99999999 / 0 / 1 ]
102				
8-811-	Eco Counter	Full Color:Last	CTL*	[ 0 to 99999999 / 0 / 1 ]
103				
8-811-	Eco Counter	Duplex:Last	CTL*	[ 0 to 99999999 / 0 / 1 ]
104				
8-811-	Eco Counter	Combine:Last	CTL*	[ 0 to 99999999 / 0 / 1 ]
105				
8-811-	Eco Counter	Color(%):Last	CTL*	[ 0 to 100 / 0 / 1% ]
106				
8-811-	Eco Counter	Full Color(%):Last	CTL*	[ 0 to 100 / 0 / 1% ]
107				
8-811-	Eco Counter	Duplex(%):Last	CTL*	[ 0 to 100 / 0 / 1% ]
108		2 11 (2) -		
8-811-	Eco Counter	Combine(%):Last	CTL*	[ 0 to 100 / 0 / 1% ]
109	F. C.	D C (0/) I	CITE *	F.O. 100 / 0 / 10/ 3
8-811-	Eco Counter	Paper Cut(%):Last	CTL*	[ 0 to 100 / 0 / 1% ]
110	E. C. t	G F T . l . l	CTI *	F.A., 00000000 / 0 / 1 3
8-811-	Eco Counter	Sync Eco Totalr:Last	CTL*	[ 0 to 99999999 / 0 / 1 ]
151	F. C. 1	G C.1. I	CTI *	F.A., 00000000 / 0 / 1 3
8-811-	Eco Counter	Sync Color:Last	CTL*	[ 0 to 99999999 / 0 / 1 ]
152	F. C. 1	G F 11 G 1 . 1	CTI *	F.A., 00000000 / 0 / 1 3
8-811-	Eco Counter	Sync Full Color:Last	CTL*	[ 0 to 99999999 / 0 / 1 ]

153				
8-811-	Eco Counter	Sync Duplex:Last	CTL*	[ 0 to 99999999 / 0 / 1 ]
154				
8-811-	Eco Counter	Sync Combine:Last	CTL*	[ 0 to 99999999 / 0 / 1 ]
155				
8-811-	Eco Counter	Sync Color(%):Last	CTL*	[ 0 to 100 / 0 / 1% ]
156				
8-811-	Eco Counter	Sync Full Color(%):Last	CTL*	[ 0 to 100 / 0 / 1% ]
157				
8-811-	Eco Counter	Sync Duplex(%):Last	CTL*	[ 0 to 100 / 0 / 1% ]
158				
8-811-	Eco Counter	Sync Combine(%):Last	CTL*	[ 0 to 100 / 0 / 1% ]
159				
8-811-	Eco Counter	Sync Paper Cut(%):Last	CTL*	[ 0 to 100 / 0 / 1% ]
160				
8-851-	Cvr Cnt:0-10%	0~2%:BK	CTL*	[ 0 to 99999999 / 0 / 1 ]
011				
8-851-	Cvr Cnt:0-10%	0~2%:Y	CTL*	[ 0 to 99999999 / 0 / 1 ]
012				
8-851-	Cvr Cnt:0-10%	0~2%:M	CTL*	[ 0 to 99999999 / 0 / 1 ]
013	S S	2 22/ 2		5000000000/0/43
8-851-	Cvr Cnt:0-10%	0~2%:C	CTL*	[ 0 to 99999999 / 0 / 1 ]
014	G G ( 0.100/	2 40/ DV	OTI *	F 0 4 00000000 / 0 / 1 3
8-851- 021	Cvr Cnt:0-10%	3~4%:BK	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-851-	Cvr Cnt:0-10%	3~4%:Y	CTL*	[ 0 to 99999999 / 0 / 1 ]
022	CVI CIII.0-1076	3~470. I	CIL	[01099999997071]
8-851-	Cvr Cnt:0-10%	3~4%:M	CTL*	[ 0 to 99999999 / 0 / 1 ]
023	C11 CIII.U-10/0	J 7/0.111		
8-851-	Cvr Cnt:0-10%	3~4%:C	CTL*	[ 0 to 99999999 / 0 / 1 ]
024	2 2 2			
8-851-	Cvr Cnt:0-10%	5~7%:BK	CTL*	[ 0 to 99999999 / 0 / 1 ]
031				
8-851-	Cvr Cnt:0-10%	5~7%:Y	CTL*	[ 0 to 99999999 / 0 / 1 ]
032				
8-851-	Cvr Cnt:0-10%	5~7%:M	CTL*	[ 0 to 99999999 / 0 / 1 ]
033				
		İ	İ	†

034				
8-851-	Cvr Cnt:0-10%	8~10%:BK	CTL*	[ 0 to 99999999 / 0 / 1 ]
041				
8-851-	Cvr Cnt:0-10%	8~10%:Y	CTL*	[ 0 to 99999999 / 0 / 1 ]
042				
8-851-	Cvr Cnt:0-10%	8~10%:M	CTL*	[ 0 to 99999999 / 0 / 1 ]
043				
8-851-	Cvr Cnt:0-10%	8~10%:C	CTL*	[ 0 to 99999999 / 0 / 1 ]
044				
8-861-	Cvr Cnt:11-20%	BK	CTL*	[ 0 to 99999999 / 0 / 1 ]
001				
8-861-	Cvr Cnt:11-20%	Y	CTL*	[ 0 to 99999999 / 0 / 1 ]
002				
8-861-	Cvr Cnt:11-20%	M	CTL*	[ 0 to 99999999 / 0 / 1 ]
003				
8-861-	Cvr Cnt:11-20%	С	CTL*	[ 0 to 99999999 / 0 / 1 ]
004				
8-871-	Cvr Cnt:21-30%	BK	CTL*	[ 0 to 99999999 / 0 / 1 ]
001				
8-871-	Cvr Cnt:21-30%	Y	CTL*	[ 0 to 99999999 / 0 / 1 ]
002	G - G-4 21 200/	M	OTI *	F.O. (
8-871- 003	Cvr Cnt:21-30%	M	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-871-	Cvr Cnt:21-30%	С	CTL*	[ 0 to 99999999 / 0 / 1 ]
004	CVI CIII.21-30/0	C	CIL	[0 to 99999999 / 0 / 1 ]
8-881-	Cvr Cnt:31%-	BK	CTL*	[ 0 to 99999999 / 0 / 1 ]
001	CVI CIII.5170	DK .	CIL	
8-881-	Cvr Cnt:31%-	Y	CTL*	[ 0 to 99999999 / 0 / 1 ]
002	/ •			[
8-881-	Cvr Cnt:31%-	M	CTL*	[ 0 to 99999999 / 0 / 1 ]
003				
8-881-	Cvr Cnt:31%-	С	CTL*	[ 0 to 99999999 / 0 / 1 ]
004				
8-891-	Page/Toner Bottle	BK	CTL*	[ 0 to 99999999 / 0 / 1 ]
001				
8-891-	Page/Toner Bottle	Y	CTL*	[ 0 to 99999999 / 0 / 1 ]
002				
8-891-	Page/Toner Bottle	M	CTL*	[ 0 to 99999999 / 0 / 1 ]

003				
8-891-	Page/Toner Bottle	С	CTL*	[ 0 to 99999999 / 0 / 1 ]
004				
8-901-	Page/Toner_Prev1	BK	CTL*	[ 0 to 99999999 / 0 / 1 ]
001				
8-901-	Page/Toner_Prev1	Y	CTL*	[ 0 to 99999999 / 0 / 1 ]
002				
8-901-	Page/Toner_Prev1	M	CTL*	[ 0 to 99999999 / 0 / 1 ]
003				
8-901-	Page/Toner_Prev1	C	CTL*	[ 0 to 99999999 / 0 / 1 ]
004				
8-911-	Page/Toner_Prev2	BK	CTL*	[ 0 to 99999999 / 0 / 1 ]
001				
8-911-	Page/Toner_Prev2	Y	CTL*	[ 0 to 99999999 / 0 / 1 ]
002				
8-911-	Page/Toner_Prev2	M	CTL*	[ 0 to 99999999 / 0 / 1 ]
003				
8-911-	Page/Toner_Prev2	C	CTL*	[ 0 to 99999999 / 0 / 1 ]
004				
8-921-	Cvr Cnt/Total	Coverage(%):BK	CTL*	[ 0 to 2147483647 / 0 /
001				1% ]
8-921-	Cvr Cnt/Total	Coverage(%):Y	CTL*	[ 0 to 2147483647 / 0 /
002				1% ]
8-921-	Cvr Cnt/Total	Coverage(%):M	CTL*	[ 0 to 2147483647 / 0 /
003				1%]
8-921-	Cvr Cnt/Total	Coverage(%):C	CTL*	[ 0 to 2147483647 / 0 /
004				1% ]
8-921-	Cvr Cnt/Total	Coverage/P:BK	CTL*	[ 0 to 99999999 / 0 / 1 ]
011				
8-921-	Cvr Cnt/Total	Coverage/P:Y	CTL*	[ 0 to 99999999 / 0 / 1 ]
012				
8-921-	Cvr Cnt/Total	Coverage/P:M	CTL*	[ 0 to 99999999 / 0 / 1 ]
013	G G (T i		·	
8-921-	Cvr Cnt/Total	Coverage/P:C	CTL*	[ 0 to 99999999 / 0 / 1 ]
014				
8-941-	Machine Status	Operation Time	CTL*	[ 0 to 99999999 / 0 / 1 ]
001	N. 1: - 2	g. H 57		F.O 00000000 15 11 5
8-941-	Machine Status	Standby Time	CTL*	[ 0 to 99999999 / 0 / 1 ]

002				
8-941-	Machine Status	Energy Save Time	CTL*	[ 0 to 99999999 / 0 / 1 ]
003				
8-941-	Machine Status	Low Power Time	CTL*	[ 0 to 99999999 / 0 / 1 ]
004				
8-941-	Machine Status	Off Mode Time	CTL*	[ 0 to 99999999 / 0 / 1 ]
005				
8-941-	Machine Status	SC	CTL*	[ 0 to 99999999 / 0 / 1 ]
006				
8-941-	Machine Status	PrtJam	CTL*	[ 0 to 99999999 / 0 / 1 ]
007				
8-941-	Machine Status	OrgJam	CTL*	[ 0 to 99999999 / 0 / 1 ]
008				
8-941-	Machine Status	Supply PM Unit End	CTL*	[ 0 to 99999999 / 0 / 1 ]
009				
8-951-	AddBook Register	User Code /User ID	CTL*	[ 0 to 99999 / 0 / 1 ]
001				
8-951-	AddBook Register	Mail Address	CTL*	[ 0 to 99999 / 0 / 1 ]
002				
8-951-	AddBook Register	Fax Destination	CTL*	[ 0 to 99999 / 0 / 1 ]
003	A LID of Doctor	Constant	CTI *	F.O. (1. 00000 / O. / 1. 1.
8-951- 004	AddBook Register	Group	CTL*	[ 0 to 99999 / 0 / 1 ]
8-951-	AddBook Register	Transfer Request	CTL*	[ 0 to 99999 / 0 / 1 ]
005	Addbook Register	Transfer Request	CIL	[0 to 333337 0 / 1]
8-951-	AddBook Register	F-Code	CTL*	[ 0 to 99999 / 0 / 1 ]
006	riddbook register	1 Code	CIE	
8-951-	AddBook Register	Copy Program	CTL*	[ 0 to 255 / 0 / 1 ]
007	6-000			[ ]
8-951-	AddBook Register	Fax Program	CTL*	[ 0 to 255 / 0 / 1 ]
008				
8-951-	AddBook Register	Printer Program	CTL*	[ 0 to 255 / 0 / 1 ]
009				
8-951-	AddBook Register	Scanner Program	CTL*	[ 0 to 255 / 0 / 1 ]
010				
8-961-	Electricity Status	Ctrl Standby Time	CTL*	[ 0 to 99999999 / 0 / 1 ]
001				
8-961-	Electricity Status	STR Time	CTL*	[ 0 to 99999999 / 0 / 1 ]

002				
8-961-	Electricity Status	Main Power Off Time	CTL*	[ 0 to 99999999 / 0 / 1 ]
003				
8-961-	Electricity Status	Reading and Printing Time	CTL*	[ 0 to 99999999 / 0 / 1 ]
004				
8-961-	Electricity Status	Printing Time	CTL*	[ 0 to 99999999 / 0 / 1 ]
005				
8-961-	Electricity Status	Reading Time	CTL*	[ 0 to 99999999 / 0 / 1 ]
006				
8-961-	Electricity Status	Eng Waiting Time	CTL*	[ 0 to 99999999 / 0 / 1 ]
007				
8-961-	Electricity Status	Low Pawer State Time	CTL*	[ 0 to 99999999 / 0 / 1 ]
008				
8-961-	Electricity Status	Silent State Time	CTL*	[ 0 to 99999999 / 0 / 1 ]
009				
8-961-	Electricity Status	Heater Off State Time	CTL*	[ 0 to 99999999 / 0 / 1 ]
010				
8-961-	Electricity Status	LCD on Time	CTL*	[ 0 to 99999999 / 0 / 1 ]
011	The state of the	an . D	CITY II	F.O 00000000 / 0 / 1 7
8-961-	Electricity Status	Silent Print	CTL*	[ 0 to 99999999 / 0 / 1 ]
101	П. С 1	E : OMB C .	CTI *	F 0 4 00000000 / 0 / 1 3
8-971- 001	Unit Control	Engine Off Recovery Count	CTL*	[ 0 to 99999999 / 0 / 1 ]
8-971-	Unit Control	Power Off Count	CTL*	[ 0 to 99999999 / 0 / 1 ]
002	Unit Control	Power Off Count	CIL	[ 0 10 99999999 / 0 / 1 ]
8-971-	Unit Control	Force Power Off Count	CTL*	[ 0 to 99999999 / 0 / 1 ]
003	Cint Control	Torce Tower On Count	CIL	
8-999-	Admin. Counter List	Total	CTL*	[ 0 to 99999999 / 0 / 1 ]
001	Trainin. Counter Else	Total	CIE	
8-999-	Admin. Counter List	Copy: Full Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
002				
8-999-	Admin. Counter List	Copy: BW	CTL*	[ 0 to 99999999 / 0 / 1 ]
003				
8-999-	Admin. Counter List	Copy: Single Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
004				
8-999-	Admin. Counter List	Copy: Two Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
005				
8-999-	Admin. Counter List	Printer: Full Color	CTL*	[ 0 to 99999999 / 0 / 1 ]

006				
8-999-	Admin. Counter List	Printer: BW	CTL*	[ 0 to 99999999 / 0 / 1 ]
007				
8-999-	Admin. Counter List	Printer: Single Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
008				
8-999-	Admin. Counter List	Printer: Two Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
009				
8-999-	Admin. Counter List	Fax Print: BW	CTL*	[ 0 to 99999999 / 0 / 1 ]
010				
8-999-	Admin. Counter List	Fax Print: Single Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
011				
8-999-	Admin. Counter List	Duplex	CTL*	[ 0 to 99999999 / 0 / 1 ]
013				
8-999-	Admin. Counter List	Copy: Full Color(%)	CTL*	[ 0 to 2147483647 / 0 / 1 ]
022				
8-999-	Admin. Counter List	Copy: BW(%)	CTL*	[ 0 to 2147483647 / 0 / 1 ]
023				
8-999-	Admin. Counter List	Copy: Single Color(%)	CTL*	[ 0 to 2147483647 / 0 / 1 ]
024				
8-999-	Admin. Counter List	Copy: Two Color(%)	CTL*	[ 0 to 2147483647 / 0 / 1 ]
025				
8-999-	Admin. Counter List	Printer: Full Color(%)	CTL*	[ 0 to 2147483647 / 0 / 1 ]
026				
8-999-	Admin. Counter List	Printer: BW(%)	CTL*	[ 0 to 2147483647 / 0 / 1 ]
027		D:	CITY II	50. 014540264540417
8-999-	Admin. Counter List	Printer: Single Color(%)	CTL*	[ 0 to 2147483647 / 0 / 1 ]
028	A locio Constantint	D: 4 - T - C-1 - (0/)	CTI *	F 0 4 21 47 49 2 6 47 / 0 / 1 1
8-999-	Admin. Counter List	Printer: Two Color(%)	CTL*	[ 0 to 2147483647 / 0 / 1 ]
029	Admin Country List	For Drint: DW/0/)	CTI *	[ 0 to 2147492647 / 0 / 1 ]
8-999- 030	Admin. Counter List	Fax Print: BW(%)	CTL*	[ 0 to 2147483647 / 0 / 1 ]
8-999-	Admin. Counter List	Fax Print: Single Color(%)	CTL*	[ 0 to 2147483647 / 0 / 1 ]
031	Zamin. Counter List	1 ax 1 mit. Single Colon (/0)	CIL	[0 10 214/40304//0/1]
8-999-	Admin. Counter List	Transmission Total: Color	CTL*	[ 0 to 99999999 / 0 / 1 ]
101	Admin. Counter List	Transmission Total. Color	CIL	[0 (0 ))))))) [0 1]
8-999-	Admin. Counter List	Transmission Total: BW	CTL*	[ 0 to 99999999 / 0 / 1 ]
102	1 Idillii. Counter List	Tunomioni Tout. DW		[0.00//////////////////////////////////
8-999-	Admin. Counter List	FAX Transmission	CTL*	[ 0 to 99999999 / 0 / 1 ]
5 777 <del>-</del>	ranni. Countel List	17171 1141151111551011	LIL	[ [ 0 10 77777777 0 / 1 ]

#### 3.SP Mode Tables

103				
8-999-	Admin. Counter List	Scanner Transmission:	CTL*	[ 0 to 99999999 / 0 / 1 ]
104		Color		
8-999-	Admin. Counter List	Scanner Transmission: BW	CTL*	[ 0 to 99999999 / 0 / 1 ]
105				

# **Printer Service Mode**

1001		Bit Switch				
001	Bit S	Switch 1	0	1		
	bit	DFU	-	-		
	0					
	bit	Responding with the hostname as the	Model name (PnP name)	Hostname		
	1	sysName				
		This BitSwitch can change the value of the sysNan	me.			
		0 (default): Model name (PnP name) such as "MP	C401SP"			
		1: Host name				
	bit	DFU	-	-		
	2					
	bit	No I/O Timeout	Disabled	Enabled		
	3	Enables/Disables MFP I/O Timeouts. If enabled, the	ne MFP I/O Timeout setting w	ill have no affect.		
		I/O Timeouts will never occur.				
	bit	SD Card Save Mode	Disabled	Enabled		
	4	If this bit switch is enabled, print jobs will be save	d to the GW SD slot and not o	output to paper.		
	bit	[PS and PDF] Paper size error margin	±5pt	±10pt		
	5	When a PS job is printed by using a custom paper	size, the job might not be prin	ted because of a		
		paper size mismatch caused by a calculation error.	By default, the error margin f	for matching to a		
		paper size is $\pm 5$ points. By enabling this BitSwitch	, the error margin for matchin	g to a paper size		
		can be extended to ±10 points.				
	bit	Color balance switching	Disabled	Enabled		
	6	This BitSwitch can be used to restore the color bal-	ance to match that of previous	s models. If this		
		BitSwitch is set to "1" (Enabled), the color balance	e that is equivalent to Fuji-Xer	ox printers will be		
		used.				
	bit	DFU	-	-		
	7					

1001	Bit Switch					
002	Bit S	Switch 2	0	1		
	bit	Color balance switching	Disabled	Enabled		
	This BitSwitch can be used to restore the color balance to match that of previous models. If the					
	BitSwitch is set to "1" (Enabled), the color balance from 09S and earlier models will be used.					
	bit <b>DF</b> U		-	-		
	1					
	bit	DFU	-	-		
	2					

1001		Bit Switch				
	bit	[PCL5e/c.PS]: PDL Auto Switching	Enable	Disable		
	3	Enables/disable the MFPs ability to change the PDL process	ssor mid-job.			
	Some host systems submit jobs that contain both PS and PCL5e/c. If Auto PDL switching is					
		disabled, these jobs will not be printed properly.				
	bit	Disabled	Enabled			
	4 This BitSwitch can be used to restore the color balance to match that of previous models. If this					
		BitSwitch is set to "1" (Enabled), the color balance from 09	9A and Extended 09A	a models will be		
		used.				
	bit	DFU	-	-		
	5					
	bit	DFU	-	-		
	6					
	bit	DFU	-	-		
	7					

1001	Bit Switch				
003	Bit Swite	Bit Switch 3		1	
	bit 0 <b>DFU</b> -		-	-	
	bit 1 DFU		-	-	
	bit 2 [PCL5e/c]: Legacy HP compatibility		Disabled	Enabled	
	Uses the same left margin as older HP models such as HP4000/HP8000.				
		In other words, the left margin defined in the job (usually "	ESC>*r0A") will	be changed to	
	" <esc>*r1A".</esc>				
	bit 3 to	DFU	-	-	
	7				

1001		Bit Switch		
004	Bit Switch 4		0	1
	bit 0 to 7	DFU	-	-

1001		Bit Switch				
005	Bit Switch 5		0	1		
	bit	Show "Collate Type", "Staple Type" and "Punch	Disabled	Enabled		
	0	Type" buttons on the operation panel.				
		If enabled, users will be able to configure a Collate Type, Staple Type, and Punch Type from the				
	operation panel. The available Types will depend on the device and configured options.					
		After enabling this BitSwitch, the settings will appear und	der:			

1001		Bit Switch					
		User Tools > Printer Features > System					
	bit	Multiple copies if a paper size or type mismatch	Disabled (Single	Enabled (Multiple			
	1	occurs	copy)	copy)			
		If a paper size or type mismatch occurs during the printing	g of multiple copies,	only a single copy			
		is output by default. Using this bit switch, the device can be configured to print all copies even if a					
		paper mismatch occurs.					
	bit	Prevent SDK applications from altering the contents	Disabled	Enabled			
	2	of a job.					
		Enable: SDK applications will not be able to alter print da	ata. This is achieved	by preventing SDK			
		applications from accessing a module called the "GPS Fil	ter".				
		<b>Note:</b> The main purpose of this bit switch is for troubleshooting the effects of SDK applications					
		on data.					
	bit	[PS] PS Criteria	Pattern3	Pattern1			
	3	Change the number of PS criterion used by the PS interpe	ereter to determine w	hether a job is PS			
		data or not.					
		Pattern3: The larger the pattern number, the greater the number of criterion used.					
		Pattern1: A small number of PS tags and headers	1				
	bit	Increase max. number of stored jobs.	Disabled (100)	Enabled (750)			
	4	Changes the maximum number of jobs that can be stored	on the HDD. The de	fault (disabled) is			
		100. If this is enabled, the max. will be raised to 750 or 10	000 depending on the	e model.			
	bit	DFU	-	-			
	5						
	bit	Method for determining the image rotation for the	Disabled	Enabled			
	6	edge to bind on.					
		Enable: The image rotation will be performed as they wer	e in the specification	ns of older models			
		for the binding of pages of mixed orientation jobs.					
		The old models are below:					
		- PCL: Pre-04A models					
		- PS/PDF/RPCS: Pre-05S models	I				
	bit	Letterhead mode printing	Disabled	Enabled (Duplex)			
	7	Routes all pages through the duplex unit.					
		If this is disabled, simplex pages or the last page of an ode					
		through the duplex unit. This could result in problems wit	th letterhead/pre-prin	ted pages.			
	Only affects pages specified as Letterhead paper.						

1001	Bit		
006	Bit Switch 6	0	1

1001	Bit Switch				
	bit 0	Forced printing	Disabled	Enabled	
		If enabled, the image will be printed regardless of whether the specified roller is of the correct			
		size paper or not. This is similar to "Form Feed" on a standard printer. The default is disabled.			
	bit 1	DFU	-	-	
	to 7				

1001	Bit Switch			
007	Bit Switch 7		0	1
	bit 0 to 7	DFU	-	-

1001		Bit Switch			
008	Bit Swi	tch 8	0	1	
	bit 0	DFU	-	-	
	to 2				
	bit 3	[PCL.PS]: Allow BW jobs to print without	Disabled	Enabled	
		requiring User Code		(allow BW jobs to print without	
				a user code)	
		BW jobs submitted without a user code will be pr	inted even i	f usercode authentication is	
		enabled.			
		<b>Note:</b> Color jobs will not be printed without a valid user code.			
	bit 4	DFU	-	-	
	to 5				
	bit 6	PCL, RPCS, PS: Forced BW print	Enabled	Disabled	
		Switches whether to ignore PDL color command.			
	bit 7	[PDF]: Orientation Auto Detect Function	Enabled	Disabled	
		Automatically chooses page orientations of PDF j content.	obs (Lands	cape or Portrait) based on the	

1001		Bit Switch				
009	Bit S	Switch 9	0	1		
	bit PDL Auto Detection timeout of jobs submitted		Disabled	Enabled		
	0	via USB or Parallel Port (IEEE 1284).	(Immediately)	(10 seconds)		
		To be used if PDL auto-detection fails. A failure of PDL autodetection does not necessarily mean				
		that the job can not be printed. This bit switch tells the device whether to time-out immediately				
	(default) upon failure or to wait 10 seconds.					
	bit	DFU	-	-		

1001		Bit Switch				
	1					
	bit	Job Cancel	Disabled (Not	Enabled		
	2		cancelled)	(Cancelled)		
		Enable: All jobs will be cancelled after a jam occurs.				
		<b>Note:</b> If this bit switch is enabled, printing under the	following conditions mig	ht result in		
	problems:					
	- Job submission via USB or parallel port					
		- Spool printing (WIM > Configuration > Device Sett	ings > System)			
	bit	DFU	-	-		
	3					
	bit	Timing of the PJL Status ReadBack (JOB END)	Disabled	Enabled		
	4	when printing multiple collated copies.				
		This bit switch determines the timing of the PJL UST.	ATUS JOB END sent wh	en multiple collated		
		copies are being printed.				
		Disable (=0 (default)):				
		JOB END is sent by the device to the client after the f	first copy has completed p	orinting. This		
		causes the page counter to be incremented after the first copy and then again at the end of the job.				
		Enable (=1):				
		JOB END is sent by the device to the client after the l	ast copy has finished prin	nting. This causes		
		the page counter to be incremented at the end of each	job.			

1001		Bit Switch			
009	Bit S	Switch 9	0	1	
	bit	Display UTF-8 text in the operation panel	Enabled	Disabled	
	5	Enable (=0):			
		Text composed of UTF-8 characters can be displayed in the oper	ation panel.		
		Disable (=1):			
	JTF-8 encoded ch	naracters. When			
		these are displayed on the operation panel, they will be garbled u	nless this bit swit	ch is enabled	
		(=0).			
	bit	Disable super option	Disabled	Enabled	
	6 Switches super option disable on / off. It this is On, multiple jobs are grouped at LPR port. PJI				
		settings are enabled even jobs that are specified queue names are	sent.		
	bit	Enable/Disable Print from USB/SD's Preview function	Enabled	Disabled	
	7 Determines whether print from USB/SD will have the Preview function.				
		Enabled (=0): Print from USB/SD will have the Preview function	1.		

1001	Bit Switch		
		Disabled (=1): Print from USB/SD will not have the Preview function.	

1001		Bit Switch				
010	Bit Sw	ritch A	0	1		
	bit 0	DFU	-	-		
	to 3					
	bit 4	Not Used	-	-		
	bit 5	Store and Skip Errored Job locks the queue	Queue is not	Queue locked		
			locked after SSEJ	after SSEJ		
		If this is 1, then after a job is stored using Store and Skip	Errored Job (SSEJ), n	ew jobs cannot		
		etely printed.				
	bit 6	Allow use of Store and Skip Errored Job if connected	Does not allow	Allows SSEJ		
		to an external charge device.	SSEJ with ECD	with ECD		
	If this is 0, Store and Skip Errored Job (SSEJ) will be automatically disabled if an ext					
		charge device is connected.				
	<b>Note:</b> We do not officially support enabling this bit switch (1). Use it at your own					
	bit 7	Job cancels remaining pages when the paid-for pages	Job does not	Job cancels		
		have been printed on an external charge device	cancel			
		When setting 1 is enabled, after printing the paid-for page	s on an external charg	ge device, the job		
		that includes any remaining pages will be canceled.				
		This setting will prevent the next user from printing the un	nnecessary pages from	n the previous		
	user's print job.					

1001		Bit Switch		
011	Bit Switch B		0	1
	bit	Show Menu List	Hide Menu List	Show Menu
	0			List
		If this is 0, the Menu List button will be removed from Pri	nter Features.	
	bit <b>Print job interruption</b> Does not allow Allow		Allow	
			interruption	interruption
	0 (Default): Print jobs are not interrupted. If a job is promoted to the top of the print queue, it wil		orint queue, it will	
		wait for the currently printing job to finish.		
		1: If a job is promoted to the top of the queue, it will intern	rupt the currently print	ting job and start
	printing immediately.			
	bit Switch for enabling or disabling Limitless Paper Enable		Enable	Disable
	2	Feeding for the Bypass Tray		
		When the Bypass Tray is the target of the Auto Tray Selec	t and Any Size/Type is	s configured for

1001		Bit Switch		
		the Tray Setting Priority setting of the Bypass Tray, this Bi	itSwitch can switch th	e behavior
		whether or not Limitless Paper Feeding is applied to the Bypass Tray.* The default is Enabled		
	(=0).			
		*Limitless Paper Feeding will try a matching tray of the next highest priority if a job specified to		
		Auto Tray Select as the tray setting is submitted and the tra	ay runs out of paper.	
		Enabled (=0: Default):		
		Limitless Paper Feeding is applied to the Bypass Tray.		
		If a tray other than the Bypass Tray matches the job's pape	r size and type but ha	s run out of
		paper, printing will occur from the Bypass Tray.		
		Disabled (=1):		
		Limitless Paper Feeding is not applied to the Bypass Tray.		
		If a tray other than the Bypass Tray matches the job's pape	r size and type but ha	s run out of
		paper, printing will stop and an alert will appear on the LCD screen, stating that the tray has run		
	out of paper. This prevents unexpected use of the Bypass Tray.  Limitations when this BitSwitch is set to "1":			
		- The "Paper Tray Priority: Printer" setting must be configured to a tray other than the Bypass Tray.		an the Bypass
		- Jobs that contain more than one paper size cannot be prir	ited.	
bit <b>DFU</b>		DFU	-	-
	3			
	bit	Add "Apply Auto Paper Select" is the condition that	Enabled	Enabled
	4	decides if the device's paper size or paper type should		
		be overwritten.		
		If this BitSwitch is set to "1" (enabled), the "Apply Auto P	aper Select" setting w	ill decide if the
		paper size or paper type that is specified in the device setti	ngs should be overwr	itten by the job's
commands when "Tray Setting Priority" is set to "Driver/Command" or "And a command o		Command" or "Any Ty	pe".	
		given to the job's con	nmands)	
		- Apply Auto Paper Select = ON: Not overwritten (priority	is given to the device	e settings)
	bit	Not Used	-	-
	5 to			
	7			

1001	Bit Switch			
012	Bit Switch C 0 1		1	
	bit 0	DFU	-	-
	bit 1	bit 1 Not Used		-
	to 4			
	bit 5	Change the user ID type displayed on the operation panel	Disabled	Enabled

1001		Bit Switch		
		As of 15S models, the Login User Name can be displayed on the operation panel. The user ID		
		type displayed on the operation panel can be changed by configuring BitSwitch #12-5 as		#12-5 as
		follows:		
	- 0 (Default): Login User Name			
	- 1: User ID. If this is enabled, User ID will be displayed, which is equivalent to the behavior			
	exhibited in 14A and earlier models.			
	bit 6 Ai r Print Enabled Disabled		Disabled	
	For 15S and later models that support AirPrint, AirPrint can be disabled by changing this Bit		ging this Bit	
		Switch from 0 (default) to 1.		
	bit 7	Not Used		

1003	[Clear Setting]	
001	Initialize System	Initializes settings in the System menu of the user mode.
003	Delete Program	DFU

1004	[Print Summary]	
001	Service Summary	Prints the service summary sheet (a summary of all the controller settings).

1005	[Display Version]	
002	Printer Version	Displays the version of the controller firmware.

## RTB 22

1006	[Sample/Locked Print]	
001	0:Link with Doc. Srv 1:Enable -	

1101	[ToneCtlSet]		
001	Tone (Factory)	-	
	Recalls a set of gamma settings. This can be either a) the factory setting, b) the previous setting, or c)		
	the current setting.		

# In the settings | Sets the printing mode (resolution) for the printer gamma adjustment. The asterisk (\*) shows which mode is set. • 00: \*1200x1200Photo • 01: 600x600Text • 02: 1200x1200Text • 03: 1200x600Text • 04: 600x600Photo

	• 05: 1200x600Photo	
	• 06: 600x600Text	
	• 07: 600x600Text	
1102-	Tone Control Mode Selection [0 to 99 / 0 / 1/step]	
001		

1103	[PrnColorSheet]			
1103-	ToneCtlSheet	OneCtlSheet Prints the test page to check the color balance before and after the gamma		
001		adjustment.		
1103-	ColorChart			
002				

1104	[ToneCtlValue]				
	Adjusts the printer gamma for the mode selected in the Mode Selection menu.				
1104-001	Black: Highlight	[0 to 30 / <b>0</b> / 1/step]			
1104-021	Cyan: Highlight				
1104-041	Magenta: Highlight				
1104-061	Yellow: Highlight				
1104-002	Black: Shadow	[0 to 30 / <b>0</b> / 1/step]			
1104-022	Cyan: Shadow				
1104-042	Magenta: Shadow				
1104-062	Yellow: Shadow				
1104-003	Black: Middle	[0 to 30 / <b>0</b> / 1/step]			
1104-023	Cyan: Middle				
1104-043	Magenta: Middle				
1104-063	Yellow: Middle				
1104-004	Black: IDmax	[0 to 30 / <b>0</b> / 1/step]			
1104-024	Cyan: IDmax				
1104-044	Magenta: IDmax				
1104-064	Yellow: IDmax				

1105	[Save Tone Cntrol Value]			
	Saves the print gamma (adjusted with the Gamma Adj.) as the new Current Setting. Before the			
	machine stores the new "current settingR", it moves the data stored as the "current setting" to the			
	"previous setting" memory-storage location.			
1105-	Save Tone Cntrol Value	[EXECUTE]		
001				

#### 3.SP Mode Tables

1106	[Toner Limit]		
	Adjusts the maximum toner amount for image development.		
1106-001	Toner Limit Value	[100 to 400 / <b>0</b> / 1/step]	

1110	[Media Print Device Setting]		
	Enable or disable the media print support function.		
	0: Disable, 1:Enable		
1110-002	0: Disable 1:Enable	[0 to 1 / <b>1</b> / 1/step]	

1111	[All Job Delete Mode]		
	-		
	0: Exclusive New Job, 1:Including New Job		
1110-002	0: Exclusive New Job 1: Including New Job	[0 or 1 / <b>1</b> / 1/step]	

# **Scanner Service Mode**

## SP1-XXX (System and Others)

1001	[Scan Nv Version]			
1-001-	-	*CTL	-	
005	Operates automatic initialization to ensure that scanner NV is initialized if necessary. To do this SP,			
	specify the version of scanner NV within 9 characters.			
	"Function name"_"Machine code"_"Serial number"			
	- Function name: Enter "3".			
	- Machine code: Enter the machine code with three characters.			
	- Serial number: Enter the number (default: 001).			

1005	[Erase margin(Remote scan)]				
1-005-	Range from 0 to 5 mm				
001	Creates an erase margin for all edges of the scanned image.				
	If the machine has scanned the edge of the original, create a margin. This SP is activated only when				
	the machine uses TWAIN scanning.				

1009	[Remote scan disable]		
1-009-001	0:enable 1:desable		
	Enable or disable remote scan.		

1010	[Non Display ClearLight PDF]		
1-010-001	0:Display 1:Nondisplay		
	Display or nondislay ClearLight PDF function.		

1011	[Org Count Disp]		
1-011-001	0:ON 1:OFF		
	Display or nondislay original counter.		
	0: Displays remaining memory.		
	1: Displays original counter.		

1012	[UserInfo Release]					
1-012-001	0:No 1:Yes					
	Set if the following user information is released or not.					
	- Destination of the mail, folder, CS					
	- Sender					
	- Message					

- Subject
- Fail name

1013	[Scan to Media Device Setting]			
1-013-002	0:OFF 1:ON			
	Enable or disable ScanTo media device.			

1014	[Scan to Folder Pass Input Set]					
1-014-001	0:OFF 1:ON					
	Sets enable or disable the password setting when make a Scan to Folder job.					

1040	[Scan: LT/LG Mixed	[Scan: LT/LG Mixed Sized Sizes Setting]			
1-040-001	0:OFF 1:ON	0:OFF 1:ON			
	Enables or disables m	Enables or disables mixing LT/LG size documents for scanner.			
	0: Disable, 1: Enable	0: Disable, 1: Enable Default			
	Default				
	For North America: 1				
	Others: 0				

1041	[Scan:FlairAPI Setting]				
1-	0x00 - 0xff	*CTL	* see BitSwitch below:		
041-	Sets Scanner FlairAP	I Function enab	ole / disable.		
001	This SP is set by BitS	witch and need	s to reboot th	ne machine after making changes.	
bit	Setting	meanings		Description	
		0	1		
bit 0	Start of FlairAPI	Off	On	Sets whether to start exclusive FlairAPI http server.	
	Server	(Do not	(Start)	If it is 0, scanning FlairAPI function and simple UI	
		Start)	function will be disabled.		
bit 1	Access permission	Disabled	Enabled If it is "0", accessing is limited from the machine		
	of FlairAPI from		only, such as operating panel, SDK/J, MFP		
	outside of the		browsers etc If it is "1", accessing is allowed		
	machine		from outside of FlairAPI such as PC, Remote UI,		
			IT-Box etc		
bit 2	IPv6 (Exclusive) /	IPv6	IPv4 If this bit is "0", only IPv6 accessing is permitted.		
	IPv4 (Priority)	(Exclusive)	(Priority) If this bit is "1" and IPv4 is enabled, the machine		
	Switching		uses IPv4 accessing. If this bit is "1" and IPv4 is		
			disabled, the machine uses IPv6 accessing. In this		
				case, it is unable to access through Smart Operation	

				Panel if IPv4 address is enabled.
bit 3	Remote UI	Not Used	Use	Sets use of Remote UI for scanner function.
	Function			
bit 4	Reserved	-	-	-
bit 5	Reserved	-	-	-
bit 6	Reserved	-	-	-
bit 7	Reserved	-	-	-

## SP2-XXX (Scanning-image Quality)

2021	[Compression Level(Grayscale)]					
	Selects the compression ratio for grayscale processing mode (JPEG) for the five settings that can be					
	selected at the operation panel.					
2-021-	Comp1:5-95	*CTL	[5 to 95 / <b>20</b> / 1 /step ]			
001						
2-021-	Comp2:5-95	*CTL	[5 to 95 / <b>40</b> / 1 /step ]			
002						
2-021-	Comp3:5-95	*CTL	[5 to 95 / <b>65</b> / 1 /step ]			
003						
2-021-	Comp4:5-95	*CTL	[5 to 95 / <b>80</b> / 1 /step ]			
004						
2-021-	Comp5:5-95	*CTL	[5 to 95 / <b>95</b> / 1 /step ]			
005						

2024	[Compression ratio of ClearLightPDF]				
	Selects the compression ratio for clearlight PDF for the two settings that can be selected at the				
	operation panel.				
2-024-	Compression Ratio(Normal) *CTL [5 to 95 / 25 / 1 /step]				
001					
2-024-	Compression Ratio(High)	*CTL	[5 to 95 / <b>20</b> / 1 /step ]		
002					

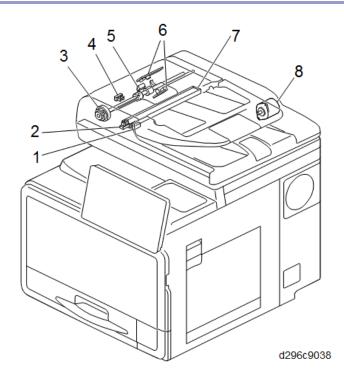
2025	[Compression ratio of ClearLightPDF JPEG2000]			
	Selects the compression ratio for clearlight PDF for the two settings that can be selected at the			
	operation panel.			
2-025-	Compression Ratio(Normal) JPEG2000 *CTL [5 to 95 / 25 / 1 /step]			
001				
2-025-	Compression Ratio(High) JPEG2000	*CTL	[5 to 95 / <b>20</b> / 1 /step ]	
002				

#### 3.SP Mode Tables

2030	[OCR PDF DetectSens]		
2-030-001	White Lumi Value: 0 - 255	*CTL	[0 to 255 / <b>250</b> / 1 / step]
2-030-002	White Pix Ratio: 0 - 100	*CTL	[0 to 100 / <b>80</b> / 1 / step]
2-030-003	White Tile Ratio: 0 -100	*CTL	[0 to 100 / <b>80</b> / 1 / step]

# **Input and Output Check**

## ADF Unit



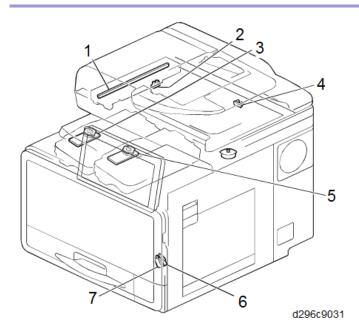
# **Input Check**

No.	Part Name	SP Name	SP No.	Reading	
				0	1
1	Top cover set sensor	Feed Cover Sensor	6-011-	Close	Open
			015		
2	Original set sensor	Original Detection	6-011-	Not set	Set
			009		
4	ADF feed sensor	DF Feed Sensor	6-011-	Paper detected	Paper not detected
			010		
5	ADF registration	Registration	6-011-	Paper detected	Paper not detected
	sensor	Sensor	013		
6	Double-feed sensor	Page Keeper	6-011-	Double feed not	Double feed
		Sensor	024	detected	detected

## **Output check**

No.	Part Name	SP Name	SP No.	Remark
3	ADF feed clutch	Feed Clutch	6-012-014	
7	CIS unit: scanner lamp	Scanner Lamp: Color	4-723-001	
9	ADF drive motor	Motor Forward	6-012-003	
		Motor Reverse	6-012-004	

## Scanner Unit/ Laser Unit



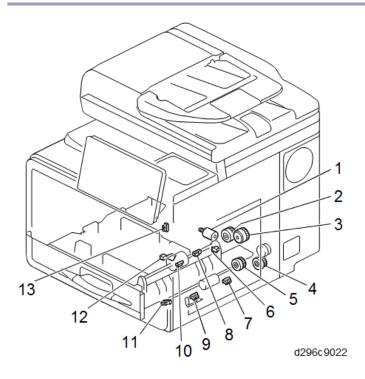
# **Input Check**

No.	Part Name	SP Name	SP No.	Reading	
				0	1
2	Scanner HP sensor	Scanner HP Sensor	5-803-200	Not HP	HP
4	ADF set sensor	Platen Cover Sensor	5-803-201	Close	Open
6	Interlock switch 1	Interlock Release Detection 1	5-803-012	Door open	Door close
7	Interlock switch 2	Interlock Release Detection 1	5-803-013	Door open	Door close
-	-	LD Off Check	5-803-094	-	-

# Output check

No.	Part Name	SP Name	SP No.	Remark
1	Scanner lamp	Scanner Lamp	5-804-202	
		Scanner Lamp: Color 1200	5-804-203	Not available
		Scanner Lamp: Bk	5-804-204	Not available
3	Polygon motor (K/C)	Polygon Motor1: Standard2	5-804-103	
		Polygon Moter1: Standard	5-804-104	
		Polygon Motor1: Low	5-804-105	
5	Polygon motor (M/Y)	Polygon Motor2: Standard2	5-804-107	
		Polygon Moter2: Standard	5-804-108	
		Polygon Motor2: Low	5-804-109	
3, 5	Polygon motor (K/C), (M/Y)	Polygon Motor1,2: Standard2	5-804-111	
		Polygon Moter1,2: Standard	5-804-112	
		Polygon Motor1,2: Low	5-804-113	

# Paper Feed



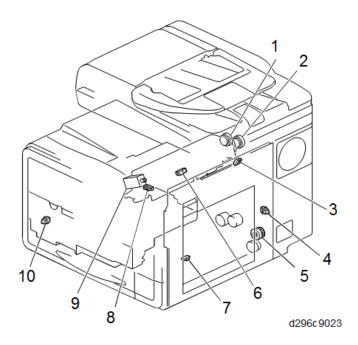
# **Input Check**

No.	Part Name	SP Name	SP No.	Re	Reading		
				0	1		
6	Scanner HP sensor	Tray Set Detection	5-803-	Set	Not set		
			054				
7	Bypass paper end	Bypass Paper End Detection	5-803-	Paper	Paper not		
	sensor	Sensor	003	detected	detected		
8	Registration sensor	Registration Sensor	5-803-	Paper	Paper not		
			001	detected	detected		
9	Bypass paper width	Bypass Paper Width Detection	5-803-	Paper	Paper not		
	sensor	Sensor	004	detected	detected		
10	Paper feed sensor	Tray Exit Sensor	5-803-	Paper	Paper not		
			011	detected	detected		
11	Bypass lift sensor	By-pass Lift Position Sensor	5-803-	Down	Up		
			010				
12	Tray paper end sensor	Tray Paper End Detection	5-803-	Paper	Paper not		
		Sensor	002	detected	detected		
13	Tray lift sensor	Tray Lift Sensor	5-803-	Down	Up		
			053				

# **Output Check**

No.	Part Name	SP Name	SP	Remark
			No.	
1	Tray lift	Tray Lift	5-	Do not execute this SP when the paper feed tray is set.
	motor	Motor	804-	If keeps the tray lift motor switched ON, the bottom plate can
			007	lift up overmuch because the tray lift sensor does not work.
				This will cause the sensor to damage.
2	Paper feed	Paper Feed	5-	
	clutch	Clutch	804-	
			002	
3	Registration	Registration	5-	
	clutch	Clutch	804-	
			001	
4	Bypass feed	Bypass Feed	5-	
	clutch	Clutch	804-	
			004	
5	Bypass lift	Bypass Lift	5-	
	clutch	Clutch	804-	
			005	

# Paper Exit/ Duplex, Waste Toner Bottle



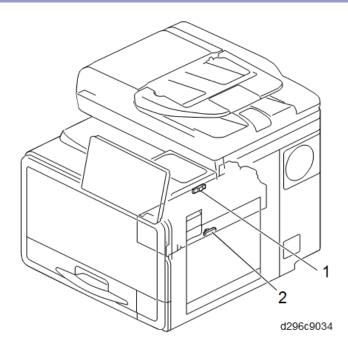
## **Input Check**

No.	Part Name	SP Name	SP No.	Reading	
				0	1
3	Duplex entrance sensor	Duplex Entrance Sensor	5-803-	Paper	Paper not
			008	detected	detected
4	Right cover switch	Right Cover Sensor	5-803-	Door close	Door open
			014		
6	Paper exit sensor	Exit Sensor	5-803-	Paper	Paper not
			007	detected	detected
7	Duplex exit sensor	Duplex Exit Sensor	5-803-	Paper	Paper not
			006	detected	detected
8	Waste toner full sensor	Toner Collection Full Sensor	5-803-	Not full	Full
			019		
10	Waste toner bottle set	Toner Collection Bottle Set	5-803-	Set	Not set
	switch	Detection	020		

## **Output Check**

No.	Part Name	SP Name	SP No.	Remark
1	Paper exit clutch	Exit Clutch	5-804-088	
2	Reverse clutch	Reverse Clutch	5-804-089	
5	Duplex clutch	Duplex Clutch	5-804-003	
9	Exit junction gate solenoid	Paper Exit Rotary Solenoid	5-804-008	

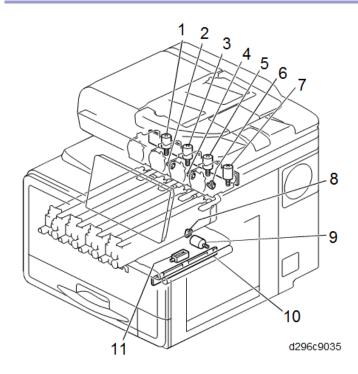
## Fusing



# Input Check

No.	Part Name	SP Name	SP No.	Reading	
				0	1
1	Fusing entrance	Fusing Entrance Sensor	5-803-	Paper	Paper not
	sensor		026	detected	detected
2	Fusing exit sensor	Fusing Exit Sensor	5-803-	Paper	Paper not
			027	detected	detected
-	-	Set and Destination	5-803-	-	-
		Detection	028		
-	-	Fusing New Unit Detection	5-803-	New	Not new
			029		
-	-	Fusing High Temp Detection	5-803-	Detected	Not detected
			030		

# Toner Supply/ Transfer



## **Input Check**

No.	Part Name	SP Name	SP No.	Reading	
				0	1
2	Toner end sensor (C)	Toner End Sensor: C	5-803-024	Not end	End
4	Toner end sensor (M)	Toner End Sensor: M	5-803-023	Not end	End
6	Toner end sensor (Y)	Toner End Sensor: Y	5-803-022	Not end	End
8	ITB contact HP sensor	Image Transfer Contact HP Sensor	5-803-016	Contact	Not contact

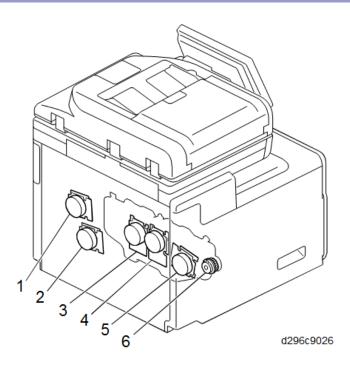
# **Output Check**

No.	Part Name	SP Name	SP	Remark
			No.	
1	Toner supply	Toner Supply	5-	Operation: Run the toner supply motor for 1.5 sec
	motor (K)	Motor: Bk	804-	Notes:
			038	If you want to run again, do it after executing SP3-011-
3	Toner supply	Toner Supply	5-	001 (Normal ProCon) or printing 1 or more sheet(s) in
	motor (C)	Motor: C	804-	full color mode.
			037	If you run without obeying the above-mentioned
5	Toner supply	Toner Supply	5-	operations, following failures may occur.
	motor (M)	Motor: M	804-	The toner supply unit and PCDU are damaged,
			036	and units replacing is required.
7	Toner supply	Toner Supply	5-	Toner can scatter inside and outside the machine
	motor (Y)	Motor: Y	804-	from the supply unit.

### 3.SP Mode Tables

No.	Part Name	SP Name	SP	Remark
			No.	
			035	
9	ITB Contact	Image Transfer	5-	If you execute this SP, the ITB roller halts at a position
	Motor	Contact Motor	804-	which is not at the home position (separated from the ITB).
			033	If you remove or install the PCDU or the ITB unit
				immediately after the motor is switched ON/OFF with this
				SP, the drums and ITB may be damaged.
				Before you remove/install the PCDU or the ITB unit,
				initialize the machine with turning the main power OFF/ON
				or opening/closing the front door.
10	ID sensor	TM/ID Sensor:	5-	
		Front	804-	
			071	
		TM/ID Sensor:	5-	
		Center	804-	
			072	
		TM/ID Sensor:	5-	
		Rear	804-	
			073	
11	ID Sensor	TM Sensor	5-	After the motor is turned ON with this SP, it is turned OFF
	Shutter	Shutter	804-	automatically in about 30 seconds.
	Solenoid	Solenoid	021	If you repeat turning OFF and ON continuously, the
				temperature of the solenoid rises. It can wrinkle the ITB near
				the solenoid.
-	-	Toner End	5-	
		Sensor Power	804-	
			039	
-	-	ID Tag: Power	5-	
		Supply Control	804-	
			042	
-	-	Toner Sensor	5-	
		Power	804-	
			043	

## Drive Unit



## **Input Check**

No.	Part Name	SP Name	SP No.	Reading	
				0	1
1	Fusing motor	Fusing Motor: Lock	5-803-041	Lock	Normal
2	Paper transport motor	Transport Motor: Lock	5-803-042	Lock	Normal
3	Development motor (CMY)	FC Dev Motor: Lock	5-803-039	Lock	Normal
4	Drum motor (CMY)	FC Drum Motor: Lock	5-803-040	Lock	Normal
5	Drum motor (K)	Bk Drum Motor: Lock	5-803-038	Lock	Normal

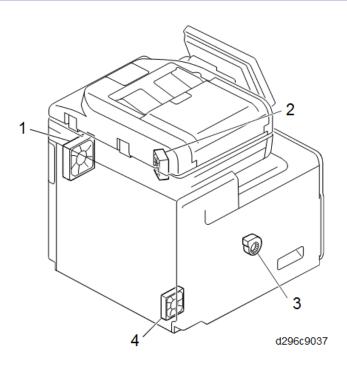
# **Output Check**

No.	Part Name	SP Name	SP	Remark
			No.	
1	Fusing motor	Fusing Motor:	5-	Do not use these SPs, but use following SPs instead.
		Standard Speed	804-	SP1-158-001 (Abnormal Noise Confirmation: Unit:
		1	029	Execute)
		Fusing Motor:	5-	SP1-158-002 (Abnormal Noise Confirmation: No Unit:
		Low Speed	804-	Execute)
			030	A simple heater control is performed in these SPs, and
		Fusing Motor:	5-	temperature rises excessively. It can cause the fusing sleeve
		Standard Speed	804-	damaged.
		2	091	

No.	Part Name	SP Name	SP	Remark
			No.	
		Fusing Motor:	5-	
		Middle Speed	804-	
			096	
2	Paper transport	Transport	5-	
	motor	Motor: Std	804-	
		Speed 1	031	
		Transport	5-	
		Motor: Low	804-	
		Speed	032	
		Transport	5-	
		Motor: Standard	804-	
		Speed 2	092	
		Transport	5-	
		Motor: Middle	804-	
		Speed	097	
3	Development	FC Dev Motor:	5-	
	motor (CMY)	Std Speed 1	804-	
			024	
		FC Dev Motor:	5-	
		Low Speed	804-	
			025	
		FC Dev Motor:	5-	
		Middle Speed	804-	
			094	
4	Drum motor	FC Drum	5-	When you turn ON the motor with these SPs, make sure to
	(CMY)	Motor: Std	804-	separate the color drums and ITB.
		Speed 1	027	Before the restoration operation of the machine after
		FC Drum	5-	abnormal stop, for example JAM, if the drum motor (CMY)
		Motor: Low	804-	is turned ON with these SPs, only the color drums drive. At
		Speed	028	this time, the ITB has stopped but the ITB is in contact with
		FC Drum	5-	the color drums. Therefore the color drums and the ITB may
		Motor: Middle	804-	be damaged.
		Speed	095	
5	Drum motor	Bk Drum	5-	When you turn ON the motor with these SPs, make sure to
	(K)	Motor: Std	804-	separate the color drums and ITB.
		Speed 1	022	Before the restoration operation of the machine after

No.	Part Name	SP Name	SP	Remark
			No.	
		Bk Drum	5-	abnormal stop, for example JAM, if the drum motor (K) is
		Motor: Low	804-	turned ON with these SPs, the K drum and ITB drive. At
		Speed	023	this time, the color drums have stopped but the color drums
		Bk Drum	5-	are in contact with the ITB. Therefore the color drums and
		Motor: Standard	804-	the ITB may be damaged.
		Speed 2	090	In addition, if keeps ON for a long time, the cleaning blade
		Bk Drum	5-	can be distorted. When you keeps ON with the ITB unit
		Motor: Middle	804-	installed, make sure to do it within 10 seconds.
		Speed	093	
6	Development	Development	5-	
	Clutch (K)	Clutch: Bk	804-	
			026	

## Fan/ Board



# **Input Check**

No.	Part Name	SP Name	SP No.	Readir	ng
				0	1
1	Duplex entrance sensor	Fusing Fan: Lock	5-803-032	Lock	Normal
2	Right cover switch	Laser Unit Fan: Lock	5-803-033	Lock	Normal
3	Paper exit sensor	PSU Fan: Lock	5-803-035	Lock	Normal
4	Duplex exit sensor	PCDU Cooling Fan: Lock	5-803-034	Lock	Normal

No.	Part Name	SP Name	SP No.	Reading	
				0	1
-	-	PP:T1T2:SC Detection	5-803-045	SC detected	No SC
-	-	PP:CB:SC Detection	5-803-044	SC detected	No SC
-	-	BiCU Version Detection	5-803-056	-	-
-	-	Key Counter 1: Set Detection	5-803-047	Set	Not set
-	-	Key Counter 2: Set Detection	5-803-048	Not set	Set
-	-	Keycard: Set Detection	5-803-049	Set	Not set

## **Output Check**

No.	Part Name	SP Name	SP	Remark
			No.	
1	Fusing fan	Fusing Fan: High	5-	
		Speed	804-	
			009	
		Fusing Fan: Low	5-	
		Speed	804-	
			010	
2	LD unit fan	Laser Unit Fan: High	5-	
		Speed	804-	
			011	
		Laser Unit Fan: Low	5-	
		Speed	804-	
			012	
3	PCDU	PCDU Cooling Fan:	5-	
	cooling	High Speed	804-	
	duct fan		015	
		PCDU Cooling Fan:	5-	
		Low Speed	804-	
			016	
4	PSU fan	PSU Fan: High	5-	
		Speed	804-	
			013	
		PSU Fan: Low Speed	5-	
			804-	
			014	
-	-	PP:Charge DC:Y	5-	Do not turn ON these SPs with the PCDU installed.
			804-	If you turn ON with the PCDU installed, an electric
			044	current continues to flow in a particular place of the

No.	Part Name	SP Name	SP No.	Remark
_	_	PP:Charge DC:M	5-	drum. Therefore the drum may be damaged
			804-	electrostatically.
			045	Note:
_	-	PP:Charge DC:C	5-	If you turn ON these SPs multiple at the same time, and
			804-	turn OFF one of the SPs, all of the output will be stopped.
			046	When you want to stop the outputs, turn OFF all of the
_	-	PP:Charge DC:Bk	5-	SPs turned ON.
			804-	
			047	
_	-	PP:Development: Y	5-	
		r	804-	
			048	
_	_	PP:Development: M	5-	
		r	804-	
			049	
_	-	PP:Development: C	5-	
		r	804-	
			050	
_	-	PP:Development: Bk	5-	
		1	804-	
			051	
-	-	PP: Image Transfer:	5-	Do not turn ON these SPs with the PCDU installed.
		YMC	804-	If you turn ON with the PCDU installed, an electric
			053	current continues to flow in a particular place of the
-	-	PP: Image Transfer:	5-	drum. Therefore the drum may be damaged
		Bk	804-	electrostatically.
			056	
-	-	PP: Paper Transfer: +	5-	
		_	804-	
			057	
-	-	PP: Paper Transfer: -	5-	
		_	804-	
			058	
-	-	PP:Charge AC:Y	5-	Do not use these SPs, otherwise SC312 will occur.
			804-	
			059	

### 3.SP Mode Tables

No.	Part Name	SP Name	SP	Remark
			No.	
-	-	PP:Charge AC:M	5-	
			804-	
			061	
-	-	PP:Charge AC:C	5-	
			804-	
			063	
-	-	PP:Charge AC:Bk	5-	
			804-	
			065	

# Paper Feed Unit (Optional)

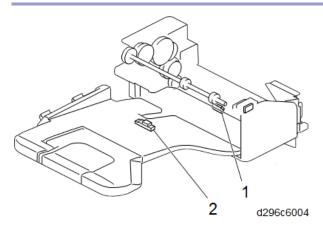
## **Input Check**

No.	Part Name	SP Name	SP No.	Readi	ng
				0	1
2	PFU door switch 1	PFU Door Sensor 1	5-803-	Close	Open
			062		
	PFU door switch 2	PFU Door Sensor 2	5-803-	Close	Open
			063		
3	Vertical transport sensor	PFU Vertical Transport Sen.	5-803-	Paper not	Paper
	1	1	060	detected	detected
	Vertical transport sensor	PFU Vertical Transport Sen.	5-803-	Paper not	Paper
	2	2	061	detected	detected

# Output check

No.	Part Name	SP Name	SP No.	Remark
1	Vertical transport clutch 1	PFU Vertical Transport CL1	5-804-086	
	Vertical transport clutch 2	PFU Vertical Transport CL2	5-804-087	
4	PFU transport motor 1	PFU Transport Motor 1: High	5-804-080	
		PFU Transport Motor 1: Low	5-804-081	
	PFU transport motor 2	PFU Transport Motor 2: High	5-804-082	
		PFU Transport Motor 2: Low	5-804-083	
5	PFU paper feed clutch 1	PFU Paper Feed CL1	5-804-084	
	PFU paper feed clutch 2	PFU Paper Feed CL2	5-804-085	

# 1 Bin Tray Unit (Optional)



## **Input Check**

No.	Part Name	SP Name	SP No.	Reading	
				0	1
1	1-bin tray exit sensor	1-Bin:Exit Sensor	5-803-	Paper	Paper not
			050	detected	detected
2	1-bin tray paper remaining	1-Bin:Paper Remaining	5-803-	Paper	Paper not
	sensor	Sensor	051	detected	detected
-	-	1-Bin: Set Detection	5-803-	Set	Not set
			052		

# 4. Software Configuration

# **Management Features**

### How to Disable the Document Server Function

- 1. Enter 'Copy' SP mode.
- **2.** Change SP5-967-001 to 1. (0:ON 1:OFF)
- **3.** Reboot the machine.



• When the above SP mode (SP5-967-001) is OFF (=1), both the Document Server and Locked Print functions will be disabled.

## How to Use Locked Print When the Document Server Is Disabled

RTB 22

- 1. Enter 'Printer' SP mode.
- 2. Set SP1-006-001 to 1.
  - 0: Link with Doc. Srv (default)

Locked print will only be enabled if the document server is enabled.

1: Enable

**Enable Locked** 

Print will be enabled no matter the status of the document server.

3. Turn OFF then ON the main power.

## **Printing Features**

#### Behavior of USB Printer Detection

An MFP connected via USB sends its product name and unique serial number. With the data, the machine determines whether requires a printer driver for the USB device to be installed.

SP5-844-005 allows you to change how to determine the MFP requires a printer driver installation:

#### OFF

If SP5-844-005 is set to OFF, the unique serial number of the device is sent to the computer. As a result, if the device is swapped out for a device of the same product, pop-up messages will appear, because the serial numbers between the two are different.

#### • Level 1

If SP5-844-005 is set to Level 1, a common serial number for the product such as "MP 305+" series is sent to the computer. As a result, if the device is swapped out for a device of the same product, pop-up messages will not appear because the devices are recognized as having the same serial number.

#### Level 2

If SP5-844-005 is set to Level 2, a common serial number for all GW/GW+ models is sent to the computer. As a result, if a GW/GW+ device is swapped out for a different GW/GW+ device, pop-up messages will not appear because the devices are both recognized as being based on GW/GW+.

### **Auto PDL Detection Function**

#### Overview

The Auto PDL Detection function gives the MFP the ability to determine the PDL of a job or of specific parts of a job. This can be especially useful in cases where the PDL is not specified or if the job contains multiple PDLs. This is only possible if the job was not created using a driver.

#### Conditions for detection of the PDL

The MFP will only attempt to detect a job's PDL if all of the following conditions are met.

- No @PJL ENTER LANGUAGE command is contained in the job
- No submission protocol options (lpr, ftp, rcp, or rsh options) have been used to specify the PDL
- User Tools > Printer > System > Printer Language = Auto

#### **U** Note

• The printer is unable to detect PCL6 or RPCS. However these are almost always created using a driver and therefore contain the PJL command specifying the PDL.

PDL detection by the printer system, PCL interpreter and PS interpreter

There are 3 components in the printer which can perform Auto PDL Detection:

#### 1. **Printer system:**

Uses a set of triggers unique to PCL5, PS or PDF. Up to 2KB from the start of the job can be searched for

### 4. Software Configuration

triggers.

#### 2. **PCL interpreter:**

It can detect PS triggers in PCL data. If a PS trigger is detected, the PCL interpreter will abort processing and return the unprocessed part of the job back to the printer system. Up to 256 bytes from the start of each page can be searched for triggers.

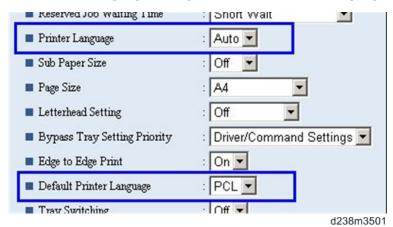
#### 3. **PS** interpreter:

It can detect PCL5 triggers in PS data. If a PCL trigger is detected, the PS interpreter will abort processing and return the unprocessed part of the job back to the printer system. The entire page (regardless of the number of bytes) is searched for triggers.



- 2. and 3. can be disabled using Printer Bit Switch 2-3=1.
- If the "Printer Language" is configured to anything other than Auto, all detection will be disabled.
- An interpreter submits a job page by page to the rasterizer. Therefore, when an interpreter detects a trigger mid-job, the previous pages will have already been submitted and will be output using the previously detected PDL.
- If the PDL cannot be detected by the printer system, then the PDL defaults to the one configured in "Configuration > Printer Basic Settings > Default Printer Language".

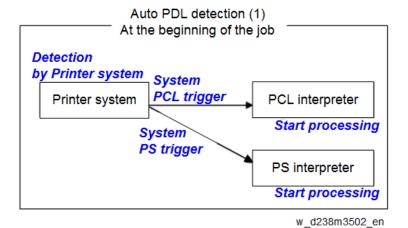
## The Printer Language setting and Default Printer Language setting in WIM:



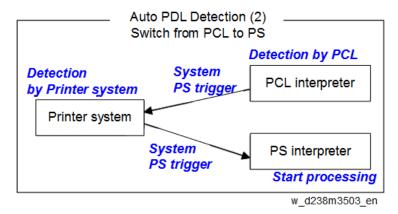
PDL selection and switching

3 types of PDL selection/switching are performed:

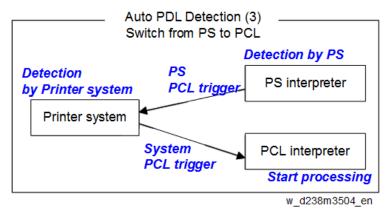
1. PDL selection (PCL5 or PS (including PDF)) at the beginning of the job: performed by the printer system



2. PDL switching from PCL5 to PS: performed by the PCL interpreter and the printer system



3. PDL switching from PS to PCL5: performed by the PS interpreter and the printer system



**Triggers** 

### **Printer system**

PCL5 triggers	[ESC]E
	[FF]
PS triggers	%!PS-Adobe-3.1
	%!
	dict begin

	bind def
	findfont
	showpage
	/statusdict
	0 startjob
	[EOT]
	} + space character + "def"
	userdict (*)
PDF triggers	%PDF-
	%!PS-Adobe-M.nPDF- (*M, n=numeric)

<sup>\* &</sup>quot;userdict" is excluded by configuring Printer Bit Switch 5-3=1.



- Up to 2KB from the start of the job can be searched for triggers.
- "%%" can be added to the PS triggers by configuring Printer Bit Switch 5-3=1
- If a job is identified as PDF, it will be sent to the PS interpreter to be processed as a regular PS job.

## **PS** interpreter

PCL5 trigger	[ESC]E and 2 or more continuous PCL commands
--------------	--



• Up to 256 bytes from the start of each page can be searched for triggers.

### Some possible problems

### **Garbled output:**

If a string of characters (or binary data) is mistaken as a trigger and an incorrect PDL is applied, the output will be garbled.

#### **Incorrect printer settings:**

Printer settings, for example the paper size, is incorrectly applied. This can happen when the printer settings at the beginning of the job are initialized before a PDL switch occurred and no settings were configured for the rest of the job.

#### Printer Bit Switch description

#### Bit Switch 2-3

This controls Auto PDL Detection by the PCL interpreter and PS interpreter.

BitSW 2-3=0 (default):

If PDL switching is applied to the job, all of the printer system, PCL interpreter and PS interpreter will search for switching criteria (triggers).

BitSW 2-3=1:

Only the printer system will search for switching criteria (triggers). PCL/PS interpreters will not.

#### Bit Switch 5-3

388

This affects the PDL switching criteria (triggers) used by the printer system.

BitSW 5-3=0 (default):

"%%" is not used as a printer system PS trigger. "%%" will not call the PS interpreter.

BitSW 5-3=1:

"%%" is used as a printer system PS trigger.

The reason that "%%" is not included as a trigger by default, is that a string of text in the body of the job such as the below, could result in a false positive. This would trigger a switch and result garbled output.

However some customers prefer that "%%" be included as a switching criteria. BitSW5-3=1 should be used in such a case.



• A side effect of BitSW5-3=1 is that "userdict" will no longer be used as a PS trigger.

#### Bit Switch 9-0

These determine whether Auto PDL Detection for print jobs transmitted via USB/parallel will wait 10 seconds to make sure the first 2KB of the job has been sent.

The Printer system portion of the Auto PDL Detection function is only performed on the first 2KB of a job and can wait up to 10 seconds for that first 2KB to arrive. As the printer is unable to detect the end of jobs submitted over a USB/Parallel connection, it might be preferable to not wait 10 seconds if jobs of less than 2KB are going to be printed. Enabling/disabling this waiting time is the purpose of BitSw 9-0.

BitSw 9-0=0 (default):

The printer system will not wait 10 seconds for the first 2KB of data to arrive.

BitSw 9-0=1:

The printer system will wait up to 10 seconds for the first 2KB of data to arrive.

#### **Print Images Rotation**

#### Printer Bit Switch description

## Bit Switch 5-6

This change the way an MFP/LP rotates PCL, PS, PDF, or RPCS print images.

BitSW 5-6=0 (default):

A uniform binding edge (short or long edge) will be applied to every page of every job. Pages will always be rotated as if they were to be bound on that edge.

BitSW 5-6=1:

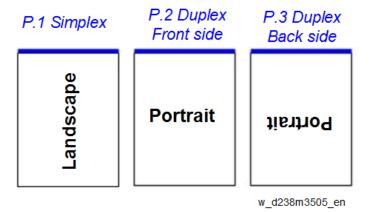
A uniform binding edge (short or long edge) will only be applied if the job is stapled, punched, or Z-folded. Otherwise, the bound edge might differ from page to page.

Example:

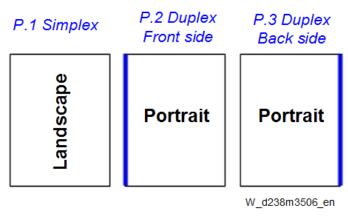
A 3-page job. Page 1 has the PCL simplex command. Page 2 and 3 have the PCL duplex long-edge bind commands.

No finishing options (staple, punch, z-fold) are used.

#### Bit Switch #5-6=0:



#### Bit Switch #5-6=1:



UNote

• Used in conjunction with Bit Switch #5-6, Orientation Auto Detect for PS/PDF jobs might cause unexpected results.

#### PJL USTATUS

### Printer Bit Switch description

#### Bit Switch 9-4

These control the way PJL USTATUS returns page count totals in cases where multiple copies of a job are being printed.

BitSw 9-4=0 (default):

This change the way an MFP/LP rotates PCL, PS, PDF, or RPCS print images.

- 1. The page count for a single copy is returned after the first copy is printed.
- 2. The page count for the rest of the copies, excluding the first copy, is returned after all copies have been printed.
- 3. This emulates an older HP PCL firmware spec. It is only needed for compatibility with legacy software.

## BitSw 9-4=1:

The page count for all copies is output after all copies have been printed.

For example, consider 3 copies of a 3 page job: 9-4 = 0@PJL USTATUS JOB **START** NAME="TEST\_page1-3" @PJL USTATUS PAGE 1 @PJL USTATUS PAGE @PJL USTATUS PAGE @PJL USTATUS JOB **END** NAME="TEST\_page1-3" PAGES=3 <comment> The page count of the first copy is returned.</comment> @PJL USTATUS PAGE @PJL USTATUS PAGE @PJL USTATUS PAGE 3 @PJL USTATUS PAGE @PJL USTATUS PAGE 5 @PJL USTATUS PAGE <comment> The page count of the remaining two copies is returned.</comment> 9-4 = 1@PJL USTATUS JOB **START** NAME="Microsoft Word - TEST page1-3" @PJL USTATUS PAGE @PJL USTATUS PAGE 2 @PJL USTATUS PAGE

This emulates more recent HP PCL firmware specs.

### 4. Software Configuration

3

@PJL USTATUS PAGE

4

@PJL USTATUS PAGE

5

@PJL USTATUS PAGE

6@PJL USTATUS PAGE

7

@PJL USTATUS PAGE

8

@PJL USTATUS PAGE

9

@PJL USTATUS JOB

**END** 

NAME="Microsoft Word - TEST\_page1-3"

PAGES=9

<comment> The page count of all three copies is returned.</comment>

### **Scanner Features**

### Display settings of recently used scan destination

Configuring the scanner interface so that the most recently used scan destination is cleared.

Whether the MFP clears the most recently used scan destination, can be configured using Scanner SP 1-012-001.

By default, this is cleared to avoid subsequent users scanning to it by mistake.

Scanner SP 1-012-001

1 (default): Clear

0: Do not clear

This will cause all of the following to be cleared after the scanning is complete:

- Destination
- Sender
- Email subject
- Email message
- File name

The information in the list above will be cleared after scanning is finished.

#### **Exceptions:**

User Auth.:

If SP 1-012-001 = 0 and if User Auth. (excluding User Code authentication) is enabled, the most recently used scan destination will only be retained until the user logs out.

• Scanner Auto Reset timer:

Even if SP 1-012-001 = 0 the most recently used scan destination can still be cleared by the Scanner Auto Reset timer. If the Scanner Auto Reset timer is shorter than the System Auto Reset timer, then the most recently used scan destination will be cleared when the Scanner Auto Reset timer elapses.

### The Setting of SMTP authentication in Scan to Email

Scan to Email fails with the error message "Transmission has failed". The SMTP username and password are correct. How can I make Scan to Email pass?

Change SP 5-860-022 "SMTP Auth. From Field Replacement" to On. By doing this, Scan to Email will pass the SMTP authentication.



• Using this option to solve the above problem, the device email address will appear in the email's "From" field. The email address of the user who sent the email will appear in the "Reply-to" field.

#### **Explanation**

This is an SMTP authentication issue that aborts transmission of an already started Scan to Email. Currently this has only been reproduced using MS-Exchange server.

MS-Exchange requires that all of the following match:

1. The sender's address in the "MAIL FROM" field. This is also known as the "envelope sender" or "MIME

sender". It is an SMTP command sent at the beginning of the email transmission process.

- 2. The sender's address in the mail header "From:" field. This appears as "From" in email clients. It is a part of the email itself.
- 3. The email address corresponding to the SMTP username used to login into the SMTP server.

When the MFP logins into the SMTP server, the email address of the username 3) will be compared to 1) and 2). If these comparisons fail, authentication will also fail. Exchange server will stop the transmission procedure, and the "Transmission has failed" message will be returned to the sender.

### Typical example

#### NG case:

SP5-860-022 is Off:

- 1. The "MAIL FROM" field = device
- 2. The mail header "From:" field = use
- 3. The SMTP username = device

When the SMTP server compares 2) and 3) the Exchange Server will stop the transmission procedure.

#### OK case:

SP5-860 can be used to make the values in the above example, match.

In this example, if SP5-860-022 is On, the user's email address in the mail header '2)' will be replaced by the Administrator's email address.

To solve the problem, the Administrator's address must be the same as the device's address.

If this is done:

- 1. The "Mail From: field = device
- 2. The mail header "From:" field = administrator
- 3. The SMTP username = device

1,2 and 3 must match and the authentication should be successful.

### **U** Note

• The user's email address will still be inserted into the reply-to field.

The device SMTP user name, password, and email address are configurable in [User Tools] > [Machine Features] > [System Settings] > [File Transfer] > [SMTP Authentication].

User email addresses are configurable in the user configuration of the Address Book.

The administrator email address is configurable in [User Tools] > [Machine Features] > [System Settings] > [File Transfer] > [Administrator's Email Address].

### The Qualification Switching of Scan to Folder

Determining which account Scan to Folder uses to access a scan destination and the effects of System SP 5-846-021.

This method depends on how the destination is accessed, whether authentication is being used, and SP 5-846-021.

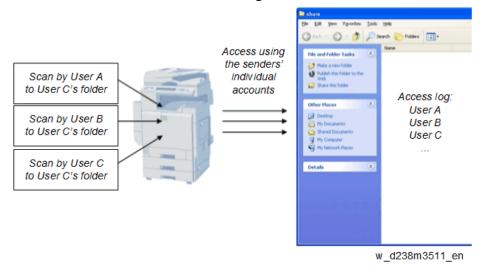
#### Cases:

Case	Destination	User auth.	Account used to access the folder	
	selection			
A	Manual entry	Either enabled or	The user's account *	
		disabled		
В	Destination list	tination list disabled The recipient's account		
			(as configured in the Address Book's Folder	
			Authentication setting)	
С		enabled	If SP 5-846-021 =	
			0 (default): The authenticated user's account	
			1: The recipient's account	
			(as configured in the Address Book's Folder	
			Authentication setting)	

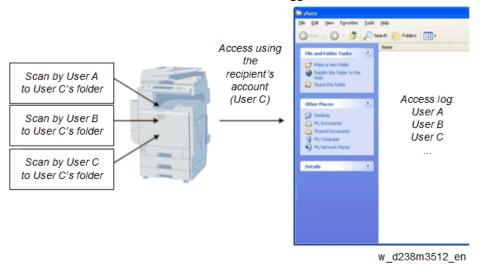
<sup>\*</sup> The "user's account" will be either the one entered during scanning (see the Manual Entry screen capture) or if User Auth. is enabled, the account configured in the user's Folder Authentication setting will be used.

### The destination's access logs:

Case A or Case C with SP=0: The access logs can be used to determine which user sent the scan.



Case B or Case C with SP=1: All access will be logged as the same user.



## **Security Features**

### How to Restrict Access to the WIM Job Menu

- 1. Enter 'Printer' SP mode.
- 2. Set SP5-888-001
  - 0: (default): "Job" menu is enabled.
  - 1: "Job" menu is disabled.



This setting takes effect only if user authentication (other than User Code auth.) is disabled.



### How to Restrict Web Image Monitor Access to the Document Server

System (Copier) SP 5-885-020 bit 0, 1 and 7 restrict Web Image Monitor access to the DS. It disables the following WIM settings:

- The entire Document Server menu (shown in blue in fig1)
- Job > Document Server (shown in red in fig1)

See the following for details:

### **Bit 0:**

Bit 0 = 0 (default): Allows anyone (guests, users, admins) access to the DS via WIM.

Bit 0 = 1: Prevents everyone from accessing the DS via WIM.

#### **Bit 1:**

Bit 1 = 0 (default): Allows anyone (guests, users, admins) access to the DS via WIM.

Bit 1 = 1: Only administrators can access the DS via WIM.



Without admin privileges, even authenticated users will be unable to access the DS via WIM.

#### Bit 7:

Bit 7 = 0 (default): Allows anyone (guests, users, admins) access to the DS via WIM.

Bit 7 = 1: Only administrators and authenticated users can access the DS via WIM.

The most restrictive result of combining these three configurations will take priority. So for example:

Bit 0 = 0

Bit 1 = 1

#### Bit 7 = 1

As Bit 1 = 1 is the most restrictive of the three, it will take presedence over the other two and only administrators will be able to access the DS via WIM.



- **U**Note
  - In order for SP5-885-020 to have any effect, the Document Server must be enabled (SP5-967-001=0). For information about SP5-967-001, refer to Disabling the Document Server using System SP5-967-001 and Printer SP1-006-001.
  - Access to the entire "Job" menu can be restricted using SP 5-888-001. For details, refer to Use of SP 5-888-001 to restrict access to the "Job" menu on WIM.

## User Authentication for Specific MFP Applications

The SP5-420 settings enable/disable User Authentication for specific MFP applications.

SP 5-420 User Authentication Value (Default: 0)

SP 5-420	User Authentication	Value (Default: 0)	
SP5-420-001	Сору	0 (ON)	1 (OFF)
SP5-420-011	Document Server		
SP5-420-021	Fax		
SP5-420-031	Scanner		
SP5-420-041	Printer		

- <u>1.</u> Enable User Authentication for the device as a whole:User Tools > System Settings > Administrator Tools > User Authentication Management
- 2. Use the SP5-420 settings to specify the applications to which User authentication is to apply.

RTB 22