Model AT-C2.5 Machine Code: D086/D087

Field Service Manual

Important Safety Notices

Prevention of Physical Injury

- 1. Before disassembling or assembling parts of the copier and peripherals, make sure that the copier power cord is unplugged.
- 2. The wall outlet should be near the copier and easily accessible.
- 3. 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.
- 4. The copier 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 copier starts operation.
- 5. The inside and the metal parts of the fusing unit become extremely hot while the copier is operating. Be careful to avoid touching those components with your bare hands.

Health Safety Conditions

- 1. Toner and developer are non-toxic, but if you get either of them in your eyes by accident, it may cause temporary eye discomfort. Immediately wash eyes with plenty of water. If unsuccessful, get medical attention.
- 2. The copier, which use high voltage power source, can generate ozone gas. High ozone density is harmful to human health. Therefore, the machine must be installed in a well-ventilated room.

Observance of Electrical Safety Standards

The copier and its peripherals must be serviced by a customer service representative who has completed the training course on those models.

⚠WARNING

 OKeep the machine away from flammable liquids, gases, and aerosols. A fire or an explosion might occur.

ACAUTION

- The Controller board on this machine contains a lithium battery. 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 batteries in accordance with the manufacturer's instructions and local regulations.
- The optional fax and memory expansion units contain lithium batteries, which can explode if replaced incorrectly. Replace only with the same or an equivalent type recommended by the manufacturer. Do

not recharge or burn the batteries. Used batteries must be handled in accordance with local regulations.

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, the maintenance unit which includes developer or the organic photoconductor 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.

Laser Safety

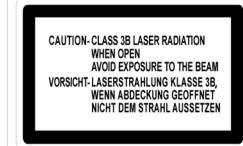
The Center for Devices and Radiological Health (CDRH) prohibits the repair of laser-based optical units in the field. The optical housing unit can only be repaired in a factory or at a location with the requisite equipment. The laser subsystem is replaceable in the field by a qualified Customer Engineer. 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.

⚠ WARNING

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

MARNING

- WARNING: Turn off the main switch before attempting any of the procedures in the Laser Optics Housing Unit section. Laser beams can seriously damage your eyes.
- CAUTION MARKING:





Warnings, Cautions, Notes

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

WARNING

• 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.

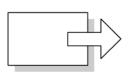
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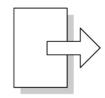
• This information provides tips and advice about how to best service the machine.

Symbols, Abbreviations and Trademarks

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

10	See or Refer to
ℴ	Clip ring
P	Screw
	Connector
Sign (Clamp
©	E-ring
SEF	Short Edge Feed
LEF	Long Edge Feed





Short Edge Feed (SEF)

Long Edge Feed (LEF)

Trademarks

Microsoft®, Windows®, and MS-DOS® are registered trademarks of Microsoft Corporation in the United States and /or other countries.

 ${\sf PostScript}^{\circledR} \ is \ a \ registered \ trademark \ of \ Adobe \ Systems, \ Incorporated.$

 PCL^{\circledR} is a registered trademark of Hewlett-Packard Company.

 $\label{eq:thermat} \mbox{Ethernet}^{\mbox{\scriptsize \emptyset}} \mbox{ is a registered trademark of Xerox Corporation}.$

 ${\sf PowerPC}^{\circledR} \ \text{is a registered trademark of International Business Machines Corporation}.$

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

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1. Product Information

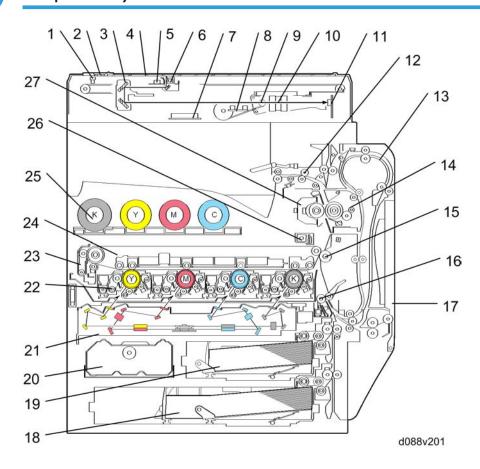
Specifications

See "Appendices" for the following information:

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

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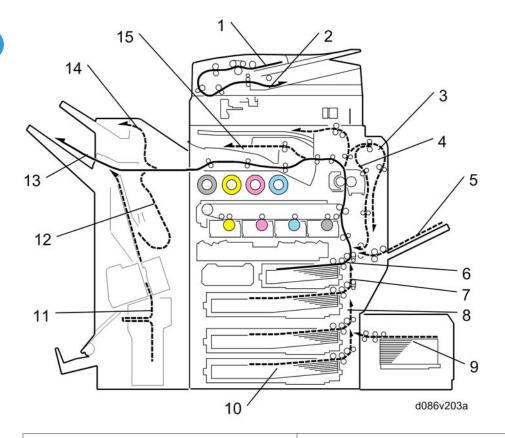
Component Layout



- 1. Scanner HP sensor
- 2. ADF exposure glass
- 3. 2nd scanner (2nd carriage)
- 4. Exposure glass
- 5. 1st scanner (1st carriage)
- 6. Scanner lamp
- 7. Original width sensor
- 8. Original length sensor
- 9. Scanner motor
- 10. Lens block
- 11. Sensor board unit (SBU)
- 12. Decurler roller
- 13. Duplex unit
- 14. Fusing unit

- 15. Paper transfer roller
- 16. Registration roller
- 17. By-pass feed table
- 18. Tray 2
- 19. Tray 1
- 20. Toner collection bottle
- 21. Laser optics housing unit
- 22. PCDU (4 colors)
- 23. Image transfer belt cleaning unit
- 24. Image transfer belt unit
- 25. Toner bottle (4 colors)
- 26. ID sensor
- 27. IH coil unit

Paper Path

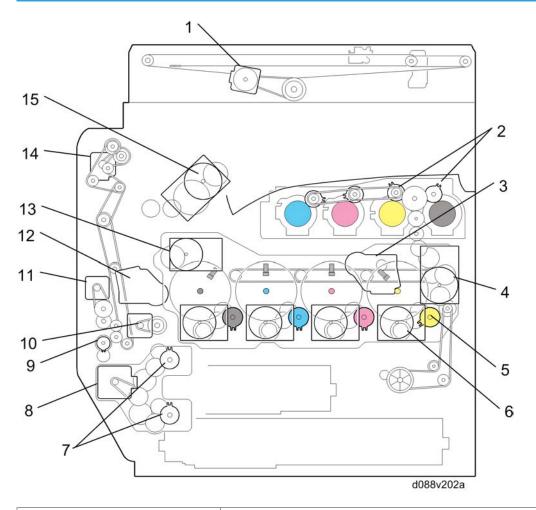


- 1. Original tray
- 2. Original exit tray
- 3. Duplex inverter
- 4. Duplex feed
- 5. By-pass tray feed
- 6. Tray 1 feed
- 7. Tray 2 feed
- 8. Tray 3: Optional paper feed unit/LCT

- 9. Tray 5: Optional LCT 1200
- 10. Tray 4: Optional paper feed unit
- 11. Finisher stapler (Optional)
- 12. Finisher punch (Optional)
- 13. Finisher lower tray (Optional)
- 14. Finisher proof tray (Optional)
- 15. Inner Tray

The 1000-sheet finisher and 1000-sheet booklet finisher require the bridge unit and one from the two-tray paper feed unit or the LCT.

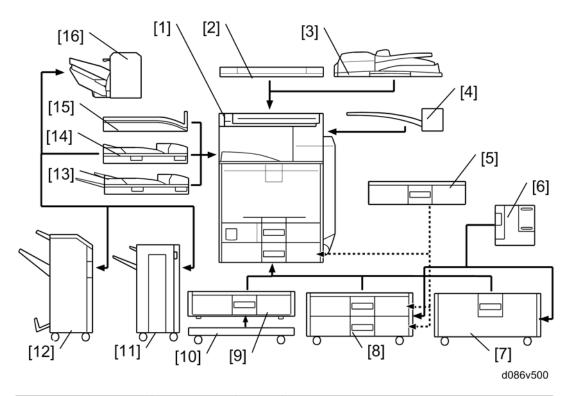
Drive Layout



1. Scanner motor:	Drives the scanner unit.
2. Toner supply clutch-K and -CMY:	Turns on/off the drive power to the toner supply unit (K and - CMY).
3.ITB (Image Transfer Belt) contact motor:	Moves the ITB into contact and away from the color PCUs.
4. Toner transport motor:	Drives the toner attraction pumps and the toner collection coils from the PCUs, from the transfer belt unit, and inside the toner collection bottle. Also rotates the toner bottles.
5. Development clutch (K, Y, M, C):	Turns on/off the drive power to the development unit (K, Y, M, C).

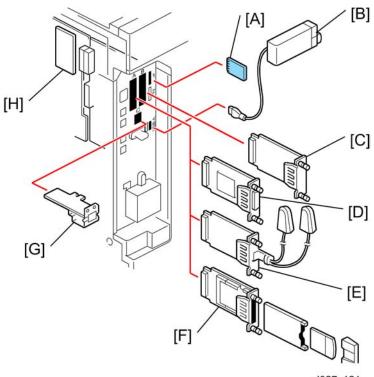
6. Drum/Development drive motor (K, Y, M, C)	Drives the color drum unit and development unit (K, Y, M, C).
7. Paper feed clutch	Switches the drive power between tray 1 and tray 2.
8. Paper feed motor:	Drives the paper feed mechanisms (tray 1/tray 2).
9. By-pass feed clutch:	Turns on/off the drive power to the by-pass pick-up, feed and separation rollers.
10. Registration motor:	Drives the registration roller.
11. By-pass/duplex feed motor:	Drives the by-pass pick-up, feed and separation roller, and duplex transport rollers.
12. Paper transfer contact motor:	Moves the paper transfer roller in contact with the image transfer belt.
13. ITB drive motor:	Drives the image transfer belt unit.
14. Duplex inverter motor	Drives the duplex inverter rollers and duplex transport rollers.
15. Fusing/paper exit motor:	Drives the fusing unit and paper exit section.

Machine Configuration



Item	Machine Code	Call out	Remarks
Mainframe	D086/D087	[1]	-
Platen cover	G329	[2]	One from the two
ARDF	D541	[3]	One from the two
500-sheet finisher	D372	[16]	Requires [14]
1000-sheet booklet finisher	B793	[12]	One from [11], [12] and [16]; Requires [14] and one from [7] and [8].
Punch unit: 3/2 holes	B807-17	-	
Punch unit: 4/2 holes	B807-27	-	Requires [12].
Punch unit: 4 holes	B807-30	-	

ltem	Machine Code	Call out	Remarks
1000-sheet finisher	B408	[11]	One from [11], [12] and [16]; Requires [14] and one from [7] and [8].
2000-sheet LCT	D538-57/6 7	[7]	
Two-tray paper feed unit	D537-57	[8]	One from the three; The one-tray PFU requires [10].
One-tray paper feed unit	D387	[9]	The one hay the regenes [10].
Envelope feeder	D547	[5]	Requires Tray 2 of the Mainframe or [8]
Caster table	D446	[10]	-
1200-sheet LCT	D539-57/6 7	[6]	Requires [7] or [8].
1-bin tray	D536	[4]	-
Shift tray	D388	[15]	
Bridge unit	D386	[14]	One from the three
Side tray	D542	[13]	
Scanner accessibility option	D423	-	-
ADF handle	B862	-	-
Card reader bracket	D547	-	-
Optional counter interface unit	B870	-	-
Key counter bracket	A674	-	-



d027v121

Item	Machine code	Call out	Remark
USB2.0/SD Slot	D422-01	[B]	In USB A (front)
Gigabit Ethernet	D546-23	[G]	-
IEEE 1284	B679-17	[D]	
Wireless LAN (IEEE 802.11a/g)	D377-01 (NA) D377-02 (EU/AA)	[E]	You can only install one of these at a time.
Bluetooth	B826-17	[F]	
File Format Converter	D377-04	[C]	-

	D546-09 (NA) D546-10 (EU)		
PostScript 3			You can only install one from
	D546-11 (AA)		the five (SD card slot 1)
Security SD Card (Standard)	-		Security SD Card (Data
PictBridge	D546-21	[A]	Overwrite Security and HDD Encryption) is in SD card slot 1
	D546-05 (NA)		by default. If multiple
IPDS Unit	D546-06 (EU)		applications are required, merge all applications in one SD card with SP mode. (IPT p.139 "SD Card Appli Move")
	D546-07 (AA)		
PDF Direct	This card is included in		
PDF DIrect	[B] D546-23.		
	D403-05 (NA)		In SD card slot 2
Browser Unit	D403-06 (EU)	-	Remove it from slot 2 after
	D403-07 (AA)		installing.
			SD card slot 2
VM Card (Standard)			This SD card is not installed in
	-	-	SD slot 2 by factory default. This
			card should be installed in SD slot 2 at machine installation.
I	l		

Guidance for Those Who are Familiar with Predecessor Products

Machine D086/D087 is a successor model to Machine D023/D025. If you have experience with the predecessor products, the following information will be of help when you read this manual.

Different Points from Predecessor Products

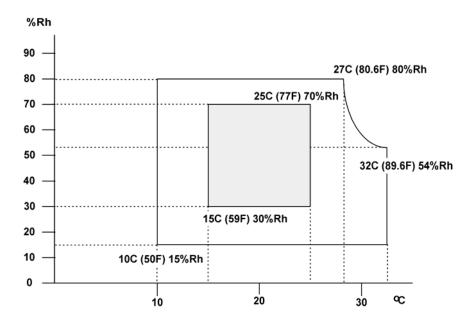
	D086/D087	D023/D025
Security Card	Standard	Optional
VM Card	Standard	Optional
Safety shutdown function	Available	Not available
Fusing method	Induction Heating system	Fusing belt and fusing lamp

ī

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. Install the machine at locations lower than 2,000 m (6,560 ft.) above sea level.
- 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.

Mportant (

• Do not leave the toner bottle in a place directly exposed to sunlight.

• The toner bottle must be kept at a temperature of 35°C (95°F) or less. Be careful not to leave the toner bottle in a hot place when transporting or storing it.

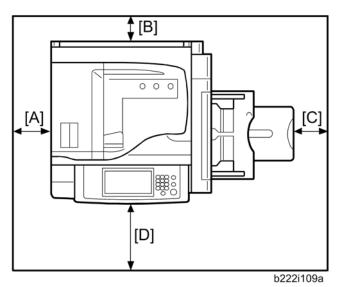
Machine Level

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

Machine Space Requirements

ACAUTION

• 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.



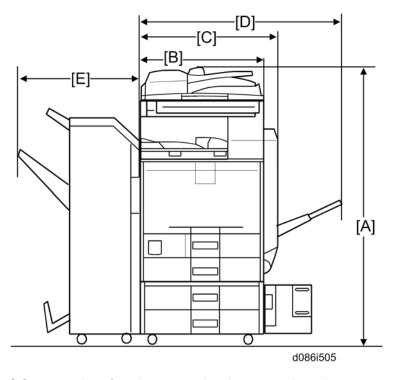
A: Over 100 mm (3.9")

B: Over 100 mm (3.9") C: Over 100 mm (3.9")

D: Over 750 mm (29.5")

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

Machine Dimensions



[A]: 670 mm (mainframe) + 260 mm (PFU) + 120 mm (ARDF)

[B]: 580 mm

[C]: 670 mm

[D]: 1107 mm

[E]: 535 mm

Power Requirements

ACAUTION

- Insert the plug firmly in the outlet.
- Do not use an outlet extension plug or cord.
- Ground the machine.
- 1. Input voltage level:

120 to 127 V, 60 Hz: More than 12 A

 $220\,V$ to $240\,V,\,50\,Hz/60\,Hz;$ More than $8\,A$

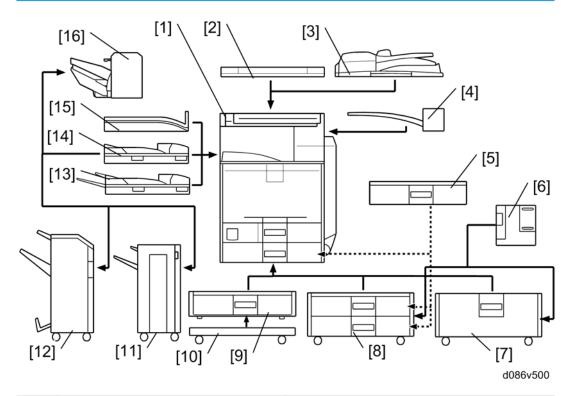
2. Permissible voltage fluctuation: +8.66 % / -10 %

2

3. Do not put things on the power cord.

Optional Unit Combinations

Machine Options



No.	Options	Remarks
1	Main machine (D086/D087)	-
2	Platen cover	One from No.2 or No.3
3	ARDF	One from No.2 or No.3
4	1-bin tray unit	-
5	Envelope feeder* 1	Requires Tray 2 of the Mainframe or No.8
6	1200-sheet LCT	Requires No.7 or No.8

7	Large capacity tray	
8	Two-tray paper feed unit	One from No.7, No.8 or No.9 No.9 requires No. 10
9	One-tray paper feed unit	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
10	Caster table	-
11	1000-sheet finisher	One from No.11, No.12 or No.16;
12	1000-sheet booklet finisher	Requires No.14 and one from No.7 or No.8
13	Side tray	
14	Bridge unit	One from No.13, No.14 or No.15
15	Shift tray	
16	500-sheet finisher	Requires No. 14

^{* 1:} The Envelope Feeder EF3000 (D547) cannot be used in the one-tray paper feed unit (D387).

Controller Options

No.	Options	Remarks
1	Bluetooth	
2	IEEE 802.11a/g	One from the three (I/F Slot A)
3	IEEE 1284	
4	File Format Converter	I/F Slot B
5	Gigabit Ethernet	I/F Slot C
6	Security SD Card (Standard)	
7	PostScript 3	One from the five (SD card slot 1)
8	PictBridge Option	Security SD Card (Data Overwrite Security and HDD Encryption) is in SD card slot 1 by
9	IPDS Unit Type C5501	default. If multiple applications are required, merge all applications in one SD card with SP
10	PDF Direct (child option for USB2.0/SD Slot)	mode. (IF p.139 "SD Card Appli Move")
11	Browser Unit Type E	SD card slot 2 (during installation only)

		SD card slot 2
12	VM Card (Standard)	This SD card is not installed in SD slot 2 by factory default. This card should be installed in SD slot 2 at machine installation.

For details about the slot locations, see Controller Options.

Other Options

No.	Options	Remarks
1	Optional Counter Interface Unit	-
2	USB2.0/SD Slot	-
3	ADF Handle Type B	O [N. 2 N. 4
4	Key Counter Bracket Type H	One from No.3 or No.4
5	Card Reader Bracket Type C5501	-

Fax Options

No.	Options	Remarks
1	Fax Option Type C5501	-
2	G3 Interface Unit Type C5000	-
3	Memory Unit Type B	Requires No. 1
4	*Handset Type 1018	Requires No.1.

Copier Installation

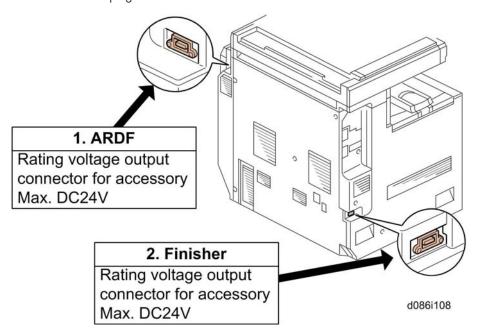
ACAUTION

Make sure that the image transfer belt is in its correct position (away from the PCDUs) before you
move the machine. Otherwise, the image transfer belt and the black PCDU can be damaged.

Power Sockets for Peripherals

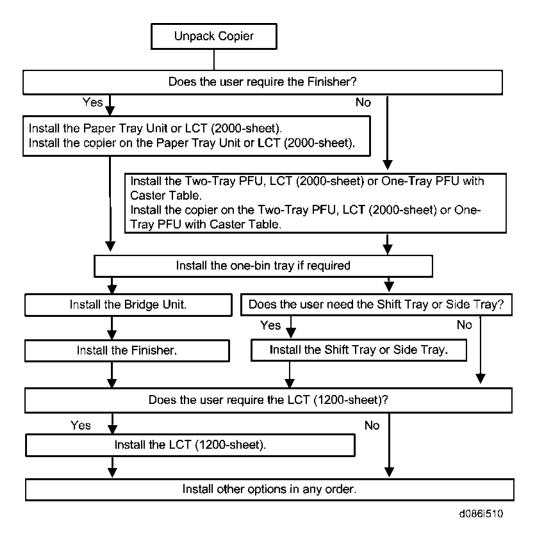
ACAUTION

- Rating voltage for peripherals.
- Make sure to plug the cables into the correct sockets.



Installation Flow Chart

This flow chart shows the best procedure for installation.



You need the optional paper tray unit or the LCT if you want to install the finisher (B408 or B793) or 1200-sheet LCT (D539).

The punch unit is for the booklet finisher (B793).

Installation Procedure

ACAUTION

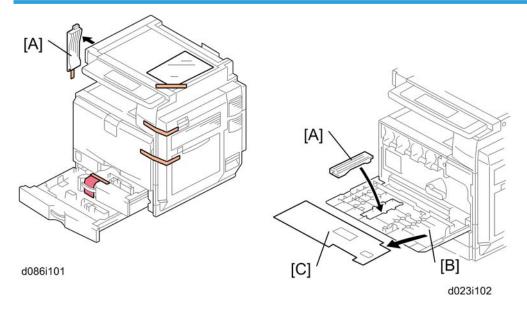
• Remove the tape from the development units before you turn the main switch on. The development units can be severely damaged if you do not remove the tape.

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



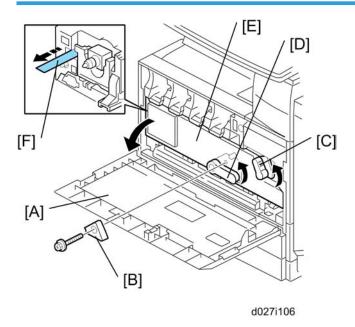
• Keep the shipping retainers after you install the machine. You may need them in the future if you transport the machine to another location.

Tapes and Retainers



- 1. Remove all the tapes and retainers on the machine.
- 2. Remove all the tapes and retainers in trays 1 and 2, and then take out the power cord from tray 1 (if applicable).
- 3. Remove the scanner unit stay [A].
- 4. Open the front door [B], and then remove the jam location sheet [C].
- 5. Keep the scanner unit stay [A] inside the front door [B].
- 6. Reattach the jam location sheet.
- 7. Close the front door.

Developer and Toner Bottles



1. Open the front door [A].



- GSA model (-57) and EU models (-27) do not require steps from 2 to 7. Skip to step 8 if you install these models.
- 2. Remove the stopper [B] (\$\hat{B}^2 \times 1).



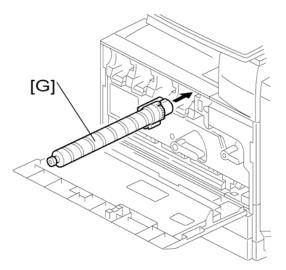
- This stopper locks the drum positioning plate lever.
- 3. Release the image transfer unit lock lever [C], and turn the drum positioning plate lever [D] counterclockwise.
- 4. Open the drum positioning plate [E].



5. Remove all tapes [F] from the four development units.



- When you remove the tape from the development unit, hold the development unit with your hand, and then pull the tape.
- 6. Close the drum positioning plate. Then lock the image transfer unit lock and turn the drum positioning plate lever clockwise.
- 7. Lock the drum positioning plate lever with the stopper [B] ($\mathscr{F} \times 1$).
- 8. Shake each toner bottle five or six times.



9. Install each toner bottle [G] in the machine.



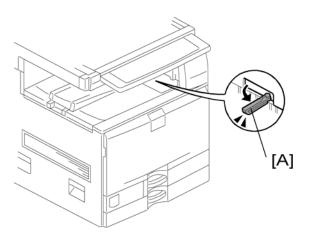
- The black toner bottle is unique for the D086/D087 models. The black toner bottle for the previous models (D023/D025) cannot be used in the D086/D087 models.
- The other color toner bottles are common with the previous models.
- 10. Close the front door.

Paper Trays

1. Pull each paper tray out. Then adjust the side guides and end guide to match the paper size.

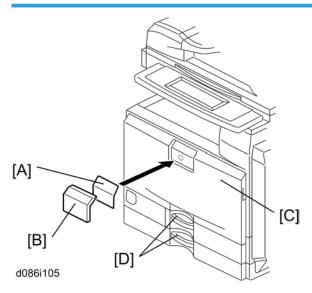


• To move the side guide, first pull out the tray fully. Then push down the green lock at the rear inside the tray.



2. Pull out the feeler [A] for the output tray full detection mechanism.

Emblem and Decals



- 1. Attach the correct emblem [A] and the cover [B] to the front door [C] of the machine, if the emblem is not attached.
- 2. Attach the correct paper tray number and size decals to the paper trays [D].



Paper tray number and size decals are also used for the optional paper tray or the optional LCT.
 Keep these decals for use with these optional units.

Initialize the Developer

- 1. Plug in the machine.
- 2. Make sure that the platen or ARDF is closed and the main power is turned off.
- 3. Turn the main power switch on. The machine automatically starts the initialization procedure. The Start button LED (③) turns green when this procedure has finished.
- 4. Make copies of image samples (text, photo, and text/photo modes).
- 5. Do the Automatic Color Calibration process (ACC) as follows:
 - 1). Print the ACC test pattern (User tools > Maintenance > ACC > Start).
 - 2). Put the printout on the exposure glass.
 - 3). Put 10 sheets of white paper on top of the test chart.
 - 4). Close the ARDF or the platen cover.
 - 5). Press "Start Scanning" on the LCD panel. The machine starts the ACC.
- 6. Check that the sample image has been copied normally.

Settings Relevant to the Service Contract

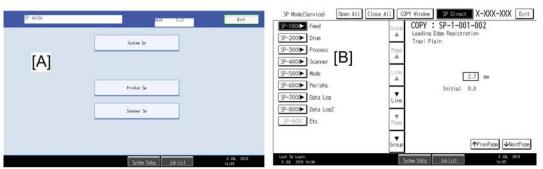
Change the necessary settings for the following SP modes if the customer has made a service contract.



- The SP operation sound can be turned on or off. For details, see "SP Operation Sound On/Off Setting" below.

Item	SP No.	Function	Default
Counting method	SP5-045-001	Specifies if the counting method used in meter charge mode is based on developments or prints.	"0": Developments
A3/11" x 17" double counting	SP5-104-001	Specifies whether the counter is doubled for A3/11" x 17" paper. When you have to change this setting, contact your supervisor.	"No": Single counting
Service Tel. No. Setting	SP5-812-001 through 004	5812-002 programs the service station fax number. The number is printed on the counter list when the meter charge mode is selected. This lets the user fax the counter data to the service station.	

SP Operation Sound On/Off Setting



d086i120

To turn off the SP Operation Sound

- 1. Enter the SP mode.
- 2. On the top menu screen [A], hold down the "Clear/Stop" button until you hear a beep sound. This turns off the SP operation sound.
- 3. No SP operation sound can be heard in all levels [B] (SPx, SPx-xxx and SPx-xxx-xxx) of the SP mode.

To turn on the SP Operation Sound

- 1. Enter the SP mode.
- 2. On the top menu screen [A], hold down the "Clear/Stop" button again until you hear a beep sound. This turns on the SP operation sound.
- 3. SP operation sound can be heard in all levels [B] (SPx, SPx-xxx and SPx-xxx-xxx) of the SP mode.

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 SP5816-201 in the mainframe must be "0".
- 2. Device ID2 (SP5811-003) 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 (SP5811-003) and the serial number (SP5811-001) must be the same (e.g. ID2:
 A01______23456789 = serial No. A0123456789)
- 3. The following settings must be correctly programmed.
 - Proxy server IP address (SP5816-063)
 - Proxy server Port number (SP5816-064)

- Proxy User ID (SP5816-065)
- Proxy Password (SP5816-066)
- 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 SP5816-202.
- 3. Confirm the Request number, and then click [EXECUTE] with SP5816-203.
- 4. Check the confirmation result with SP5816-204.

Value	Meaning	Solution/Workaround	
0	Succeeded	-	
1	Request number error	Check the request number again.	
3	Communication error (proxy enabled)	Check the network condition.	
4	Communication error (proxy disabled)	Check the network condition.	
5	Proxy error (Illegal user name or password)	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 executing	Processing Please wait.	

- 5. Make sure that the screen displays the Location Information with SP5816-205 only when it has been input at the Center GUI.
- 6. Click [EXECUTE] to execute the registration with SP5816-206.
- 7. Check the registration result with SP5816-207.

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.

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

8. Exit the SP mode.

SP5816-208 Error Codes

Cause	Code	Meaning	Solution/Workaround
	-12002	Inquiry, registration attempted without acquiring Request No.	Obtain a Request Number before attempting the Inquiry or Registration.
	-12003	Attempted registration without execution of a confirmation and no previous registration.	Perform Confirmation before attempting the Registration.
Operation Error, Incorrect Setting	-12004	Attempted setting with illegal entries for certification and ID2.	Check ID2 of the mainframe.
	-12005	@Remote communication is prohibited. The device has an Embedded RC gate-related problem.	Make sure that "Remote Service" in User Tools is set to "Do not prohibit".
	-12006	A confirmation request was made after the confirmation had been already completed.	Execute registration.

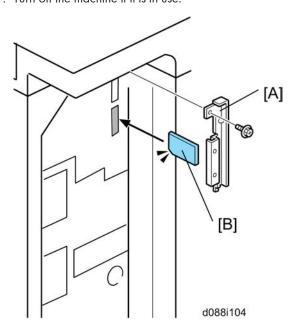
Cause	Code	Meaning	Solution/Workaround
	-12007	The request number used at registration was different from the one used at confirmation.	Check Request No.
	-12008	Update certification failed because mainframe was in use.	Check the mainframe condition. If the mainframe is in use, try again later.
Operation Error, Incorrect Setting	-12009	ID2 mismatch between an individual certification and NVRAM	Write a common certification, and then execute the confirmation request to the @Remote Center.
	-12010	Certification area is not initialized.	Write a common certification after initializing the certification
	-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
Error Caused by	-2392	Parameter error	
Response from GW URL	-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.

VM Card Installation

The App2Me application must be enabled before it can be used. The VM SD card including App2Me is provided with the main machine.

Do the following procedure if a customer wants to use "App2Me".

1. Turn off the machine if it is in use.



- 2. Remove the SD slot cover [A] (*x 1).
- 3. Insert the VM SD card [B] in slot 2.
- 4. Attach the SD slot cover [A] (> x 1).
- 5. Turn on the machine.

Enabling App2Me

The following procedure basically should be done by a customer.

- 1. Press the [User Tools] key on the operation panel.
- 2. Touch the "Extended Feature Settings" button twice.
- 3. Touch the "App2Me" line under the Startup Setting tab.
- 4. Touch the "Extended Feature Info" tab on the LCD.
- 5. Touch the "App2Me" line.
- 6. Set "Auto Start" to "On".
- 7. Touch the "Exit" button.

8. Exit the "User Tools" settings.



Do not remove the VM card from Slot 2 (lower slot). The VM card must remain in the machine.

Moving the Machine

This section shows you how to manually move the machine from one floor to another floor. See the section "Transporting the Machine" if you have to pack the machine and move it a longer distance.

1. Remove all trays from the optional paper feed unit or LCT.

Transporting the Machine

Main Frame

- 1. Do SP 4806-001 to move the scanner carriage from the home position. This prevents dust from falling into the machine during transportation.
- 2. Remove the toner cartridges. 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.
- 3. Make sure there is no paper left in the paper trays. Then fix down the bottom plates with a sheet of paper and tape.
- 4. Empty the toner collection bottle. Then attach securing tape to stop the toner bottle from coming out.
- 5. Do one of the following:
 - Attach shipping tape to the covers and doors.
 - Shrink-wrap the machine tightly.



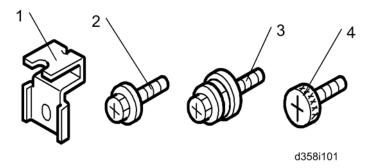
- After you move the machine, make sure you do the "Auto Color Registration" as follows. This optimizes
 color registration.
- 1. Do the "Forced Line Position Adj. Mode c" (SP2-111-3).
- 2. Then do the "Forced Line Position Adj. Mode a" (SP2-111-1).
 To check if SP 2-111-1 was successful, watch the screen during the process. A message is displayed at the end. Also, you can check the result with SP 2-194-10 to -12.
- Make sure that the side fences in the trays are correctly positioned to prevent color registration errors.

Paper Feed Unit PB3080 (D387)

Accessory Check

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

No.	Description	Q'ty
1	Securing bracket	2
2	Screw (M4x10)	2
3	Spring washer screw	1
4	Knob screw	3



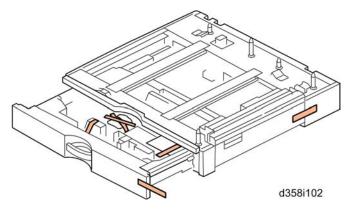
Installation Procedure

CAUTION

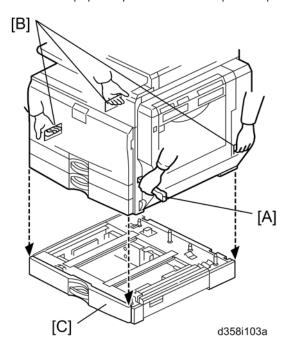
- Turn off the main switch of the copier and unplug the power cord before you start the installation procedure.
- You need two or more persons to lift the copier. The copier is highly unstable when lifted by one person, and may cause human injury or property damage.
- Do not lift the copier with the paper feed unit installed. The handle and grips may be damaged.



- The one-tray paper feed unit must be installed on the caster table (D446). Prepare the caster table first before installing this unit.
- The Envelope Feeder EF3000 (D547) cannot be used in this unit. Do not install the Envelope Feeder EF3000 (D547) in this unit.



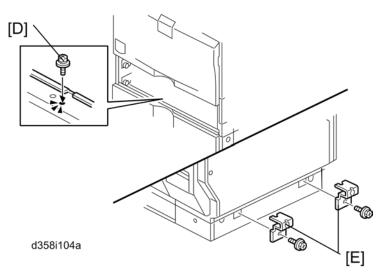
- 1. Remove all tape on the paper feed unit.
- 2. Remove the paper tray and remove all tapes and padding.



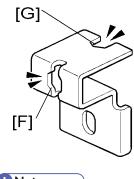
- 3. Grasp the handle [A] and grips [B] of the machine.
- 4. Lift the copier and install it on the paper feed unit [C].



• Hold the handle and grips of the machine when you lift and move the machine.



- 5. Remove tray 1 and 2 of the machine.
- 6. Fasten the spring washer screw [D].
- 7. Reinstall all trays.
- 8. Attach the securing brackets [E] (M4x10; 🛱 x 1 each).

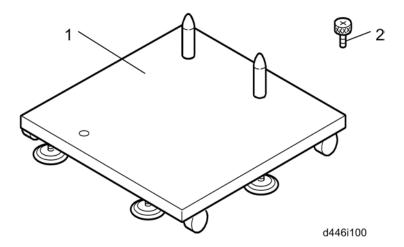


- **U** Note
 - One of the securing brackets is used as a securing tool (the cutout [F] is used in step 6). But the
 cutout [G] is for attaching the tray heater. Therefore, attach the securing brackets [E] after
 installing the tray heater if you install the tray heater.
- 9. Load paper into the paper feed unit.
- 10. Turn on the main power switch of the machine.
- 11. Check the paper feed unit operation and copy quality.

Caster Table Type A (D446)

Component Check

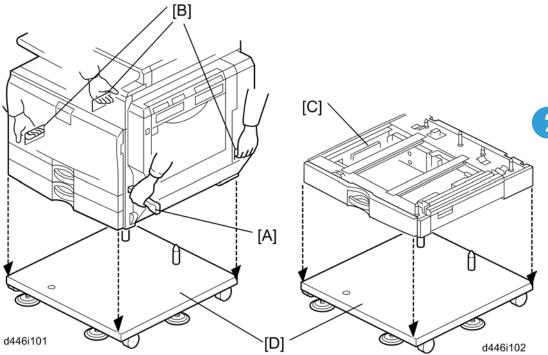
No.	Description	Q'ty
1	Caster Table	1
2	Stud Screw	1



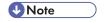
Installation Procedure

1. Put the caster table on a flat place.

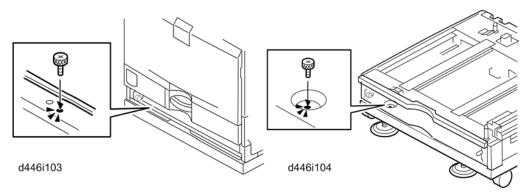
9



- 2. Grasp the handle [A] and grips [B] of the machine, if the copier is to be installed on the caster table.
- 3. Lift the copier or one-tray paper feed unit [C], and then install it on the caster table [D].



- Hold the handle and grips of the machine when you lift and move the machine.
- 4. Pull out tray 2 of the mainframe or the tray of the one-tray paper feed unit.



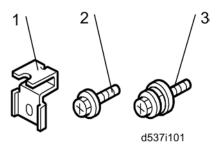
- 5. Secure the machine or one-tray paper feed unit to the caster table (stud screw x 1)
- 6. Reinstall the tray in the mainframe or one-tray paper feed unit.
- 7. Adjust the five leveling adjustors of the caster table.

Accessory Check

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

Paper Feed Unit PB3010 (D537)

No.	Description	Q'ty
1	Securing bracket	2
2	Screw (M4x10)	2
3	Spring Washer Screw	1

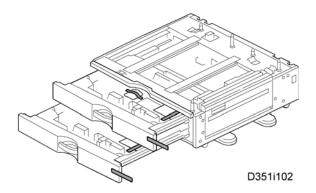


Installation Procedure

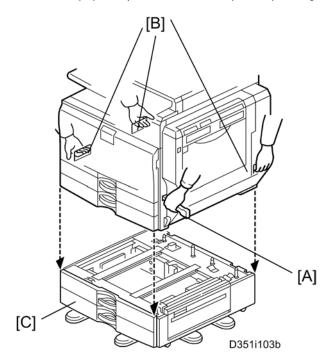
ACAUTION

- Turn off the main switch of the copier and unplug the power cord before you start the installation procedure.
- You need two or more persons to lift the copier. The copier is highly unstable when lifted by one person, and may cause injury or property damage.
- Do not lift the copier with the paper feed unit installed. The handle and grips may be damaged.

2



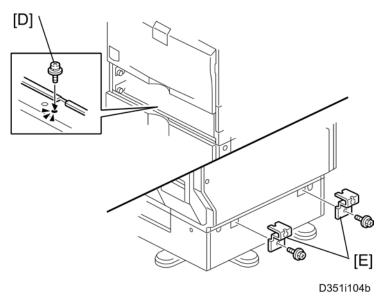
- 1. Remove all tape on the paper feed unit.
- 2. Remove the paper trays and remove all tape and padding.



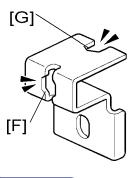
- 3. Grasp the handle [A] and grips [B] of the machine.
- 4. Lift the copier and install it on the paper feed unit [C].



• Hold the handle and grips of the machine when you lift and move the machine.



- 5. Remove trays 1 and 2 of the machine.
- 6. Fasten the spring washer screw [D].
- 7. Reinstall all trays.
- 8. Attach the securing brackets [E] (> x 1 each; M4x10).



- **U** Note
 - One of the securing brackets is used as a securing tool (the cutout [F] is used in step 6). But the
 cutout [G] is for attaching the tray heater. Therefore, attach the securing brackets [E] after
 installing the tray heater if you install the tray heater.
- 9. Load paper into the paper feed unit.
- 10. Turn on the main power switch of the machine.
- 11. Check the paper feed unit operation and copy quality.

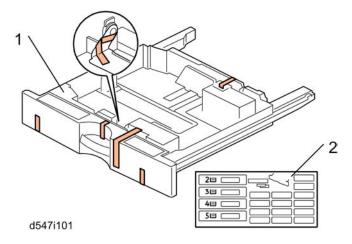
2

Envelope Feeder EF3000 (D547)

Accessory Check

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

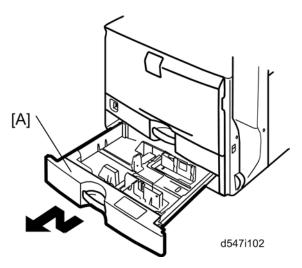
No.	Description	Q'ty
1	Envelope feeder	1
2	Paper size decal	1



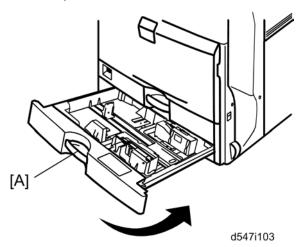
Installation Procedure



- This tray can be installed in tray 2 of the copier, or tray 3 or tray 4 of the paper feed unit (D537).
- There is no automatic paper size detection in the envelope feeder (D547). Adjust the paper size for the tray where the envelope feeder is to be installed with User Tools.
- 1. Remove all tape from the envelope feeder.



2. Pull out tray 2 [A] from the main machine.



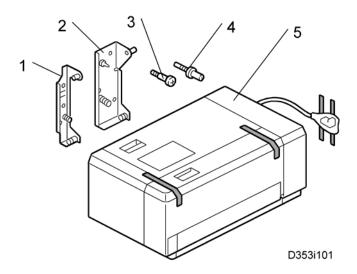
- 3. Install the envelope feeder [A] into tray 2 of the main machine.
- 4. Press the "User/Tools" key on the operation panel.
- 5. Enter "Small Paper Size Tray" under "General Features".
 - Initial Settings > General Features > Small Paper Size Tray
- 6. Select "On" for the tray where the envelope feeder is installed.
- 7. Turn the main machine off and on.

LCIT RT3010 (D539)

Component Check

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

No.	Description	Q'ty
1	Front Bracket	1
2	Rear Bracket	1
3	Stud Screw	4
4	Joint Pin	2
5	LCT	1



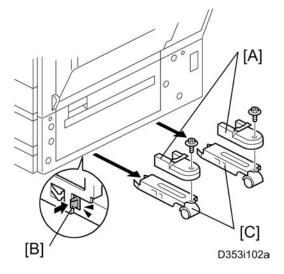
Installation Procedure

ACAUTION

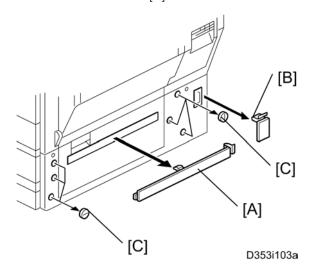
• Unplug the main machine power cord before starting the following procedure.



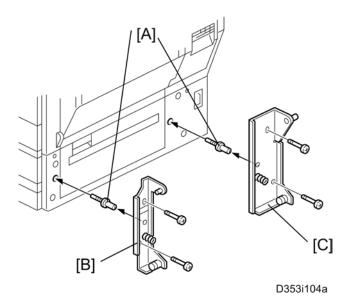
The Paper Tray Unit (D537) or LCT 2000-sheet (D538) must be installed before installing this 1200-sheet LCT.



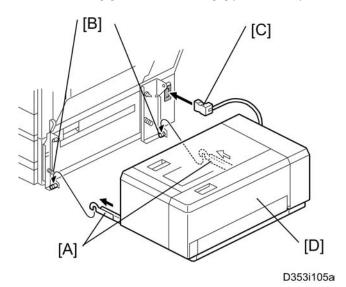
- 1. Unpack the LCT and remove the tapes.
- 2. Remove the stand covers [A].
- 3. Release the locks [B] of the front and rear caster stands.
- 4. Remove the caster stands [C].



5. Remove the paper path cover [A], connector cover [B] and six hole covers [C].



- 6. Insert the joint pins [A].
- 7. Attach the front [B] and rear brackets [C] (** x 2 each).

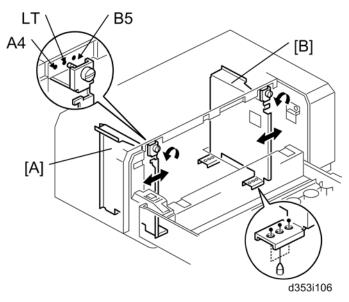


- 8. Pull out the front and rear rails [A], and then hang them on each bracket [B].
- 9. Connect the LCT cable [C] to the main machine.
- 10. Slide the LCT [D] into the main machine.
- 11. Make sure that the front and rear sides of the LCT are closely attached to the main machine.

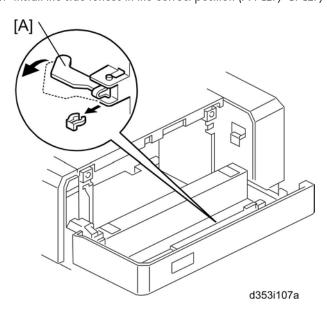
2

Side Fence Position Change

- 1. Open the right door of the LCT.
- 2. Push the down switch to lower the tray bottom plate until it reaches its lowest position.



- 3. Remove the front and rear side fences [A, B] (*x 1 each).
- 4. Install the side fences in the correct position (A4 LEF/ LT LEF/ B5 LEF).



5. Pull the end fence [A] for B5 size paper as shown (🖾 x 1) if the side fences are adjusted for B5 size paper.

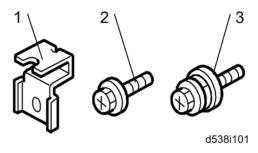
- 6. Close the right door.
- 7. Turn on the main power switch, and then go into the SP mode.
- 8. Input the correct paper size for the 1200-sheet LCT with SP5181-018.

LCIT PB3110 (D538)

Accessory Check

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

No.	Description	Q'ty
1	Securing bracket	2
2	Screw (M4x10)	2
3	Spring washer screw	1

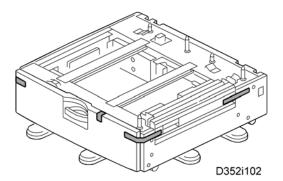


Installation Procedure

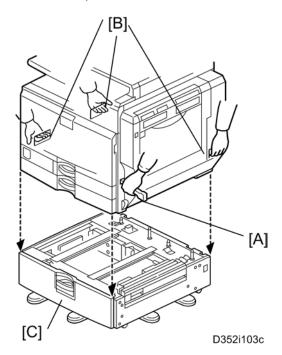
ACAUTION

- Turn off the main switch of the copier and unplug the power cord before you start the installation procedure.
- You need two or more persons to lift the copier. The copier is highly unstable when lifted by one
 person, and may cause injury or property damage.
- Do not lift the copier with the paper feed unit installed. The handle and grips may be damaged.

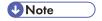
2



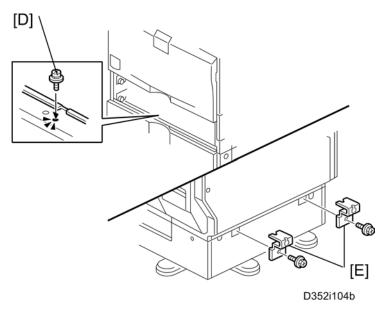
1. Remove all tapes and retainers in the LCT.



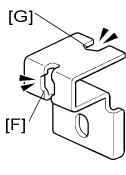
- 2. Grasp the handle [A] and grips [B] of the machine.
- 3. Lift the copier and install it on the LCT [C].



• Hold the handle [A] and grips [B] of the machine when you lift and move the machine.



- 4. Remove trays 1 and 2 of the machine.
- 5. Fasten the spring washer screw [D].
- 6. Reinstall all trays.
- 7. Attach the securing brackets [E] (\nearrow x 1 each; M4x10).





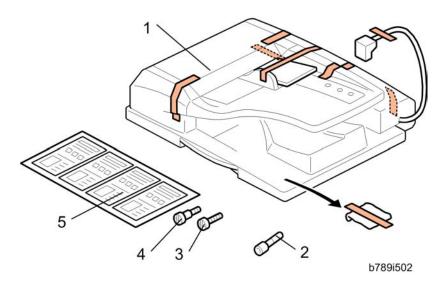
- One of the securing brackets is used as a securing tool (the cutout [F] is used in step 5). But the
 cutout [G] is for attaching the tray heater. Therefore, attach the securing brackets [E] after
 installing the tray heater if you install the tray heater.
- 8. Load paper into the LCT.
- 9. Turn on the main power switch of the machine.
- 10. Check the LCT operation and copy quality.

ARDF DF3050 (D541)

Component Check

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

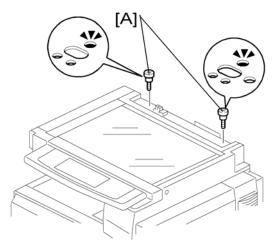
No.	Description	Q'ty
1	ARDF	1
2	Stamp Cartridge	1
3	Knob Screw	2
4	Stud Screw	2
5	Attention Decal – Top Cover	1



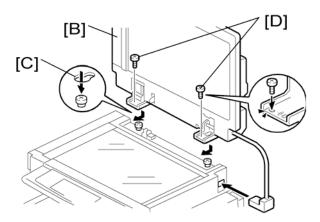
Installation Procedure

ACAUTION

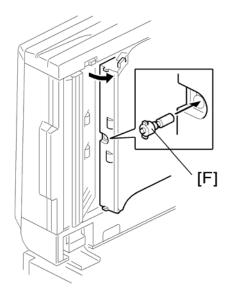
• Unplug the copier power cord before starting the following procedure.



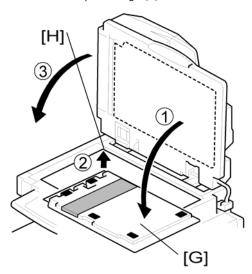
- 1. Remove all tapes and shipping retainers.
- 2. Remove the two screws already installed at the top rear of the machine.
- 3. Insert the two stud screws [A] on the top of the machine.



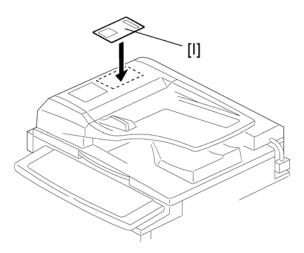
- 4. Mount the ARDF [B] by aligning the screw keyholes [C] in the ARDF support plate over the stud screws.
- 5. Slide the ARDF toward the front of the machine.
- 6. Secure the ARDF with the two knob screws [D].



7. Install the stamp cartridge [F] in the ARDF.



- 8. Peel off the platen sheet [G] and place it on the exposure glass.
- 9. Align the rear left corner of the platen sheet with the corner [H] on the exposure glass.
- 10. Close the ARDF.
- 11. Open the ARDF and check that the platen sheet is correctly attached.



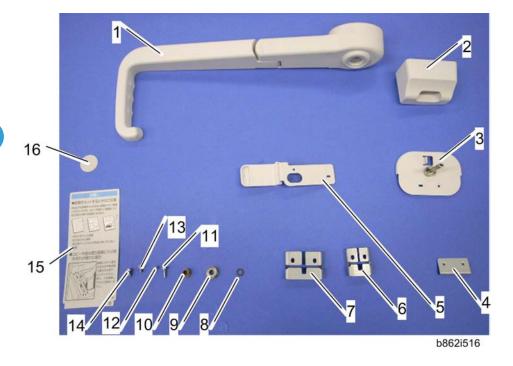
- 12. Attach the decal [I] to the top cover as shown. Choose the language you want.
- 13. Plug in and turn on the main power switch of the machine, and then check the ARDF operation.
- 14. Make a full size copy. Check that the registrations (side-to-side and leading edge) and image skew are correct. If they are not, adjust the registrations and image skew referring to "Copy Adjustments" in the "Replacements and Adjustments" section.

ADF Handle Type B (D366)

Component Check

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

No.	Description	Q'ty
1	Handle Unit	1
2	Holder	1
3	Stud Bracket	1
4	Securing Bracket	1
5	Handle Bracket	1
6	Hinge Stopper - Right	1
7	Hinge Stopper - Left	1
8	Spacer	1
9	Bushing: M6	1
10	Bushing: 6MM	1
11	Tapping Screw: M3 x 12	2
12	Tapping Screw (Self Binding): M3 x 12	2
13	Screw: M3 x 8	3
14	Tapping Screw: M4 x 8	4
15	Operation Decal	1
16	Stud Decal	1



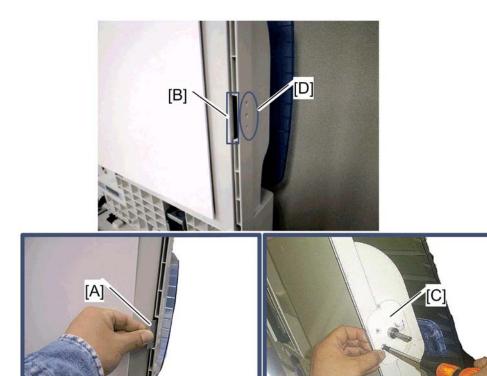
Installation Procedure

ACAUTION

• Turn off the main switch of the copier and unplug the power cord before you start the installation procedure.

Preparing before Installing the DF Handle

1. Open the ADF unit.

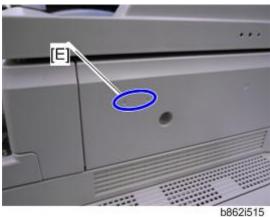


b862i501

- 2. Hold the securing bracket [A] at the location [B], inside the ADF cover.
- 3. Secure the stud bracket [C] to the outside of the ADF cover at location [D] with two screws (\mathscr{F} x 2: M3x8).

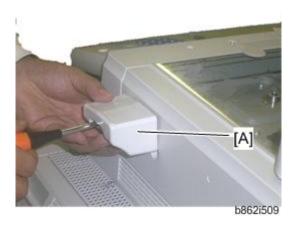


• The two screws must go through the ADF cover and the securing bracket [A].



4. Make two screw holes [E] in the scanner right cover with an M3x12 tapping screw from the accessories.

Installing the DF Handle

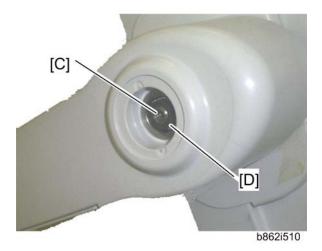


- 1. Attach the holder [A] to the scanner right cover (Tapping Screw M3x12: ${\mathscr{F}}$ x 2).
 - At first, secure the screw at the rear side (away from the operation panel) temporarily and then at the front side temporarily. After that, secure them fully.



b862i513

- 2. Install the bushing: 6MM [B] in the inside of the handle unit.
- 3. Attach the handle unit to the stud bracket on the left side of the ADF.



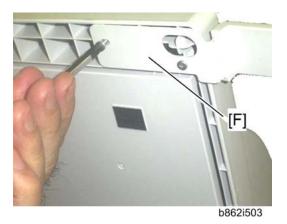
4. In the outside of the handle unit, install the bushing - M6 [C] first, and then the spacer [D].



5. Secure the handle unit with a screw (\mathscr{F} x 1: M3x8).



6. Clean the handle unit with alcohol. Then attach the stud decal [E] at the location that was cleaned.



- 7. Attach the handle bracket [F] at the front right side on the bottom of the ADF unit (Tapping Screw [Self Binding] x 2: M3x12).
- 8. Close the ADF unit.



9. Attach the hinge stoppers (left [G] and right [H]) to the left and right hinges (Tapping screw x 2: M4x8 each).



b862i505

10. Clean the front side of the duplex unit with alcohol. Then attach the operation decal [I] at the location that was cleaned.



b862i506

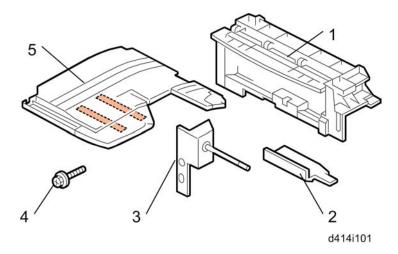
11. Check the operation of the handle unit [J].

1 Bin Tray BN3080 (D536)

Component Check

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

No.	Description	Q'ty
1	1 Bin Tray Unit	1
2	End-fence	1
3	Tray Support Bar	1
4	Screws (M3 x 16)	2
5	Tray	1



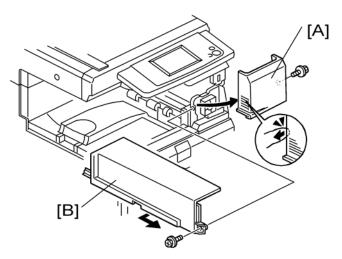
Installation Procedure

ACAUTION

• Unplug the copier power cord before starting the following procedure.

If the bridge unit (D386) or side tray (D542) has already been installed in the machine, remove it before installing 1 bin tray unit (D536). This will make it easier for you to do the following procedure.

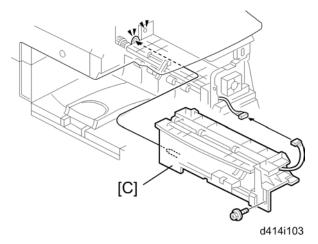
- 1. Remove all tapes.
- 2. Open the right door of the machine.



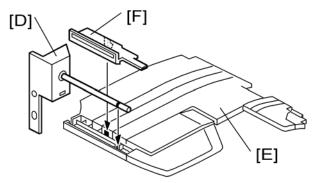
- 3. Remove the front right cover [A] (> x 1).
- 4. Remove the inner cover [B] (> x 1).



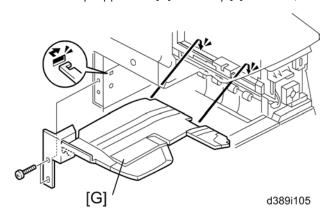
• Keep this screw for step 5.



5. Install the 1 bin tray unit [C] (\square x 1, \nearrow x 1, \square x 1 [This screw was removed in step 4]).



6. Attach the tray support bar [D] to the tray [E] as shown, and then attach the end-fence [F].



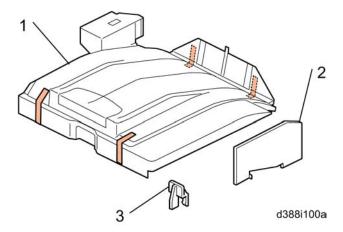
- 7. Install the tray [G] (with the tray support bar) in the machine (M3 x 16: \Re x 2).
- 8. Reinstall the front right cover in the machine, and then close the right door of the machine.
- 9. Turn on the main power switch of the machine.
- 10. Check the 1 bin tray unit operation.

Internal Shift Tray SH3040 (D388)

Component Check

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

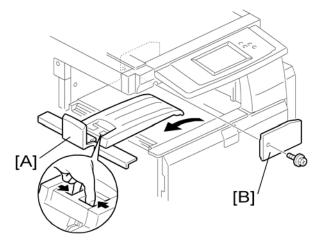
No.	Description	Q'ty
1	Shift Tray Unit	1
2	Paper Guide - Small	2
3	Connector Cover	1



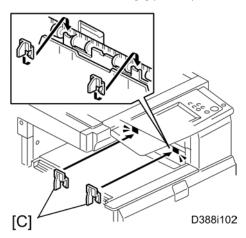
Installation Procedure

ACAUTION

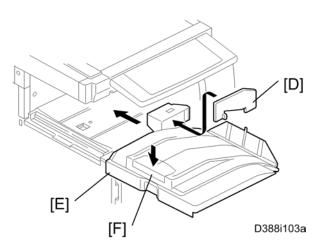
• Unplug the copier power cord before starting the following procedure.



- 1. Remove all tapes.
- 2. Remove the standard tray [A].
- 3. Remove the inner cover [B] (** x 1).



4. Install the small paper guides [C].



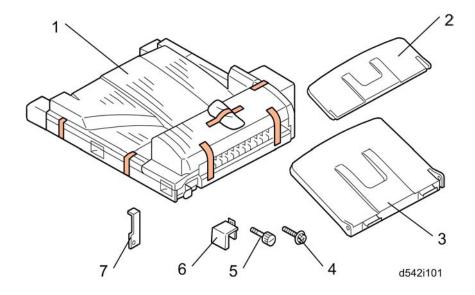
- 5. Attach the connector cover [D] to the shift tray unit [E].
- 6. Install the shift tray unit [E] to the machine.
- 7. Push down the left edge [F] of the shift tray.
- 8. Turn on the main power switch of the machine.
- 9. Check the shift tray unit operation.

Side Tray Type C5501 (D542)

Component Check

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

No.	Description	Q'ty
1	Side Tray Unit	1
2	Sub Output Tray	1
3	Main Output Tray	1
4	Screw	1
5	Knob screw	1
6	Frame Cover	1
7	Holder bracket	1



Installation Procedure

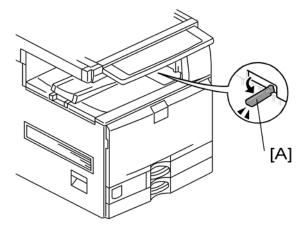


ACAUTION

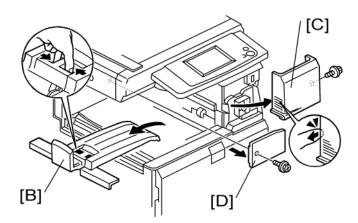
• Turn off the main switch of the copier and unplug the power cord before you start the installation procedure.



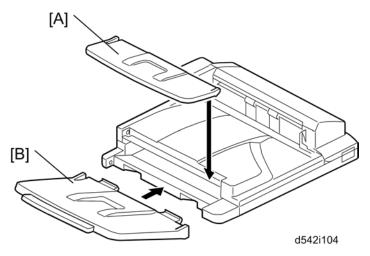
• If you will install the 1-bin tray (D536) on the machine, install the 1-bin tray first before installing the side tray (D542). This makes it easier to do the following procedure.



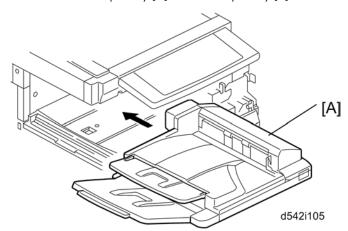
- 1. Remove all tapes.
- 2. If the sensor feeler [A] is out, fold it into the machine.
- 3. Open the right door of the machine.



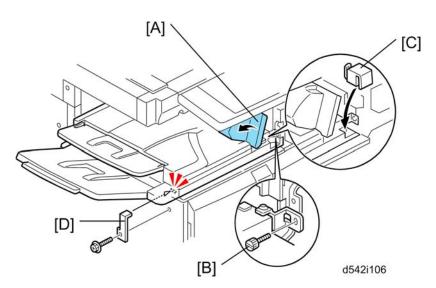
- 4. Remove the inner tray [B].
- 5. Remove the front right cover [C] (*x 1).
- 6. Remove the connector cover [D] (*\begin{align*} x 1).



7. Attach the main output tray [A] and sub output tray [B] to the side tray unit.



8. Install the side tray unit [A] in the machine.



- 9. Open the side tray cover [A].
- 10. Secure the side tray unit with the knob screw [B].
- 11. Attach the frame cover [C].
- 12. Reinstall the front right cover to the machine, and then close the right door of the machine.



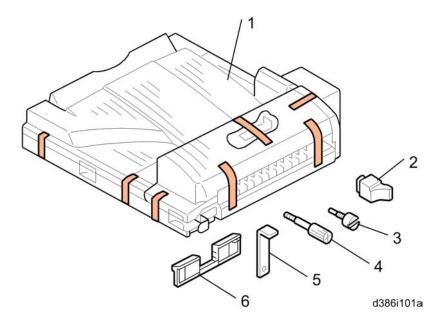
- Open the side tray cover [A] when installing the front right cover. Otherwise, you cannot reinstall it
- 13. Install the holder bracket [D] (F x 1)
- 14. Turn on the main power switch of the machine.
- 15. Check the side tray operation.

Bridge Unit BU3030 (D386)

Component Check

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

No.	Description	Q'ty
1	Bridge Unit	1
2	Frame Cover	1
3	Knob screw	1
4	Long knob screw	1
5	Holder bracket	1
6	Guide	2



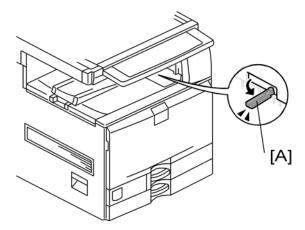
Installation Procedure

ACAUTION

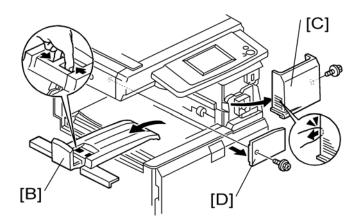
• Unplug the copier power cord before starting the following procedure.

U Note

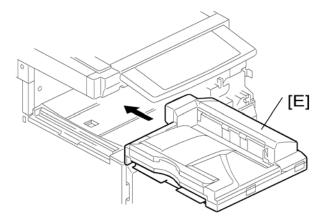
- 1. If you will install the 1-bin tray (D536) in the machine, install the 1-bin tray before you install the bridge unit (D386). This will make it easier for you to do the following procedure.
- 2. If you will install a finisher (B408, B804 or B805) in the machine, install the finisher after you install the bridge unit (D386).
- 1. Remove all tapes.



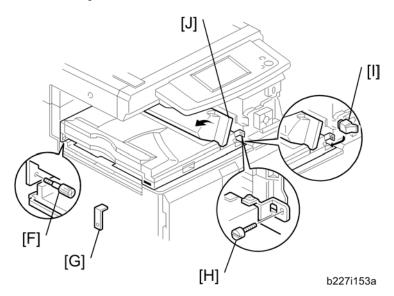
- 2. If the sensor feeler [A] is out, fold it into the machine.
- 3. Open the right door of the machine.



- 4. Remove the inner tray [B].
- 5. Remove the front right cover [C] (*x 1).
- 6. Remove the connector cover [D] (*\begin{align*} x 1).



7. Install the bridge unit [E] in the machine.



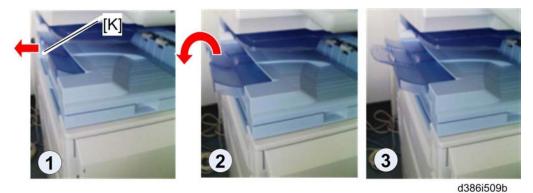
- 8. Secure the bridge unit with the knob screw [F] and screw [H].
- 9. Attach the frame cover [1].
- 10. Reinstall the front right cover in the machine. Then close the right door of the machine.



- Open the bridge unit cover [J] when installing the front right cover. Otherwise, the bridge unit cover is an obstacle for attaching the front right cover.
- 11. Install the optional finisher (refer to the finisher installation procedure).



• If you will not install the finisher at this time, install the holder bracket [G]. Otherwise, the customer will damage the bridge unit if they pull up the bridge unit tray. When you install the finisher, you will need this bracket during the installation procedure.



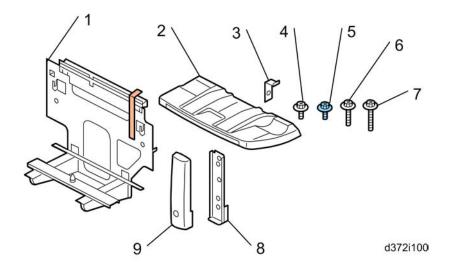
- 12. Pull the extension tray [K] only if the 1000-sheet finisher (B408) is to be installed in the main machine.
- 13. Turn on the main power switch of the machine.
- 14. Check the bridge unit operation.

Finisher SR3050 (D372)

Accessory Check

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

No	Description	Q'ty
1	Unit Holder	1
2	Shift Tray	1
3	Holder Bracket	1
4	Screw: M3 x 8	4
5	Screw: M3 x 6	1
6	Screw: M4 x 14	4
7	Screw: M4 x 20	4
8	Support Bracket	2
9	Support Bracket Cover	2



9

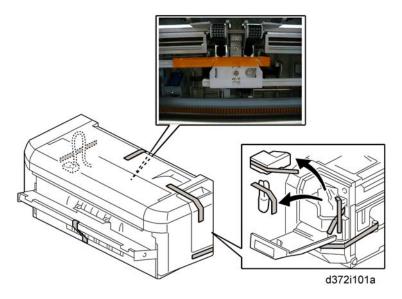
Installation Procedure

ACAUTION

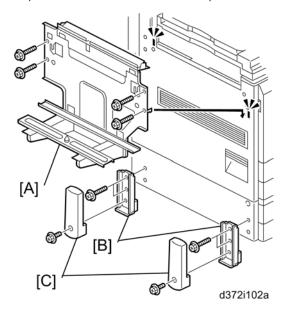
• Unplug the main machine power cord before starting the following procedure.



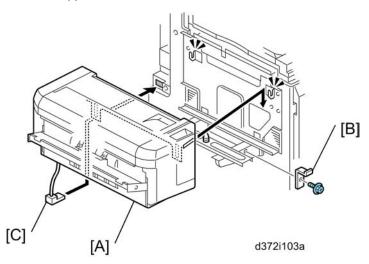
• Before you install the 500-sheet finisher, the optional bridge unit (D386) must be installed.



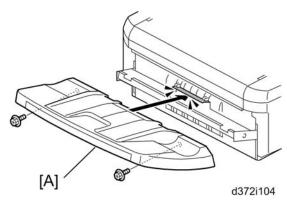
1. Unpack the finisher and remove the tapes.



- 2. Install the unit holder [A] (\nearrow x 3 M4 x 14).
- 3. Install the support brackets [B] ($\rlap{/}P \times 2$ each: M4 \times 20)
- 4. Install the support bracket covers [C] ($\mbox{\ensuremath{\not{p}}}\xspace x 1 each: M3 x 8)$



- 5. Install the 500-sheet finisher [A].
- 6. Install the holder bracket [B] (** x 1; M3 x 6).
- 7. Connect the finisher cable [C].



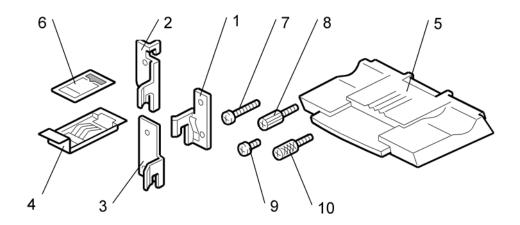
- 8. Install the shift tray [A] (** x 2 M3 x 8).
- 9. Turn on the main power switch and check the finisher operation.

SR790 (B408)

Accessory Check

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

No.	Description	Q'ty
1	Front Joint Bracket	1
2	Rear Joint Bracket (Not used)	1
3	Rear Joint Bracket	1
4	Grounding Plate	1
5	Сору Тгау	1
6	Staple Position Decal	1
7	Screw - M4 x 14	4
8	Knob Screw - M4 x 10	1
9	Screw - M3 x 8	1
10	Knob Screw - M3 x 8	1



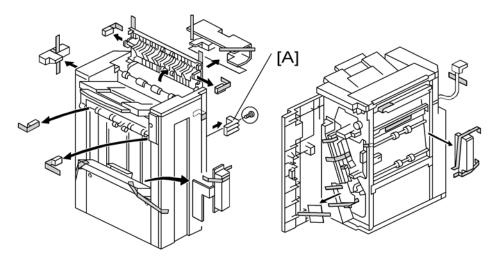
Installation Procedure

CAUTION

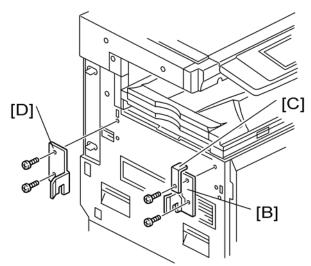
• Unplug the main machine power cord before starting the following procedure.

If this finisher will be installed on the D086 or D087 copier, the following options must be installed before installing this finisher.

- Bridge Unit (D386)
- Paper Feed Unit (D537) or LCT (D538)



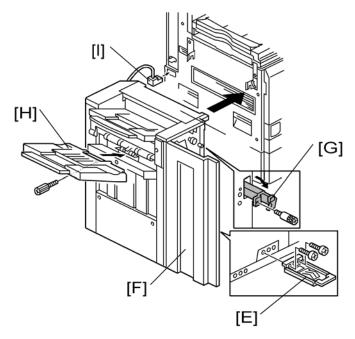
1. Unpack the finisher, and then remove the stopper [A] and tapes (${\it F}$ x 1).



2. Install the front joint bracket [B], holder bracket [C] (> x 2 - M4 x 14), and rear joint bracket [D] (> x 2 - M4 x 14).



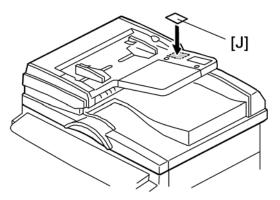
• The holder bracket [C] must be placed outside the front joint bracket [B]. The holder bracket is provided with the bridge unit (D386).



1. Install the grounding plate [E] on the finisher (** x 2 - M3 x 8).



- Use the screw removed in step 1 and the screw from the accessory box.
- 2. Open the front door [F] of the finisher, and then pull the locking lever [G] (1 knob screw M3 x 8).
- 3. Align the finisher on the joint brackets, and lock it in place by pushing the locking lever.
- 4. Secure the locking lever (1 knob screw M3 x 8).
- 5. Close the front door.
- 6. Install the copy tray [H] (1 knob screw M4 x 10).
- 7. Connect the finisher cable [1] to the main machine below the right rear handle.



- 8. Attach the staple position decal [J] to the ARDF as shown.
- 9. Turn on the main power switch and check the finisher operation.

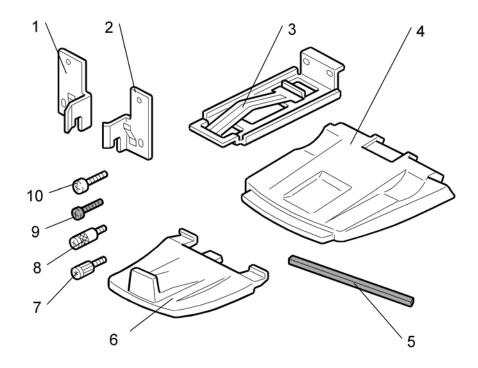
9

Booklet Finisher SR3000 (B793)

Accessory Check

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

No.	Description	Q'ty
1	Rear Joint Bracket	1
2	Front Joint Bracket	1
3	Grounding Plate	1
4	Upper Output Tray	1
5	Cushion	2
6	Lower Output Tray	1
7	Short Knob Screw	1
8	Long Knob Screw	1
9	Screw (M3 x 8)	2
10	Screw (M4 x 14)	4

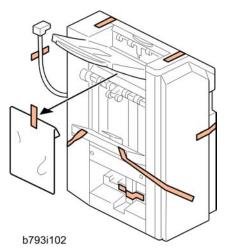


Installation Procedure

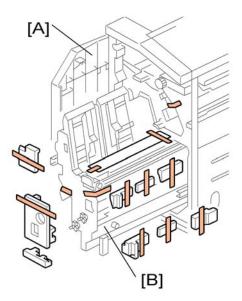
ACAUTION

• Unplug the main machine power cord before starting the following procedure.

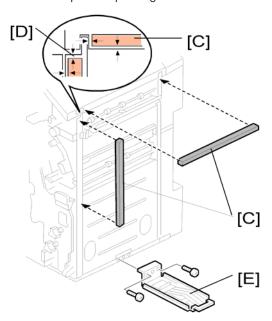
The bridge unit (D386) and optional paper feed unit (D537 or D538) must be installed before installing this finisher (B793).







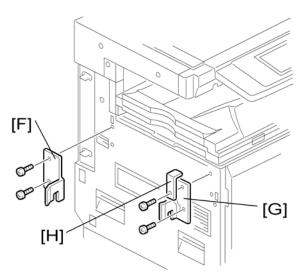
- 2. Open the front door [A] of the 1000-sheet booklet finisher, and then pull out the jogger unit [B].
- 3. Remove all tapes and packing materials from the inside of the finisher.



4. Attach the cushions [C] to the finisher.



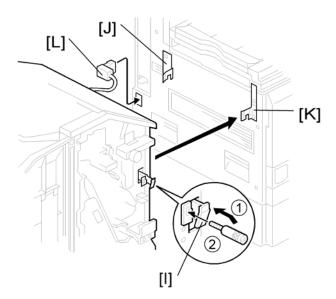
- Make sure that the cushions are placed within 0 to 1 mm [D] from the edge of the cover or frame.
- 5. Install the ground plate [E] on the finisher (\mathcal{F} x 2; M3 x 8).



- 6. Attach the rear joint bracket [F] (> x 2, M4 x 14).
- 7. Attach the front joint bracket [G] and the holder bracket [H] (** x 2; M4 x 14).

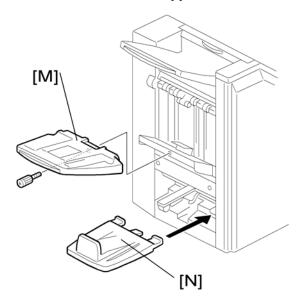


• The holder bracket [H] must be placed outside the front joint bracket [G]. The holder bracket is provided with the bridge unit (D386).



- 8. Pull the lock lever [1] (Long knob screw x 1).
- 9. Slowly push the finisher to the left side of the machine, keeping its front door open until the brackets [J] [K] go into their slots.
- 10. Push the lock lever [1], and then secure it (Long knob screw x 1).

- 11. Close the front door of the finisher.
- 12. Connect the finisher connector [L] to the machine.



- 13. Install the upper output tray [M] (Short knob screw x 1).
- 14. Install the lower output tray [N].
- 15. Turn on the main power switch of the machine.
- 16. Check the 1000-sheet booklet finisher operation.

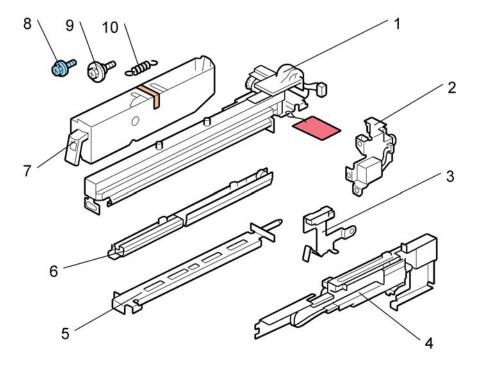
Punch Kit PU3000 (B807)

Component Check

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

No.	Description	Q'ty
1	Punch Unit	1
2	Punch Drive Motor	1
3	Hopper Full Sensor Arm	1
4	Sub-scan Registration Sensor Unit	1
5	Punch Unit Stay	1
6	Sub-scan Registration Sensor Guide	1
7	Hopper	1
8	Screw	8
9	Step Screw	1
10	Spring	1

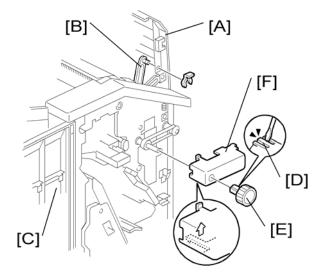
9



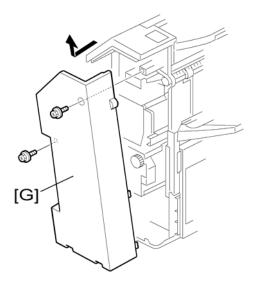
Installation

ACAUTION

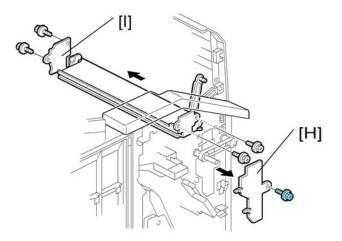
• Unplug the main machine power cord before starting the following procedure. If the 1000-sheet booklet finisher has been installed, disconnect it and pull it away from the machine.



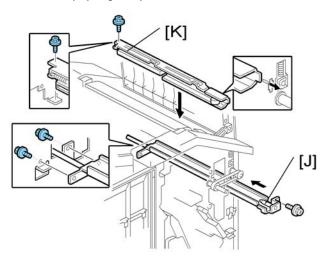
- 1. If the finisher is connected to the machine, disconnect it.
- 2. Open the top cover [A] and then release the guide arm [B] ($\overline{ \mathfrak{O}} \times 1$).
- 3. Open the front door [C].
- 4. Pull the hook [D] up then remove the knob [E].
- 5. Timing belt cover [F].



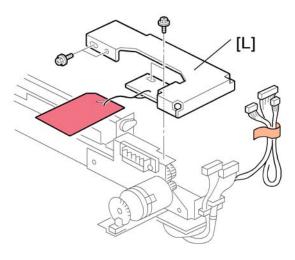
6. Rear cover of the 1000-sheet booklet finisher [G] (\nearrow x 2).



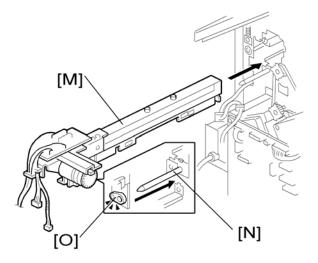
- 7. Cover bracket [H] (🌶 x 1)
- 8. Remove the paper guide plate [1] from the rear side ($\slash\hspace{-0.4em}P \times 4$).



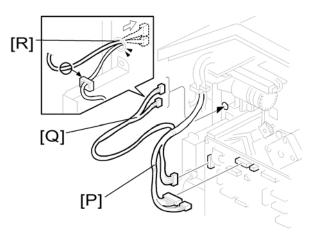
- 9. Install the punch unit stay [J] from the front side ($\slash\hspace{-0.4em}P \times 3$).
- 10. Install the sub-scan registration sensor guide [K] from the top (\mathcal{F} x 1).



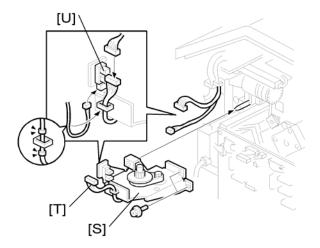
11. Remove the bracket [L] from the punch unit ($\mbox{\ensuremath{\not{p}}}\xspace x$ 1).



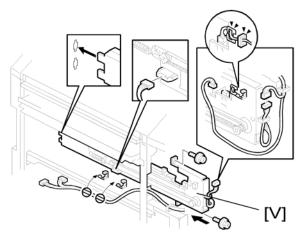
- 12. Install the punch unit [M] along the punch unit stay from the rear side.
- 13. Make sure to put the punch unit stay pin [N] through the hole [O].



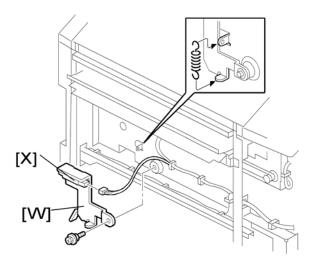
- 14. Connect the harnesses [P] to the main PCB.
- 15. Put the harnesses [Q] through the hole [R] in the rear frame (🖨 x 1).



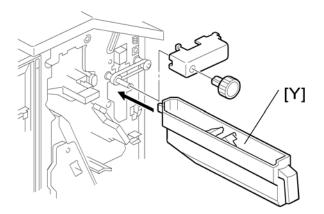
- 16. Install the punch drive motor [S] on the rear frame (F x 2).
- 17. Connect the drive motor harness [T] to the harness from the punch unit ($\Rightarrow x$ 1).
- 18. Connect the home position sensor harness from the punch unit to the home position sensor [U].



- 19. Install the sub-scan registration sensor unit [V] from the rear side (\mathcal{F} x 2).
- 20. Route and connect the harnesses as shown (🖨 x 2).



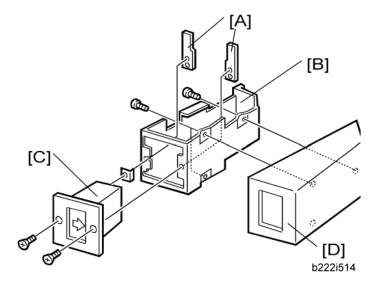
- 21. Install the hopper full sensor arm [W] ($\ref{p} \times 1$, spring x 1).
- 22. Connect the harness from the sub-scan registration sensor unit to the hopper full sensor [X].



- 23. Install the hopper [Y] from the front side.
- 24. Reinstall the timing belt cover and knob.
- 25. Reinstall the rear cover (F x 2).
- 26. Close the front door and top cover.
- 27. Install the 1000-sheet booklet finisher on the copier.
- 28. Plug in and turn on the main power switch.
- 29. Check the 1000-sheet booklet finisher operation.

Key Counter Bracket Type H (A674)

Installation Procedure

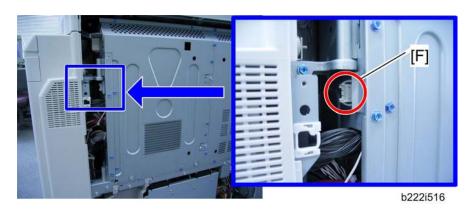


- 1. Hold the key counter plate nuts [A] on the inside of the key counter bracket [B] and insert the key counter holder [C].
- 2. Secure the key counter holder to the bracket ($\mathcal{F} \times 2$).
- 3. Install the key counter cover [D] (\nearrow x 2).
- 4. Rear cover (p. 174)

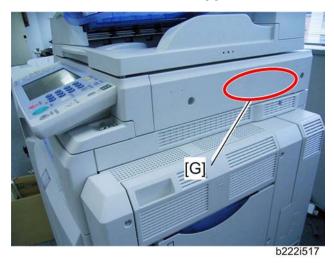


5. Cut off the part [E] of the rear cover.

9



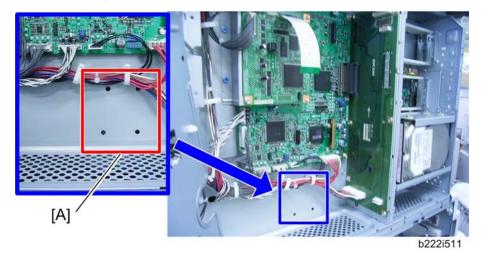
 $\ensuremath{\mathsf{6}}.$ Connect the harness to the connector [F] inside the machine.



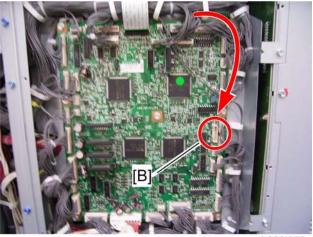
- 7. Peel off double sided tape on the key counter bracket and attach the key counter to the scanner right cover [G].
- 8. Reassemble the machine.

Installation Procedure

- 1. Rear cover (p. 174)
- 2. IOB bracket (** p.309 "Controller Box")



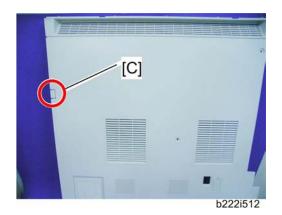
- 3. Install the four stud stays in the location [A] in the controller box.
- 4. Install the key counter interface board on the four stud stays in the controller box.
- 5. Connect the harness to CN3 on the key counter interface board.



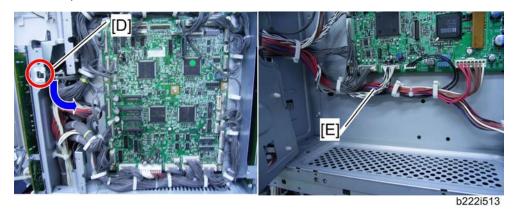
h222i676

6. Close the IOB bracket and connect the other terminal to CN215 [B] on the IOB.

2



7. Cut off the part [C] of the rear cover.



- 9. Route the harness from the counter device in the same way as the other harnesses [E] (🖨 x 3).
- 10. Connect the harness from the counter device to CN4 on the key counter interface board.
- 11. Reattach the IOB bracket (** p.309 "Controller Box").
- 12. Reassemble the machine.

Accessory Check

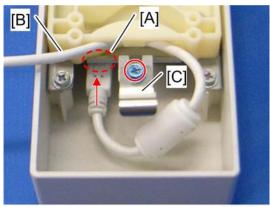
Check the quantity and condition of the accessories against the following list.

USB2.0/SD Slot Type F (D546)

No.	Description	Q'ty
1	USB2.0/SD Slot	1
2	Ground Plate	1
3	USB Cable	1
4	Screw: M3 x 6 blue	1
5	Screw: M3 x 8	4
6	Screw: M3 x 6	1
7	Bracket	1
8	PDF Direct Card* ¹	1

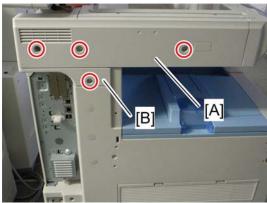
^{* 1:} If the PostScript 3 option is used in this machine, this card is not necessary.

Installation Procedure



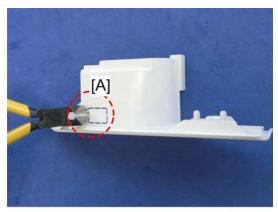
d027i111

- 1. Connect the USB cable [B] to the USB slot [A] in the USB2.0/SD Slot as shown above.
- 2. Attach the ground plate [C] to the bracket of the USB2.0/SD Slot (** x 1: M3x6 blue).



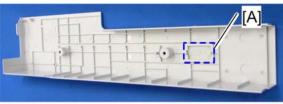
d023i110

- 3. Rear cover of the machine (\mathscr{F} x 8)
- 4. Remove the scanner left cover [A] ($\rat{p} \times 2$).
- 5. Remove the left frame cover [B] ($\ref{p} \times 1$).



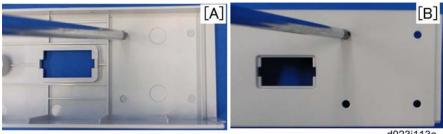
d027i112

- 6. Remove the part [A] of the left frame cover with pliers or a similar tool.
- 7. Reinstall the left frame cover (🗗 x 1).



d023i113

8. Remove the part [A] on the scanner left cover.

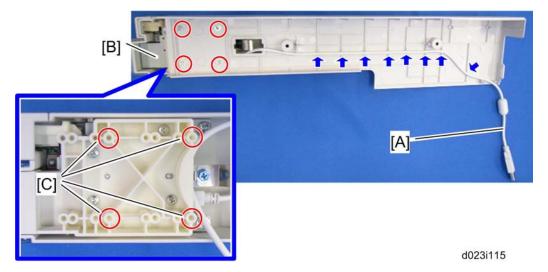


d023i113a

9. Make four holes in the scanner left cover with a screwdriver as shown [A].



• Smooth the four holes in the scanner left cover as shown [B].



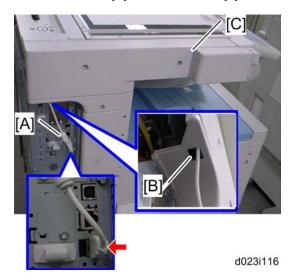
- 10. Route the USB cable [A] through the gaps in the left scanner cover.
- 11. Secure the USB2.0/SD Slot [B] with the left scanner cover as shown above (\nearrow x 4: M3x8).



• Use the screw holes [C] as shown above.



12. Attach the bracket [A] with its two hooks [B] as shown above (*x 1: M3x6).



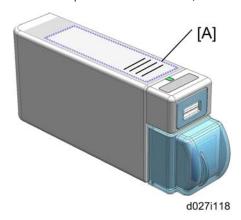
- 13. Put the USB cable [A] through the cutout [B] of the left frame cover.
- 14. Attach the scanner left cover [C] to the mainframe, and then connect the USB cable [A] to USB-A (front side) as shown above.



- Make sure that the USB cable is inserted in USB-A (front side).
- 15. Reinstall the rear cover (F x 8).

If PostScript 3 is already installed, go to step 25. If not, follow the steps from 16 to 24.

- 16. Remove the SD slot cover (> x 1), and move the SD card from slot 1 to slot 2.
- 17. Insert the PDF direct card in slot 1.
- 18. Plug in and turn on the mainframe.
- 19. Enter the System SP mode.
- Move HDD Security Applications (HDD Encryption unit and Data Overwrite Security Unit) from the SD card in slot 2 to the SD card in slot 1 with SP5-873-001 "Move Exec".
- 21. Enter the Scanner SP mode, and then change the setting of SP1013-001 from "0" to "1".
- 22. Enter the Printer SP mode, and then change the setting of SP1110-001 from "0" to "1".
- 23. Exit the SP mode, and then turn off the machine.
- 24. Remove the SD card in slot 2, and then attach the SD slot cover (\mathcal{F} x 1).
 - Keep this card in the safe place (p. 139 "SD Card Appli Move").
- 25. Check the operation of the USB2.0/SD Slot.



26. Attach the decal [A] to the USB2.0/SD Slot as shown above.

Testing the SD Card/USB Slot

- 1. Insert an SD card or USB memory device in the slot.
 - You can connect only one removable memory device at a time.
- 2. Close the media slot cover.
 - If you leave the cover open, static electricity conducted through an inserted SD card could cause the machine to malfunction.
- 3. Make sure that no previous settings remain.
 - If a previous setting remains, press the [Clear Modes] key.
- 4. Place an original on the exposure glass.
- 5. Press [Store File].

- 6. Press [Store to Memory Device].
- 7. Press [OK].
- 8. Press the [Start] key.

When writing is complete, a confirmation message appears.

- 9. Press [Exit].
- 10. Remove the memory device from the media slot.

Do not remove the memory device while writing is in process.

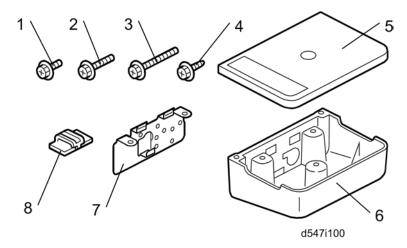
Card Reader Bracket Type C5501 (D547)

Component Check

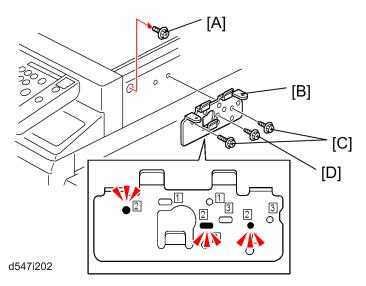
Check the quantity and condition of the accessories against the following list.

No.	Description	Q'ty
1	Screw: M3 x 8	2
2	Screw: M3 x 14	1
3	Screw: M3 x 25* 1	1
4	Tapping Screw: M3 x 10	3
5	Upper Tray	1
6	Lower Tray	1
7	Tray Bracket	1
8	Clamp	5

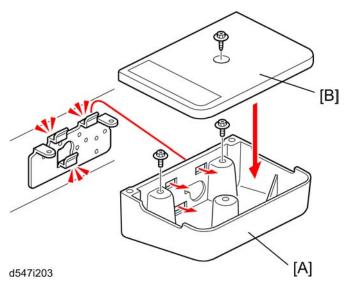
^{* 1:} Not used in this machine



Installation Procedure



- 1. Remove the screw [A] on the scanner right cover.
- 2. Attach the tray bracket [B] to the scanner right cover (\mathcal{F} [C] x 2: M3x10, \mathcal{F} [D] x 1: M3x14).
 - For this model, use the screw holes marked "2" on the table bracket.



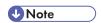
- 3. Attach the lower tray [A] to the tray bracket (*x 2: M3x8).
- 4. Attach the upper tray [B] to the tray bracket (** x 1: M3x8).
- 5. Use the clamps as necessary to clamp the cable of the card read/writer device.



• The smart card reader must be placed on this card reader table. If not, some antenna or transmitter in the main machine may be interrupted.

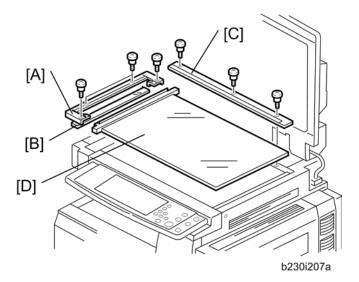
9

Anti-Condensation Heater (Scanner)

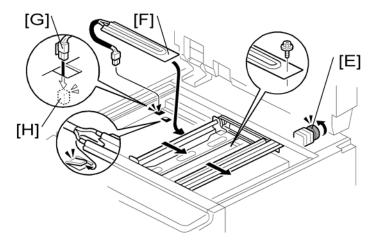


• This option is provided as a service part.

Installation Procedure



- 1. Rear cover (p. 174 in the "Replacement and Adjustment" section)
- 2. Open the ARDF or platen cover.
- 3. Glass cover [A] (* x 4)
- 4. ARDF exposure glass [B]
- 5. Rear scale [C] (*\bigsiz x 3)
- 6. Exposure glass with left scale [D]



- 7. Move the scanner carriage to the right side by rotating the scanner motor [E].
- 8. Install the heater [F] in the scanner unit ($\mbox{\ensuremath{\not\sim}}\ x\ 1$, hook)
- 9. Put the connector [G] through the cutout.
- 10. Connect it to the connector [H] (blue and red cords) in the frame of the machine.
- 11. Reassemble the machine.

2

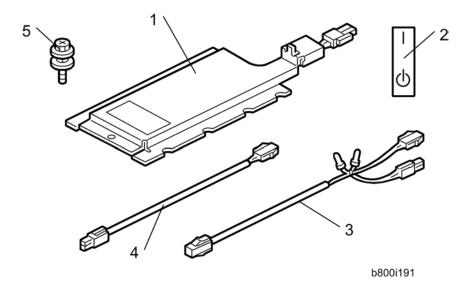
Anti-Condensation Heater Type A



• This option is provided as a service part.

Component Check

No.	Description	Q'ty
1	Tray heater	1
2	On-standby decal	1 (-90) or 2 (-91)
3	Harness 2 (For D387)	1
4	Harness 1 (For D537/D538)	1
5	Screw M4 x 10	2
-	Installation procedure	1



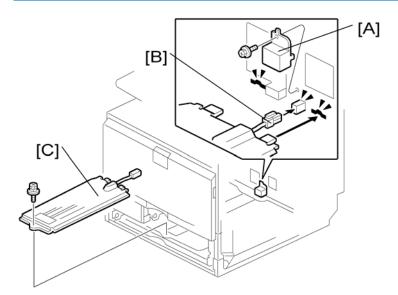
Installation Procedure

ACAUTION

• Unplug the machine power cord before starting the following procedure.

- Do the following procedure not to damage any harnesses.
- Check that all harnesses are not damaged nor pinched after installation.

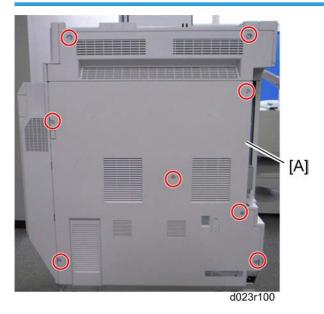
For installing the tray heater in the main machine



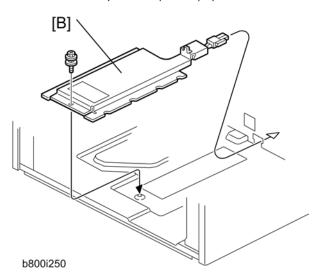
- 1. Remove trays 1 and 2 from the machine.
- 2. Remove the connector cover [A] (*x 1).
- 3. Connect the connector [B] of the heater to the connector of the main machine.
- 4. Install the heater [C] inside the machine ($\mathcal{F} \times 1$).
- 5. Reassemble the machine.

2

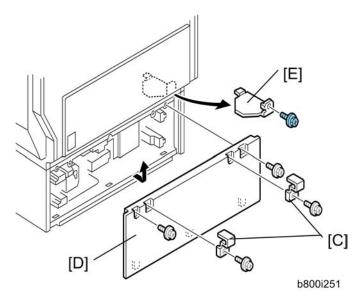
For installing the tray heater in D537



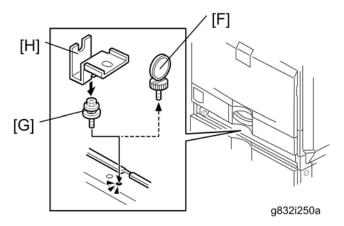
- 1. Rear cover [A] (🗗 x 8)
- 2. Pull out the two trays in the optional paper feed unit.



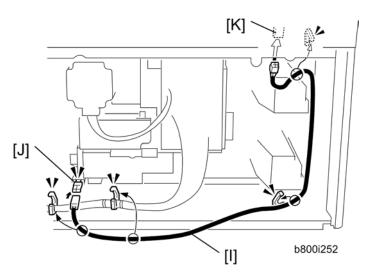
3. Install the tray heater [B] in the optional paper feed unit ($\slash\hspace{-0.4em}P \times 1$).



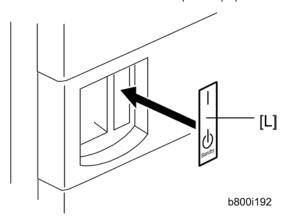
- 4. Remove the two securing brackets [C] (** x 1 each), and then the rear cover [D] of the optional paper feed unit (** x 2).
- 5. Remove the harness cover bracket [E] (\mathcal{F} x 1).



- 6. Pull out tray 2 from the mainframe.
- 7. Replace the shoulder screw [F] with the washer screw [G], using securing bracket [H] (\mathcal{F} x 1).



- 8. Connect the harness [I] to the connector [J] of the tray heater.
- 9. Route the harness [1] as shown and clamp it with four clamps (🖨 x 4).
- 10. Connect the harness [I] to the connector [K] of the mainframe.
- 11. Reassemble the mainframe and optional paper feed unit.



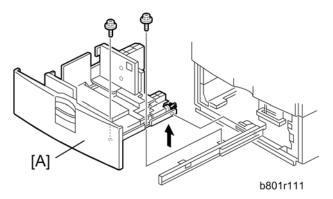
12. Attach the on/standby decal [L] to the right-hand side of the main power switch.

For Installing the Tray Heater in D538

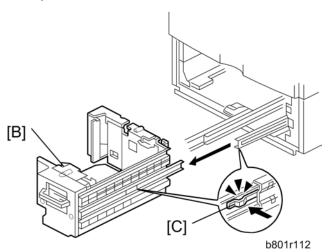
- 1. Remove the rear cover of the mainframe (step 1 in For Installing the Tray Heater in D537).
- 2. Pull out the LCT drawer.



• If the right tray comes out with the left tray, push the right tray into the LCT.



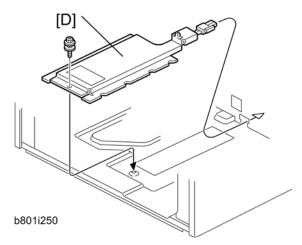
3. Left tray [A] (🔊 x 2)



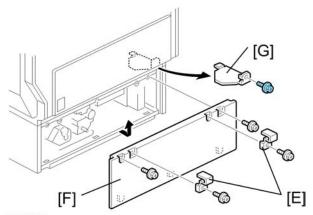
4. Remove the right tray [B] while pressing down the stopper [C].



• When reinstalling the right tray, set the right tray on the guide rail and carefully push the tray in, making sure to keep the tray level.

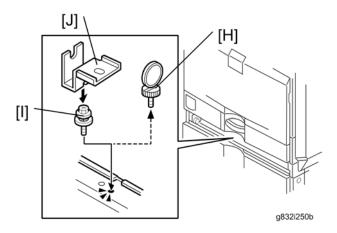


5. Install the tray heater [D] in the optional LCT (\mathcal{F} x 1).

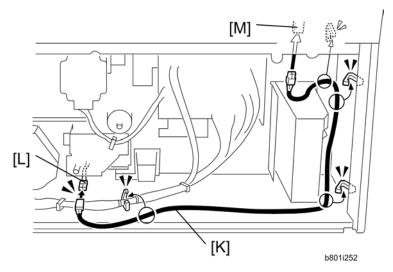


b801i251

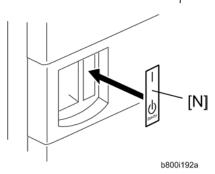
- 6. Remove the two securing brackets [E] (\mathscr{F} x 1 each), and the then rear cover [F] of the optional LCT (\mathscr{F} x 2).
- 7. Remove the harness cover bracket [G] (\rat{p} x 1).



- 8. Pull out tray 2 from the mainframe.
- 9. Replace the shoulder screw [H] with the washer screw [I], using the securing bracket [J] (\mathcal{F} x 1).



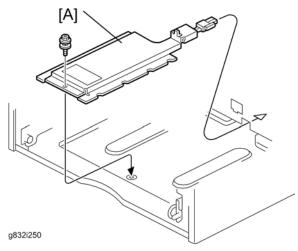
- 10. Connect the harness [K] to the connector [L] of the tray heater.
- 11. Route the harness [K] as shown and clamp it with four clamps (🖨 x 4).
- 12. Connect the harness [K] to the connector [M] of the mainframe.
- 13. Reassemble the mainframe and optional LCT.



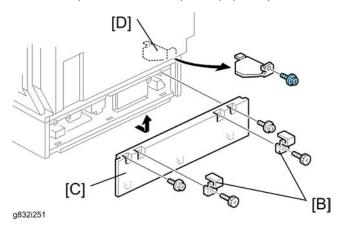
- 14. Reassemble the mainframe and optional paper feed unit.
- 15. Attach the on/standby decal [N] to the right-hand side of the main power switch.

For Installing the Tray Heater in D387

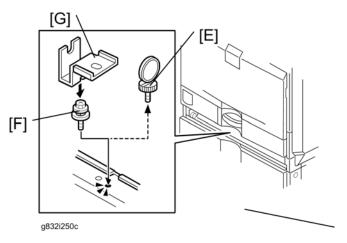
- 1. Remove the rear cover of the mainframe (** step 1 in For Installing the Tray Heater in D537).
- 2. Pull out the tray in the optional paper tray.



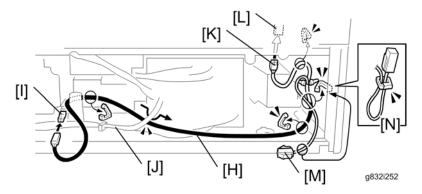
3. Install the tray heater [A] in the optional paper tray ($\mbox{\ensuremath{\not\sim}}\ x\ 1$).



- 4. Remove the two securing brackets [B] (** x 1 each), and then the rear cover [C] of the optional paper tray (** x 2).
- 5. Remove the harness cover bracket [D] (\mathcal{F} x 1).



- 6. Pull out tray 2 from the mainframe.
- 7. Replace the shoulder screw [E] with the washer screw [F], using securing bracket [G] (** x 1).



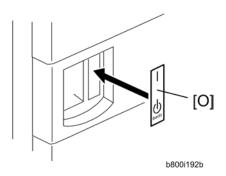
- 1. Connect the harness [H] to the connector [I] of the tray heater.
- 2. Route the harness [H] as shown and clamp it with four clamps (\mathcal{F} x 4).



- Make sure that the harness [H] is placed below the harness [J].
- 3. Connect one harness [K] of the two-way harness to the connector [L] of the mainframe.



- The harness [K] of the two-way harness, which has two binds, is for the connector of the
 mainframe. The harness [M], which has one bind, is for another optional paper feed unit.
- 4. Clamp the other harness [M] of the two-way harness as shown [N] if you do not install another optional paper feed unit.
- 5. Reassemble the mainframe and optional paper tray.

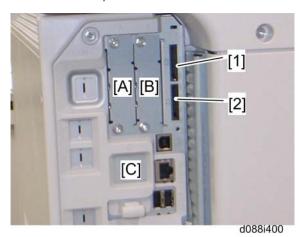


 $6. \ \, \text{Attach the on/standby decal [O] to the right-hand side of the main power switch.}$

Overview

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).



I/F Card Slots

- Slot A is used for one of the optional I/F connections (only one can be installed): IEEE1284, IEEE802.11a/g (Wireless LAN), Bluetooth or Remote Communication Gate.
- Slot B is used for the File Format Converter or Remote Communication Gate.
- Slot C is used for Gigabit Ethernet.

SD Card Slots

- Slot 1 is already occupied by the Security SD Card by factory default, and is also used for optional applications (e.g.: PostScript 3, PictBridge, IPDS unit, PDF direct, etc).
- Slot 2 is used for installing the Browser Unit, VM card or for service only (for example, updating the firmware).

9

SD Card Appli Move

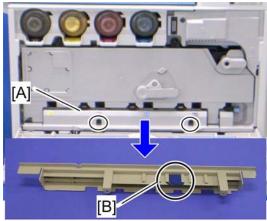
Overview

The service program "SD Card Appli Move" (SP5-873) lets you 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 SP5873-1 (PostScript 3, Security Application, PictBridge, IPDS unit, PDF Direct, etc.).

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.



d088i511

- Remove the cover [A] (*x 2), and then keep the SD card in the place [B] after you move the application program from one card to another card. This is done 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.
- You cannot move the PostScript or PDF Direct application to another SD card. You have to move the
 other application (PictBridge, Security Applications, IPDS unit) to the SD card that stores the PostScript
 or PDF Direct application.

Move Exec

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

Important

- 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 the main switch off.
- Make sure that a target SD card is in SD Card Slot 1. The application program is moved to this SD card.
- 3. Insert the source SD card with the application program in SD Card Slot 2. The application program is copied from this source SD card.
- 4. Turn the main switch on.
- 5. Start the SP mode.
- 6. Select SP5-873-001 "Move Exec".
- 7. Follow the messages shown on the operation panel.
- 8. Turn the main switch off.
- 9. Remove the source SD card from SD Card Slot 2.
- 10. Turn the main switch on.
- 11. Check that the application programs run normally.

Undo Exec

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

- 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 the main switch off.
- 2. Insert the original SD card in SD Card Slot 2. The application program is copied back into this card.
- 3. Insert the SD card with the application program in SD Card Slot 1. The application program is copied back from this SD card.
- 4. Turn the main switch on.
- 5. Start the SP mode.
- 6. Select SP5-873-002 "Undo Exec."
- 7. Follow the messages shown on the operation panel.
- 8. Turn the main switch off.

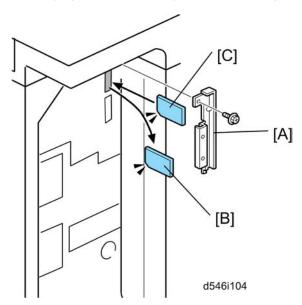
- 9. Remove the SD card from SD Card Slot 2.
- 10. Turn the main switch on.
- 11. Check that the application programs run normally.
- 12. Make sure that the machine can recognize the option (see 'Check All Connections' at the end of this section).

PostScript3 Unit Type C5501

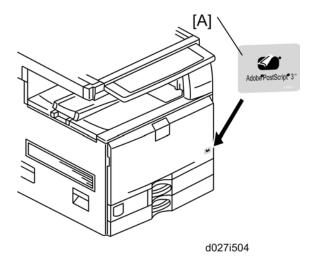
The PostScript3 application and fonts cannot be moved to another SD card. However, other applications can be moved onto the PostScript3 SD card.

ACAUTION

• Unplug the main machine power cord before you do the following procedure.



- 1. Remove the SD-card slot cover [A] from the SD card slots ($\mathcal{F} \times 1$).
- 2. Move the SD card (security applications) [B] from SD slot 1 to SD slot 2.
 - If the VM card is already in SD slot 2, first remove the VM card in SD slot 2.
- 3. Insert the SD card [C] (PostScript 3) in SD slot 1 with its label face towards the front of the machine. Then push it slowly into SD slot 1 until you hear a click.

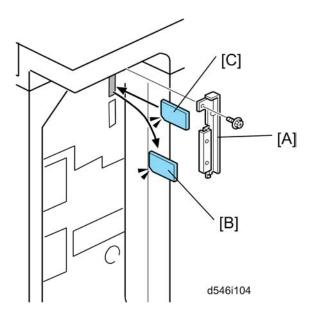


- 4. Attach the "Adobe PostScript 3" decal [A] to the front door.
- 5. Plug in, and then turn on the machine.
- 6. Move security applications from the SD card in SD slot 2 to the SD card in SD slot 1 with SP5-873-001.
- 7. Turn off the machine.
- 8. Remove the SD card from SD slot 2, and then keep it in a safe place (IF SD Card Appli Move).
- 9. Insert the VM card in SD slot 2.
- 10. Attach the SD-card slot cover, and then turn on the machine ($\mathcal{F} \times 1$).
- 11. Make sure that the machine can recognize the option (see 'Check All Connections' at the end of this section).

IPDS Unit Type C5501

ACAUTION

• Unplug the main machine power cord before you do the following procedure.

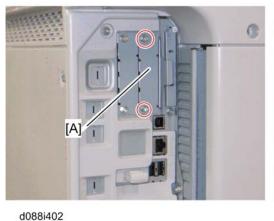


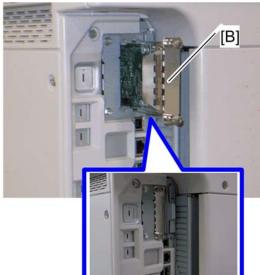
- 1. Remove the SD-card slot cover [A] from the SD card slots ($\mathcal{F} \times 1$).
- 2. Move the SD card (security applications) [B] from slot 1 to slot 2.
 - If the VM card is already in slot 2, first remove the VM card in SD slot 2.
- 3. Insert the SD card [C] (IPDS Unit) in SD slot 1 with its label face towards the front of the machine.
- 4. Plug in, and then turn on the machine.
- 5. Move security applications from the SD card in SD slot 2 to the SD card in SD slot 1 with SP5-873-001.
- 6. Turn off the machine.
- Remove the SD card from SD slot 2, and then keep it in a safe place (p.139 "SD Card Appli Move").
- 8. Insert the VM card in SD slot 2.
- 9. Attach the SD-card slot cover, and then turn on the machine ($\mathcal{F} \times 1$).

File Format Converter Type E



• Unplug the main machine power cord before you do the following procedure.





- 1. Remove the slot B cover [A] (*x 2).
- 2. Install the file format converter [B] into slot B and then fasten it with screws.
- 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)	"]"
SP5-836-002	Panel Setting	"O"

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

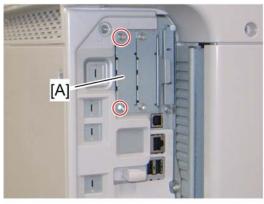
IEEE 1284 Interface Board Type A

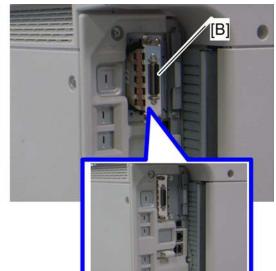
Installation Procedure

ACAUTION

• Unplug the main machine power cord before you do the following procedure.

You can only install one of the following network interfaces at a time: (IEEE 802.11 a/g, (Wireless LAN), IEEE1284, Bluetooth).





d088i404

- 1. Remove the slot A cover [A] (*x 2).
- 2. Install the interface board [B] (Knob-screw x 2) into the slot A.
- 3. Make sure that the machine can recognize the option (see 'Check All Connections' at the end of this section).

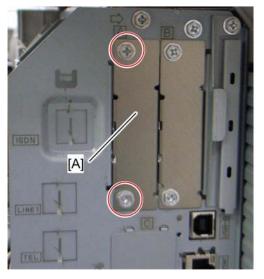
IEEE 802.11a/g Interface Unit Type J

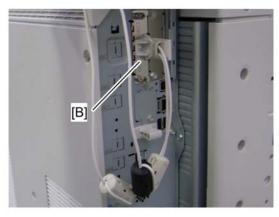
Installation Procedure

ACAUTION

• Unplug the main machine power cord before you do the following procedure.

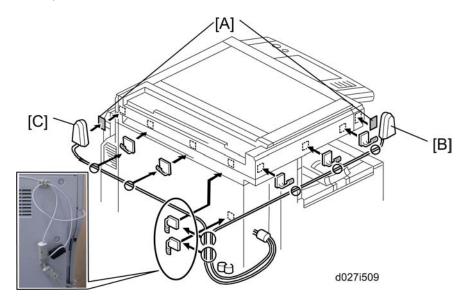
You can only install one of the following network interfaces at one time: (IEEE 802.11 a/g, (Wireless LAN), IEEE1284, Bluetooth).





d027i403a

- 1. Remove the slot cover [A] from the board slot (\mathscr{F} x 2).
- 2. Install the wireless LAN board [B] (Knob-screw x 2) into the board slot.
- 3. Make sure that the machine can recognize the option (see 'Check All Connections' at the end of this section).



- 4. Peel off the double-sided tapes on the Velcro fasteners [A], and then attach them [A] at the front left and rear left of the machine.
- 5. Attach "ANT1" (having a black ferrite core) [B] to the front left of the machine.
- 6. Attach "ANT2" (having a white ferrite core) [C] to the rear right of the machine.



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



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.

Installing Various Hardware Combinations





d027i511

- Refer to the above picture [A] when installing the handset.
- Refer to the above picture [B] when installing the handset and the USB2.0/SD.

UP Mode Settings for Wireless LAN

Enter the UP mode. Then do the procedure below to perform the initial interface settings for IEEE 802.11 a/g. 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 Tools/Counter" key.
- 2. On the touch panel, press "System Settings".



• The Network I/F (default: Ethernet) must be set for either Ethernet or wireless LAN.

- 3. Select "Interface Settings".
- 4. Press "Wireless LAN". Only the wireless LAN options show.
- 5. Communication Mode. Select either "802.11 Ad hoc", "Ad hoc" or "Infrastructure".
- 6. SSID Setting. Enter the SSID setting. (The setting is case sensitive.)
- 7. Channel. You need this setting when Ad Hoc Mode is selected.

Range: 1 to 14 (default: 11)



- The allowed range for the channel settings may vary for different countries.
- 8. WEP (Encryption) Setting. The WEP (Wired Equivalent Privacy) setting is designed to protect wireless data transmission. The same WEP key is required on the receiving side in order to unlock encoded data. There are 64 bit and 128 bit WEP keys.

WEP:

Selects "Active" or "Inactive" ("Inactive" is default.).

Range of Allowed Settings:

64 bit: 10 characters

128 bit: 26 characters

9. Transmission Speed. Press the Next button to show more settings. Then select the transmission speed for the mode: Auto, 11 Mbps, 5.5 Mbps, 2 Mbps, 1 Mbps (default: Auto). This setting should match the distance between the closest machine or access point. This depends on which mode is selected.



- For the Ad Hoc Mode, this is the distance between the machine and the closest PC in the network.
 For the Infrastructure Mode, this is the distance between the machine and the closest access point.
- 11 Mbps: 140 m (153 yd.)
- 5.5 Mbps: 200 m (219 yd.)
- 2 Mbps: 270 m (295 yd.)
- 1 Mbps: 400 m (437 yd.)
- 10. Press "Return to Default" to initialize the wireless LAN settings.

Press "Yes" to initialize the following settings:

- Transmission mode
- Channel
- Transmission Speed
- WEP
- SSID

• WEP Key

SP Mode and UP Mode Settings for IEEE 802.11 a/g Wireless LAN

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

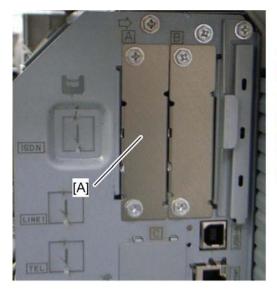
SP No.	Name	Function	
5840-006	Channel MAX	Sets the maximum range of the channel settings for the country.	
5840-007	Channel MIN	Sets the minimum range of the channels settings allowed for your country.	
5840-011	WEP Key Select	Used to select the WEP key (Default: 00).	
UP mode	Name	Function	
	SSID	Used 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.	

Bluetooth Interface Unit Type 3245

ACAUTION

• Unplug the main machine power cord before you do the following procedure.

You can only install one of the following network interfaces at a time: (IEEE 802.11 a/g (Wireless LAN), IEEE1284, Bluetooth).





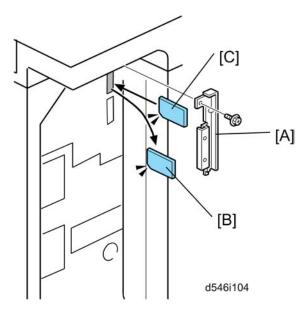
D027i405

- 1. Remove the slot cover [A] (F x 2).
- 2. Install the Bluetooth board [B] (Knob-screw x 2) into the slot A.
- 3. Insert the Bluetooth card into the Bluetooth card adaptor.
- 4. Install the Bluetooth card adaptor on the Bluetooth board.
- 5. Attach the antenna cap to the Bluetooth board.
- 6. Make sure that the machine can recognize the option (see 'Check All Connections' at the end of this section).

Camera Direct Print Card Type I

ACAUTION

• Unplug the main machine power cord before you do the following procedure.



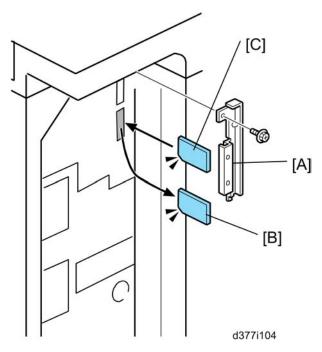
- 1. Remove the SD-card slot cover [A] from the SD card slots (*\mathbb{P} x 1).
- 2. Move the SD card (security applications) [B] from SD slot 1 to SD slot 2.
 - If the VM SD card is already in SD slot 2, first remove the VM card in SD slot 2.
- 3. Insert the SD card [C] (PictBridge) in SD slot 1 with its label face to the front of the machine.
- 4. Plug in, and then turn on the machine.
- 5. Move security applications from the SD card in SD slot 2 to the SD card in SD slot 1 with SP5-873-001.
- 6. Turn off the machine.
- 7. Remove the SD card from slot SD 2, and then keep it in a safe place.
- 8. Insert the VM card in SD slot 2.
- 9. Attach the SD-card slot cover, and then turn on the machine (F x 1).
- 10. Make sure that the machine can recognize the option (see 'Check All Connections' at the end of this section).

Browser Unit Type E

Installation Procedure

ACAUTION

• Unplug the main machine power cord before you do the following procedure.



- 1. Remove the slot cover [A] for SD cards (** x 1).
- 2. Remove the VM card [B] from SD slot 2.
- 3. Turn the SD-card label face [C] of the browser unit to the front of the machine. Then push it slowly into SD slot 2 until you hear a click.
- 4. Plug in and turn on the main power switch.
- 5. Push the "User Tools" key.
 - If an administrator setting is registered for the machine, step 5 and 6 are required. Otherwise, skip to the step 7
- 6. Push the "Login/Logout" key.
- 7. Login with the administrator user name and password.
- 8. Touch "Extended Feature Settings" twice on the LCD.
- 9. Touch "Install" on the LCD.
- 10. Touch "SD Card".
- 11. Touch the "Browser" line.
- 12. Under "Install to" touch "Machine HDD" and touch "Next".
- 13. When you see "Ready to Install", check the information on the screen to confirm your previous selection.
- 14. Touch "OK". You will see "Installing the extended feature... Please wait.", and then "Completed".
- 15. Touch "Exit" to go back to the setting screen.

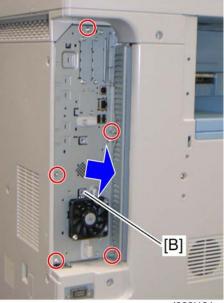
- 16. Touch "Change Allocation".
- 17. Touch the "Browser" line.
- 18. Press one of the hard keys, which you want to use for the Browser Unit. In default, this function is assigned to the "Other Functions" key (bottom key of function keys).
- 19. Touch "OK".
- 20. Touch "Exit" twice to go back to the copy screen.
- 21. Turn off the main power switch.
- 22. Install the key for "Browser Unit" to the place, where you want.
- 23. Remove the SD card of the browser unit from SD slot 2.
- 24. Reinstall the VM card in SD slot 2.
- 25. Attach the slot cover [A] (*x 1).
- 26. Keep the SD card in the place (p.139 "SD Card Appli Move") after you install the application program from the card to HDD. This is because: 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.

Gigabit Ethernet Type B

ACAUTION

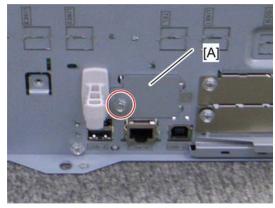
• Unplug the main machine power cord before you do the following procedure.





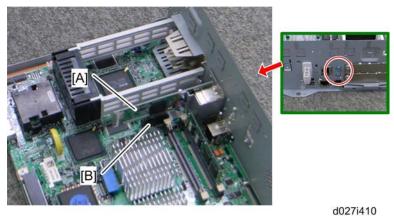
d393i101

- 1. Remove the controller cover [A] (*x 3).
- 2. Pull out the controller board [B] (*x 5).



d027i409

3. Remove the slot cover [A] (F x 1).



- 002/14/10
- 4. Attach the Gigabit Ethernet controller [A] into the slot [B] (\nearrow x 2).
- 5. Reassemble the machine.
- 6. Check the operation of the Gigabit Ethernet

Check All Connections

- 1. Plug in the power cord. Then turn on the main switch.
- Enter the printer user mode. Then print the configuration page.
 User Tools > Printer Settings > List Test Print > Config. Page

All installed options are shown in the "System Reference" column.

3

3. Preventive Maintenance

Maintenance Tables

See "Appendices" for the following information:

- Preventive Maintenance Items
- Other Yield Parts

PM Parts Settings

Before Removing the Old PM Parts

- 1. Enter the SP mode.
- 2. Output the SMC logging data with SP5-990-004.
- 3. Set the following SPs to "1" before you turn the power off. Then, the machine will reset the PM counters automatically. In the case of developer, the developer initialization will also be done automatically.
- 4. Exit the SP mode.

Item	SP
	Black: 3902-005
Developer	Yellow: 3902-006
Developer	Cyan: 3902-007
	Magenta: 3902-008
	Black: 3902-009
Drum Unit	Yellow: 3902-010
Drum Onir	Cyan: 3902-011
	Magenta: 3902-012
Heating Roller and Pressure Roller (not necessary	Heating roller: 3902-018
for complete fusing units; see below)	Pressure roller: 3902-019
Image Transfer Belt Cleaning Unit	3902-015
PTR Unit	3902-016
Toner Collection Bottle (if not full or near-full)	3902-017

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

- PCDU
- Development unit
- Toner Collection Bottle (if full or near-full)
- Fusing unit

After installing the new PM parts

- 1. Turn on the main power switch.
- 2. Output the SMC logging data with SP5-990-004 and check the counter values.
- 3. Make sure that the PM counters for the replaced units are "0" with SP7-803. If the PM counter for a unit was not reset, then reset that counter with SP 7-804.
- 4. Make sure that the exchange counter counts up with SP7-853.
- 5. Make sure that the counters for the previous units (SP7-906) on the new SMC logging data list (from step 2 above) are equal to the counters (SP7-803) for these units on the previous SMC logging data list (the list that was output in the "Before removing the old parts" section).
- 6. Make sure that the unit replacement date is updated with SP7-950.

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 & 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 the precise ACC adjustment.
 - Close the ARDF or the platen cover.
 - Press "Start Scanning" on the LCD. Then, the machine starts the ACC.
- 4. 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. A message 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 normally.

4. Replacement and Adjustment

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. Part Number

Description

Q'ty

1



B132 9700

• The "Loop-back Connector-Parallel" requires the "Plug-IEEE1284 Type A", and the optional IEEE1284 interface option must also be installed.

Lubricant Powder

4

4

Image Adjustment

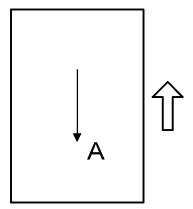
Scanning

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



• Use S-2-1 test chart to do the following adjustments.

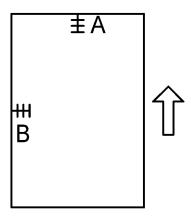
Scanner sub-scan magnification



A: Sub-scan magnification

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

Scanner leading edge and side-to-side registration



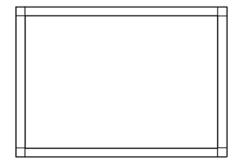
A: Leading Edge Registration

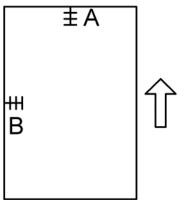
- 1. Put the test chart on the exposure glass. Then make a copy from one of the feed stations.
- 2. Check the leading edge and side-to-side registration. Adjust the following SP modes if necessary. Standard: 0 ± 2mm for the leading edge registration, 0 ± 2.5mm for the side-to-side registration.

	SP mode
Leading Edge Registration	SP4-010-001
Side-to-Side Registration	SP4-011-001

ARDF

ARDF side-to-side, leading edge registration and trailing edge





A: Leading edge registration

Use A3/DLT paper to make a temporary test chart as shown above.

- 1. Put the temporary test chart on the ARDF. Then make a copy from one of the feed stations.
- 2. Check the registration. Check the leading edge and side-to-side registration. Adjust the following SP modes if necessary.

Standard: 4.2 ± 2 mm for the leading edge registration, 2 ± 1 mm for the side-to-side registration. Use the following SP modes to adjust if necessary.

SP Code	What It Does	Adjustment Range
SP6-006-001	Side-to-Side Regist: Front	± 3.0 mm
SP6-006-003	D06-003 Leading Edge Registration ± 5.0 mm	
SP6-006-005	Buckle: Duplex Front ± 3.0 mm	
SP6-006-006	Buckle: Duplex Rear	± 2.5 mm
SP6-006-007	Rear Edge Erase (Trailing Edge)	± 10.0 mm

ARDF sub-scan magnification

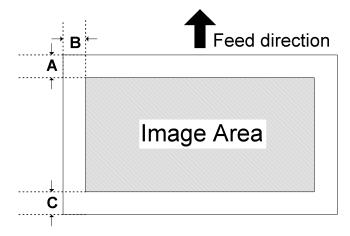
- 1. Put the temporary test chart on the ARDF. Then make a copy from one of the feed stations.
- 2. Check the magnification ratio. Adjust with SP6-017-001 if necessary.

• Standard: ±5.0%

• Reduction mode: ±1.0%

• Enlargement mode: ±1.0%

Image Area



A = C = 5.2 mm (0.2"), B = 2.0 mm

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

Leading Edge

Adjusts the leading edge registration for each paper type and process line speed.

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, LCT, and duplex unit.

Adjustment Standard

• Leading edge (sub-scan direction): 5.2 ± 2 mm

• Side to side (main-scan direction): 2 ± 1 mm

Paper Registration Standard

The registration in both main- and sub-scan directions can change within the following tolerance.

• Sub-scan direction: 0 ± 9 mm

• Main-scan direction: 0 ± 4 mm

4

Adjustment Procedure

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

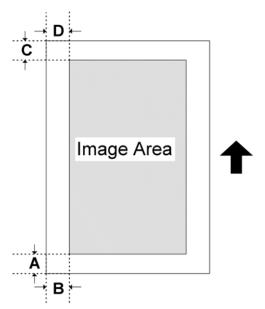


- Registration can change slightly as shown on the previous page. Print some pages of the 1-dot trimming pattern for step 3 and 4. Then average the leading edge and side-to-side registration values, and adjust each SP mode.
- 3. Do the leading edge registration adjustment.
 - 1) Check the leading edge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

Erase Margin Adjustment



• Adjust the erase margin C and D only if the registration (main scan and sub scan) cannot be adjusted within the standard values. Do the registration adjustment after adjusting the erase margin C and D, and then adjust the erase margin A and B.



- 1. Enter SP2-109-003.
- 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 -015 if necessary.
 - Leading edge: 0.0 to 9.0 mm (default: 4.2 mm)
 - Side-to-side: 0.0 to 9.0 mm (default: 2.0 mm)
 - Trailing edge: 0.0 to 9.0 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 SP2-111-3.
- 2. Then do SP2-111-1.

To check if SP 2-111-1 was successful, watch the screen during the process. A message is displayed at the end. Also, you can check the result with SP 2-194-10 to -12.

• 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 open the drum positioning plate
- 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.

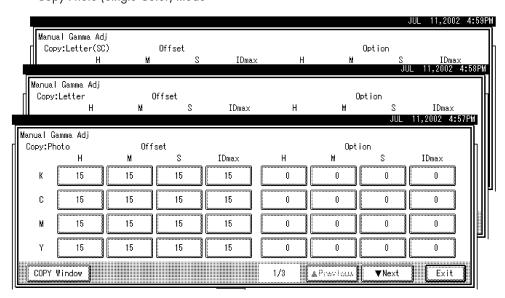


• Never change "Option" values (default value is 0).

Highlight (Low ID)	Levels 2 through 5 in the C4 chart 10-level scale	
Middle (Middle ID)	e ID) Levels 3 through 7 in the C4 chart 10-level scale	
Shadow (High ID)	Levels 6 through 9 in the C4 chart 10-level scale	
ID max	Level 10 in the C4 chart 10-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-4 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 "Option" value (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-4 chart	Adjustment Standard
1	ID max: (K, C, M, and Y)	1 2 3 4 5 6 7 8 9 10	Adjust the offset value so that the density of level 10 matches that of level 10 on the C-4 chart.

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

- Photo Mode, Single Color -

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

- Text (Letter) Mode, Full Color -

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

- Text (Letter) Mode, Single Color -

	Item to Adjust	Level on the C-4 chart (K)	Adjustment Standard
1	ID max: (K)	1 2 3 4 5 6 7 8 9 10	Adjust the offset value so that the density of level 10 matches that of level 10 on the C-4 chart.
2	Middle (Middle ID) (K)	1 2 3 4 5 6 7 8 9 10	Adjust the offset value so that the density of level 6 matches that of level 6 on the C-4 chart.
3	Shadow (High ID) (K)	1 2 3 4 5 6 7 8 9 10	Adjust the offset value so that the density of level 8 matches that of level 8 on the C-4 chart.
4	Highlight (Low ID) (K)	1 2 3 4 5 6 7 8 9 10	Adjust the offset value so that dirty background does not show on the copy and the density of level 3 is slightly lighter than that of level 3 on the C-4 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
- 1200 x 1200 text mode
- 2400 x 600 photo mode
- 2400 x 600 text mode
- 1800 x 600 photo mode
- 1800 x 600 text mode
- 600 x 600 photo mode
- 600 x 600 text mode

	K	С	М	Υ
Highlight	SP1-104-1	SP1-104-21	SP1-104-41	SP1-104-61
Shadow	SP1-104-2	SP1-104-22	SP1-104-42	SP1-104-62
Middle	SP1-104-3	SP1-104-23	SP1-104-43	SP1-104-63
IDmax	SP1-104-4	SP1-104-24	SP1-104-44	SP1-104-64

- Adjustment Procedure -

- 1. Do ACC for the printer mode.
- 2. Turn the main power off and on.
- 3. Enter SP mode.
- 4. Select "Printer SP".
- 5. Select SP1-102-001. Then select the necessary print mode to adjust.
- 6. Choose SP1-103-1 to print out a tone control test sheet if you want to examine the image quality for these settings.
- 7. Adjust the color density with SP1-104. Compare the tone control test sheet with the C4 test chart.



- Adjust the density in this order: "ID Max", "Shadow", "Middle", "Highlight".
- 8. Use SP1-105-001 to keep the adjusted settings.

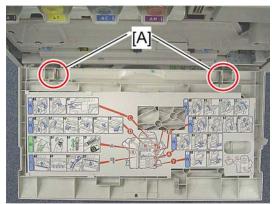
Exterior Covers

Front Door



b222r512

1. Open the front door [A].

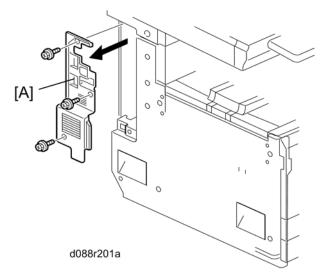


d027r513

2. Remove the two pins [B], and then remove the front cover.

4

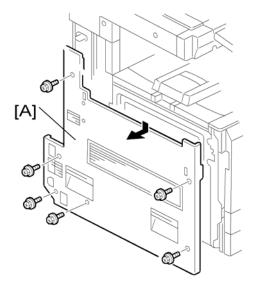
Controller Cover



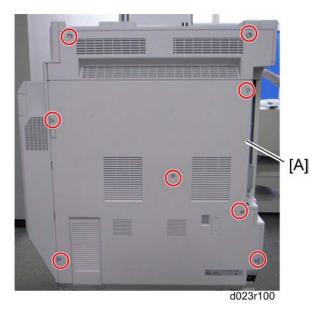
1. Controller cover [A] (🗗 x 3)

Left Cover

1. Controller cover (p.173)



2. Left cover [A] (🗗 x 6)

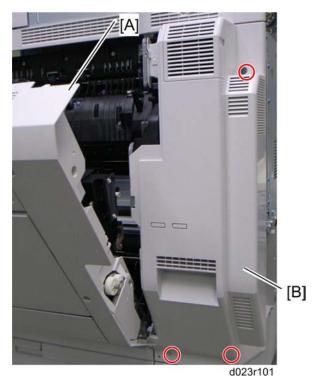


1. Rear cover [A] (** x 8)

Right Rear Cover

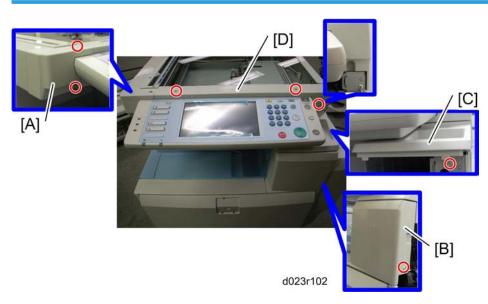
- 1. Rear cover (p. 174)
- 2. Scanner right cover (** p.177 "Ozone Filter and Dust Filter")
- 3. Right top cover (** p.177 "Ozone Filter and Dust Filter")



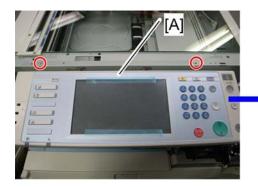


- 4. Open the right door [A].
- 5. Right rear cover [B] (🔊 x 3)

Operation Panel



- 1. Top left front cover [A] (*x 2)
- 2. Open the right door.
- 3. Front right cover [B] (F x 1)
- 4. Clip table cover [C] (** x 1)
- 5. Top front cover [D] (F x 3)

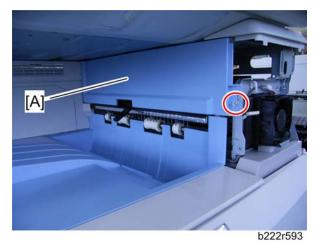




d023r103

Paper Exit Cover

1. Front right cover (p.175 "Operation Panel")

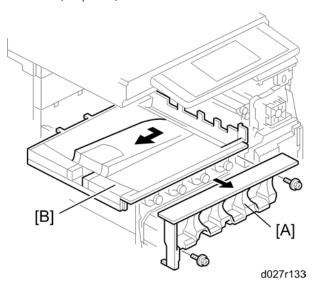


2. Paper exit cover [A] (* x 1)

Inner Tray

1. Image transfer belt unit (F p.221)

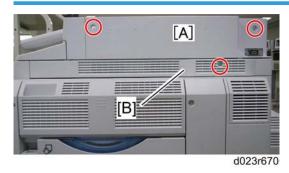
- 2. Paper exit cover (IP p.176)
- 3. Left cover (p. 173)



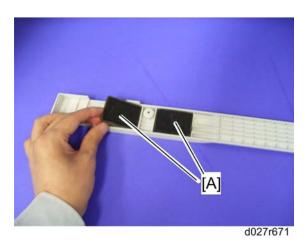
- 4. Toner cartridge cover [A] (** x 2)
- 5. Inner tray [B]

Ozone Filter and Dust Filter

Ozone filters for the scanner unit



- 1. Scanner right cover [A] (*x 2)
 - Loosen the top-right screw of the rear cover.
- 2. Right top cover [B] (F x 1)

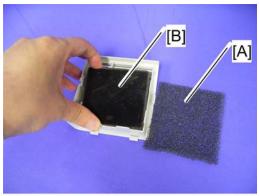


3. Ozone filters [A] in the right top cover.

Ozone filter and dust filter for the IH inverter



1. IH inverter fan cover [A] (hook)

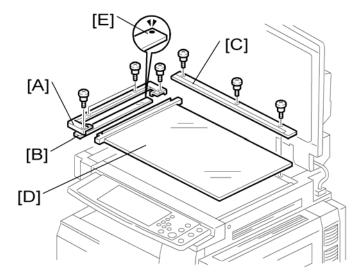


d027r673

- 2. Dust filter [A]
- 3. Ozone filter [B]

Scanner Unit

Exposure Glass



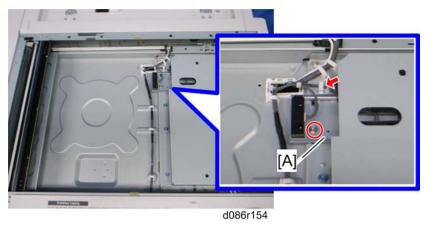
- 1. Glass cover [A] (* x 4)
- 2. ARDF exposure glass [B]
- 3. Rear scale [C] (** x 3)
- 4. Exposure glass with left scale [D]



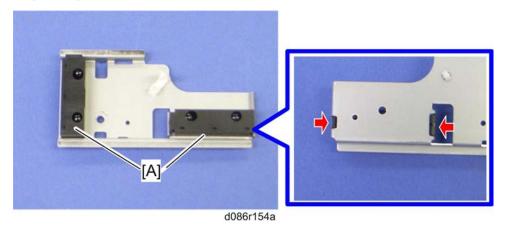
 Position the white marker [E] at the rear-left corner and the black or blue marker at the front-left corner when you reattach the ARDF exposure glass.

Original Length Sensors

1. Exposure glass with left scale (IPP p.180)



2. Original length sensor bracket [A] (\mathscr{F} x 1, $\overset{\boldsymbol{\iota}}{\Leftrightarrow}$ x1, $\overset{\boldsymbol{\iota}}{\leadsto}$ x 2)

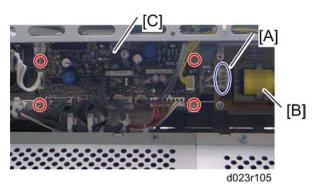


3. Original length sensors [A] (hooks)

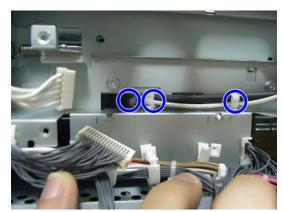
Exposure Lamp

- 1. Rear cover (p. 174)
- 2. Operation panel (Fr p.175)
- 3. Exposure glass (p.180)

- 4. Scanner rear cover [A] (*x 1)
- 5. Scanner left cover [B] (* x 2)
- 6. Scanner right cover [C] (🗗 x 2)

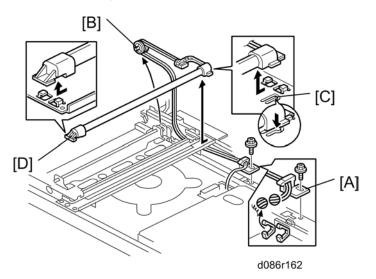


- 7. Disconnect the connector [A] from the lamp stabilizer [B].
- 8. SIO [C] (🗗 x 4, 🚅 x All)



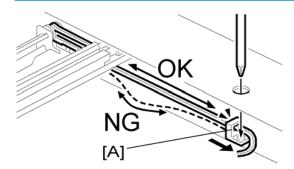
d023r106

9. Release three clamps.

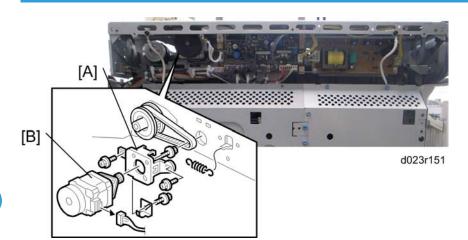


- 10. Release the clamp [A] (\mathcal{F} x 1).
- 11. Remove the pulley [B].
- 12. Hold down the snap [C], and then slide the exposure lamp [D] to the front side.
- 13. Exposure lamp [D]

Reassembling

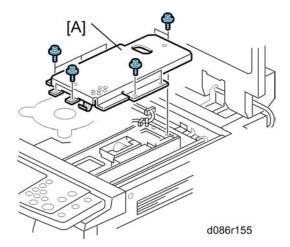


Run the cable so there is no slack. Slide the clamp [A] to adjust the cable slack.

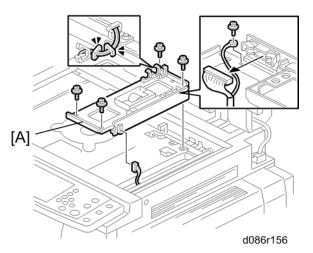


- 1. Rear cover (p. 174)
- 2. Scanner motor assembly [A] (\mathscr{F} x 2, spring x 1)

Sensor Board Unit (SBU)



- 1. Exposure glass (p.180)
- 2. Original length sensor bracket (** p. 180 "Original Length Sensors")
- 3. SBU cover bracket [A] (🗗 x 9)



4. Sensor board unit [A] (🗗 x 4, Grand screw x 1, 🚅 x 2, 🖨 x 2)

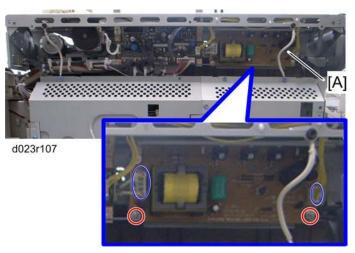
When reassembling

Adjust the following SP modes after you replace the sensor board unit:

- SP4-008 (Sub Scan Mag): See "Image Adjustment: Scanning".
- SP4-010 (Sub Mag Reg.): See "Image Adjustment: Scanning".
- SP4-011 (Main Scan Reg): See "Image Adjustment: Scanning".
- SP4-688 (DF: Density Adjustment): Use this to adjust the density level if the ID of outputs made in the DF and Platen mode is different.

Exposure Lamp Stabilizer

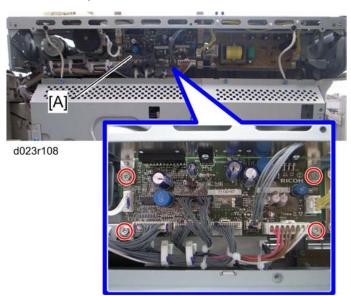
1. Rear cover (p.174)



2. Exposure lamp stabilizer [A] (🔊 x 2, 📬 x 2)

SIO (Scanner In/Out) Board

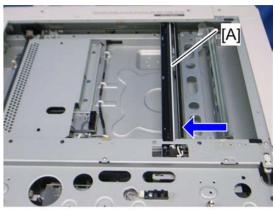
1. Rear cover (p. 174)



2. SIO [A] (🖟 x 4, 🗂 x All)

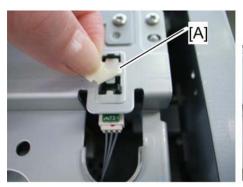
Scanner HP Sensor

- 1. Scanner left cover and scanner rear cover (pr p.181 "Exposure Lamp")
- 2. Exposure glass (F p.180)



d086r111

3. Move the 1st scanner carriage [A] to the right side.





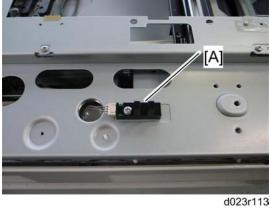
d023r112

- 4. Remove the mylar [A]
- 5. Remove the scanner HP sensor [B] (🗗 x 1, three snaps)

Platen Cover Sensor

1. Scanner left cover and scanner rear cover (IPT p.181 "Exposure Lamp")

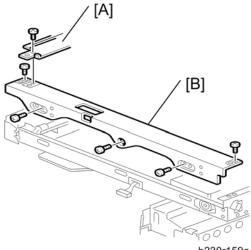




2. Platen cover sensor [A] (🎤 x 1, 📬 x 1)

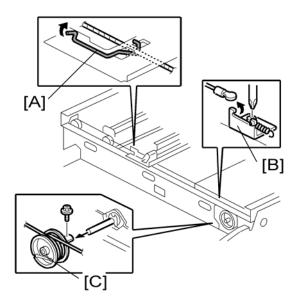
Front Scanner Wire

1. Exposure glass (**p** p.180)



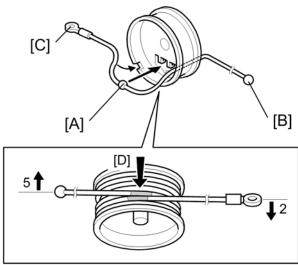
b230r159a

- 2. Scanner left stay [A] (🔊 x 3)
- 3. Front frame [B] (🗗 x 5)



- 4. Front scanner wire clamp [A]
- 5. Front scanner wire bracket [B] (F x 1)
- 6. Front scanner wire and scanner drive pulley [C] ($\rat{p} \times 1$)

Reinstalling the Front Scanner Wire

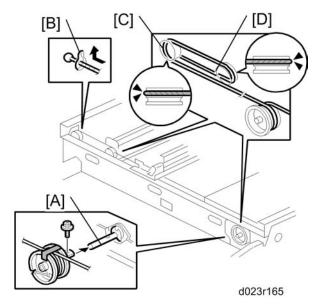


- b230r164a
- 1. Position the center ball [A] in the middle of the forked holder.
- 2. Pass the right end (with the ball) [B] through the square hole. Pass the left end (with the ring) [C] through the notch.

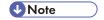
3. Wind the right end counterclockwise (shown from the machine's front) five times. Wind the left end clockwise twice.



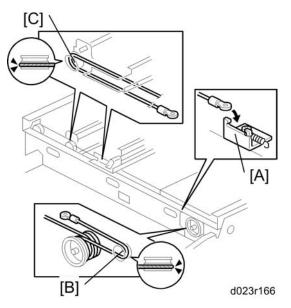
• The two red marks [D] come together when you have done this. Stick the wire to the pulley with tape. This lets you easily handle the assembly at the time of installation.



4. Install the drive pulley on the shaft [A].



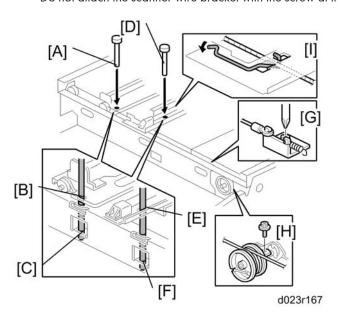
- Do not attach the pulley to the shaft with the screw at this time.
- 5. Insert the left end into the slit [B]. The end should go via the rear track of the left pulley [C] and the rear track of the movable pulley [D].



6. Hook the right end onto the front scanner wire bracket [A]. The end should go via the front track of the right pulley [B] and the front track of the movable pulley [C].



• Do not attach the scanner wire bracket with the screw at this time.



- 7. Remove the tape from the drive pulley.
- 8. Insert a scanner-positioning pin [A] through the 2nd carriage hole [B] and the left holes [C] in the front rail. Insert another scanner positioning pin [D] through the 1st carriage hole [E] and the right holes in the front rail [F].

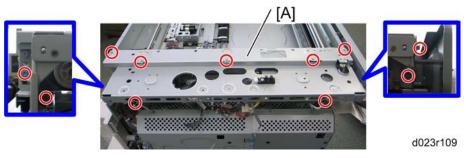
- 9. Insert two more scanner positioning pins through the holes in the rear rail.
- 10. Screw the drive pulley to the shaft [G].
- 11. Screw the scanner wire bracket to the front rail [H].
- 12. Install the scanner wire clamp [I].
- 13. Pull out the positioning pins.



 Make sure the 1st and 2nd carriages move smoothly after you remove the positioning pins. Do steps 8 through 13 again if they do not.

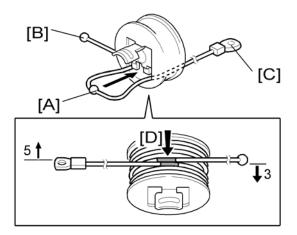
Rear Scanner Wire

- 1. Exposure glass (p. 180)
- 2. Scanner left stay (p. 188 "Front Scanner Wire")



- 3. Scanner rear frame [A] (🎤 x 9, ground screw x 2, 📬 x All)
- 4. Follow the steps 3 through 5 in the "Reinstalling the Front Scanner Wire" Section. You can remove the rear scanner wire with the same manner for replacing the front scanner wire.

Reinstalling the Rear Scanner Wire



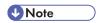
- 1. Position the center ball [A] in the middle of the forked holder.
- 2. Pass the left end (with the ball) [B] through the drive pulley notch. Pass the right end (with the ring) [C] through the drive pulley hole.
- 3. Wind the left end [B] clockwise (shown from the machine's front) five times. Wind the right end [C] counterclockwise three times.



- The two red marks [D] come together when you do this. Attach the wire to the pulley with tape.
 This lets you easily handle the assembly at the time of installation.
- 4. Install the drive pulley on the shaft.



- Do not attach the pulley on the shaft with the screw at this time.
- 5. Install the wire.



• The winding of the wire on the three pulleys at the rear of the scanner should be the same as the winding on the three pulleys at the front. This must show as a mirror image.

Example: At the front of the machine, the side of the drive pulley with the three windings must face the front of the machine. At the rear of the machine, it must face the rear.

6. Do steps 7 through 13 again in the "Reinstalling the Front Scanner Wire" Section.

Touch Panel Position Adjustment

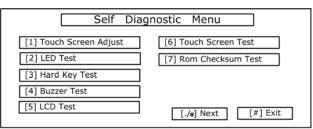


• It is necessary to calibrate touch panel at the following times:

- When you replace the operation panel.
- When you replace the controller board.
- When the touch panel detection function does not operate correctly

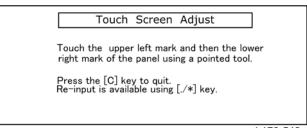
Do not use items [2] to [9] on the Self-Diagnostic Menu. These items are for design use only.

1. Press , press "1", "9", "9", "3", then press 5 times to open the Self-Diagnostics menu.



b178r548

- 2. On the touch screen press "Touch Screen Adjust" (or press "1").
- 3. Use a pointed (not sharp) tool to press the upper left mark "O.".



b178r549

- 4. Press the lower right mark when "*o" shows.
- 5. Press [#] OK on the screen (or press 🖲) when you are finished.
- 6. Touch [#] Exit on the screen to close the Self-Diagnostic menu. Save the calibration settings.

Laser Optics

MARNING

• Turn off the main switch and unplug the machine before beginning any of the procedures in this section. Laser beams can cause serious eye injury.

Caution Decal Location

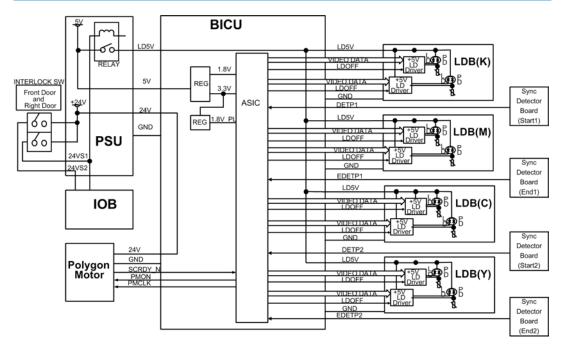
Caution decals are placed as shown below.



MARNING

• Be sure to turn off the main switch and disconnect the power plug from the power outlet before beginning any disassembly or adjustment of the laser unit. This copier uses a class IIIb laser beam with a wavelength of 655 nm and an output of 7 mW. The laser can cause serious eye injury.

LD Safety Switch



d027d001d

A relay on the PSU ensures technician and user safety. It also prevents the laser beam from turning on during servicing. This relay turns off when the front cover, upper left cover, or right door is opened. At this time it cuts the power (+5V) supplied to the LD board for each color through the BICU.

Two safety switches are turned on or off by the front door or right door, and this opens the relay.

- LD Driver: Precise Pulse Modulation ASIC on C-MOS technology
- LDB: LD Drive Board (included in the LD Unit)

Error Messages

Along with other switches, the LD safety switches help show error messages related to external covers. When one or more covers are open, the messages, "Cover is open." and "Close the indicated cover," show with a diagram. The diagram shows which cover is open.

Laser Optics Housing Unit

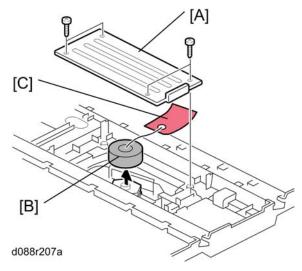


 Before installing a new laser optics housing unit, remove the sponge padding and the tag from the new unit.



- A new laser optics housing unit has a bracket to protect the LD units. When you install the new unit, do not remove the bracket until near the end of the installation procedure (the correct time is stated in the manual).
- This bracket protects a capacitor on the unit. If the bracket is removed too early, you could break the
 capacitor on the corner of the main frame when you install the new unit.

Preparing the new laser optics housing unit



- 1. Polygon motor cover [A] of the laser optics housing unit (** x 4)
- 2. Sponge padding [B]
- 3. Tag [C]
- 4. Reinstall the polygon motor cover [A].

Before removing the old laser optics housing unit

Do the following settings before removing the laser optics housing unit. These are adjustments for skew adjustment motors in the laser optics housing unit.

- 1. Plug in and turn on the main power switch of the copier.
- 2. Enter the SP mode.
- 3. Execute SP2220-001 to clear the L2 lens positioning motor setting for Magenta.
- 4. Execute SP2220-002 to clear the L2 lens positioning motor setting for Cyan.
- 5. Execute SP2220-003 to clear the L2 lens positioning motor setting for Yellow.
- 6. Exit the SP mode.

7. Turn off the main power switch and disconnect the power cord of the copier.

Recovery procedure for no replacement preparation of laser optics housing unit

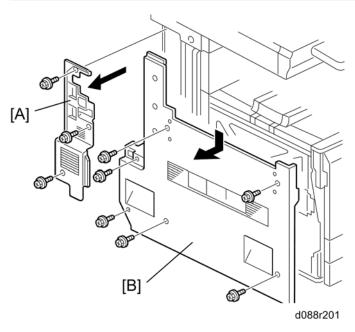
If you did not do the procedure in 'Before removing the old laser optics housing' before removing the old laser optics housing unit, you must do the following.

- 1. Turn off the main power switch and disconnect the power cord of the copier.
- 2. Remove the left cover and harness cover bracket (see the following "Removing the old laser optics housing unit")

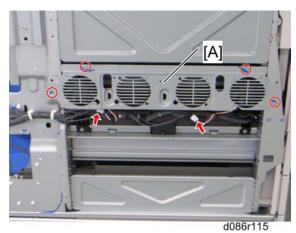


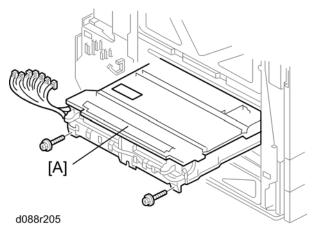
- 3. Disconnect the harness [A] of the skew correction motor.
- 4. Do steps 1 to 7 of "Before removing the old laser optics housing unit".
- 5. Connect the harness [A] and reinstall the harness bracket and left cover.
- 6. Plug in and turn on the main power switch.

Removing the old laser optics housing unit



- 1. Controller cover [A] (🗗 x 3)
- 2. Left cover [B] (🗗 x 6)



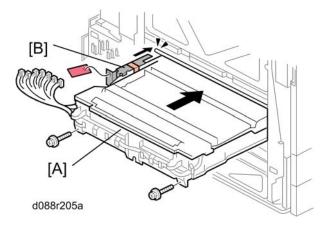


4. Remove the old laser optics housing unit [A] (*x 2, All * 's, * x 3)

Installing a new Laser Optics Housing Unit



- A new laser optics housing unit has a bracket to protect the LD units. When you install the new unit,
 do not remove the bracket until near the end of the installation procedure (the correct time is stated
 in the manual).
- This bracket protects a capacitor on the unit. If the bracket is removed too early, you could break the capacitor on the corner of the main frame when you install the new unit.

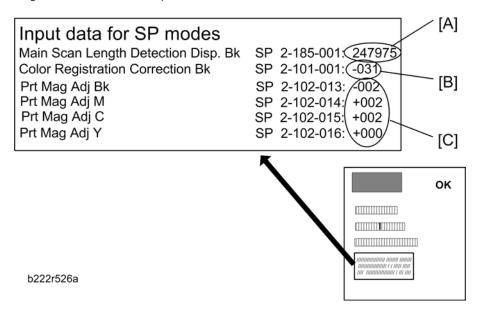


- 1. Push the new laser optics housing unit [A] slowly into the copier until the bracket [B] bumps against the frame of the copier.
- 2. Remove the bracket [B], and then push the new laser optics housing unit fully into the copier (*x 2, All * 's, *\frac{1}{2} \text{ 's, } \frac{1}{2} \text{ x 3}).
- 3. Reassemble the machine.

After installing the new laser optics housing unit

Do the following adjustment after installing the new laser optics housing unit.

1. Plug in and turn on the main power switch.



- 2. Adjust the main scan magnification for K, M, C, Y.
 - Input the standard values [C] provided with a new laser optics housing unit for the main scan magnification adjustment with SP2-102-013, 014, 015, 016.



- The values [C] are different for each laser optics housing unit.
- 3. Adjust the main scan magnification only for black (K).
 - Input the standard value [A] provided with a new laser optics housing unit for the main scan magnification adjustment with SP2-185-001.



- The value [A] is different for each laser optics housing unit.
- Print the test pattern (14: 1-dot trimming pattern in the SP2-109-003).
- Check that the left and right trim margin is within 4 ± 1 mm. If not, change the standard value for the main scan magnification adjustment.
- 4. Adjust the main scan registration only for black (K).
 - Input the registration value [B] provided with a new laser optics housing unit for the main scan registration adjustment with SP2101-001.

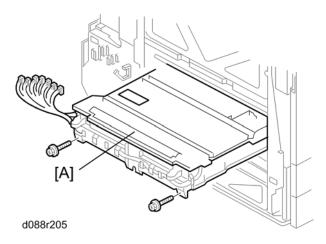


• The value [B] is different for each laser optics housing unit.

- Print the test pattern (14: 1-dot trimming pattern in the SP2-109-003).
- Check that the left trim margin is within 2 ± 1 mm. If not, change the registration value for the main scan registration adjustment.
- 5. Select "0" with SP2-109-003 after printing the "1-dot trimming pattern.
- 6. Do the line position adjustment.
 - First do SP2-111-3.
 - Then do SP2-111-1.
 To check if SP 2-111-1 was successful, watch the screen during the process. A message is displayed at the end. Also, you can check the result with SP 2-194-10 to -12.
- 7. Exit the SP mode.

After you replace the housing unit, do the adjustments in the following section of the manual: Image Adjustment – Registration.

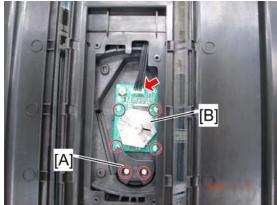
Polygon Mirror Motor and Drive Board



1. Laser optics housing unit [A] (** p.196)



2. Polygon mirror motor cover [A] of the laser optics housing unit ($\rat{P} \times 4$)



d088r117

- 3. Polygon mirror motor holder [A] (*x 2)
- 4. Polygon mirror motor [B] (*x 4, * x 1)

After installing the polygon mirror motor:

- 1) Do the "Forced Line Position Adj. Mode c" (SP2-111-3).
- 2) Then do the "Forced Line Position Adj. Mode a" (SP2-111-1).

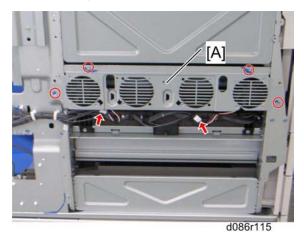
To check if SP 2-111-1 was successful, watch the screen during the process. A message is displayed at the end. Also, you can check the result with SP 2-194-10 to -12.

After you replace the motor, do the adjustments in the following section of the manual: Image Adjustment – Registration.

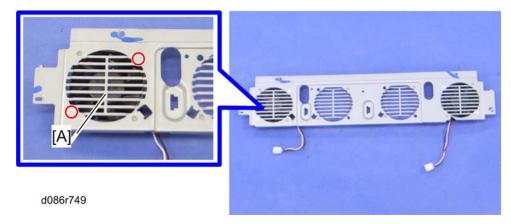
Airflow Fans

1. Controller cover (p.173)

2. Left cover (p. 173)



3. Airflow fan bracket [A] for the laser housing optics unit ($\red{F} \times 4$, $\red{L} \times 2)$



4. Airflow fans [A]

• There are two airflow fans on the baracket.

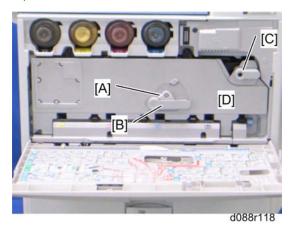
4

Image Creation

PCDU



- Do not touch the OPC drum. Do not let metal objects touch the development sleeve.
- 1. Open the front door.



- 2. Lever lock [A] (🗗 x 1)
- $3. \ \ Turn\ the\ drum\ positioning\ plate\ lever\ [B]\ and\ the\ image\ transfer\ unit\ lock\ lever\ [C]\ counter-clockwise.$
- 4. Open the drum positioning plate [D].



d088r119

5. Pull out the PCDU (hold the grip while you pull it out).

Drum Unit and Development Unit

The new drum unit has a front cover and a front joint. When you attach the new drum unit to the development unit, remove a front cover and a front joint at first.

And use them for reassembling the new drum unit and development unit.

1. If you install a new drum unit, set SP 3902-xxx to "1".

• Black: 3902-009

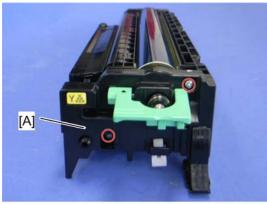
• Yellow: 3902-010

• Cyan: 3902-011

• Magenta: 3902-012

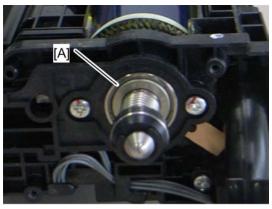


- If you do this, then the machine will reset the PM counter for the drum unit automatically, after you turn the power on again.
- 2. Turn the machine power off.
- 3. PCDU (p.205)



d027r120

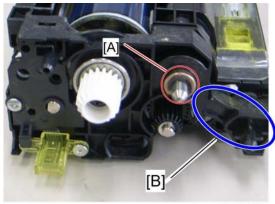
4. Front cover [A] (x 2)



d027r121



• Do not touch the bearing [A] after removing the front cover. The bearing is properly applied with lubricant.



d027r122

5. Remove the bushing [A] of the development roller at the rear of the PCDU (\mathfrak{C} x 1).



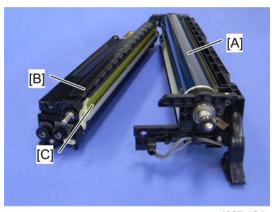
• Do not put too much weight on the PCDU. Otherwise, the plastic frame [B] of the development unit may be damaged.

d027r123

6. Remove the front joint [A] ($\mathscr{F} \times 2$, $\mathsf{L}^{\square} \times 1$).



• The front joint [A] is firmly set. Remove it with a flat screwdriver.

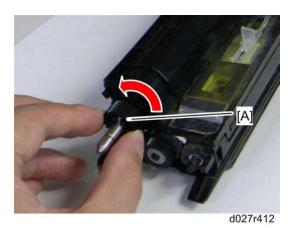


d027r124

7. Drum unit [A] and Development Unit [B]



• When the development unit is removed from the drum unit, clean the entrance mylar [C] with a vacuum.

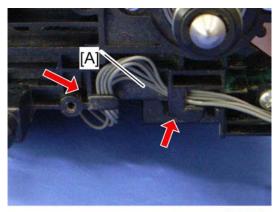


8. Rotate the development roller [A] five or six times in the counterclockwise direction.



- This step removes developer that has stuck to the development roller, which would cause color unevenness.
- 9. If you change the development unit, do the ACC procedure.
- 10. Execute the drum phase adjustment with SP1902-001 twice.

When reassembling the PCDU:



d027r681

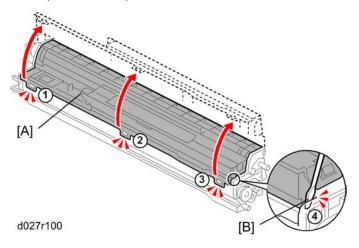
• Make sure that the harness [A] is hooked as shown.

Developer

1. Set SP 3902-xxx to "1".

Black: 3902-005 Yellow: 3902-006 Cyan: 3902-007 Magenta: 3902-008

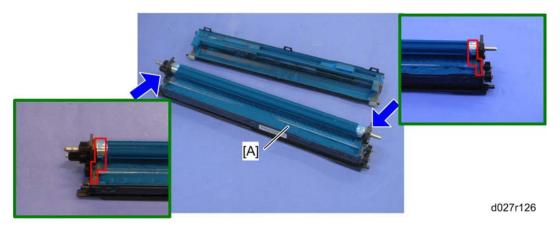
- 2. Turn the machine power off.
- 3. Development unit (p.206)



- 4. Hopper cover [A] (4 hooks)
 - Release the three hooks first in the correct order (from ① to ③).
 - Put the head of a screwdriver in the groove gap [B] as shown, and then release the hook 4.

ACAUTION

Follow the correct order ① to ④. Otherwise, the hopper cover may be damaged. The hook
 ④ breaks easily.



- 5. Shake a bag of developer and pour it into the development hopper [A].
- 6. Reattach the hopper cover (hook x 3).

ACAUTION

• Keep the developer off at both ends of the development unit enclosed in red lines in the diagram.

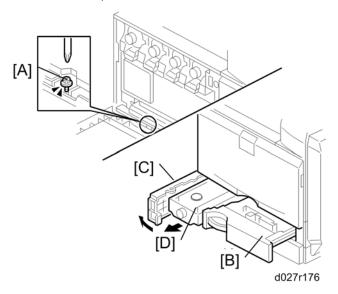
- 7. Turn the machine power on. The machine initializes the developer and resets the PM counter for the developer. (For details of the developer initialization result, see "Developer Initialization Result" in the "Appendix: Process Control Error Conditions" chapter.
- 8. Do the ACC procedure.

Toner Collection Bottle

If you will install a new bottle, and the old bottle is not in a full or near-full condition, then set SP 3902-017 to 1.



- If you do this, then the machine will reset the PM counter for the bottle automatically, after you turn the power on again.
- If the bottle is in a full or near-full condition, it is not necessary to do this.
- 1. Turn off the main power switch.



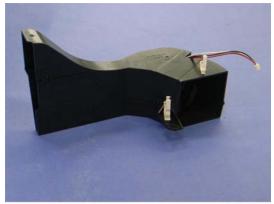
- 2. Open the front door and remove the screw [A].
- 3. Close the front door.
- 4. Pull out tray 1 [B].
- 5. Open the toner collection bottle door [C].
- 6. Pull out the toner collection bottle [D].

- 1. Rear cover (**p**. 174)
- 2. Right rear cover (Fr. p. 174)
- 3. Open the controller box (** p.309 "Controller Box")



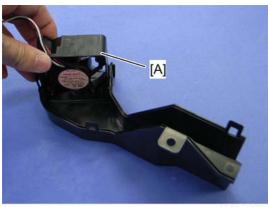
d027r127

4. Second duct [A] (\$\mathbe{x} \times 2, □ x 1, □ x 2)



d027r128

5. Split the second duct (4 hooks).



d027r129

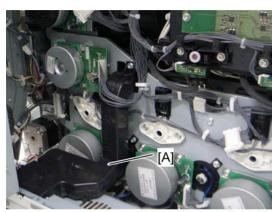
6. Second duct fan [A]

When reinstalling the second duct fan

Make sure that the second duct fan is installed with its decal facing to the front of the machine.

Third Duct Fan

- 1. Rear cover (p. 174)
- 2. Right rear cover (p.174)
- 3. Open the controller box (** p.309 "Controller Box")



d027r130

4. Third duct [A] (♠ x 2, 🕮 x 1)



d027r131

5. Third duct fan [A] (3 hooks)

When reinstalling the third duct fan

Make sure that the third duct fan is installed with its decal facing to the upper side of the machine.

Toner Pump Unit

There are four pump units inside the machine. This procedure describes the replacement procedure only for one unit. If you need to replace another unit, do the same as this procedure.



• Put some sheets of paper on the floor before doing this procedure. Toner may fall on the floor.



d027r132

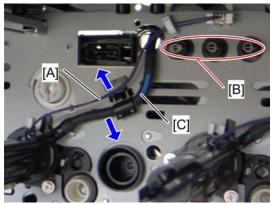
- 1. Rear cover (p. 174)
- 2. Image transfer belt unit (** p.221)
- 3. All PCDUs (p.205)

4

4. Put a sheet of paper (A3/DLT) inside the machine as shown and on the floor.



• The sheet of paper on the floor is used in a later step.

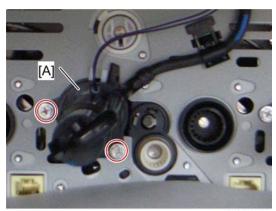


d027r134

5. Release the harness [A] from the clamp (🖼 x 1 for YCM, 🖼 x 2 for K) and hook, and then disconnect the harness.



- Avoid touching these spring terminals [B].
- 6. Release the toner supply tube [C].



d027r135

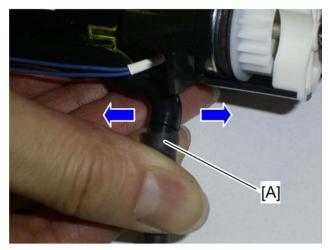
7. Remove the toner pump unit [A] (\mathscr{F} x 2)





d027r136

 Make sure that a sheet of paper is attached to the frame of the rear side. The picture on the left shows a sheet of paper that is correctly set, but the picture on the right shows a sheet of paper that is not correctly set. This sheet of paper prevents toner and screws from falling into the laser optics housing unit through cutouts.

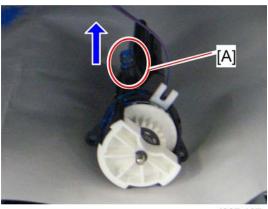


d027r705

- 8. Slowly remove the toner supply tube [A] from the toner pump unit by pulling the tube right and left.
- 9. Turn up the openings of the toner pump unit and toner supply tube just after removing the tube.

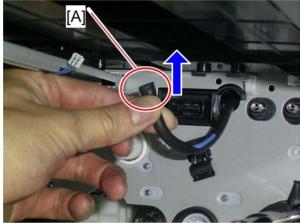


• If not, the toner may scatter away and fall down.



d027r137

10. Put the toner pump unit on the sheet of paper, which has been put in step 4, with its opening [A] up.

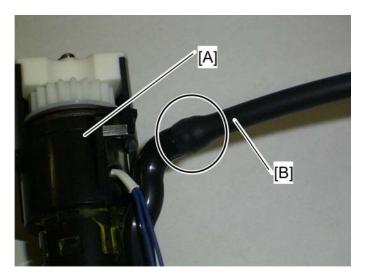


d027r707

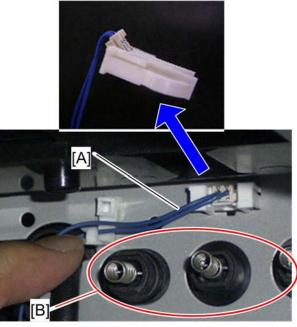
11. Keep the opening [A] of the toner supply tube up, and then clip the opening of the toner supply.

When you install the new toner pump unit

Before installing the new toner pump unit, mask the opening of the old toner pump unit with tape. Dispose of it following local rules.



- 1. Put a sheet of paper (A3/DLT) inside the machine.
- 2. Turn up the opening of the toner supply tube, and then remove the object that was used to clip the opening of the toner supply tube.
- 3. Insert the opening of the toner pump unit [A] into the opening of the toner supply tube [B] as far as possible.



d027r709

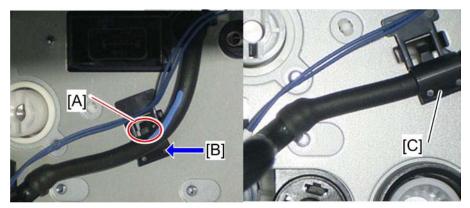
4. Connect the harness [A] to the connector of the machine.



- On the above picture, the magnified picture of the connector shows the easiest way to connect
 it
- 5. Clamp the harness [A] (🖨 x 1 for YCM, 🖨 x 2 for K).



• Avoid touching these spring terminals [B].

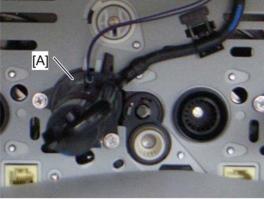


d027r710

- 6. Pass the harness of the toner pump unit behind the hook [A], while pressing at [B].
- 7. Secure the toner supply tube with the holder [C], lifting up the edge of the holder "very gently".

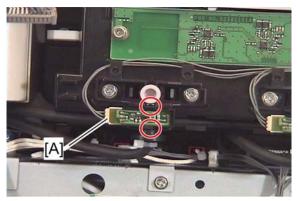


• Be careful when you lift the edge of the holder, because the holder is easily broken.



d027r135a

8. Insert the toner pump unit [A] into the rear frame of the machine ($\mathcal{F} \times 2$).



d027r042

- 1. Rear cover (p.174)
- 2. Open the controller box (** p.309 "Controller Box")
- 3. Toner end sensor [A] (🗗 x 1, 2 hooks each)



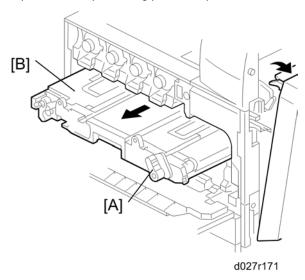
• A toner end sensor is not installed in the entrance of the toner supply tube for black.

4

Image Transfer

Image Transfer Belt Unit

- 1. Open the right door.
- 2. Open the front door.
- 3. Open the drum positioning plate. (IF p.205 "PCDU")



- 4. Turn the image transfer belt unit lock lever [A] counterclockwise.
- 5. Pull out the image transfer belt unit [B] halfway.

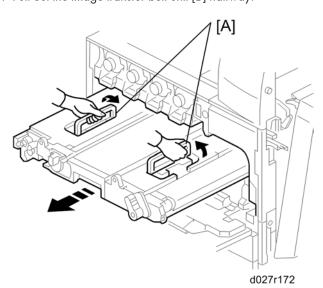
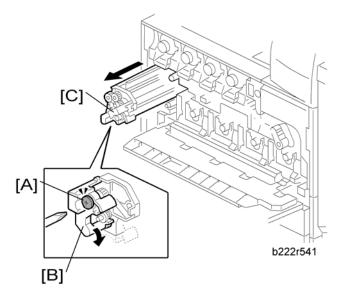


Image Transfer Belt Cleaning Unit

1. If you will install a new belt cleaning unit, then set SP 3902-015 to 1.



- If you do this, then the machine will reset the PM counter for the belt cleaning unit automatically, after you turn the power on again.
- Do not use SP3902-015 or 013 if you replace the complete ITB unit.
- 2. Turn off the main power switch.
- 3. Open the right door.
- 4. Open the front door.
- 5. Open the drum positioning plate. (Pr p.205)



- 6. Loosen the screw [A].
- 7. Turn the lock lever [B] clockwise
- 8. Pull out the image transfer belt cleaning unit [C].

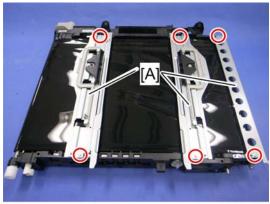
Image Transfer Belt

- 1. Image transfer belt cleaning unit (** p.222)
- 2. Image transfer belt unit (** p.221)



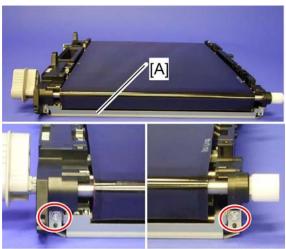
d027r138

- 3. Turn the image transfer unit contact lever [A] counterclockwise (as seen from the rear).
- 4. Gear [B] (hook x 1)
- 5. Turn the gear cover [C] clockwise (as seen from the rear) (\mathcal{F} x 1).



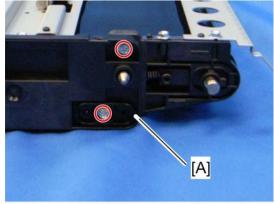
d027r139

6. Three stays [A] (🗗 x 6)



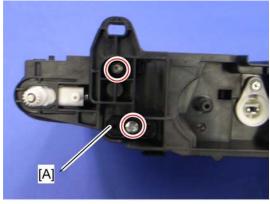
d027r545

7. Guide plate [A] (as seen from the right side of the machine) ($\rat{P} \times 2$)



d027r545a

8. Remove the two screws and then the rear holder bracket [A] (as seen from the rear).



d027r140

9. Remove the two screws and then the front holder bracket [A] (as seen from the front).



b222r548

10. Put the front side of the image transfer belt unit on a corner of the table or a box as shown.



d027r549

11. Pull the tension roller [A] as shown.

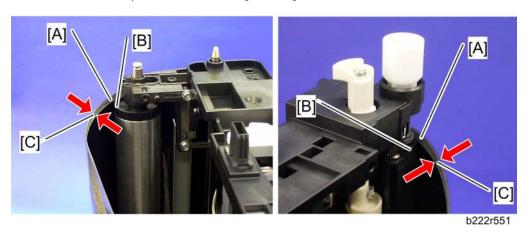


d027r550

12. Image transfer belt [A]

When reinstalling the image transfer belt

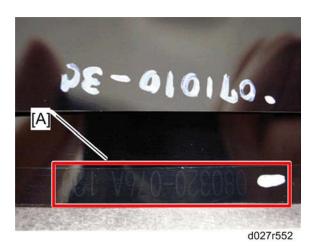
• Clean all rollers with dry cloth before installing the image transfer belt.



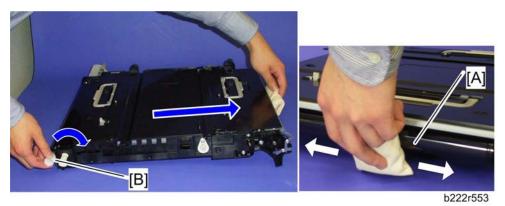
• There is a rim [A] at each edge of the transfer belt. The ends of all the rollers ([B] for example) in the transfer belt unit must be between the two rims.



• There are two rims (width [C]: about 5 mm) on the underside of the front and rear edges of the image transfer belt.



 This belt must be installed the correct way around. When you reinstall the image transfer belt unit, install it with the number [A] on the belt at the rear side of the unit.



Put "Lubricant Powder" (B132 9700) on the surface of the image transfer belt [A], while you turn the
drive gear [B] at a constant speed, as shown. (The straight arrow in the picture shows belt movement
direction.) Lubricant powder prevents the image transfer cleaning blade from turning up.



Do not put the lubricant powder at the right side of the image transfer belt unit (the above picture
is taken from the rear). Otherwise, lubricant powder may damage the encoder sensor.

Paper Transfer

Paper Transfer Roller Unit

If you will install a new paper transfer unit, then set SP 3902-016 to 1.



- If you do this, then the machine will reset the PM counter for the paper transfer unit automatically, after you turn the power on again.
- 1. Open the right door.



d088r141

- 2. Release the white hook.
- 3. Paper transfer roller unit [A]

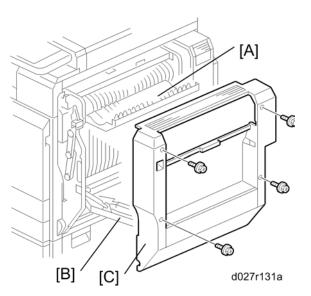
Paper Transfer Unit

If you will install a new paper transfer unit, then set SP3-902-016 to 1.

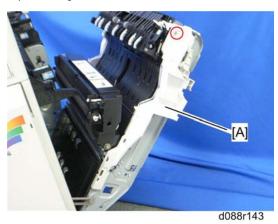


- If you do this, then the machine will reset the PM counter for the paper transfer unit automatically, after you turn the power on again.
- 1. Turn off the main power switch.

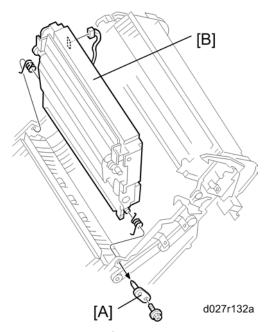
/



- 2. Open the duplex door [A].
- 3. Open the by-pass tray [B]
- 4. Right door cover [C] (* x 4)
- 5. Open the right door.



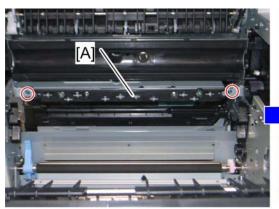
6. Right door inner cover [A] (🏲 x 1)

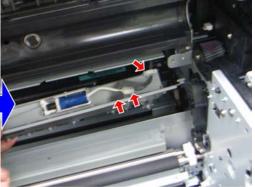


- 7. Pivot bracket [A] (🗗 x 1)
- 8. Paper transfer unit [B] (🗗 x 1, 2 springs)

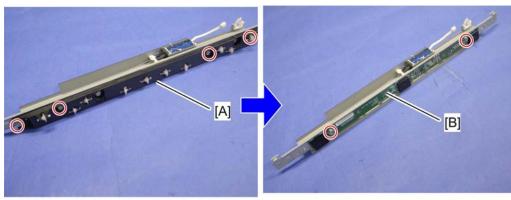
ID Sensor Board

- 1. K PCDU (p.205)
- 2. Open the right door.
- 3. Fusing unit (**p** p.257)
- 4. Image transfer belt unit (** p.221)





d088r145

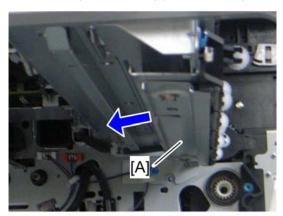


d088r146

- 6. ID sensor cover [A] (F x 4)
- 7. ID sensor board [B] (🗗 x 2)

Cleaning for ID sensors

ID sensors require a cleaning procedure every EM. Do the following steps for ID sensor cleaning.



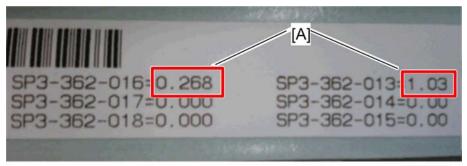
d027r147

- 1. K PCDU (p.205)
- 2. Fusing unit (**p** p.257)
- 3. Image transfer belt unit (p.221)
- 4. Slide the ID sensor shutter [A] to the left side.
- 5. Clean the ID sensors keeping the ID sensor shutter to the left.

After installing a new ID sensor unit/board

Do the following adjustment after installing a new ID sensor unit/board.

- 1. Plug in and turn on the main power switch of the copier.
- 2. Enter the SP mode.



d088r502

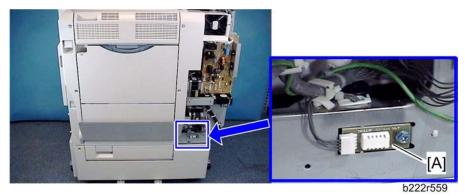
3. Input two correction coefficients [A] for the ID sensor with SP3-362-013 and SP3-362-016 on the barcode sheet provided with the new ID sensor unit/board.



- For example, input "1.03" with SP3-362-013.
- SP numbers other than SP3-362-013 and -016 are not required for this procedure.
- 4. Exit the SP mode.

Temperature and Humidity Sensor

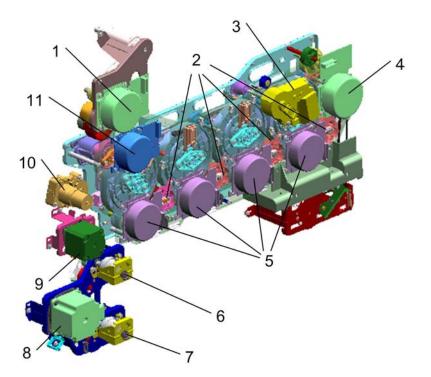
- 1. Rear cover (p. 174)
- 2. Right rear cover (IPP p. 174)



3. Temperature and humidity sensor [A] (> x 1, 🕮 x 1)

4

Drive Unit



The drawing above shows the drive unit layout.

- 1. Fusing/paper exit motor
- 2. Development clutches
- 3. Image transfer belt contact motor
- 4. Toner transport motor
- 5. Drum/Development drive motors
- 6. Paper feed clutch Tray 1

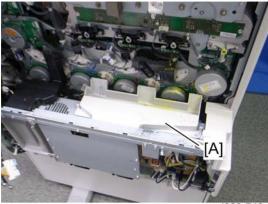
- 7. Paper feed clutch Tray 2
- 8. Paper feed motor
- 9. Registration motor
- 10. Paper transfer contact motor
- 11. ITB drive motor

There are some motors and clutches that are not shown in the above drawing:

- Tray lift motor 1 and 2
- Duplex inverter motor
- Duplex/By-pass Motor

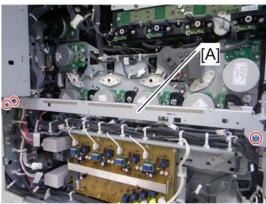
- Junction gate 1 motor
- Shutter motor
- By-pass clutch

- 1. All PCU's
- 2. Image transfer belt unit (** p.221)
- 3. Rear cover (p. 174)
- 4. Controller box (** p.309)



d088r746

- 5. Toner sump cover [A] (hooks)
- 6. Third duct (p.213)
- 7. Left cover (**p**.173)
- 8. PSU bracket (p.314 "PSU")



d027r148

9. Remove the rear stay [A] (> x 3).



d027r149

10. Remove ten clamps (blue arrows).



d027r150

11. Release seven clamps and turn each harness aside.



d027r151

12. Disconnect four connectors (red arrows).

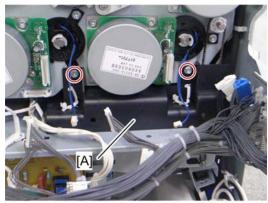
d027r152

13. Disconnect two connectors (red arrows) and put these harnesses inside the machine.



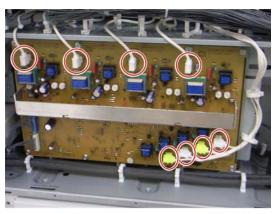
d027r153

- 14. Disconnect each connector (red circles) from the drum/development drive motors (🗗 x 1, 🖨 x 1 each).
- 15. Disconnect each connector (blue circles) from the development clutches (\mathbf{CI} x 1 each).



d027r155

16. Cover [A] (🗗 x 2)



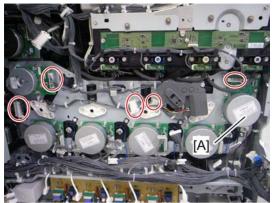
d027r156

17. Disconnect eight connectors from the high voltage supply board (x 8, x 2).



d027r157b

18. Release four clamps (red circles) and turn the harnesses aside.

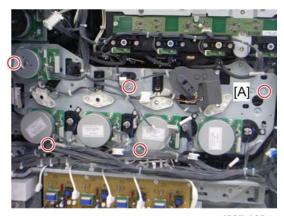


d027r158

- 19. Disconnect five connectors (red circles) (x 5).
- 20. Toner transport motor [A] (🗗 x 3)

d027r159

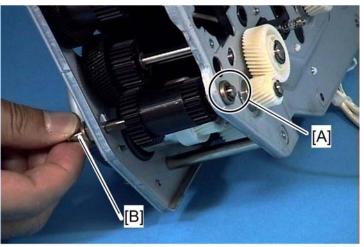
21. Pulley [A] (timing belt)



d027r160a

22. Gear unit [A] (🔊 x 8)

When installing the drive unit



b222r573

Make sure that the bushing [A] is fully set in the frame of the gear unit before installing the timing belt and pulley to the shaft [B].

Adjustment after replacing the gear unit

Do the following procedures after replacing the gear unit.

- 1. Turn on the main power switch.
- 2. Enter "System SP" in the SP mode.
- 3. Do "Amplitude Control" with SP1-902-001.
- 4. Check the result of the Amplitude Control with SP1-902-002.
 - 0: Success, 2: Failure due to no sampling data,
 - 3: Failure due to insufficient number of pattern detections

When the result of this adjustment is "2" or "3":

- Check that all the PCUs are correctly set and that the image transfer belt unit is correctly set.
- Do "Amplitude Control" again after checking the PCUs and image transfer belt unit.

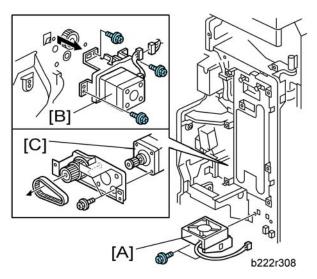
When the result is still "2" or "3" after checking the PCUs and image transfer belt unit:

- · Check that the gear unit is installed correctly.
- 5. Exit the SP mode.

Registration Motor

1. Rear cover (**p**.174)

- 2. Right rear cover (p.174)
- 3. Ventilation duct (p.314 "PSU")
- 4. Turn the harnesses aside (🖨 x 5)



- 5. Fusing power supply board fan bracket [A] (** x 2, ** x 1)
- 6. Registration motor assembly [B] (** x 3, ** x 1)
- 7. Registration motor [C] (** x 2, timing belt)

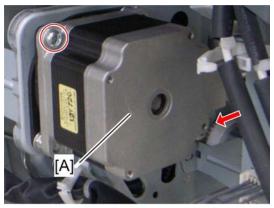
Paper Feed Motor

- 1. Rear cover (**p** p.174)
- 2. Right rear cover (Fr. p. 174)



d027r161

3. Release the two clamps (🖨 x 2)

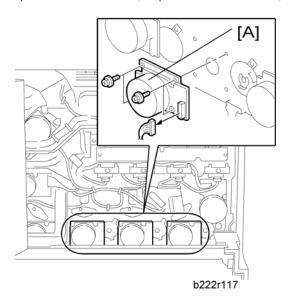


d027r162a

4. Paper feed motor [A] (x 1, F x 2, timing belt)

Drum/Development Motors for M, C, and Y

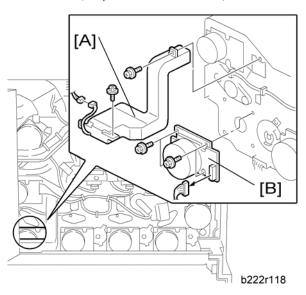
- 1. Rear cover (p. 174)
- 2. PSU bracket (p.314 "PSU")
- 3. Open the controller box (p.309 "Controller Box").



4. Drum/Development motors (three motors, one each for MCY) [A] (*x 4, * x 1 each)

Drum/Development Motor-K

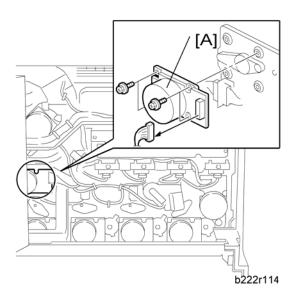
- 1. Rear cover (p. 174)
- 2. PSU bracket (p.314 "PSU")
- 3. Controller box (** p.309 "Controller Box")



- 5. Drum/Development motor-K [B] (🗗 x 4, 📬 x 1)

ITB Drive Motor

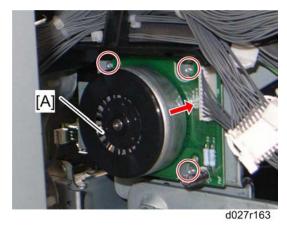
- 1. Rear cover (p. 174)
- 2. Controller box (p.309 "Controller Box")



3. ITB drive motor [A] (** x 4, *** x 1)

Fusing/Paper Exit Motor

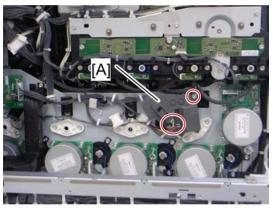
- 1. Rear cover (p. 174)
- 2. Controller box (** p.309 "Controller Box")



3. Fusing/paper exit motor [A] (> x 3, 🗂 x 1)

Image Transfer Belt Contact Motor

- 1. Rear cover (**p**.174)
- 2. Controller box (** p.309 "Controller Box")

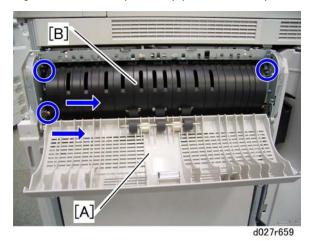


d027r164

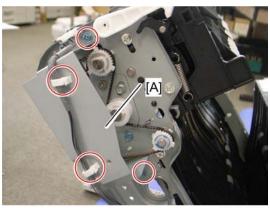
3. Transfer belt contact motor [A] (🔊 x 2, 🗂 x 2)

Duplex Inverter Motor

- 1. Open the right door.
- 2. Right door cover (** p.292 "By-pass Bottom Tray")

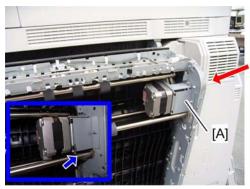


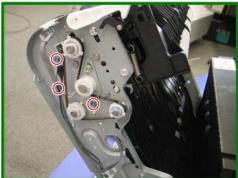
- 3. Duplex door [A] (2 hooks)
- 4. Duplex guide plate [B] (🌶 x 3, 2 hooks)



d027r166

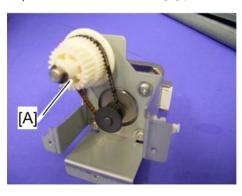
5. Duplex inverter motor bracket cover [A] (\ref{eq} x 2, \ref{eq} x 2)

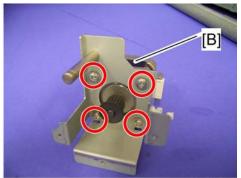




d027r660b

6. Duplex inverter motor bracket [A] (🎤 x 3, 🚅 x 1, 🚔 x 1)

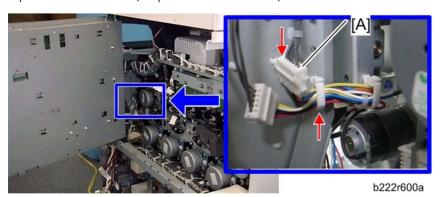




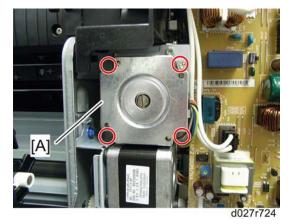
d027r661

- 7. Gear [A] (**©** x 1, belt x 1)
- 8. Duplex inverter motor [B] (* x 4)

- 1. Rear cover (p. 174)
- 2. PSU bracket (** p.314 "PSU")
- 3. Open the controller box (p.309 "Controller Box").



4. Disconnect the connector [A] (🖨 x 1).



5. Pressure roller contact motor [A] (** x 4)

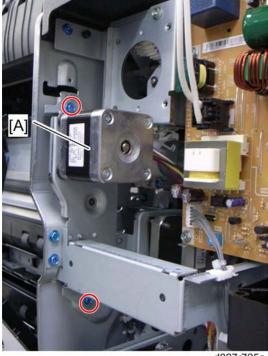
Duplex/By-pass Motor

- 1. Rear cover (p. 174)
- 2. PSU bracket (p.314 "PSU")
- 3. Open the controller box (** p.309 "Controller Box").
- 4. Pressure roller contact motor (** p.246)



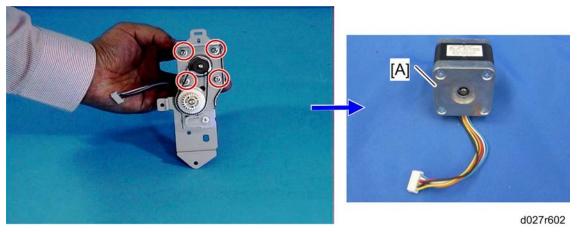


5. Disconnect the connector [A] (\square x 1, \square x 1)



d027r725a

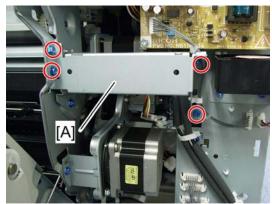
6. Duplex/by-pass motor bracket [A] (\rat{p} x 2)



7. Duplex/by-pass motor [A] (** x 4, belt x 1)

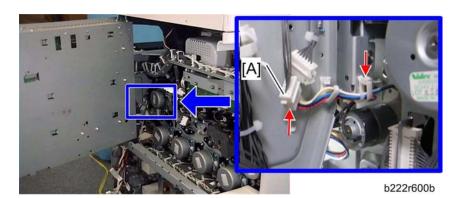
Paper Transfer Contact Motor

- 1. Rear cover (p.174)
- 2. PSU bracket (** p.314 "PSU")
- 3. Open the controller box (** p.309 "Controller Box").

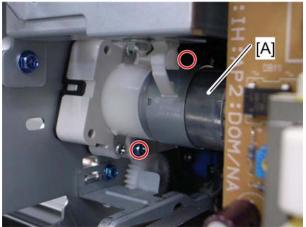


d027r723

- 4. Stay [A] (F x 4)
- 5. Pressure roller contact motor (** p.246)
- 6. Duplex/by-pass motor bracket (** p.246)



7. Disconnect the connector [A] (🖨 x 1)



d027r726

8. Paper transfer contact motor [A] (\mathscr{F} x 2)

NOTE:

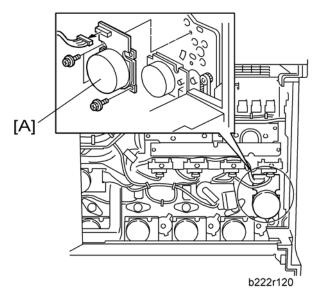
The picture below shows how to use the screwdriver to remove the screws of the paper transfer contact motor.



d027r727

Toner Transport Motor

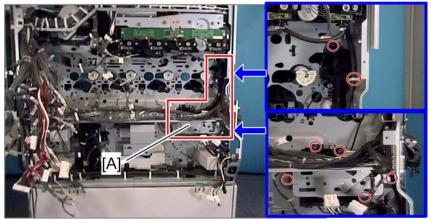
- 1. Rear cover (p. 174)
- 2. Open the controller box (** p.309 "Controller Box").



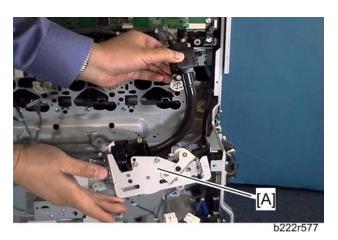
3. Toner transport motor [A] ($\mathcal{F} \times 3$, $\square \times 1$)

Toner Collection Unit

1. Gear Unit (**p** p.234)



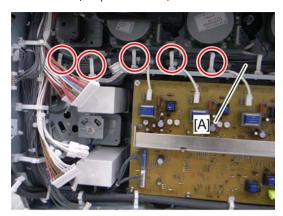
b222r576



2. Toner collection unit [A] ($\mathscr{F} \times 6$, $\ \ \times \ 1$)

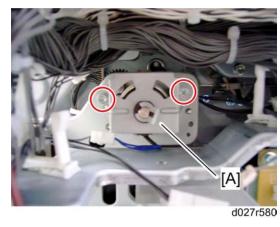
Paper Feed Clutches

- 1. Rear cover (**p**. 174)
- 2. PSU bracket (** p.314 "PSU")

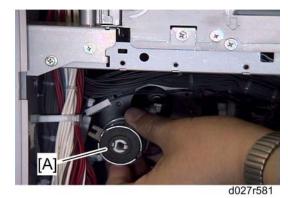


d027r578

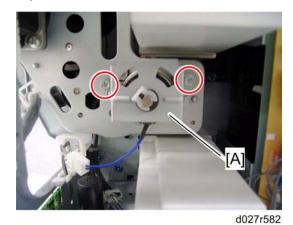
3. Release five clamps, and then turn the harness [A] aside.



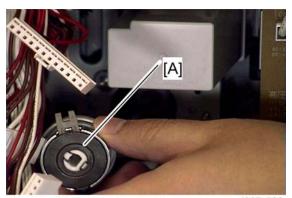
4. Paper feed clutch 1 bracket [A] ($\mbox{\ensuremath{\not\sim}} \times 2$, $\mbox{\ensuremath{\not\sim}} \times 1$, $\mbox{\ensuremath{\not\sim}} \times 1$, $\mbox{\ensuremath{\not\sim}} \times 1$



5. Paper feed clutch 1 [A]



6. Paper feed clutch 2 bracket [A] ($\mbox{\ensuremath{\not\sim}} \times 2$, $\mbox{\ensuremath{\not\sim}} \times 1$, $\mbox{\ensuremath{\not\sim}} \times 1$)

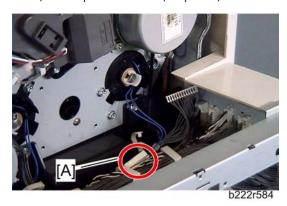


d027r583

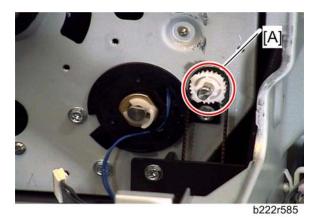
7. Paper feed clutch 2 [A]

Development Clutch-Y

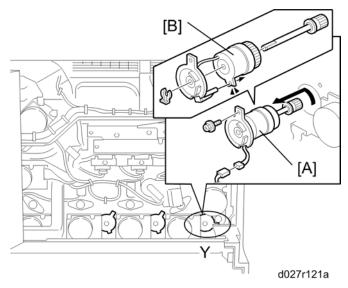
- 1. Rear cover (p. 174)
- 2. PSU bracket (p.314 "PSU")
- 3. Open the controller box. (** p.309 "Controller Box").
- 4. Drum/development motor-Y (p.241)



5. Disconnect the connector [A] (x 1).



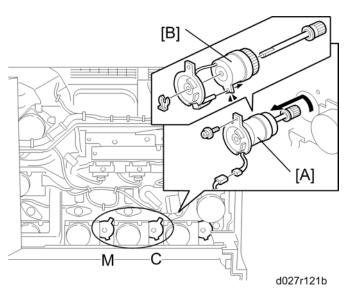
6. Remove the pulley and bushing [A].



- 7. Turn the development clutch unit [A] counter-clockwise and then pull it out (\mathcal{F} x 1).
- 8. Development clutch-Y [B] (🖾 x 1)

Development Clutches for M and C

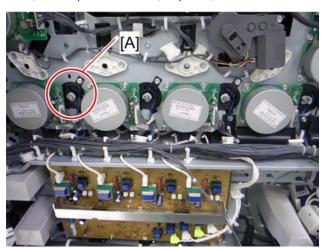
- 1. Rear cover (p.174)
- 2. PSU bracket (p.314 "PSU")
- 3. Open the controller box. (IF p.309 "Controller Box").
- 5. Disconnect the connector for each development clutch (🖾 x 1).



- 6. Turn the development clutch unit [A] counter-clockwise and then pull it out ($\mathcal{F} \times 1$).

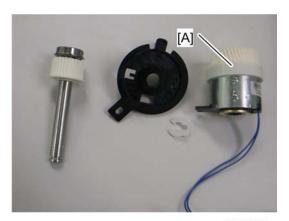
Development Clutch-K

- 1. Rear cover (p. 174)
- 2. PSU bracket (p.314 "PSU")
- 3. Controller box (IP p.309 "Controller Box")
- 4. Drum/development motor-K (p.242)



d027r586

5. Turn the development clutch unit [A] counter-clockwise and then pull it out ($\mathcal{F} \times 1$).



d027r167

6. Development clutch-K [A] (♥ x 1)

Fusing

Fusing Unit Maintenance Parts

In the fusing unit, there are some maintenance parts. However, these parts are defined as EM parts. Refer to the following list to check the maintenance parts.

Maintenance Parts	Replacement Procedure
Heating Roller	▶ p.260
-Bearing	I p.260
Pressure Roller	I p.268
-Bearing	I p.268

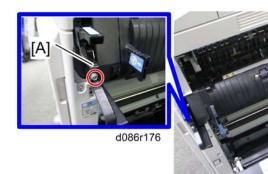
Fusing Unit



- 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.
- 1. If you will replace the heating roller or pressure roller in the fusing unit (at PM for example), then reset each counter.
 - Set SP 3902-018 to "1" for the heating roller replacement.
 - Set SP 3902-019 to "1" for the pressure roller replacement.

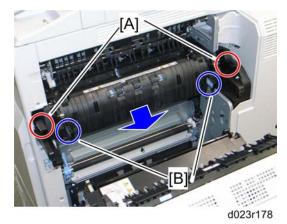


- If you do this, then the machine will reset the PM counter for the heating roller or pressure roller automatically, after you turn the power on again.
- It is not necessary to clear the PM counter for the fusing unit with SP mode when you replace the fusing unit. This is because the fusing unit has a new unit detection mechanism.
- 2. Turn off the main power switch.
- 3. Open the right door.





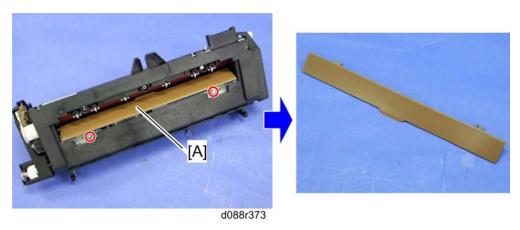
- 4. Front fusing stopper [A] (*x 1)
- 5. Rear fusing stopper [B] (*x 1)



- 6. Release the lock levers [A].
- 7. Hold the fusing unit handles [B], and then pull out the fusing unit.

Fusing Entrance Guide Plate

1. Fusing unit (**P** p.257)



2. Fusing entrance guide plate [A] (F x 2)

Cleaning Requirement

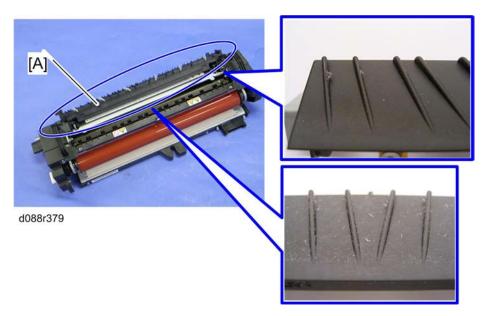


The fusing entrance guide plate requires cleaning maintenance every fusing unit maintenance interval. Clean the fusing entrance guide plate at the place shown above with a dry cloth, and then clean the fusing entrance guide plate again with a cloth moistened with alcohol.

Fusing Exit Guide Plate Cleaning Procedure

The fusing exit guide plate requires cleaning maintenance every fusing unit maintenance interval.

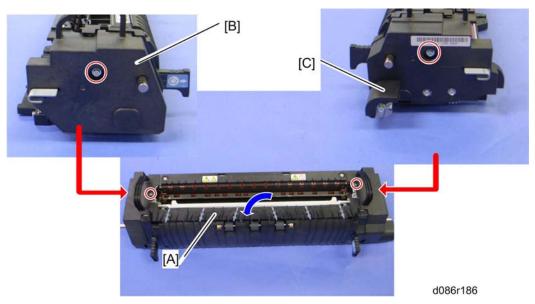
1. Fusing unit (p.257)



- 2. Open the exit guide plate [A].
- 3. Clean the exit guide plate with a dry cloth, and then clean the exit guide plate again with a cloth moistened with alcohol at the points shown above.

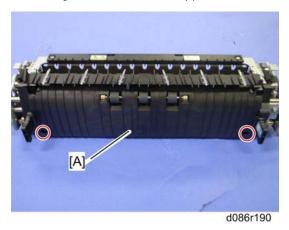
Heating Roller and Heating Roller Bearing

1. Fusing unit (**p** p.257)

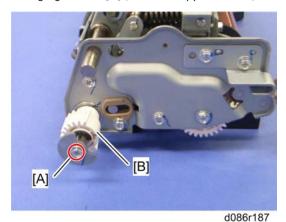


2. Open the jam removal door [A].

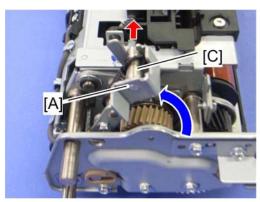
- 3. Front fusing cover [B] (F x 2; Stepped screws)
- 4. Rear fusing cover [C] (** x 2; Stepped screws)

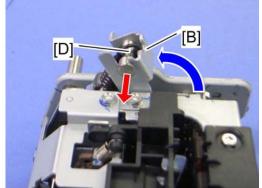


5. Fusing right cover [A] (*x 2; Stepped screws)



6. Pressure roller contact shaft actuator [A] and pressure roller contact shaft gear [B] ($F \times 1$, $C \times 1$)



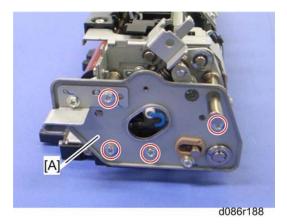


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7. Turn both pressure levers [A] [B], and pull out pins [C] [D].

ACAUTION

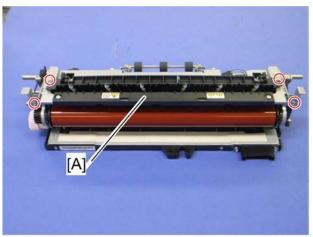
• If the pins [C] [D] are not pulled out in this step, the fusing unit frames may become bent.



8. Front bracket [A] (🏲 x 4)

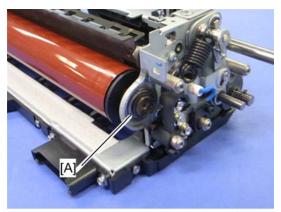


9. Rear bracket [A] (🗗 x 4)



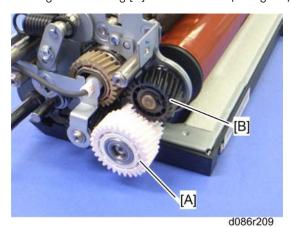
d086r195

10. Top stay [A] (🗗 x 4)



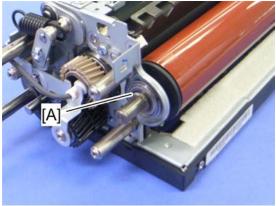
d086r208

11. Heating roller bearing [A] at the front side (C-ring \times 1)



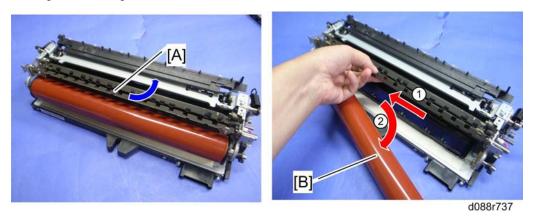
12. Fusing drive gear [A]

13. Heating roller gear [A] (C-ring x 1)

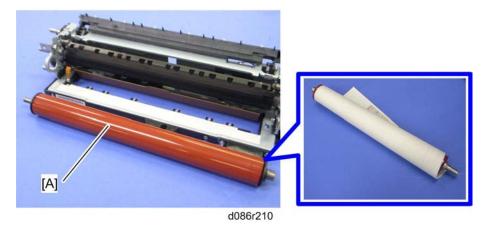


d086r217

14. Heating roller bearing [A] at the rear side



15. Keep the heating roller stripper plate [A] open, and then remove the heating roller [B].

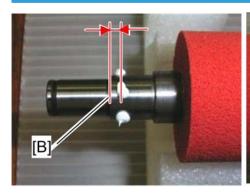


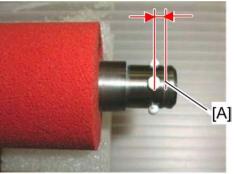
16. Heating roller [A]



• The surface of the heating roller is fragile, so the heating roller must be covered with a sheet of paper when it is placed on a table or floor.

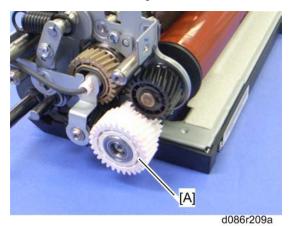
When re-installing the heating roller





b222r682

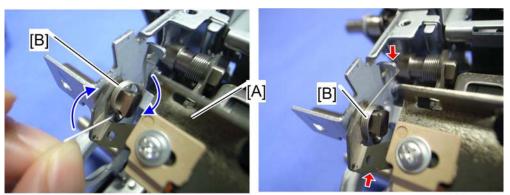
- 1. Apply three spots of "Barrierta S552R" (the diameter of each spot must be about 3 mm in diameter, and approximately 0.1 g in weight) to the front shaft of the heating roller at 2 3 mm from the notch [A].
- 2. Apply three spots of "Barrierta S552R" (the diameter of each spot must be about 3 mm in diameter, and approximately 0.1 g in weight) to the rear shaft of the heating roller at 2 3 mm from the edge [B] (rear side of the heating roller).



U Note

Do not wipe off the grease of the new fusing drive gear when replacing the fusing drive gear
 [A].

Heating Roller Stripper Plate Installation



d086r738

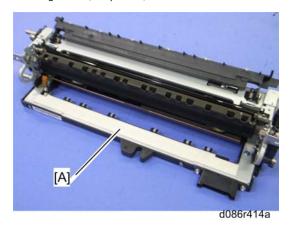
The heating roller stripper plate may come off the fusing unit frame after removing the heating roller.

When reinstalling the heating roller stripper plate:

- 1. Set the heating roller stripper plate [A] on the fusing frame first.
- 2. Attach the springs [B] (front and rear) correctly as shown above.
- 3. Turn the springs as shown above so that the springs hook the fusing unit frame and heating roller stripper plate.
- 4. Hold the heating roller stripper plate, and then install the heating roller.
 - The heating roller stripper plate is not supported before installing the heating roller in the fusing unit frame. If you stop holding, the heating roller stripper plate can fall down.

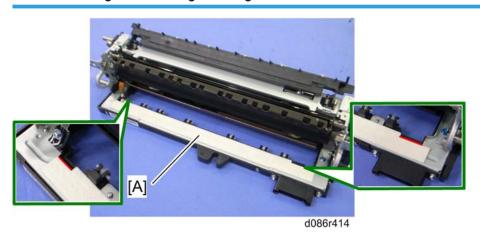
Fusing Cleaning Felt

- 1. Fusing unit (**p** p.257)
- 2. Heating roller (** p.260)



3. Remove the fusing cleaning felt [A].

When attaching a new fusing cleaning felt



Attach the fusing cleaning felt [A], aligning both edges of the fusing cleaning felt with the red lines on the bottom cover.



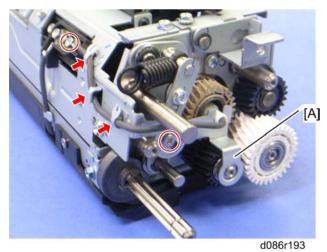
Make sure that the fusing cleaning felt is correctly attached to the frame. Otherwise, dust from the IH
coil unit may fall on the paper in the fusing unit and the output becomes dirty.

Fusing Lamp

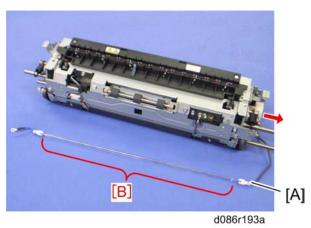
- 1. Fusing unit (**p** p.257)
- 2. Front bracket (**p** p.260)
- 3. Rear bracket (p.260)



d086r192



- 5. Rear terminal of the fusing lamp (* x 1, * x 3)
- 6. Fusing lamp rear bracket [A] (🗗 x 1)



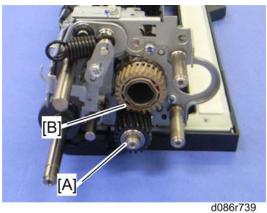
7. Fusing lamp [A]

ACAUTION

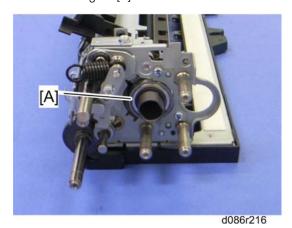
- Remove the fusing lamp without touching the glass part [B].
- Pay attention to the direction of the fusing lamp during the re-installation.

Pressure Roller and Pressure Roller Bearing

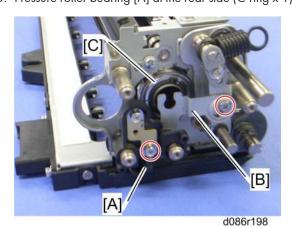
- 1. Heating roller(p.260)
- 2. Fusing lamp (p.267)



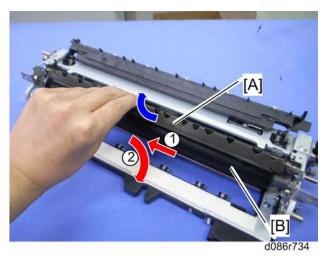
- 3. One-way clutch gear [A]
- 4. Pressure roller gear [B] at the rear side



5. Pressure roller bearing [A] at the rear side (C-ring x 1)

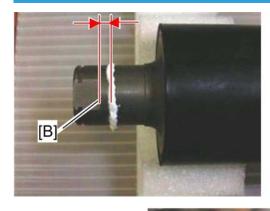


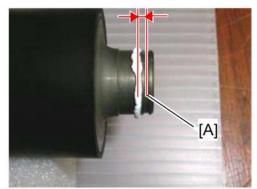
- 6. Front terminal [A] (F x 1)
- 7. Lamp holder front bracket [B] (🎤 x 1)

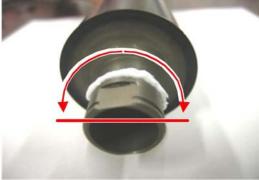


- 9. Keep the pressure roller stripper plate [A] open.
- 10. Pressure roller [B]

When re-installing the pressure roller

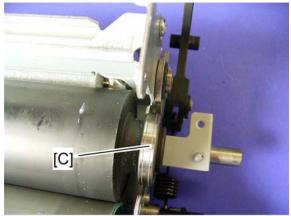






b222r683

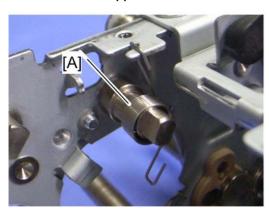
1. Apply "Barrierta S552R" to the front shaft of the pressure roller at 2 mm from the notch [A], and to the rear shaft of the pressure roller at 2 mm from the edge [B]. (Apply the lubricant to half of the circumference of the pressure roller, as shown in the lower of the three above diagrams.)

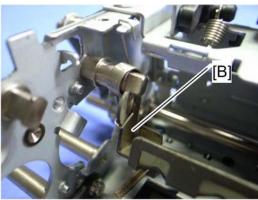


b222r648

2. Make sure that pressure roller bearing [C] at the front side is set as shown above.

Pressure Roller Stripper Plate Installation

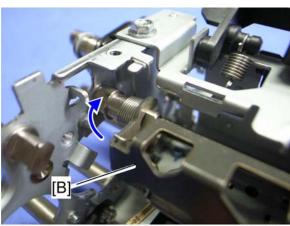




d086r740

When reinstalling the pressure roller stripper plate:

- 1. Set the springs [A] (front and rear) correctly as shown above.
- 2. Install the pressure roller stripper plate [B] in the fusing unit frame as shown above.



d086r740a

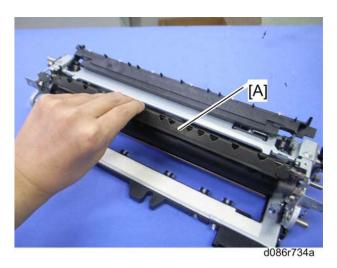
- 3. Turn the pressure roller stripper plate [B].
- 4. Hold the pressure roller stripper plate, and then install the pressure roller.
 - The pressure roller stripper plate is not supported before installing the pressure roller in the fusing unit frame. If you stop holding, the pressure roller stripper plate can fall down.

Stripper Plates

- 1. Fusing unit (p.257)
- 2. Heating roller (** p.260)

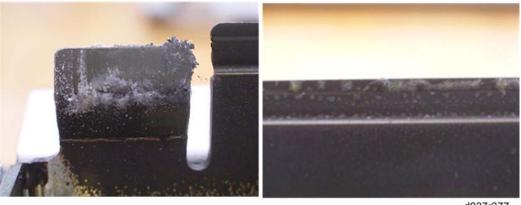


- 3. Heating roller stripper plate [A] (spring x 2)
- 4. Pressure roller (p.268)



5. Pressure roller stripper plate [A] (spring x 2)

Cleaning Requirement

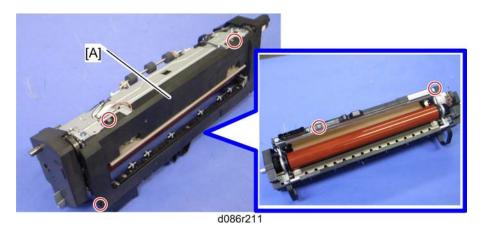


d037r377

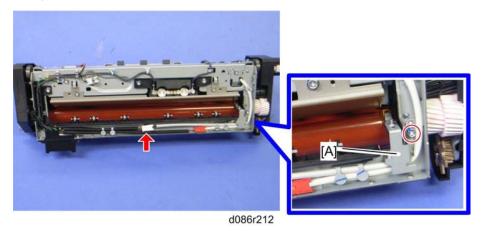
The stripper plates require cleaning maintenance every fusing unit maintenance interval. Clean the stripper plates with a dry cloth, and then clean the stripper plates again with a cloth moistened with alcohol at the points shown above.

Heating Roller Thermistor

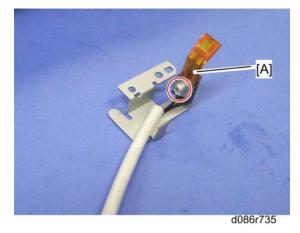
- 1. Fusing unit (p.257)
- 2. Fusing right cover (** p.267 "Fusing Lamp")



3. Fusing bottom cover [A] (*x 5)



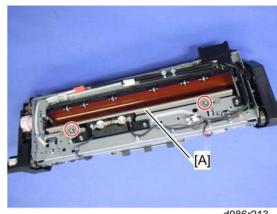
4. Heating roller thermistor with bracket [A] ($\mbox{\ensuremath{\not\sim}} \times 1$, $\mbox{\ensuremath{\not\sim}} 1$



5. Heating roller thermistor [A] ($\rat{p} \times 1$)

Pressure Roller Thermostat

- 1. Fusing unit (p.257)
- 2. Fusing right cover (** p.260 "Heating Roller and Heating Roller Bearing")
- 3. Fusing bottom cover (p.273 "Heating Roller Thermistor")

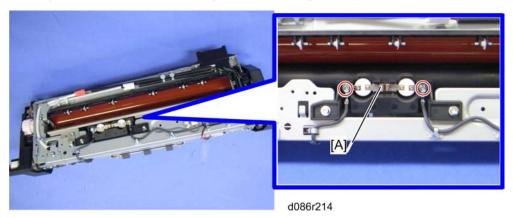


d086r213

4. Entrance guide plate [A] (*x 2)



• The entrance guide plate must be removed with the orientation of the fusing unit as shown above, to protect the surface of the heating roller from damage.

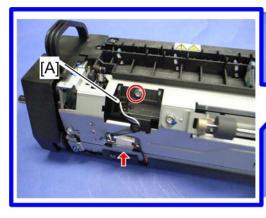


5. Pressure roller thermostats [A] (F x 4)

Pressure Roller Thermistors

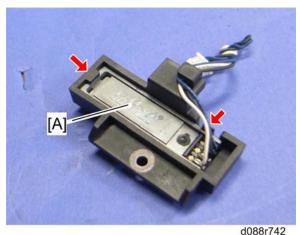
Pressure Roller Thermistor: Center

- 1. Fusing unit (p.257)
- 2. Fusing bottom cover (** p.273 "Heating Roller Thermistor")





3. Thermistor base [A] (🖾 x 1)

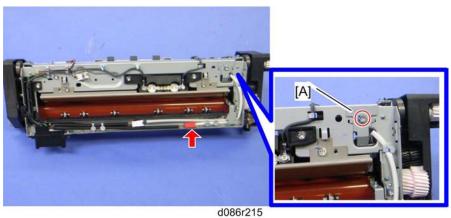


4. Pressure roller thermistor: center [A] (hooks)

Pressure Roller Thermistor: End

- 1. Fusing unit (p.257)
- 2. Fusing right cover (** p.260 "Heating Roller and Heating Roller Bearing")
- 3. Fusing bottom cover (** p.273 "Heating Roller Thermistor")

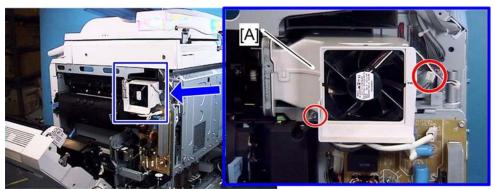




4. Pressure roller thermistor: end bracket [A] (** x 1, ** x 1)

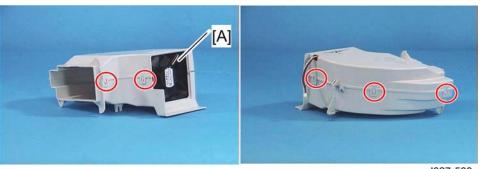
Fusing Fan

- 1. Rear cover (**p**.174)
- 2. Right rear cover (** p.174)



b222r588

3. Fusing duct [A] (🗗 x 1, 📬 x 1)



d027r589

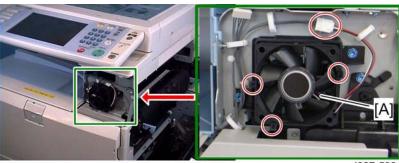
4. Fusing fan [A] (hook x 5)

When installing the fusing fan

Make sure that the fusing fan is installed with its decal facing the right side of the machine.

Paper Exit Fan

- 1. Open the right door.
- 2. Front right cover (p.175 "Operation Panel")



d027r590

3. Paper exit fan [A] (x 1, hook x 3)

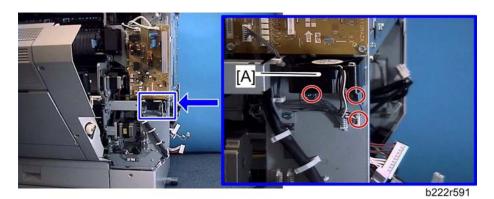
When installing the paper exit fan

UNote

• Make sure that the paper exit fan is installed with its decal facing the rear of the machine.

IH (Induction Heating) Inverter Fan

- 1. Rear cover (p. 174)
- 2. Right rear cover (Fr. p. 174)



3. IH inverter fan bracket [A] (🌶 x 2, 📬 x 1)



b222r592

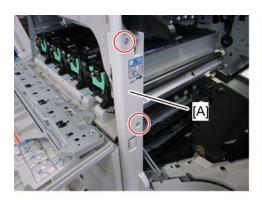
4. IH inverter fan [B] (🌶 x 2)

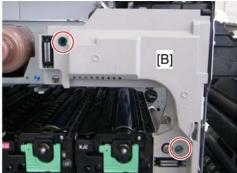
When installing the IH inverter fan

Make sure that the IH inverter fan is installed with its decal facing the upper side of the machine.

Thermopile

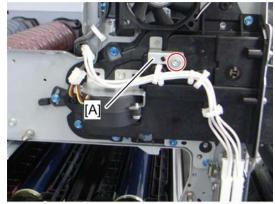
- 1. Open the right door.
- 2. Front right cover (p.175 "Operation Panel")
- 3. Pull out trays 1 and 2, and the image transfer belt unit.





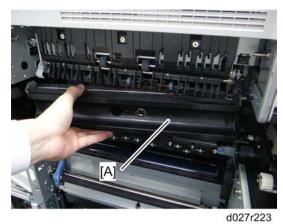
d027r219

4. Right front cover [A] and front inner cover [B]



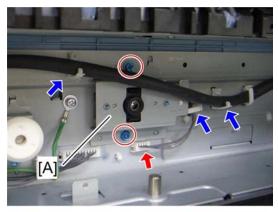
d027r220a

5. Bracket [A] (🗗 x 1)



6. IH coil unit [A]

• First, release the front side of the IH coil unit.



d027r224

- 7. Thermopile bracket [A] (** x 2, 📬 x 1, 🖨 x 3)
- 8. Thermopile (*\bar{\mathbb{P}} x 2)

When cleaning the lens of the thermopile

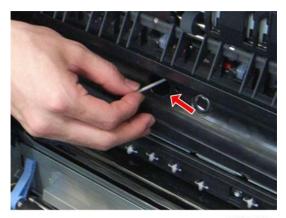
ACAUTION

- Do this cleaning procedure after the fusing unit has completely cooled down. Otherwise, you may get a serious burn.
- Do not push the thermostats on the IH coil unit. If you do, the thermostats will be opened. In that case, the IH coil unit must be replaced.



d027r617

1. Fusing unit (p.257)

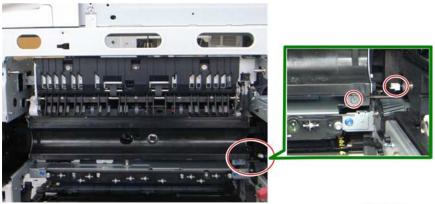


d027r415

2. Clean with a cotton-swab dipped in alcohol.

Pressure Roller HP Sensor

- 1. Open the right door.
- 2. Fusing unit (p.257)

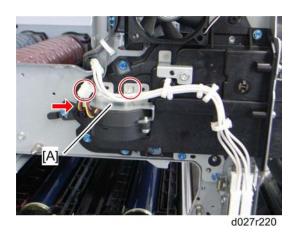


d027r413

3. Pressure roller HP sensor (🏲 x 1, 📬 x 1)

IH Coil Fan

- 1. Open the right door.
- 2. Front right cover (** p.175 "Operation Panel")
- 3. Pull out trays 1 and 2, and the image transfer belt unit (p.279)
- 4. Right front cover and front inner cover (** p.279)



- 6. IH coil fan (🗗 x 2)

IH Coil Unit

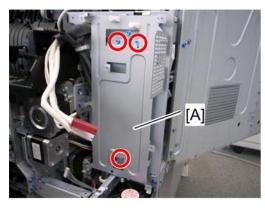
ACAUTION

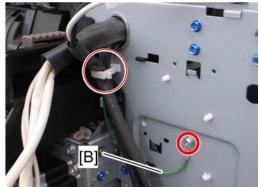
• Do not push the thermostats on the IH coil unit. If you do, the thermostats will be opened. In that case, the IH coil unit must be replaced.



d027r617

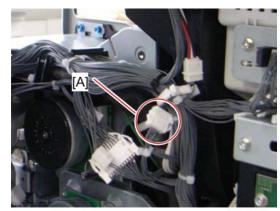
- 1. Fusing unit (p.257)
- 2. Rear cover (p. 174)
- 3. Right rear cover (*p.174)
- 4. Open the controller box (** p.309 "Controller Box").
- 5. Fusing duct (p.277)
- 6. IH inverter (p.317)





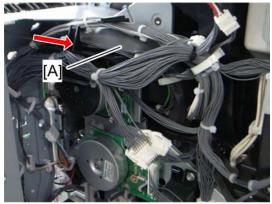
d027r618

- 7. IH inverter bracket [A] 🗗 x 3)
- 8. Ground cable [B] (🌶 x 1, 🖨 x 1)



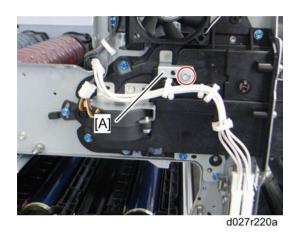
d027r221

9. Remove the connector [A].

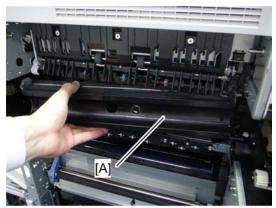


d027r222

10. Pull the Harness [A] in the arrow direction.



11. Bracket [A] (🏲 x 1)



d027r223

12. IH coil unit [A] (First, release the front side of the IH coil unit.)

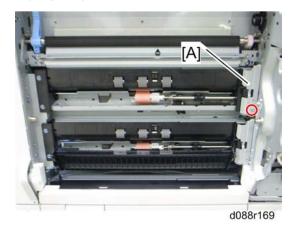
Paper Feed

Paper Feed Unit

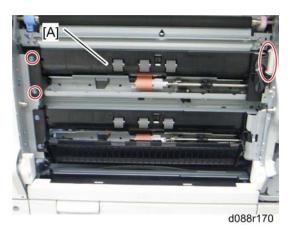
- 1. Rear cover (**p**.174)
- 2. Right rear cover (** p.174)
- 3. Duplex unit (p.301)
- 4. Pull out tray 1 and tray 2.



5. Paper guide plate [A] (tab x 2)



6. Harness cover [A] (🗗 x 1)

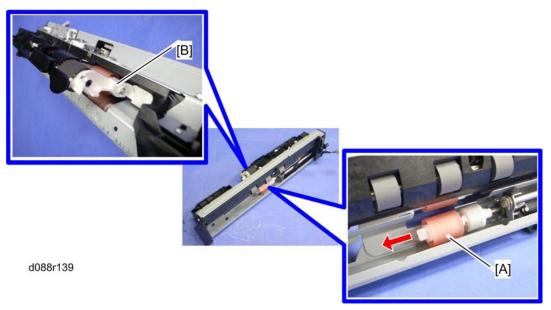


7. Paper feed unit [A] (🔊 x 2, 📬 x 1)

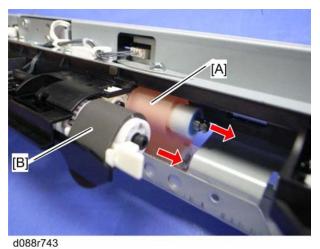
Separation Roller, Feed Roller and Pick-Up Belt Unit

Tray 1 and Tray 2

1. Paper feed unit (** p.286)



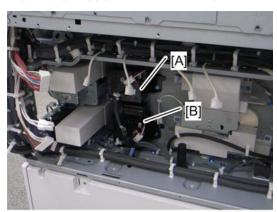
- 2. Separation roller [A] (🖾 x 1)
- 3. Roller holder [B] ((x 1)



- 4. Feed roller [A]
- 5. Pick-up belt unit [B]

Tray Lift Motor

- 1. Rear cover (p. 174)
- 2. PSU bracket (p.314 "PSU")
- 3. High voltage supply board bracket (** p.316)

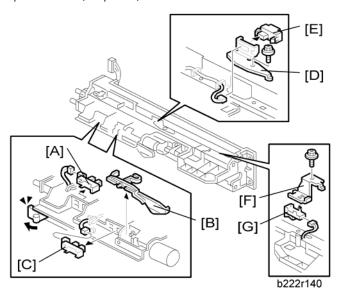


d027r173

Vertical Transport, Paper Overflow, Paper End and Paper Feed Sensor

1. Rear cover (p.174)

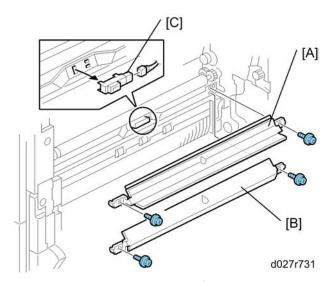
- 2. Right rear cover (p.174)
- 3. Paper feed unit (p.286)



- 4. Paper overflow sensor [A]
- 5. Paper end feeler [B] and paper end sensor [C] (hook, 🗂 x 1 each)
- 6. Vertical transport sensor bracket [D] ($\rat{p} \times 1$, $\rat{lesson} \times 1$)
- 7. Vertical transport sensor [E] (x 1, hook)
- 8. Paper feed sensor bracket [F] (F x 1)
- 9. Paper feed sensor [G] (🗗 x 1, hook)

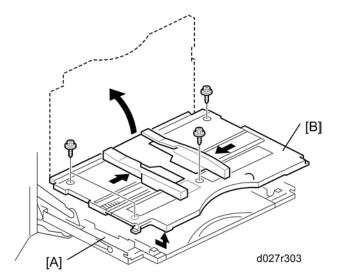
Registration Sensor

- 1. Rear cover (p. 174)
- 2. Right rear cover (Fr. p. 174)

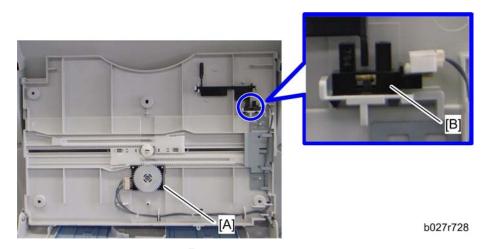


- 3. Paper guide plate 1 [A] and 2 [B] (\ref{p} x 2 each)
- 4. Registration sensor [C] (🗗 x 1, hook)

By-pass Paper Size Sensor and By-pass Paper Length Sensor

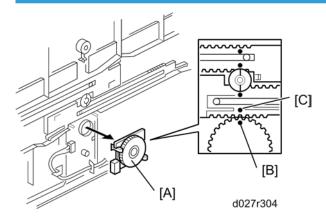


- 1. Open the by-pass tray [A].
- 2. Move the side fences to the center.
- 3. By-pass tray cover [B] (🗗 x 4)



- 4. By-pass paper size sensor [A] (🗂 x 1).
- 5. By-pass paper length sensor [B] (🗗 x 1)

When reinstalling the by-pass paper size sensor



- 1. Adjust the projection [A] of the left side fence bar (it must be centered).
- 2. Install the by-pass paper size detection switch so that the hole [B] in this switch faces the projection [C] of the left side fence bar.
- 3. Reassemble the copier.
- 4. Plug in and turn on the main power switch.
- 5. Check this switch operation with SP5803-011 (By-pass paper size < Input Check).

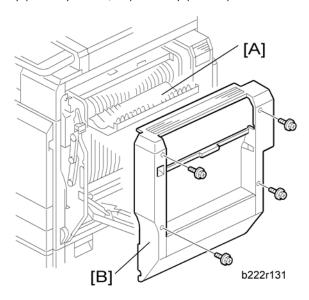
- Display on the LCD -

Paper Size	Display	Paper Size	Display
A3 SEF	00001110	A5 SEF	00001011

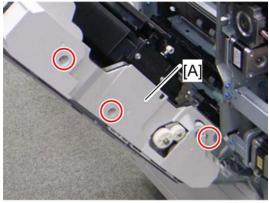
B4 SEF	00001100	B6 SEF	00000011
A4 SEF	00001101	A6 SEF	00000111
B5 SEF	00001001	Smaller A6 SEF	00001111

By-pass Bottom Tray

- 1. Open the right door.
- 2. By-pass tray cover (pr p.290 "By-pass Paper Size Sensor and By-pass Paper Length Sensor")

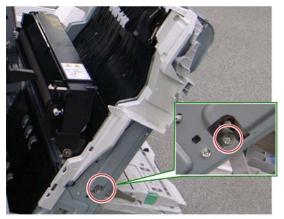


- 3. Open the duplex door [A].
- 4. Right door cover [B] (🗗 x 4)



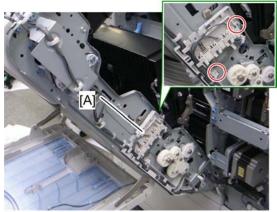
d027r174

5. Right door rear cover [A] (🗗 x 3)



d027r175

6. Remove the screw at the front side (\mathcal{F} x 1).



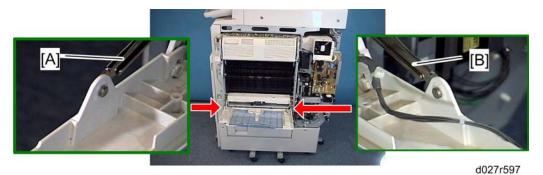
d027r177

7. Remove the cover [A] (2 hooks).

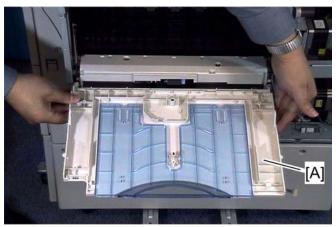


d027r178

8. Remove the screw at the rear side.



9. Release the front [A] and rear [B] arms ($\overline{\Diamond}$ x 1 each).

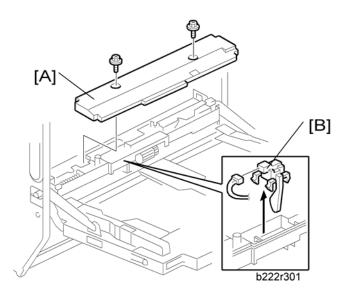


d027r598

10. By-pass bottom tray [A]

By-pass Paper End Sensor

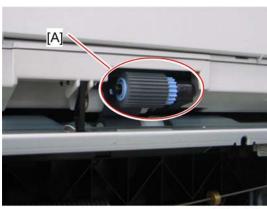
1. Right door cover (** p.292 "By-pass Bottom Tray")



- 2. By-pass feed unit cover [A] (*x 2).
- 3. By-pass paper end sensor [B] (🗗 x 1, hook)

By-pass Pick-up, Feed and Separation Roller, Torque Limiter

1. Right door cover (** p.292 "By-pass Bottom Tray")

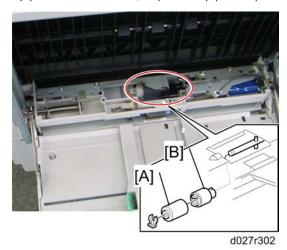


d027r179

2. By-pass pick-up roller [A] (hook)

d027r180

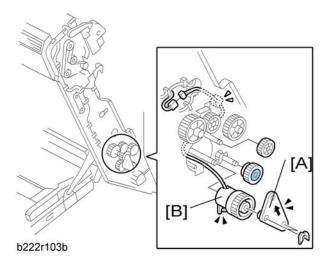
- 3. By-pass feed roller [A] (🖾 x 1)
- 4. By-pass feed unit cover (p.294 "By-pass Paper End Sensor")



- 6. Torque limiter [B]

By-pass Feed Clutch

- 1. Open the right door.
- 2. Right door rear cover (p.292 "By-pass Bottom Tray")

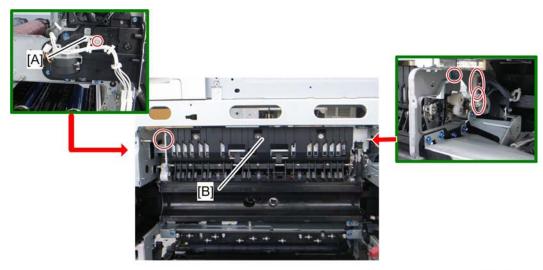


- 4. By-pass feed clutch [B] (🗗 x 1, 🖨 x 1)

Paper Exit Unit

- 1. Fusing Unit (p.257)
- 2. Front right cover (** p.175 "Operation Panel")
- 3. Image transfer belt unit (IF p.221)
- 4. Inner Tray (p. 176)
- 5. Thermopile (p.279)
- 6. Rear cover (p. 174)
- 7. Right rear cover (p. 174)
- 8. Fusing duct (p.277 "Fusing Fan")
- 9. Open the controller box (** p.309 "Controller Box").





d027r181

- 10. Gear cover [A] (* x 1)
- 11. Paper exit unit [B] (> x 2, 🗂 x 2)

Fusing Exit, Paper Overflow, Junction Paper Jam and Paper Exit Sensor



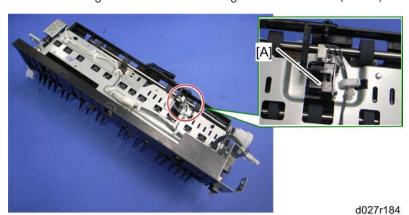
d027r182

1. Paper exit unit (** p.297)

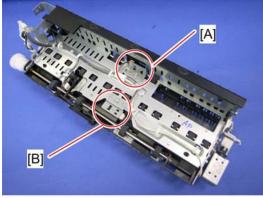


d027r183

- 2. Fusing exit sensor bracket [A] (🔊 x 1, 🗂 x 1)
- 3. Remove the fusing exit sensor from the fusing exit sensor bracket (\mathcal{F} x 1)



4. Paper overflow sensor [A] (🗗 x 1, hook)



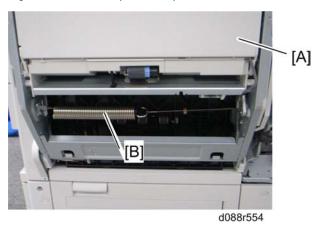
d027r185

- 6. Remove the junction paper jam sensor from the junction paper jam sensor bracket (hook)
- 7. Paper exit sensor bracket [B] (> x 1, 🕮 x 1)
- 8. Remove the paper exit sensor from the paper exit sensor bracket (hook)

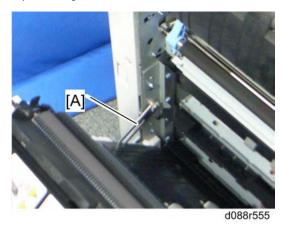
Duplex Unit

Duplex Unit

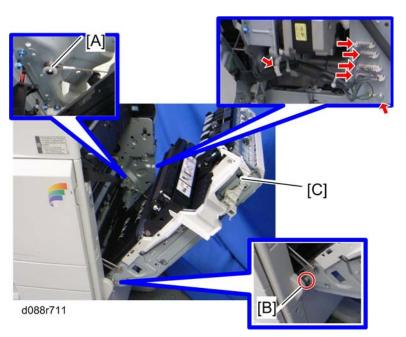
- 1. Rear cover (p. 174)
- 2. Right rear cover (p.174)
- 3. Right door cover (** p.228 "Paper Transfer Unit")



- 4. Close the right door [A].
- 5. Remove the spring [B].
- 6. Open the right door [A].



- 7. Release the front link [A] (🖾 x 1).
- 8. Keep the right door fully open.



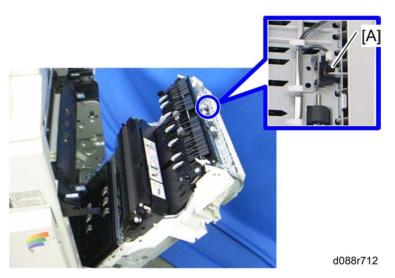
9. Hold the right door, and then release the wire [A] (${\overline{\mathbb{O}}}$ x 1).

ACAUTION

- Keep holding the right door before removing the right door completely. Otherwise, the right door can fall down and injure you.
- 10. Press the projection [B] to pull the right door shaft into the unit, and then remove the duplex unit [C] ($\mathscr{F} \times 1$, $\overset{\frown}{\bowtie} \times 1$, $\overset{\frown}{\bowtie} \times 4$, ground cable $\times 1$).

Duplex Door Sensor

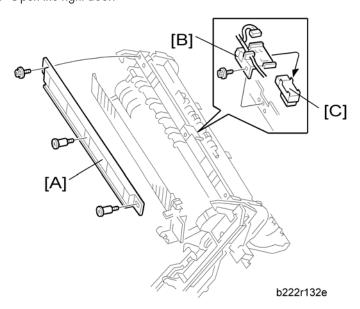
- 1. Right door cover (p.228 "Paper Transfer Unit")
- 2. Open the right door.



3. Duplex door sensor [A] (🗗 x 1, hook)

Duplex Entrance Sensor

- 1. Right door cover (** p.228 "Paper Transfer Unit")
- 2. Open the right door.

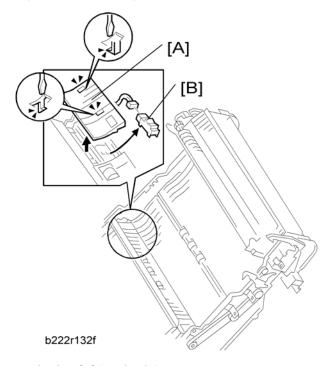


- 3. Duplex entrance guide [A] (🗗 x1, stepped screw x 2)
- 4. Duplex entrance sensor bracket [B] (🔊 x 1, 📬 x 1)

Duplex Exit Sensor

1. Paper transfer unit (Fr p.228)

5. Duplex entrance sensor [C] (hook)



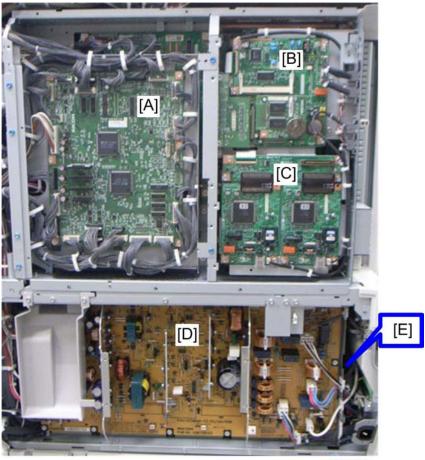
- 2. Guide plate [A] (two hooks)
- 3. Duplex exit sensor [B] (🗂 x 1, hook)

4

Electrical Components

Boards

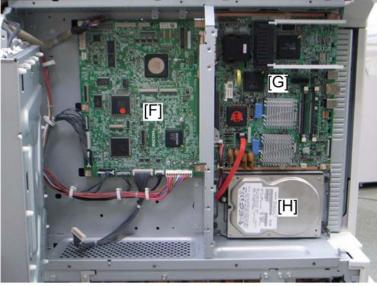
Controller Box closed



d027r729

[A]	IOB
[B]	FCU (Option)
[C]	G3 Interface Unit (Option)
[D]	PSU
[E]	High Voltage Supply Board (Behind the PSU [D])

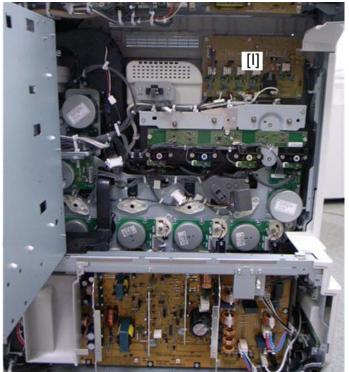
Behind the IOB, FCU and G3 Interface Unit



d027r729a

[F]	BICU
[G]	Controller Board
[H]	HDD

Controller Box Open

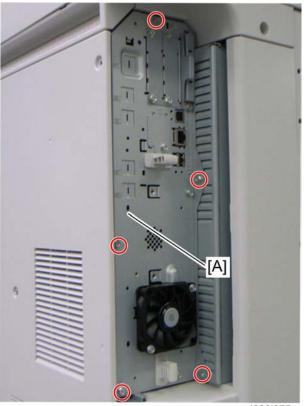


d027r730

[I] ITB Power Supply Board

Controller Unit

1. Control cover (p.173)

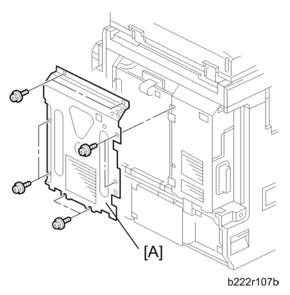


d088i075

2. Controller unit [A] (🔊 x 5)

Controller Box Right Cover

- 1. Rear cover (**p**.174)
- 2. Scanner rear cover (p.181 "Exposure Lamp")

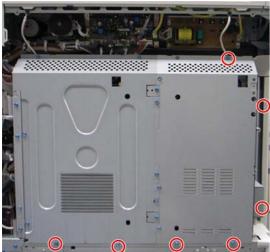


3. Controller box right cover [A] (\ref{P} x 8)

Controller Box

When opening the controller box

- 1. Rear cover (p. 174)
- 2. Scanner rear cover (** p.181 "Exposure Lamp")



d023r603

3. Remove seven screws.



d023r110

4. Open the controller box [A].

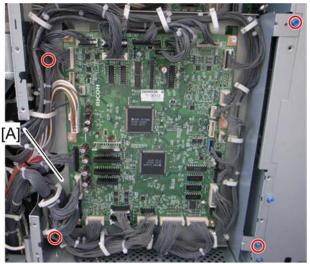
When removing the controller box

- 1. Rear cover (p.174)
- 2. Scanner rear cover (pr. 181 "Exposure Lamp")
- 3. Right rear cover (p.174)
- 4. Controller box right cover (p.308)



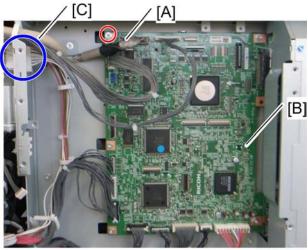
d027r714

5. Remove the controller box stay [A] (*x 4).



d027r713

6. Move the IOB bracket [A] aside (*x 4, 🗂 x All).



d027r715

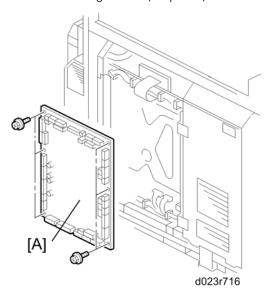
- 7. Disconnect the scanner interface cable [A] (ground cable)
- 8. Release all clamps on the controller box frame.
- 9. Disconnect all connectors on the BICU [B] board.
- 10. Disconnect the connector [C] at the outer controller box and at the inner controller box.



11. Lift up the controller box [A], and then remove it.

IOB (In/Out Board)

- 1. Rear cover (p. 174)
- 2. Scanner rear cover (p.181 "Exposure Lamp")
- 3. Controller box right cover (p.308)

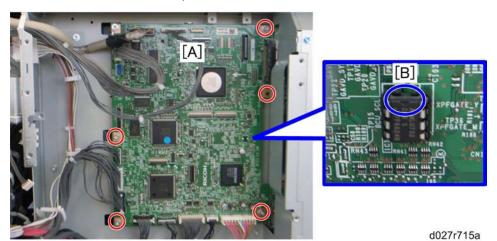


4. IOB [A] (🗗 x 6, All 🗂 s)

BICU

- 1. Rear cover (p. 174)
- 2. Scanner rear cover (p.181 "Exposure Lamp")

- 3. Controller box right cover (p.308)
- 4. Disconnect the harness (CN225) on the IOB board.
- 5. Move the IOB bracket aside (** p.309 "Controller Box")





Make sure the NVRAM is correctly installed on the BICU. Insert the NVRAM in the NVRAM slot
with the "half-moon" pointing [B] to the upward side.

When installing the new BICU

Remove the NVRAM from the old BICU. Then install it on the new BICU after you replace the BICU. Replace the NVRAM (** "NVRAM Replacement Procedure" in the Appendices) if the NVRAM on the old BICU is defective.



 Make sure you print out the SMC reports ("SP Mode Data" and "Logging Data") before you replace the NVRAM.

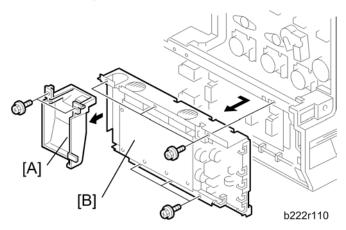
ACAUTION

- Keep NVRAMs away from any objects that can cause static electricity. Static electricity can damage NVRAM data.
- Make sure that the DIP-switch settings on the old BICU are the same for the new BICU when. Do not
 change the DIP switches on the BICU in the field.
- Make sure the serial number is input in the machine for the NVRAM data; if not, SC 995-001 occurs.

PSU

PSU bracket

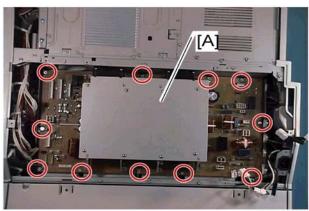
1. Rear cover (p.174)



- 2. Ventilation duct [A] (🗗 x 2)

PSU board

- 1. Rear cover (**p**.174)
- 2. Ventilation duct (see "PSU bracket")

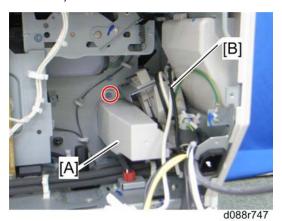


b222r608

3. PSU board [A] ($\rat{F} \times 11$, all $\rat{L} s$ s, all $\rat{L} s$

Power Relay Switch

- 1. PSU bracket (p.314 "PSU")
- 1. Pull out tray 2.



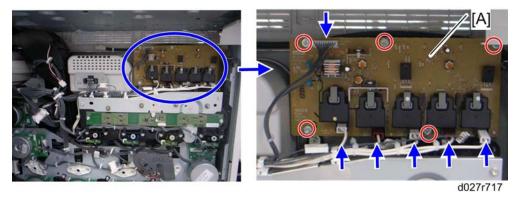
- 2. Tray left rail cover [A] (** x 1)
- 3. Take aside the cords and ferrite core [B] (🖨 x 2).



4. Power relay switch [A] (* x 2)

ITB Power Supply Board

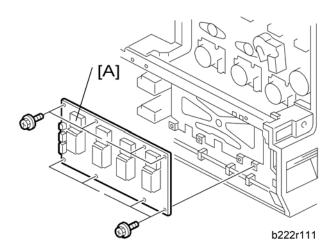
- 1. Rear cover (p. 174)
- 2. Scanner rear cover (IPT p.181 "Exposure Lamp")
- 3. Open the controller box (** p.309 "Controller Box")



4. ITB power supply board [A] (*x 5, * x 6)

High Voltage Supply Board

- 1. Rear cover (p. 174)
- 2. PSU bracket (p.314 "PSU")

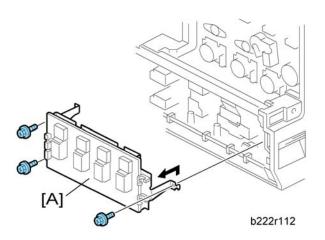


3. High voltage supply board [A] ($\ref{eq} \times$ 8, All \ref{eq} s, $\ref{eq} \times$ 2)

High Voltage Supply Board Bracket

- 1. Rear cover (**p**.174)
- 2. PSU bracket (p.314 "PSU")

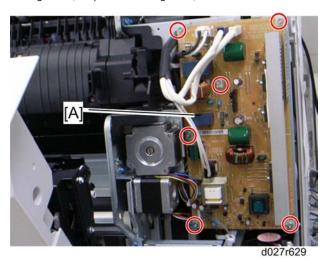
Λ



3. High voltage supply board bracket [A] (→ x 3, 🚅 x All, 🖨 x 2)

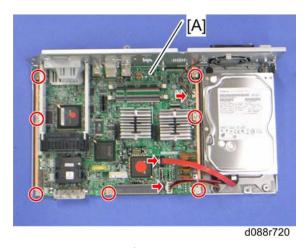
IH Inverter

- 1. Rear cover (p. 174)
- 2. Right rear cover (Fr. p. 174)
- 3. Fusing duct (p.277 "Fusing Fan")



Controller Board

1. Controller unit (** p.307)



2. Controller board [A] (🗗 x 7, 🗂 x 3)



3. Interface rails [A], NV-RAM [B], RAM-DIMM [C]

When installing the new controller board

Remove the NVRAM from the old controller board. Then install it on the new controller board after you replace the controller board. Replace the NVRAM if the NVRAM on the old controller board is defective.



• Make sure you print out the SMC reports ("SP Mode Data" and "Logging Data") before you replace the NVRAM.

ACAUTION

- Keep NVRAMs away from any objects that can cause static electricity. Static electricity can damage NVRAM data.
- Make sure the NVRAM is correctly installed on the controller board.
- Make sure that the DIP-switch settings on the old controller board are the same for the new controller board. Do not change the DIP switches on the controller board in the field.

HDD Fan

1. Controller unit (F p.307)



d088r722

2. HDD fan [A] (x 2, 🖾 x 1)

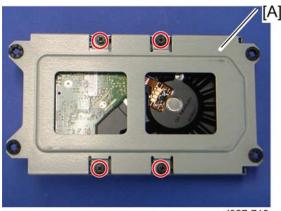
HDD

1. Controller unit (F p.307)



d027r718

2. Remove the HDD [A] with the bracket (*\begin{align*} x 4, *\begin{align*} \pi \x 2 \end{align*}.



d027r71

3. Remove the HDD from the bracket [A] (\mathcal{F} x 4).

When installing a new HDD unit

- 1. Turn the main power switch on. The disk is automatically formatted.
- 2. Install the stamp data using "SP5853".
- 3. Switch the machine off and on to enable the fixed stamps for use.

Disposal of HDD Units

- Never remove an HDD unit from the work site without the consent of the client.
- If the customer has any concerns about the security of any information on the HDD, the HDD must remain with the customer for disposal or safe keeping.
- The HDD may contain proprietary or classified (Confidential, Secret) information. Specifically, the HDD contains document server documents and data stored in temporary files created automatically

during copy job sorting and jam recovery. Such data is stored on the HDD in a special format so it cannot normally be read but can be recovered with illegal methods.

Reinstallation

Explain to the customer that the following information stored on the HDD is lost when the HDD is replaced:

- Document server documents
- Custom-made stamps
- Document server address book

The address book and document server documents (if needed) must be input again.

If you previously backed up the address book to an SD card with SP5846 051, you can use SP 5846 052 to copy the data from the SD card to the hard disk.

If the customer is using the Data Overwrite Security feature, the DOS function must be set up again. For more, see Section 1 (Installation).

If the customer is using the optional Browser Unit, this unit must be installed again. For more, see Section 1 (Installation).

NVRAM Replacement Procedure



NVRAM on the BICU

- 1. Make sure that you have the SMC report (factory settings). This report comes with the machine.
- 2. Output the SMC data (SP5-990-001) if possible.
- 3. Turn the main switch off.
- 4. Install an SD card into SD card slot 3. Then turn the main power on.
- 5. Copy the NVRAM data to an SD card (SP5-824-001) if possible.
- 6. Turn off the main switch. Then unplug the power cord.
- 7. Replace the NVRAM on the BICU and reassemble the machine.
- 8. Plug in the power cord. Then turn the main switch on.
- 9. Select a paper-size type (IF SP5-131-001).
- 10. Specify the serial number and destination code of the machine.



- Contact your supervisor for details on how to enter the serial number and destination code.
- SC 999 or "Fusing Unit Setting Error" can be shown until the serial number and destination code are correctly programmed.

- 11. Turn the main switch off and on.
- 12. Copy the data from the SD card to the NVRAM (** SP5-825-001) if you have successfully copied them to the SD card.
- 13. Turn the main switch off. Then remove the SD card from SD card slot 3.
- 14. Turn the main switch on.
- 15. Specify the SP and UP mode settings.
- 16. Do the process control self-check.
- 17. Do ACC for the copier application program.
- 18. Do ACC for the printer application program.

4

Using Dip Switches

Controller Board

DIP SW No.	OFF	ON
1	Boot-up from Flash Memory	Boot-up from SD card
2 to 8	Factory Use Only: Do not change the switch settings.	

BICU Board

DIP SW No.	OFF	ON
1 and 2	Factory Use Only: Do not cha	nge the switch settings.

5. System Maintenance

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.

SP Tables

See "Appendices" for the following information:

- System SP Tables
- Printer SP Tables
- Scanner SP Tables

Enabling and Disabling Service Program Mode



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

For details, ask your supervisor.

Exiting SP Mode

Press "Exit" on the LCD twice to return to the copy window.

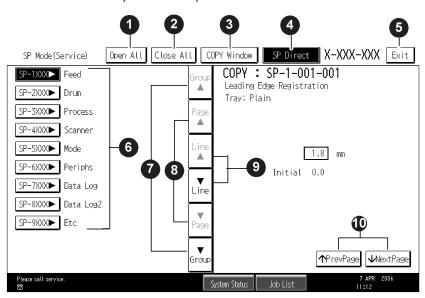
Types of SP Modes

- 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



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.

5

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 (The 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.	

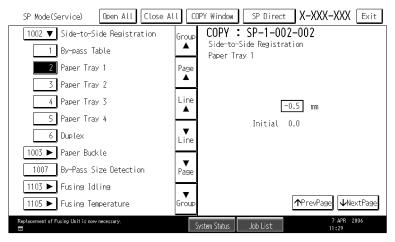
Switching Between SP Mode and Copy Mode for Test Printing

- 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.
- 3. Press Start 🕙 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.
- 3. 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.





- 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.
 - ullet Press ullet 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 ³ 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.

Exiting Service Mode

• Press the Exit key on the touch-panel.

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.

Paper	Weig	ht
-------	------	----

Thin paper: $52-59 \text{ g/m}^2$

Plain Paper: $60-90 \text{ g/m}^2$, 16-24lb.

Middle Thick: $91-105 \text{ g/m}^2$, 24-28 lb.

Thick Paper 1: $106-169 \text{ g/m}^2$, 28.5-44.9 lb.

Thick Paper 2: $170-220 \text{ g/m}^2$, 45-58lb.

Thick Paper 3: 221-256 g/m², 59lb-68lb

Thick 4: 257 g/m^2 - 300 g/m^2 , 68.4-79.8 lb

Paper Type

N: Normal paper

MTH: Middle thick paper

TH: Thick paper

Paper Feed Station

P: Paper tray

B: By-pass table

Color Mode [Color]

[K]: Black in B&W mode

[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	Process Speed
S: Simplex	L: Low speed (77 mm/s)
D: Duplex	M: Middle speed (154 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. 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: NVRAM 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.

Main SP Tables-1

SP1-XXX (Feed)

1001	[Leading Edge Registration] Leading Edge Registration Adjustment (Tray Location, Paper Type, Color Mode), Paper Type -> Plain, Thick 1 or Thick 2		
1001	Adjusts the leading edge registra	tion by cha	nging the registration motor operation timing for
002	Tray: Plain	*ENG	
003	Tray: Middle Thick	*ENG	
004	Tray: Thick 1	*ENG	
005	Tray: Thick 2	*ENG	
007	By-pass: Plain	*ENG	
008	By-pass: Middle Thick	*ENG	1
009	By-pass: Thick 1	*ENG	[-9 to 9 / 0.0 / 0.1 mm/step]
010	By-pass: Thick 2	*ENG	
011	By-pass: Thick 3	*ENG	
013	Duplex: Plain		
014	Duplex: Middle Thick	*ENG	
015	Duplex: Thick 1	*ENG	

016	Tray: Thick 3	*ENG	
017	Tray: Plain: 1 200	*ENG	
018	Tray: Middle Thick: 1200	*ENG	
019	Tray: Thick 1:1200	*ENG	
020	By-pass: Plain: 1200	*ENG	[-9 to 9 / 0.0 / 0.1 mm/step]
021	By-pass: Middle Thick: 1200	*ENG	[-9 10 9 / 0.0 / 0.1 mm/step]
022	By-pass: Thick 1:1200	*ENG	
023	Duplex: Plain:1200	*ENG	
024	Duplex: Middle Thick:1200	*ENG	
025	Duplex: Thick 1:1200	*ENG	

	[Side to Side Reg.] Side-to-Side Registration Adjustment Adjusts the side-to-side registration by changing the laser main scan start position for each mode.		
1002			
001	By-pass Table	*ENG	
002	Paper Tray 1	*ENG	
003	Paper Tray 2	*ENG	
004	Paper Tray 3	*ENG	[4 to 4 / 00 / 0] mm /ston]
005	Paper Tray 4	*ENG	[-4 to 4 / 0.0 / 0.1 mm/step]
006	Duplex	*ENG	
007	Paper Tray 5	*ENG	
008	Large Capacity Tray	*ENG	

	[Paper Buckle] Paper Buckle Adjustment		
1003	ray Location, Paper Type), Paper Type: N: Normal, TH: Thick		
1000	Adjusts the amount of paper buckle at the registration roller by changing the paper feed timing.		
002	Paper Tray 1: Plain	*ENG	[-9 to 5 / -2 / 1 mm/step]

003	Tray 1: Middle Thick	*ENG	[-9 to 5 / -1 / 1 mm/step]
004	Paper Tray 1: Thick 1	*ENG	[O to 5 / 2 / 1 mm /ston]
007	Paper Tray2/3/4/5/LCT: Plain	*ENG	[-9 to 5 / -2 / 1 mm/step]
008	Tray 2/3/4/5/LCT: Middle Thick	*ENG	[-9 to 5 / -1 / 1 mm/step]
009	Paper Tray2/3/4/5/LCT: Thick 1	*ENG	[-9 to 5 / -2 / 1 mm/step]
012	By-pass: Plain	*ENG	[0 · 5 / 0 / 1 · / · 1
013	By-pass: Middle Thick	*ENG	[-9 to 5 / 0 / 1 mm/step]
014	By-pass: Thick 1	*ENG	[-9 to 5 / -2 / 1 mm/step]
018	Duplex: Plain	*ENG	[0, 5/0/1 /,]
019	Duplex: Middle Thick	*ENG	[-9 to 5 / 0 / 1 mm/step]
020	Duplex: Thick 1	*ENG	[-9 to 5 / -2 / 1 mm/step]
021	Paper Tray 1: Plain: 1200	*ENG	
022	Tray1: Middle Thick: 1200	*ENG	
023	Tray 2/3/4/5LCT: Plain: 1200	*ENG	[0, 5 / 0 / 1 / 1
024	024 Tray 2/3/4/5LCT: Mid: 1200		[-9 to 5 / 0 / 1 mm/step]
025	By-pass: Plain: 1200	*ENG	
026	By-pass: Middle Thick: 1200	*ENG	
027	Paper Tray 1: Thick 1: 1200	*ENG	
028	Paper Tray2/3/4/5/LCT: Thick 1:1200	*ENG	[-9 to 5 / -2 / 1 mm/step]
029	By-pass: Thick 1: 1200	*ENG	
030	Duplex: Plain: 1200	*ENG	[04- 5 / 0 / 1 / 4]
031	Duplex: Middle Thick: 1200	*ENG	[-9 to 5 / 0 / 1 mm/step]
032	Duplex: Thick 1: 1200	*ENG	[-9 to 5 / -2 / 1 mm/step]

1007 [By-Pass Size Detection] By-Pass Size Detection Display

		LG	*ENG	[0 or 1 / 0 / -] 0: OFF, 1: ON
001		Enables or disables the automatic paper size detection function of the by-pass tray.		
		This SP determines what paper s	ize the mad	chine detects if the detected size is less than 8.5".
		0: OFF (Letter/SEF), 1: ON (Legal/SEF)		

1101	[Reload Permit Setting]			
1101	Specifies the settings of the reload permit for cold temperature in color mode.			
001	Pre-rotation Start Temp.	*ENG	[0 to 200 / 0 / 1 deg/step]	
002	Reload Target Temp.:Center	*ENG	[120 to 180 / 150 / 1 deg/step]	
003	Reload Target Temp.:Press	*ENG	[0 to 200 / 120 / 1 deg/step]	
004	Temp.:Delta:Cold:Center	*ENG	[0 to 200 / 5 / 1 deg/step]	
005	Temp.:Delta:Cold:End	*ENG	[40 to 200 / 100 / 1 deg/step]	
006	Temp.:Delta:Cold:Press	*ENG	[0 to 200 / 65 / 1 deg/step]	
	[Forced Ready Set]			
	Specifies the setting of the force	ed reload p	permit for cold temperature in color mode.	
007	007 Time:Cold *ENG [0 to 100 / 30 / 1 sec/step] [Reload Permit Setting]			
	Specifies the settings of the rela	oad permit	for warm temperature in color mode.	
008	Temp.:Delta:Warm:Center	*ENG	[0 to 200 / 5 / 1 deg/step]	
009	Temp.:Delta:Warm:End	*ENG	[40 to 200 / 100 / 1 deg/step]	
010	Temp.:Delta:Warm:Press	*ENG	[0 to 200 / 65 / 1 deg/step]	
	[Forced Ready Set]			
	Specifies the setting of the forced reload permit for warm temperature in color mode.			
011 Time:Warm *ENG [0 to 100 / 30 / 1 sec/step		[0 to 100 / 30 / 1 sec/step]		
	[Reload Permit Setting]			
	Specifies the settings of the reload permit for hot temperature in color mode.			
012	Temp.:Delta:Hot:Center	*ENG	[0 to 200 / 5 / 1 deg/step]	

013	Temp.:Delta:Hot:End	*ENG	[40 to 200 / 100 / 1 deg/step]
014	Temp.:Delta:Hot:Press	*ENG	[0 to 200 / 65 / 1 deg/step]
	[Forced Ready Set]		
	Specifies the setting of the force	ed reload p	permit for hot temperature in color mode.
015	Time:Hot	*ENG	[0 to 100 / 30 / 1 sec/step]
	[Reload Permit Setting Temp.]		
	Specifies the settings of the rela	oad permit	for cold temperature in BW mode.
016	Temp.:Delta:Cold:BW:Center	*ENG	[0 to 200 / 15 / 1 deg/step]
017	Temp.:Delta:Cold:BW:End	*ENG	[40 to 200 / 100 / 1 deg/step]
018	Temp.Delta:Cold:BW:Press	*ENG	[0 to 200 / 70 / 1 deg/step]
	[Forced Ready Set]		
	Specifies the setting of the force	ed reload p	permit for cold temperature in BW mode.
019	Time:Cold:BW	*ENG	[0 to 100 / 30 / 1 sec/step]
	[Reload Permit Setting]		
	Specifies the settings of the rela	oad permit	for cold temperature in BW mode 2.
020	Temp.:Delta:Cold:BW2:Cent	*ENG	[0 to 200 / 15 / 1 deg/step]
021	Temp.:Delta:Cold:BW2:End	*ENG	[40 to 200 / 100 / 1 deg/step]
022	Temp.Delta:Cold:BW2:Press	*ENG	[0 to 200 / 100 / 1 deg/step]
	[Forced Ready Set]		
	Specifies the setting of the force	ed reload p	permit for cold temperature in BW mode 2.
023	Time:Cold:BW2	*ENG	[0 to 100 / 30 / 1 sec/step]
	1		

1102	[Feed Permit Setting]				
1102	Specified the settings of the paper feeding timing.				
001	Temp.:Lower Delta:Center	*ENG	[0 to 200 / 15 / 1 deg/step]		
002	Temp.:Lower Delta:End	*ENG	[0 to 200 / 100 / 1 deg/step]		
003	Temp.:Upper Delta:Center	*ENG	[0 to 200 / 100 / 1 deg/step]		

004	Temp.:Upper Delta:End	*ENG	[0 to 200 / 100 / 1 deg/step]
005	Temp.:Lower Delta:Press	*ENG	[0 to 200 / 100 / 1 deg/step]
006	Rotation Time	*ENG	[0 to 100 / 0 / 1 sec/step]
007	Temp.:Lower Delta:Center:Sp.1	*ENG	[0 to 200 / 5 / 1 deg/step]
008	Temp.:Lower Delta:End:Sp.1	*ENG	[0 to 200 / 100 / 1 deg/step]
009	Temp.:Upper Delta:Center:Sp.1	*ENG	[0 to 200 / 100 / 1 deg/step]
010	Temp.:Upper Delta:End:Sp.1	*ENG	[0 to 200 / 100 / 1 deg/step]
011	Temp.:Lower Delta:Press:Sp.1	*ENG	[0 to 200 / 60 / 1 deg/step]
012	Rotation Time:Sp.1	*ENG	[0 to 200 / 0 / 1 sec/step]
013	Temp.:Lower Delta:Center:Sp.2	*ENG	[0 to 200 / 5 / 1 deg/step]
014	Temp.:Lower Delta:End:Sp.2	*ENG	[0 to 200 / 100 / 1 deg/step]
015	Temp.:Upper Delta:Center:Sp.2	*ENG	[0 to 200 / 15 / 1 deg/step]
016	Temp.:Upper Delta:End:Sp.2	*ENG	[0 to 200 / 100 / 1 deg/step]
017	Temp.:Lower Delta:Press:Sp.2	*ENG	[0 to 200 / 100 / 1 deg/step]
018	Rotation Time:Sp2	*ENG	[0 to 100 / 0 / 1 sec/step]
019	Feed Permit Time	*ENG	[0 to 200 / 120 / 1 sec/step]

1105	[Print Target Temp]			
	(Printing Mode, Roller Type, [Color], Simplex/Duplex)			
	Roller Type -> Center and Ends: Heating roller, Pressure -> Pressure roller Paper Type -> Plain, Thin, Thick, OHP, Middle Thick, Special			
001	Plain 1:FC:Center	*ENG	[120 to 200 / 155 / 1 deg/step]	
001	Specifies the heating roller target temperature for the ready condition in full color printing.			

000	Plain 1:FC:Press	*ENG	[100 to 200 / 120 / 1 deg/step]			
002	Specifies the pressure roller target temperature for the ready condition in full color printing					
000	Plain 1:BW:Center	*ENG	[120 to 200 / 145 / 1 deg/step]			
003	Specifies the heating roller targ	get tempero	ature for the ready condition in BW printing.			
004	Plain1:BW:Press	*ENG	[100 to 200 / 120 / 1 deg/step]			
004	Specifies the pressure roller tar	get temper	ature for the ready condition in BW printing.			
005	Plain2:FC:Center	*ENG	[120 to 200 / 160 / 1 deg/step]			
003	Specifies the heating roller targ	get tempero	ature for the ready condition in full color printing.			
006	Plain2:FC:Press	*ENG	[100 to 200 / 120 / 1 deg/step]			
000	Specifies the pressure roller tar	get temper	ature for the ready condition in full coloe printing.			
007	Plain2:BW:Center	*ENG	[120 to 200 / 150 / 1 deg/step]			
007	Specifies the heating roller target temperature for the ready condition in BW printing.					
008	Plain2:BW:Press	*ENG	[100 to 200 / 120 / 1 deg/step]			
000	Specifies the pressure roller target temperature for the ready condition in BW printing.					
009	Thin:FC:Center	*ENG	[120 to 200 / 150 / 1 deg/step]			
010	Thin:FC:Press	*ENG	[100 to 200 / 120 / 1 deg/step]			
011	Thin:BW:Center	*ENG	[120 to 200 / 140 / 1 deg/step]			
012	Thin:BW:Press	*ENG	[100 to 200 / 120 / 1 deg/step]			
013	M-thick:FC:Center	*ENG	[120 to 200 / 165 / 1 deg/step]			
014	M-thick:FC:Press	*ENG	[100 to 200 / 120 / 1 deg/step]			
015	M-thick:BW:Center	*ENG	[120 to 200 / 155 / 1 deg/step]			
016	M-thick:BW:Press	*ENG	[100 to 200 / 120 / 1 deg/step]			
017	Thick 1:FC:Center	*ENG	[120 to 200 / 155 / 1 deg/step]			
018	Thick 1:FC:Press	*ENG	[100 to 200 / 120 / 1 deg/step]			
019	Thick1:BW:Center	*ENG	[120 to 200 / 145 / 1 deg/step]			
020	Thick 1:BW:Press	*ENG	[100 to 200 / 120 / 1 deg/step]			

021	Thick2:FC:Center	*ENG	[120 to 200 / 165 / 1 deg/step]
022	Thick2:FC:Press	*ENG	[100 to 200 / 120 / 1 deg/step]
023	Thick2:BW:Center	*ENG	[120 to 200 / 155 / 1 deg/step]
024	Thick2:BW:Press	*ENG	[100 to 200 / 120 / 1 deg/step]
025	Thick3:FC:Center	*ENG	[120 to 200 / 170 / 1 deg/step]
026	Thick3:FC:Press	*ENG	[100 to 200 / 120 / 1 deg/step]
027	Thick3:BW:Center	*ENG	[120 to 200 / 160 / 1 deg/step]
028	Thick3:BW:Press	*ENG	[100 to 200 / 120 / 1 deg/step]
029	Special1:FC:Center	*ENG	[120 to 200 / 160 / 1 deg/step]
030	Special 1:FC:Press	*ENG	[100 to 200 / 120 / 1 deg/step]
031	Special1:BW:Center	*ENG	[120 to 200 / 150 / 1 deg/step]
032	Special 1:BW:Press	*ENG	[100 to 200 / 120 / 1 deg/step]
033	Special2:FC:Center	*ENG	[120 to 200 / 155 / 1 deg/step]
034	Special2:FC:Press	*ENG	[100 to 200 / 120 / 1 deg/step]
035	Special2:BW:Center	*ENG	[120 to 200 / 145 / 1 deg/step]
036	Special2:BW:Press	*ENG	[100 to 200 / 120 / 1 deg/step]
037	Special3:FC:Center	*ENG	[120 to 200 / 165 / 1 deg/step]
038	Special3:FC:Press	*ENG	[100 to 200 / 120 / 1 deg/step]
039	Special3:BW:Center	*ENG	[120 to 200 / 155 / 1 deg/step]
040	Special3:BW:Press	*ENG	[100 to 200 / 120 / 1 deg/step]
041	Envelop:Center	*ENG	[120 to 200 / 180 / 1 deg/step]
042	Envelop:Press	*ENG	[100 to 200 / 120 / 1 deg/step]
101	Plain 1:FC:Center:Low Speed	*ENG	[120 to 200 / 135 / 1 deg/step]
102	Plain 1:FC:Press:Low Speed	*ENG	[100 to 200 / 120 / 1 deg/step]
103	Plain 1:BW:Center:Low Speed	*ENG	[120 to 200 / 135 / 1 deg/step]

104	Plain 1:BW:Press:Low Speed	*ENG	[100 to 200 / 120 / 1 deg/step]
105	Plain2:FC:Center:Low Speed	*ENG	[120 to 200 / 140 / 1 deg/step]
106	Plain2:FC:Press:Low Speed	*ENG	[100 to 200 / 120 / 1 deg/step]
107	Plain2:BW:Center:Low Speed	*ENG	[120 to 200 / 135 / 1 deg/step]
108	Plain2:BW:Press:Low Speed	*ENG	[100 to 200 / 120 / 1 deg/step]
109	M-thick:FC:Center:Low Speed	*ENG	[120 to 200 / 145 / 1 deg/step]
110	M-thick:FC:Press:Low Speed	*ENG	[100 to 200 / 120 / 1 deg/step]
111	M-thick:BW:Center:Low Speed	*ENG	[120 to 200 / 140 / 1 deg/step]
112	M-thick:BW:Press:Low Speed	*ENG	[100 to 200 / 120 / 1 deg/step]
113	Thick 1:FC:Center:Low Speed	*ENG	[120 to 200 / 150 / 1 deg/step]
114	Thick 1:FC:Press:Low Speed	*ENG	[100 to 200 / 120 / 1 deg/step]
115	Thick 1:BW:Center:Low Speed	*ENG	[120 to 200 / 145 / 1 deg/step]
116	Thick 1:BW:Press:Low Speed	*ENG	[100 to 200 / 120 / 1 deg/step]
117	Special 1:FC:Center:Low Speed	*ENG	[120 to 200 / 135 / 1 deg/step]
118	Special 1:FC:Press:Low Speed	*ENG	[100 to 200 / 120 / 1 deg/step]
119	Special 1:BW:Center:Low Speed	*ENG	[120 to 200 / 130 / 1 deg/step]
120	Special 1:BW:Press:Low Speed	*ENG	[100 to 200 / 120 / 1 deg/step]
121	Special2:FC:Center:Low Speed	*ENG	[120 to 200 / 150 / 1 deg/step]
122	Special2:FC:Press:Low Speed	*ENG	[100 to 200 / 120 / 1 deg/step]

123	Special2:BW:Center:Low Speed	*ENG	[120 to 200 / 145 / 1 deg/step]
124	Special2:BW:Press:Low Speed	*ENG	[100 to 200 / 120 / 1 deg/step]
125	Plain 1:Glossy:Center	*ENG	[120 to 200 / 140 / 1 deg/step]
126	Plain 1:Glossy:Press	*ENG	[100 to 200 / 120 / 1 deg/step]
127	Plain2:Glossy:Center	*ENG	[120 to 200 / 145 / 1 deg/step]
128	Plain2:Glossy:Press	*ENG	[100 to 200 / 120 / 1 deg/step]
129	M-thick:Glossy:Center	*ENG	[120 to 200 / 150 / 1 deg/step]
130	M-thick:Glossy:Press	*ENG	[100 to 200 / 120 / 1 deg/step]
131	OHP:Center	*ENG	[120 to 200 / 150 / 1 deg/step]
132	OHP:Press	*ENG	[100 to 200 / 120 / 1 deg/step]
133	Envelop:Center:Low Speed	*ENG	[120 to 200 / 170 / 1 deg/step]
134	Envelop:Press:Low Speed	*ENG	[100 to 200 / 120 / 1 deg/step]
135	Thin:FC:Center:Low Speed	*ENG	[120 to 200 / 135 / 1 deg/step]
136	Thin:FC:Press:Low Speed	*ENG	[100 to 200 / 120 / 1 deg/step]
137	Thin:BW:Center:Low Speed	*ENG	[120 to 200 / 130 / 1 deg/step]
138	Thin:BW:Press:Low Speed	*ENG	[100 to 200 / 120 / 1 deg/step]
139	Thick4:FC:Center	*ENG	[120 to 200 / 175 / 1 deg/step]
140	Thick4:FC:Press	*ENG	[100 to 200 / 120 / 1 deg/step]
141	Thick4:BW:Center	*ENG	[120 to 200 / 165 / 1 deg/step]
142	Thick4:BW:Press	*ENG	[100 to 200 / 120 / 1 deg/step]

1106	[Fusing Temp. Display]		
001	Center	-	[-10 to 250 / - / 1 deg/step]
002	End	-	Displays the temperature of the heating roller.

003	Pressure	-	[-10 to 250 / - / 1 deg/step]	
004	Pressure End	-	Displays the temperature of the heating roller.	

1107	[Standby Target Temp. Setting]					
	Standby Heater Off Time	*ENG	[0 to 100 / 15 / 1 sec/step]			
001	Specifies the time that the fusing heater turns off after the fusing unit temperature has reached its target temperature.					
002	Stanby/Preheat1: Press	*ENG	[0 to 125 / 90 / 1 deg/step]			
002	Specifies the temperature of the pressure roller for the ready or energy save 1 mode.					
004	Preheat2:Press	*ENG	[0 to 125 / 90 / 1 deg/step]			
004	Specifies the temperature of the pressure roller for the energy save 2 mode.					
006	Low Power:Press	*ENG	[0 to 125 / 60 / 1 deg/step]			
000	Specifies the temperature of the pressure roller for the low power mode.					
007	Print Ready:Center	*ENG	[120 to 180 / 150 / 1 deg/step]			
007	Specifies the temperature of the heating roller for the print ready condition.					
008	Print Ready:Press	*ENG	[100 to 200 / 120 / 1 deg/step]			
008	Specifies the temperature of the pressure roller for the print ready condition.					

1108	[After Reload/Job Target Temp.]			
001	Center	*ENG	[120 to 180 / 150 / 1 deg/step]	
001	Specifies the temperature of the heating roller after re-load or job.			
002	Press	*ENG	[100 to 200 / 120 / 1 deg/step]	
002	Specifies the temperature of the pressure roller after re-load or job.			

1111	[Environment Correction:Fusing]				
	Temp.: Threshold: Low *ENG [0 to 100 / 17 / 1 deg/step] Specifies the threshold temperature for low temperature. If the fusing temperature is 17°C or less, the machine executes the fusing mode for low temperature.				
001					

		_			
	Temp.: Threshold: High	*ENG	[0 to 100 / 30 / 1 deg/step]		
002	Sepcifies the threshold temperature for high temperature. If the fusing temperature is 30°C or more, the machine executes the fusing mode for high temperature.				
	Low Temp. Correction	*ENG	[0 to 15 / 5 / 1 deg/step]		
003	Specifies the additional temperature for the target temperature. If the fusing temperature is in low temperature condition, this temperature is added to the taraget temperature.				
	High Temp. Correction	*ENG	[0 to 15 / 0 / 1 deg/step]		
004	Specifies the additional temperature for the target temperature. If the fusing temperature is in high temperature condition, this temperature is added to the taraget temperature.				
005	Job Low Temp. Correction	*ENG	[0 to 100 / 5 / 0.1 deg/step]		
006	Job High Temp. Correction	*ENG	[0 to 100 / 0 / 0.1 deg/step]		
007	Job Low Temp. Correction:Sp.	*ENG	[0 to 100 / 10 / 0.1 deg/step]		
008	Job High Temp. Correction:Sp.	*ENG	[0 to 100 / 0 / 0.1 deg/step]		

1113	[Curl Correction]				
	Execute Pattern	*ENG	[0 to 2 / 0 / 1 /step]		
001			0: Off, 1: On (No Decurl), 2: On		
	Selects the curl correction type	•			
002	Humidity:Threshold:M-humid	*ENG	[0 to 100 / 1 / 1 %/step]		
002	Specifies the threshold between low and middle humidity.				
003	Humidity:Threshold:H-humid	*ENG	[0 to 100 / 65 / 1 %/step]		
003	Specifies the threshold between middle and high humidity.				
004	Permit Temp.:Delta:Press:M- humid	*ENG	[0 to 200 / 60 / 1 deg/step]		
	Specifies the threshold temperature for the curl control in middle humidity.				
005	Permit Temp.:Delta:Press:H- humid	*ENG	[0 to 200 / 50 / 1 deg/step]		
	Specifies the threshold tempero	ature for th	e curl control in high humidity.		

006	Permit Temp.:Delta:Press:M- humid:No Decurl	*ENG	[0 to 200 / 50 / 1 deg/step]		
	Specifies the threshold temperature for the no curl control in middle humidity.				
007	Permit Temp.:Delta:Press:H- humid:No Decurl	*ENG	[0 to 200 / 40 / 1 deg/step]		
	Specifies the threshold tempero	ature for th	e no curl control in high humidity.		
	CPM:M-humid	*ENG	[0 to 100 / 80 / 1 %/step]		
800	Specifies the CPM ratio of the decurl control against to the normal operation in middle humidity.				
000	CPM:H-humid	*ENG	[0 to 100 / 65 / 1 %/step]		
009	Specifies the CPM ratio of the decurl control against to the normal operation in high humidity.				
	CPM:M-humid:No Decurl	*ENG	[0 to 100 / 80 / 1 %/step]		
010	Specifies the CPM ratio against of the no decurl control to the normal operation in middle humidity.				
	CPM:H-humid:No Decurl	*ENG	[0 to 100 / 65 / 1 %/step]		
011	Specifies the CPM ratio against of the no decurl control to the normal operation in high humidity.				

1115	[Target Temp. Correction]		
001	Temp.:Delta:End	*ENG	[-100 to 100 / 0 / 1 deg/step]
Specifies the different temperature between end and center of the heating roller.			

1124	[CPM Down Setting]				
	Specifies the settings for the CPM down mode.				
001	Low:Down Temp. *ENG [-50 to 0 / -20 / 1 deg/step]				
	Specifies the CPM down threshold temperature for the low temperature condition. If the fusing temperature decreases -20°C (adjustable) below the target temperature, the machine enters the CPM down mode.				
002	Low:Up Temp.	*ENG	[-50 to 0 / -15 / 1 deg/step]		

	· ·	•	ture for the low temperature condition. If the full below the target temperature, the machine en		
003	Low:1st CPM	*ENG	[10 to 100 / 80 / 5 %/step]		
	Specifies the 1st CPM down ro	ation again	st the normal CPM in the low temperature condi		
004	Low :2nd CPM	*ENG	[10 to 100 / 65 / 5 %/step]		
	Specifies the 2nd CPM down r	ation agair	nst the normal CPM in the low temperature condi		
005	Low :3rd CPM	*ENG	[10 to 100 / 50 / 5 %/step]		
	Specifies the 3rd CPM down r	ation again	ast the normal CPM in the low temperature condi		
006	High:1st CPM	*ENG	[10 to 100 / 75 / 5 %/step]		
	Specifies the 1st CPM down ro	ation again:	st the normal CPM in the high temperature condi		
007	High:2nd CPM	*ENG	[10 to 100 / 50 / 5 %/step]		
	Specifies the 3rd CPM down re	ation again	st the normal CPM in the high temperature condi		
008	High:3rd CPM	*ENG	[10 to 100 / 25 / 5 %/step]		
	Specifies the 1st CPM down ro	ation agains	st the normal CPM in the high temperature condi		
009	High:1st CPM Down Temp.:A3	*ENG	[100 to 250 / 230 / 1 deg/step]		
	Specifies the heating roller te	mperature	for 1st CPM down of A3 paper size.		
010	High:2nd CPM Down Temp.:A3	*ENG	[100 to 250 / 233 / 1 deg/step]		
	Specifies the heating roller te	mperature	for 2nd CPM down of A3 paper size.		
011	High:3rd CPM Down Temp.:A3	*ENG	[100 to 250 / 235 / 1 deg/step]		
	Specifies the heating roller te	mperature	for 3rd CPM down of A3 paper size.		
012	High:1st CPM Down Temp.:A4	*ENG	[100 to 250 / 180 / 1 deg/step]		
	Specifies the heating roller temperature for 1st CPM down of A4 paper size.				

013	High:2nd CPM Down Temp.:A4	*ENG	[100 to 250 / 183 / 1 deg/step]		
	Specifies the heating roller temperature for 2nd CPM down of A4 paper size.				
014	High:3rd CPM Down Temp.:A4	*ENG	[100 to 250 / 185 / 1 deg/step]		
	Specifies the heating roller ten	nperature f	or 3rd CPM down of A4 paper size.		
015	High: 1 st CPM Down Temp.:B5:Press	*ENG	[100 to 250 / 175 / 1 deg/step]		
	Specifies the pressure roller te	mperature	for 1st CPM down of B5 paper size.		
016	High:2nd CPM Down Temp.:B5:Press	*ENG	[100 to 250 / 180 / 1 deg/step]		
	Specifies the pressure roller temperature for 2nd CPM down of B5 paper size.				
017	High:3rd CPM Down Temp.:B5:Press	*ENG	[100 to 250 / 185 / 1 deg/step]		
	Specifies the pressure roller temperature for 3rd CPM down of B5 paper size.				
018	High: 1 st CPM Down Temp.: A5: Press	*ENG	[100 to 250 / 180 / 1 deg/step]		
	Specifies the pressure roller te	Specifies the pressure roller temperature for 1st CPM down of A5 paper size.			
019	High:2nd CPM Down Temp.:A5:Press	*ENG	[100 to 250 / 185 / 1 deg/step]		
	Specifies the pressure roller te	mperature	for 2nd CPM down of A5 paper size.		
020	High:3rd CPM Down Temp.:A5:Press	*ENG	[100 to 250 / 190 / 1 deg/step]		
	Specifies the pressure roller te	mperature	for 3rd CPM down of A5 paper size.		
021	High: 1 st CPM Down Temp.: A6: Press	*ENG	[100 to 250 / 160 / 1 deg/step]		
	Specifies the pressure roller te	mperature	for 1st CPM down of A6 paper size.		
022	High:2nd CPM Down Temp.:A6:Press	*ENG	[100 to 250 / 165 / 1 deg/step]		
	Specifies the pressure roller temperature for 2nd CPM down of A6 paper size.				

023	High:3rd CPM Down Temp.:A6:Press	*ENG	[100 to 250 / 170 / 1 deg/step]	
	Specifies the pressure roller temperature for 3rd CPM down of A6 paper size.			
024	Judging Interval	*ENG	[0 to 250 / 5 / 1 sec/step]	
	Specifies the interval for CPM down judgement.			

1141	[Fusing SC Issue Time Info]		
001	SC Number	*ENG	Displays the issued SC number.
002	SC Cause	*ENG	[0 to 9 / - / 1/step]
101	Htg Roller:Ctr Diff1	*ENG	[0 to 260 / - / 1 deg/step]
102	Htg Rolloer:Ctr Det1	*ENG	Displays the temperature at the center of
103	Htg Roller:Ctr Corr1	*ENG	the heating roller when an SC was issued.
104	Htg Roller:End Diff1	*ENG	[0 to 260 / - / 1 deg/step]
105	Htg Roller:End Det1	*ENG	Displays the temperature at the end of the
106	Htg Roller:End Corr1	*ENG	heating roller when an SC was issued.
107	Press Roller Temp Value 1	*ENG	[0 to 260 / - / 1 deg/step] Displays the temperature at the pressure roller when an SC was issued.
151	Htg Roller:Ctr Diff2	*ENG	
152	Htg Rolloer:Ctr Det2	*ENG	[0 to 260 / - / 1 deg/step]
153	Htg Roller:Ctr Corr2	*ENG	
154	Htg Roller:End Diff2	*ENG	
155	Htg Roller:End Det2	*ENG	[0 to 260 / - / 1 deg/step]
156	Htg Roller:End Corr2	*ENG	
157	Press Roller Temp Value2	*ENG	[0 to 260 / - / 1 deg/step]

201	Htg Roller:Ctr Diff3	*ENG	
202	Htg Rolloer:Ctr Det3	*ENG	[0 to 260 / - / 1 deg/step]
203	Htg Roller:Ctr Corr3	*ENG	
204	Htg Roller:End Diff3	*ENG	
205	Htg Roller:End Det3	*ENG	[0 to 260 / - / 1 deg/step]
206	Htg Roller:End Corr3	*ENG	
207	Press Roller Temp Value3	*ENG	[0 to 260 / - / 1 deg/step]

1142	[Fusing Jam Detection]				
	SC Display	*ENG	[0 or 1 / 0 / -]		
001	Enables or disables the fusing consecutive jam (three times) SC detection.				
	0: No detection, 1: Detection				

1151	[Pressure Setting]				
	Pressure Change ON/OFF	*ENG	[0 or 1 / 1 / -]		
001	Enables or disables the pressure switching control for the fusing unit. 0: OFF , 1: ON				
002	Pressure Position 1	*ENG	[0 to 10,000 / 420 / 10 msec/step]		
002	Specifies the rotation time of the pressure roller contact motor for the pressure position 1.				
003	Pressure Position2	*ENG	[0 to 10,000 / 660 / 10 msec/step]		
003	Specifies the rotation time of the pressure roller contact motor for the pressure position 2.				
004	Pressure Position3	*ENG	[0 to 10,000 / 2130 / 10 msec/step]		
004	Specifies the rotation time of the pressure roller contact motor for the pressure position 3.				
005	Depressure Position	*ENG	[0 to 10,000 / 220 / 10 msec/step]		
	Specifies the rotation time of the pressure).	re roller co	entact motor for the depression position (no		

	Shift Time	*ENG	[0 to 3600 / 5 / 1 sec/step]	
010	Specifies the timing for depressing the fusing unit. If the machine does not get any jobs for specified time by this SP after copying or printing, the machine depresses the fusing unit.			
101	Pressure:Plain 1/2	*ENG	[0 to 3 / 3 / 1 /step]	
	Sets the default pressure position of the fusing unit for each paper type in normal sp 0: Depression position (no pressure)			
	1: Position 1 (less pressure)			
	2: Position 2			
	3: Position 3 (strongest pressure)			
102	Pressure:Thin	*ENG	[0 to 3 / 3 / 1 /step]	
103	Pressure:M-thick	*ENG	[0 to 3 / 3 / 1 /step]	
104	Pressure:Thick 1	*ENG	[0 to 3 / 3 / 1 /step]	
105	Pressure:Thick2	*ENG	[0 to 3 / 3 / 1 /step]	
106	Pressure:Thick3	*ENG	[0 to 3 / 3 / 1 /step]	
107	Pressure:Special 1	*ENG	[0 to 3 / 3 / 1 /step]	
108	Pressure:Special2	*ENG	[0 to 3 / 3 / 1 /step]	
109	Pressure:Special3	*ENG	[0 to 3 / 3 / 1 /step]	
110	Pressure:Envelope	*ENG	[0 to 3 / 1 / 1 /step]	
151	Pressure:Plain 1/2:Low Speed	*ENG	[0 to 3 / 3 / 1 /step]	
	Sets the default pressure position of the	fusing uni	t for each paper type in low speed.	
	0: Depression position (no pressure)			
	1: Position 1 (less pressure)			
	2: Position 2			
	3: Position 3 (strongest pressure)		I	
152	Pressure:M-thick:Low Speed	*ENG	[0 to 3 / 3 / 1 /step]	
153	Pressure:Thick1:Low Speed	*ENG	[0 to 3 / 3 / 1 /step]	
154	Pressure:Special1:Low Speed	*ENG	[0 to 3 / 3 / 1 /step]	
155	Pressure:Special2:Low Speed	*ENG	[0 to 3 / 3 / 1 /step]	

156	Pressure:Plain 1/2:Glossy	*ENG	[0 to 3 / 3 / 1 /step]	
157	Pressure:M-thick:Glossy	*ENG	[0 to 3 / 3 / 1 /step]	
158	Pressure:OHP	*ENG	[0 to 3 / 3 / 1 /step]	
159	Pressure:Envelope:Low Speed	*ENG	[0 to 3 / 1 / 1 /step]	
160	Pressure:Thin:Low Speed *E		[0 to 3 / 3 / 1 /step]	
	Pressure:Thick4	*ENG	[0 to 3 / 3 / 1 /step]	
	Sets the default pressure position of the fusing unit for thick 4 paper.			
161	0: Depression position (no pressure)			
	1: Position 1 (less pressure)			
	2: Position 2			
	3: Position 3 (strongest pressure)			
001	Filler Edge Detection Counter	ENG	[0 to 9,000,000 / - / 1 /step]	
201	Displays the detection time for the edge of the pressure roller actuator.			

1152	[Fusing Nip Band Check]				
001	Execute	-	[0 or 1 / 0 / 1]		
	Executes the nip band measurement between heating roller and pressure roller. If the nip band width is not 8 mm, and fusing is not good, replace the pressure roller or install a new fusing unit.				
002	Pre-Idling Time	*ENG	[0 to 255 / 240 / 1 sec/step]		
002	Specifies the fusing rotation time before executing SP1109-001.				
003	Stop Time	* ENG	[5 to 30 / 20 / 1 sec/step]		
Specifies the time for measuring the nip.					
004	Pressure Position	* ENG	[1 to 3 / 3 / 1]		
004	Specifies the pressure position for measuring the nip.				

1153	[Fuser Cleaning]		
001	Compulsion execution	-	Execute the fusing cleaning mode.

	Operation interval	*ENG	[1 to 300 / 0 / 1 K/step]		
002	Adjusts the execution interval for the fusing cleaning mode. 1K= 100 sheets				
002	Control Temp.	*ENG	[0 to 200 / 180 / 1°C/step]		
003	Specifies the heating roller temperature for the fusing cleaning mode.				
004	Page Count *ENG [1 to 300000 / - / 1 page/step]				
	Displays the page counter for the fusing cleaning mode.				

1801	[Motor Speed Adj.] FA		
001	Registration:Plain:Low	*ENG	[-2 to 2 / -1.1 / 0.1 %/step]
002	Registration:Plain:High	*ENG	[-2 to 2 / -0.1 / 0.1 %/step]
003	Registration:Middle Thick:Low	*ENG	[-2 to 2 / -1.1 / 0.1 %/step]
004	Registration:Middle Thick:Mid	*ENG	[-2 to 2 / -0.1 / 0.1 %/step]
005	Registration:Middle Thick:High	*ENG	[-2 to 2 / -0.1 / 0.1 %/ step]
006	Registration:Thick 1:Low	*ENG	[-2 to 2 / -1.1 / 0.1 %/step]
007	Registration:Thick 1:Mid	*ENG	[-2 to 2 / -0.1 / 0.1 %/step]
008	Registration:Thick 2:Low	*ENG	[-2 to 2 / -1.1 / 0.1 %/step]
009	Registration:Thick 3:Low	*ENG	[-2 10 2 / -1.1 / 0.1 %/ step]

010	Duplex CW:Plane:Low	*ENG	
011	Duplex CW:Normal:High	*ENG	
012	Duplex CW:Middle Thick:Low	*ENG	
013	Duplex CW:Middle Thick:Mid	*ENG	
014	Duplex CW:Middle Thick:High	*ENG	[-4 to 4 / 0.0 / 0.1 %/step]
015	Duplex CW:Thick1:Low	*ENG	
016	Duplex CW:Thick1:Mid	*ENG	
017	Duplex CW:Thick2:Low	*ENG	
018	Duplex CW:Thick3:Low	*ENG	
019	Duplex CCW:Normal:High	*ENG	
020	Duplex CCW:Middle Thick:Mid	*ENG	[4. 4 / 00 / 0.1 % /]
021	Duplex CCW:Middle Thick:high	*ENG	[-4 to 4 / 0.0 / 0.1 %/step]
023	Duplex CCW:Thick1:Mid	*ENG	
024	Reverse CW:Normal:High	*ENG	[-4 to 4 / -0.5 / 0.1%/step]
025	Reverse CW:Middle Thick:Mid	*ENG	[-4 to 4 / 0 / 0.1 %/step]
026	Reverse CW:Middle Thick:High	*ENG	[-4 to 4 / -0.5 / 0.1%/step]
028	Reverse CW:Thick1:Mid	*ENG	
029	Reverse CCW:Normal:High	*ENG	
030	Reverse CCW:Middle Thick:Mid	*ENG	[-4 to 4 / 0 / 0.1 %/step]
031	Reverse CCW:Middle Thick:High	*ENG	
033	Reverse CCW:Thick1:Mid	*ENG	
034	Feed:Plain:Low	*ENG	[-2 to 2 / -1.1 / 0.1 %/step]
035	Feed:Plain:High	*ENG	[-2 to 2 / -0.1 / 0.1 %/step]
036	Feed:Middle thick:Low	*ENG	[-2 to 2 / -1.1 / 0.1 %/step]
037	Feed:Middle thick:Mid	*ENG	[2,2/01/01//]
038	Feed:Middle thick:High	*ENG	[-2 to 2 / - 0.1 / 0.1 %/step]

039	Feed:Thick 1:Low	*ENG	[-2 to 2 / -1.1 / 0.1 %/step]
040	Feed:Thick 1:Mid	*ENG	[-2 to 2 / - 0.1 / 0.1 %/step]
041	Feed:Thick 2:Low	*ENG	, , , , , ,
042	Feed:Thick 3:Low	*ENG	[-2 to 2 / -1.1 / 0.1 %/step]
043	Bridge Motor:Low	*ENG	
044	Bridge Motor:Mid	*ENG	[-4 to 4 / 0 / 0.1 %/step]
045	Bridge Motor:High	*ENG	
060	KOpcDevMot:High	*ENG	
061	KOpcDevMot:Mid	*ENG	[-4 to 4 / - 0.6 / 0.01 %/step]
062	KOpcDevMot:Low	*ENG	
063	MOpcDevMot:High	*ENG	[-10 to 10 / 0 / 1 step/step]
064	MOpcDevMot:Mid	*ENG	[-9 to 9 / 0 / 1 step/step]
065	MOpcDevMot:Low	*ENG	[-14 to 14 / 0 / 1 step/step]
066	COpcDevMot:High	*ENG	[-10 to 10 / 0 / 1 step/step]
067	COpcDevMot:Mid	*ENG	[-9 to 9 / 0 / 1 step/step]
068	COpcDevMot:Low	*ENG	[-14 to 14 / 0 / 1 step/step]
069	YOpcDevMot:High	*ENG	[-10 to 10 / 0 / 1 step/step]
070	YOpcDevMot:Mid	*ENG	[-9 to 9 / 0 / 1 step/step]
071	YOpcDevMot:Low	*ENG	[-14 to 14 / 0 / 1 step/step]
072	Fusing: High	*ENG	[-4 to 4 / 1.9 / 0.01 %/step]
073	Fusing: Mid	*ENG	[-4 to 4 / 1.4 / 0.01 %/step]
074	Fusing: Low	*ENG	[-4 to 4 / 1.7 / 0.01 %/step]
075	TransferMot:High	*ENG	
076	TransferMot:Mid	*ENG	[-4 to 4 / -0.2 / 0.01 %/step]
077	TransferMot:Low	*ENG	
078	TonerMot	*ENG	[-30 to 30 / 10 / 5 %/step]

079	Fusing Exit Motor: 1200	*ENG	[-4 to 4 / 2.1 / 0.01 %/step]
100	Drum Adjust	*ENG	[0 or 1 / 1 / 1] 0: Off, 1: On
	Enables or disables the drum amplitud	e adjustme	ent.
101	MOpcDevMot:High	*ENG	
102	COpcDevMot:High	*ENG	[-7 to 7 / 0 / 1 step/step]
103	YOpcDevMot:High	*ENG	
104	MOpcDevMot:Mid	*ENG	
105	COpcDevMot:Mid	*ENG	[-7 to 7 / 0 / 1 step/step]
106	YOpcDevMot:Mid	*ENG	
107	MOpcDevMot:Low	*ENG	
108	COpcDevMot:Low	*ENG	[-14 to 14 / 0 / 1 step/step]
109	YOpcDevMot:Low	*ENG	
110	MOpcDevMot:1200	*ENG	
111	COpcDevMot:1200	*ENG	[-7 to 7 / 0 / 1 step/step]
112	YOpcDevMot:1200	*ENG	
120	Long:Registration:Plain:High	*ENG	[-2 to 2 / -0.1 / 0.1 %/step]
121	Long:Registration:Plain:Low	*ENG	[-2 to 2 / -1.1 / 0.1 %/step]
122	Long:Registration:Middle Thick:High	*ENG	
123	Long:Registration:Middle Thick:Middle	*ENG	[-2 to 2 / -0.1 / 0.1 %/step]
124	Long:Registration:Middle Thick:Low	*ENG	[-2 to 2 / -1.1 / 0.1 %/step]
125	Long:Registration:Thick 1:Middle	*ENG	[-2 to 2 / -1 / 0.1 %/step]
126	Long:Registration:Thick 1:Low	*ENG	[-2 to 2 / -1.1 / 0.1 %/step]
127	Long:Registration:Thick 2:Low	*ENG	[-2 to 2 / -1.1 / 0.1 %/step]
128	Long:Registration:Thick 3:Low	*ENG	[-2 to 2 / -1.1 / 0.1 %/step]

129	Long:Fusing:Plain:High	*ENG	[-4 to 4 / 1.9 / 0.01 %/step]
130	Long:Fusing:Plain:Low	*ENG	[-4 to 4 / 2.1 / 0.01 %/step]
131	131 Long:Fusing:Middle Thick:High		[-4 to 4 / 1.9 / 0.01 %/step]
132	Long:Fusing:Middle Thick:Middle	*ENG	[-4 to 4 / 1.4 / 0.01 %/step]
133	Long:Fusing:Middle Thick:Low	*ENG	[-4 to 4 / 2.1 / 0.01 %/step]
134	34 Long:Fusing:Thick 1:Middle		[-4 to 4 / 2.0 / 0.01 %/step]
135	Long:Fusing:Thick 1:Low	*ENG	[-4 to 4 / 1.7 / 0.01 %/step]
136	Long:Fusing:Thick 2:Low	*ENG	[-4 to 4 / 1.7 / 0.01 %/step]
137	Long:Fusing:Thick 3:Low	*ENG	[-4 to 4 / 1.7 / 0.01 %/step]

1902	[Amplitude Control]		
001	Execute	-	Execute the drum phase adjustment.
002	Result	*ENG	[0 to 3 / 0 / 1] Displays the result of the drum phase adjustment. 0: Successfully done 2: Sampling failure 3: Insufficient detection number
003	Auto Execution	*ENG	[0 or 1 / 1 / -] Turns the automatic drum phase adjustment on or off. 0: Off, 1: On

1050	[Fan Cooling Time Set]
1950	Adjust the rotation time for each fan motor after a job end.

002	Fusing Exit Fan	*ENG	
006	Main Suction Fan	*ENG	
007	Paper Exit Fan	*ENG	
008	PSU Fan	*ENG	[0, 100 / 0 / 0 1 : / ,]
009	Fusing IH Coil Fan	*ENG	[0 to 120 / 0 / 0.1 min./step]
010	IH Power Supply Fan	*ENG	
011	Second Duct Fan	*ENG	
012	Third Duct Fan	*ENG	

1951	[Fan Start Time Set]			
1931	Adjust the start time for each fan motor after a job end.			
002	Fusing Exit Fan	*ENG	[0 to 900 / 0 / 1 sec/step]	
006	Main Suction Fan	*ENG	[0 to 900 / 120 / 1 sec/step]	
007	Paper Exit Fan	*ENG	[0 to 900 / 0 / 1 sec/step]	
008	PSU Fan	*ENG	[0 to 900 / 120 / 1 sec/step]	
009	Fusing IH Coil Fan	*ENG		
010	IH Power Supply Fan	*ENG	[0 to 900 / 0 / 1 sec/step]	
011	Second Duct Fan	*ENG	[0 10 700 / 0 / 1 sec/ siep]	
012	Third Duct Fan	*ENG		

1952	[Fan Control Off Mode Time Set]				
1932	Specifies the time for fan control off mode.				
001	-	*ENG	[0 to 60 / 10 / 1 min./step]		

1953	[Extra Fan Control]
1933	Configures the settings of extra fan control.

001	Extra Fan Cooling State	*ENG	[0 or 1 / 0 / 1 /step] 0: Off, 1: On	
	Displays the extra fan cooling i	s On or Of	f.	
002	Extra Fan Cooling: Time: Threshold	*ENG	[0 to 180 / C2.5a: 110, C2.5b: 100 / 1 min./ step]	
003	Extra Fan Cooling: Rotat: Threshold	*ENG	[0 to 999999999 / 0 / 1 min./step]	
004	Extra Fan Cooling: Start Date	*ENG	Displays the execution time and date of the extra fan cooling.	
005	Extra Fan Cooling Time	*ENG	[0 to 120 / 30 / 0.1 min./step]	
005	Specifies the execution time for the extra fan cooling.			

1954	[Extra Fan Control]				
1934	Configures the settings of extra fan control.				
002	Fan Cooling Time:Fusing Exit Fan:Initial	*ENG	[0 to 120 / 0 / 0.1 min./step]		
006	Fan Cooling Time:Main Suction Fan:Initial	*ENG	[0 to 120 / 0 / 0.1 min./step]		
007	Fan Cooling Time:Paper Exit Fan:Initial	*ENG	[0 to 120 / 0 / 0.1 min./step]		
008	Fan Cooling Time:PSU Fan:Initial	*ENG	[0 to 120 / 0 / 0.1 min./step]		
009	Fan Cooling Time:Fusing IH Coil Fan:Initial	*ENG	[0 to 120 / 0 / 0.1 min./step]		
010	Fan Cooling Time:IH Power Supply Fan:Initial	*ENG	[0 to 120 / 0 / 0.1 min./step]		
011	Fan Cooling Time:Second Duct Fan:Initial	*ENG	[0 to 120 / 0 / 0.1 min./step]		
012	Fan Cooling Time:Third Duct Fan:Initial	*ENG	[0 to 120 / 0 / 0.1 min./step]		

Main SP Tables-2

SP2-XXX (Drum)

	[Charge DC Voltage] Charge Roller DC Voltage Adjustment				
2005	(Paper Type, Process Speed, Color)				
	Paper Type -> Plain, Thick 1, Thick 2				
	Plain: High speed, Thick 1: Mid	ddle speed	, Thick 2&FINE: Low speed		
	Adjusts the DC component of t	he charge r	roller bias in the various print modes.		
	Charge bias (DC component) is automatically adjusted during process control; therefore, adjusting these settings does not effect while process control mode (SP3-041-1 Default: ON) is activated. When deactivating process control mode with SP3-041-1, the values in these SP modes are used for printing.				
001	Plain: Bk	*ENG			
002	Plain: M	*ENG			
003	Plain: C	*ENG			
004	Plain: Y	*ENG			
005	Thick 1: Bk	*ENG			
006	Thick 1: M	*ENG	[0.1.1000 / 400 / 10. V/.1]		
007	Thick 1: C	*ENG	[0 to 1000 / 690 / 10 -V/step]		
800	Thick 1: Y	*ENG			
009	Thick 2&FINE: Bk	*ENG			
010	Thick 2&FINE: M	*ENG			
011	Thick 2&FINE: C	*ENG			
012	Thick 2&FINE: Y	*ENG			
	[Charge DC: Correction]				
013	PCU:Plain	*ENG	[-100 to 100 / -29 / 1 -V/step]		
014	PCU:Thick 1	*ENG	[-100 to 100 / -28 / 1 -V/step]		

015	PCU:Thick 2&FINE	*ENG	[-100 to 100 / -28 / 1 -V/step]
016	HVP:Plain	*ENG	[-100 to 100 / 20 / 1 -V/step]
017	HVP:Thick 1	*ENG	[-100 to 100 / 20 / 1 -V/step]
018	HVP: Thick 2&FINE	*ENG	[-100 to 100 / 29 / 1 -V/step]

	[Charge AC Voltage] Charge Roller AC Voltage Adjustment				
	(Paper Type, Process Speed, Color)				
	Paper Type -> Plain, Thick 1, Thick 2				
2006	Plain: High speed, Thick 1: Middle speed, Thick 2&FINE: Low speed				
	Adjusts the AC component of the charge roller bias in the various print modes.				
	Charge bias (AC component) is adjusted by environment correction (SP2-007-xxx to SP2-011-xxx). These SPs are activated only when SP2-012-1 is set to "1: manual control".				
001	Plain: Bk	*ENG	[0 to 3 / 1.9 / 0.01 KV/step]		
002	Plain: M	*ENG	[0 to 3 / 2.2 / 0.01 KV/step]		
003	Plain: C	*ENG	[0 to 3 / 2.2 / 0.01 KV/step]		
004	Plain: Y	*ENG	[0 to 3 / 2.2 / 0.01 KV/step]		
005	Thick 1: Bk	*ENG	[0 to 3 / 1.9 / 0.01 KV/step]		
006	Thick 1: M	*ENG	[0 to 3 / 2.2 / 0.01 KV/step]		
007	Thick 1: C	*ENG	[0 to 3 / 2.2 / 0.01 KV/step]		
008	Thick 1: Y	*ENG	[0 to 3 / 2.2 / 0.01 KV/step]		
009	Thick 2&FINE: Bk	*ENG	[0 to 3 / 1.9 / 0.01 KV/step]		
010	Thick 2&FINE: M	*ENG	[0 to 3 / 2.2 / 0.01 KV/step]		
011	Thick 2&FINE: C	*ENG	[0 to 3 / 2.2 / 0.01 KV/step]		
012	Thick 2&FINE: Y	*ENG	[0 to 3 / 2.2 / 0.01 KV/step]		

2012

001	AC Voltage	*ENG	Selects the AC voltage control type. [0 or 1 / 0 / 1 /step] 0: Process control 1: Manual control (AC voltages are decided with SP2006.)	
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2013	[Environmental Correction: PC	U]		
			Displays the environmental condition, which is measured in absolute humidity. [1 to 5 / - / 1 /step]	
001	Current Environmental:	*ENG	1: LL (LL \leq 4.3 g/m ³)	
001	Display	LINO	2: ML (4.3 < ML <= 11.3 g/m ³)	
			$3: MM (11.3 < MM <= 18.0 g/m^3)$	
			4: MH (18.0 < MH <= 24.0 g/m ³)	
			5: HH (24.0 g/m ³ < HH)	
			Selects the environmental condition manually. [0 to 5 / 0 / 1 /step]	
002	Forced Setting	*ENG	0: The environmental condition is determined automatically. 1: LL, 2: ML, 3: MM, 4: MH, 5: HH	
003	Absolute Humidity: Threshold	*ENG	Changes the humidity threshold between LL and ML.	
			[0 to 100 / 3.0 / 0.01 g/m ³ /step]	
004	Absolute Humidity: Threshold	*ENG	Changes the humidity threshold between ML and MM.	
	2		[0 to 100 / 8.0 / 0.01 g/m ³ /step]	
005	Absolute Humidity: Threshold	*ENG	Changes the humidity threshold between MM and MH.	
	3		[0 to 100 / 15.0 / 0.01 g/m ³ /step]	
006	Absolute Humidity: Threshold	*ENG	Changes the humidity threshold between MH and HH.	
	4		[0 to 100 / 15.0 / 0.01 g/m ³ /step]	

007	Current Temp.: Display	*ENG	Displays the current temperature. [0 to 100 / 0 / 1 deg/step]
008	Current Relative Humidity: Display	*ENG	Displays the current relative humidity. [0 to 100 / 0 / 1%RH/step]
009	Current Absolute Humidity: Display	*ENG	Displays the absolute humidity. [0 to 100 / 0 / 0.01 g/m ³ /step]
010	Previous Environmental: Display	*ENG	Displays the previous environmental condition, which is measured in absolute humidity. [1 to 5 / - / 1 /step] 1: LL, 2: ML, 3: MM, 4: MH, 5: HH
011	Previous Temp.: Display	*ENG	Displays the previous temperature. [0 to 100 / 0 / 1 deg/step]
012	Previous Relative Humidity: Display	*ENG	Displays the previous relative humidity. [0 to 100 / 0 / 1%RH/step]
013	Previous Absolute Humidity: Display	*ENG	Displays the previous absolute humidity. [0 to 100 / 0 / 0.01 g/m ³ /step]

2015	[Charge AC Adj: Result]		
001	Bk	*ENG	[0 to 9 / 0 / 1 /step]
002	М	*ENG	0: Success
003	С	*ENG	1: Out of tolerance range 2: Out of adjustable range
004	Υ	*ENG	3: Adjustment incompleted

	[Color Registration Correction] FA
2101	These values are the parameters for the automatic line position adjustment and are adjusted at the factory. However, you must input a value for SP2101-001 after replacing the laser optics housing unit. For details, see "Laser Optics Housing Unit" in the "Replacement and Adjustment" section. The value should be provided with the new laser optics housing unit.

001	Main Dot: Bk	*ENG	
002	Main Dot: Ma	*ENG	[-512 to 511 / 0 / 1 dot/step]
003	Main Dot: Cy	*ENG	[-31210311 / 0 / 1 doi/siep]
004	Main Dot: Ye	*ENG	
005	Sub Line: Bk	*ENG	
006	Sub Line: Ma	*ENG	[-16384 to 16383 / 0 / 1 line/step]
007	Sub Line: Cy	*ENG	[-10304 to 10303 / U / 1 line/siep]
008	Sub Line: Ye	*ENG	

2103	[Erase Margin Adjustment] (Area, Paper Size)		
	Adjusts the erase margin by deleting im	age data at t	he margins.
001	Lead Edge Width	*ENG	[04-00/42/01/]
002	Trail. Edge Width	*ENG	[0 to 9.9 / 4.2 / 0.1 mm/step]
003	Left	*ENG	[04-00/2/01/]
004	Right	*ENG	[0 to 9.9 / 2 / 0.1 mm/step]
006	Duplex Trail. L Size	*ENG	[0 to 4 / 1 / 0.1 mm/step]
007	Duplex Trail. M Size	*ENG	[0 to 4 / 0.8 / 0.1 mm/step]
800	Duplex Trail. S Size	*ENG	[0 to 4 / 0.6 / 0.1 mm/step]
009	Duplex Left Edge	*ENG	[0 to 1.5 / 0.3 / 0.1 mm/step]
010	Duplex Right Edge	*ENG	[0 to 1.5 / 0.3 / 0.1 mm/step]
011	Duplex Trail. L Size:Thick	*ENG	[0 to 4 / 1 / 0.1 mm/step]
012	Duplex Trail. M Size:Thick	*ENG	[0 to 4 / 0.8 / 0.1 mm/step]
013	Duplex Trail. S Size:Thick	*ENG	[0 to 4 / 0.6 / 0.1 mm/step]
014	Duplex Left Edge:Thick	*ENG	[04-15/02/01/]
015	Duplex Right Edge:Thick	*ENG	[0 to 1.5 / 0.3 / 0.1 mm/step]

2105 [LD Power Adj.] (Process Speed, Color	
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	Adjusts the LD power of each color for each process speed.			
	Each LD power setting is decided by process control.			
001	High Speed: Bk	*ENG	[50 to 120 / 100 / 1%/step]	
002	High Speed: Ma	*ENG	Decreasing a value makes lines thinner on the	
003	High Speed: Cy	*ENG	output. Increasing a value makes lines thicker on the	
004	High Speed: Ye	*ENG	output.	
005	Middle Speed: Bk	*ENG	[50 to 120 / 100 / 1%/step]	
006	Middle Speed: Ma	*ENG	Decreasing a value makes lines thinner on the output.	
007	Middle Speed: Cy	*ENG	Increasing a value makes lines thicker on the	
008	Middle Speed: Ye	*ENG	output.	
009	Low Speed: Bk	*ENG	[50 to 120 / 100 / 1%/step]	
010	Low Speed: Ma	*ENG	Decreasing a value makes lines thinner on the	
011	Low Speed: Cy	*ENG	output. Increasing a value makes lines thicker on the	
012	Low Speed: Ye	*ENG	output.	

2109	[Test Pattern]				
2109	Generates the test pattern using "COPY Window" tab in the LCD.				
003	Pattern Selection	-	[0 to 23 / 0 / 1/step]		

			-
	0 None		11. Independent Pattern (1dot)
	1: Vertical Line (1dot)		12. Independent Pattern (2dot)
	2: Vertical Line (2dot)		13. Independent Pattern (4dot)
	3: Horizontal (1dot)		14. Trimming Area
	4: Horizontal (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		23: Full Dot Pattern
			Specifies the color for the test pattern.
005	Color Selection	-	[1 to 4 / 1 / 1/step]
			1: All colors, 2: Magenta, 3: Yellow, 4: Cyan
006	Density: Bk	-	Specifies the color density for the test pattern.
007	Density: Ma	-	[0 to 15 / 15 / 1 /step]
008	Density: Cy	-	0: Lightest density
009	Density: Ye	-	15: Darkest density

2111	[Forced Line Position Adj.]		
001	Mode a	-	Executes the fine line position adjustment twice. If this SP is not completed (NG is displayed), do SP2111-003 first and then try this SP again.
002	Mode b	-	Executes the fine line position adjustment once. If this SP is not completed, do SP2111-003 first and then try this SP again.
003	Mode c	-	Executes the rough line position adjustment once. After doing this SP, make sure to execute SP2111-001 or -002. Otherwise, the line position adjustment is not perfectly done.

2112	[TM/ID Sensor Check] ID Sensor Check FA		
001	Execute	[0 or 1 / 0 / 1 /step] This SP is used to check the ID sensors at the factory. The results of this SP are displayed in SP2140 to SP2145.	

		[Skew Adjustment]				
		skew motor M, C or Y. optics housing unit is installed or when SC2.585 sing Unit" in the "Replacement and Adjustment"				
	001	Pulse: M	*ENG			
	002	Pulse: C	*ENG	[-50 to 50 / 0 / 1 pulse/step]		
	003	Pulse: Y	*ENG			

2118	[Skew Adjustment]		
001	Execute: M	*ENG	Changes the current skew adjustment values to the
002	Execute: C	*ENG	values specified with SP2117. These SPs must be used when a new laser optics
003	Execute: Y	*ENG	housing unit is installed or when SC2.585 occurs. For details, see "Laser Optics Housing Unit" in the "Replacement and Adjustment" section.

2119	[Skew Adjustment Display]				
2119	Displays the current skew adjustment value for each skew motor.				
001	М	*ENG			
002	С	*ENG [-50 to 50 / 0 / 1 pulse/ste	[-50 to 50 / 0 / 1 pulse/step]		
003	Υ	*ENG			

[Area Mag. Correction] LD Pulse Area Correction (Color, Area) FA			Correction (Color Area) EA		
2150	Adjusts the magnification for each area. The main scan (297 mm) is divided into 8 areas. Area 1 is at the front side of the machine (left side of the image) and area 8 is at the rear side of the machine (right side of the image).				
	Decreasing a value makes the image shift to the left side on the print.				
	Increasing a value makes the	e image sh	ift to the right side on the print.		
	1 pulse = 1/16 dot				
027	7 Area 0: Bk *ENG [-256 to 255 / 0 / 1 sub-dot/step]				
028	Area 1: Bk	*ENG			
029	Area 2: Bk	3: Bk *ENG			
030	Area 3: Bk				
031	Area 4: Bk		Adjusts the area magnification for LD 0.		
032	Area 5: Bk	*ENG	[-256 to 255 / 0 / 1 sub-dot/step]		
033	Area 6: Bk	*ENG			
034	Area 7: Bk	*ENG			
035	Area 8: Bk	*ENG			
036	Area 9: Bk	*ENG			
037	Area 10: Bk	*ENG	Not used		
038	Area 11: Bk	*ENG	I NOI used		
039	Area 12: Bk	*ENG			
079	Area 0: Ma	*ENG	Not used		
080	Area 1: Ma	*ENG	Adjusts the area magnification for LD 0. [-255to 255 / 0 / 1 sub-dot/step]		

081	Area 2: Ma	*ENG	
082	Area 3: Ma	*ENG	
083	Area 4: Ma	*ENG	
084	Area 5: Ma	*ENG	[-256to 255 / 0 / 1 sub-dot/step]
085	Area 6: Ma	*ENG	
086	Area 7: Ma	*ENG	
087	Area 8: Ma	*ENG	
088	Area 9: Ma	*ENG	
089	Area 10: Ma	*ENG	Not used
090	Area 11: Ma	*ENG	Not used
091	Area 12: Ma	*ENG	
131	Area 0: Cy	*ENG	Not used
132	Area 1: Cy	*ENG	
133	Area 2: Cy	*ENG	
134	Area 3: Cy	*ENG	
135	Area 4: Cy	*ENG	Adjusts the area magnification for LD 0.
136	Area 5: Cy	*ENG	[-256 to 255 / 0 / 1 sub-dot/step]
137	Area 6: Cy	*ENG	
138	Area 7: Cy	*ENG	
139	Area 8: Cy	*ENG	
140	Area 9: Cy	*ENG	
141	Area 10: Cy	*ENG	Notuced
142	Area 11: Cy	*ENG	Not used
143	Area 12: Cy	*ENG	
183	Area 0: Ye	*ENG	Not used
			+

184	Area 1: Ye	*ENG	
185	Area 2: Ye	*ENG	
186	Area 3: Ye	*ENG	
187	Area 4: Ye	*ENG	Adjusts the area magnification for LD 0.
188	Area 5: Ye	*ENG	[-256 to 255 / 0 / 1 sub-dot/step]
189	Area 6: Ye	*ENG	
190	Area 7: Ye	*ENG	
191	Area 8: Ye	*ENG	
192	Area 9: Ye	*ENG	
193	Area 10: Ye	*ENG	Not used
194	Area 11: Ye	*ENG	INOI used
195	Area 12: Ye	*ENG	

		[Area Shad. Correct. Setting] FA
		Adjusts the area correction value for each LD power.
	2152	The main scan is divided into 16 areas. However, the image areas are limited from area 1 to area 14.
		For BK and Magenta, area 1 is at the rear side of the machine (left side of the image) and area 14 is at the front side of the machine (right side of the image).
		For Cyan and Yellow, area 1 is at the front side of the machine (right side of the image) and area 14 is at the rear side of the machine (left side of the image).

001	Area O: Bk	*ENG	
002	Area 1: Bk	*ENG	
003	Area 2: Bk	*ENG	
004	Area 3: Bk	*ENG	
005	Area 4: Bk	*ENG	
006	Area 5: Bk	*ENG	
007	Area 6: Bk	*ENG	
008	Area 7: Bk	*ENG	This is for the synchronizing detection board. [50 to 150 / 100 / 1 %/step]
009	Area 8: Bk	*ENG	[50 10 130 / 100 / 1 /0/3100]
010	Area 9: Bk	*ENG	
011	Area 10: Bk	*ENG	
012	Area 11: Bk	*ENG	
013	Area 12: Bk	*ENG	
014	Area 13: Bk	*ENG	
015	Area 14: Bk	*ENG	
016	Area 15: Bk	*ENG	This is out of the image area. [50 to 150 / 100 / 1 %/step]
033	Area 0: M	*ENG	This is for the synchronizing detection board.

034	Area 1: M	*ENG	
035	Area 2: M	*ENG	
036	Area 3: M	*ENG	
037	Area 4: M	*ENG	
038	Area 5: M	*ENG	
039	Area 6: M	*ENG	
040	Area 7: M	*ENG	[50 to 150 / 100 / 1 % / to m]
041	Area 8: M	*ENG	[50 to 150 / 100 / 1 %/step]
042	Area 9: M	*ENG	
043	Area 10: M	*ENG	
044	Area 11: M	*ENG	
045	Area 12: M	*ENG	
046	Area 13: M	*ENG	
047	Area 14: M	*ENG	
048	Area 15: M	*ENG	This is out of the image area. [50 to 150 / 100 / 1 %/step]
065	Area 0: C	*ENG	This is for the synchronizing detection board. [50 to 150 / 100 / 1 %/step]
			[50 to 150 / 100 / 1 %/step]

066	Area 1: C	*ENG	
067	Area 2: C	*ENG	
068	Area 3: C	*ENG	
069	Area 4: C	*ENG	
070	Area 5: C	*ENG	
071	Area 6: C	*ENG	
072	Area 7: C	*ENG	[50 to 150 / 100 / 1 %/step]
073	Area 8: C	*ENG	[30 to 130 / 100 / 1 %/ step]
074	Area 9: C	*ENG	
075	Area 10: C	*ENG	
076	Area 11: C	*ENG	
077	Area 12: C	*ENG	
078	Area 13: C	*ENG	
079	Area 14: C	*ENG	
080	Area 15: C	*ENG	This is out of the image area. [50 to 150 / 100 / 1 %/step]
097	Area 0: Y	*ENG	This is for the synchronizing detection board. [50 to 150 / 100 / 1 %/step]

098	Area 1: Y	*ENG	
099	Area 2: Y	*ENG	
100	Area 3: Y	*ENG	
101	Area 4: Y	*ENG	
102	Area 5: Y	*ENG	
103	Area 6: Y	*ENG	
104	Area 7: Y	*ENG	[50 to 150 / 100 / 1 % / to]
105	Area 8: Y	*ENG	[50 to 150 / 100 / 1 %/step]
106	Area 9: Y	*ENG	
107	Area 10: Y	*ENG	
108	Area 11: Y	*ENG	
109	Area 12: Y	*ENG	
110	Area 13: Y	*ENG	
111	Area 14: Y	*ENG	
112	Area 15: Y	*ENG	This is out of the image area.

2160	[Vertical Line Width] DFU						
2100	Adjusts the width of the vertical line.						
001	600dpi:Bk	*ENG					
002	600dpi:Ma	*ENG					
003	600dpi:Cy	*ENG					
004	600dpi:Ye	*ENG	[10 + 15 / 15 / 1 /]				
005	1200dpi:Bk	*ENG	[10 to 15 / 15 / 1 /step]				
006	1200dpi:Ma	*ENG					
007	1200dpi:Cy	*ENG					
008	1200dpi:Ye	*ENG					

2181	[Line Position Adj. Result]						
	Displays the values for each correction. • "Paper Int. Mag: Subdot" indicates the magnification correction value between two						
	sheets of paper.						
	"Mag.Cor. Subdot" indicates the magnification correction value.						
	 "M. Scan Erro." indicates the shift correction value in the main scan direction. "S. Scan Erro." Indicates the shift correction value in the sub scan direction. "M. Cor.: Dot" indicates the dot correction value in the main scan direction. "M. Cor.: Subdot" indicates the sub dot correction value in the main scan direction Bk: Black, M: Magenta, C: Cyan, Y: Yellow 						
001							
001	Paper Int. Mag: Subdot: Bk	*ENG	[-32768 to 32767 / 0 / 1 pulse/step]				
002	Mag.Cor. Subdot: Bk	*ENG	[-32768 to 32767 / 0 / 1 pulse/step]				
003	Skew: M	*ENG	[-5000 to 5000 / 0 / 0.001 um/step]				
005	M. Scan Erro.: Left: M	*ENG					
006	M. Scan Erro.: Center: M	*ENG					
007	M. Scan Erro.: Right: M	*ENG	[-5000 to 5000 / 0 / 0.001 um/step]				
008	S. Scan Erro.: Left: M	*ENG	[-5000 to 5000 / 0 / 0.00 f only step]				
009	S. Scan Erro.: Center: M	*ENG					
010	S. Scan Erro.: Right: M	*ENG					
011	M. Cor.: Dot: M	*ENG	[-512 to 511 / 0 / 1 dot/step]				
012	M. Cor.: Subdot: M	*ENG	[-15 to 15 / 0 / 1 pulse/step]				
013	Paper Int. Mag: Subdot: M	*ENG					
014	Mag.Cor. Subdot: M	*ENG	[-32768 to 32767 / 0 / 1 pulse/step]				
015	M. Left Mag.: Subdot: M	*ENG	[-02/00/00/22/0/ / 0 / 1 pulse/ siep]				
016	M. Right Mag.: Subdot: M	*ENG					
017	S. Cor.: 600 Line: M	*ENG	[-16384 to 16383 / 0 / 1 line/step]				
018	S. Cor.: 600 Sub: M	*ENG	[-1 to 1 / 0 / 0.001 line/step]				
019	S. Cor.: 1200 Line: M	*ENG	[-16384 to 16383 / 0 / 1 line/step]				

		1	
020	S. Cor.: 1200 Sub: M	*ENG	[-1 to 1 / 0 / 0.001 line/step]
021	Skew: C	*ENG	[-5000 to 5000 / 0 / 0.001 um/step]
023	M. Scan Erro.: Left: C	*ENG	
024	M. Scan Erro.: Center: C	*ENG	
025	M. Scan Erro.: Right: C	*ENG	[5000 to 5000 / 0 / 0 001 cm / to 1
026	S. Scan Erro.: Left: C	*ENG	[-5000 to 5000 / 0 / 0.001 um/step]
027	S. Scan Erro.: Center: C	*ENG	
028	S. Scan Erro.: Right: C	*ENG	
029	M. Cor.: Dot: C	*ENG	[-512 to 511 / 0 / 1 dot/step]
030	M. Cor.: Subdot: C	*ENG	[-15 to 15 / 0 / 1 pulse/step]
031	Paper Int. Mag: Subdot: C	*ENG	
032	Mag.Cor. Subdot: C	*ENG	[007/0 : 007/7 / 0 /1
033	M. Left Mag.: Subdot: C	*ENG	[-32768 to 32767 / 0 / 1 pulse/step]
034	M. Right Mag.: Subdot: C	*ENG	
035	S. Cor.: 600 Line: C	*ENG	[-16384 to 16383 / 0 / 1 line/step]
036	S. Cor.: 600 Sub: C	*ENG	[-1 to 1 / 0 / 0.001 line/step]
037	S. Cor.: 1200 Line: C	*ENG	[-16384 to 16383 / 0 / 1 line/step]
038	S. Cor.: 1200 Sub: C	*ENG	[-1 to 1 / 0 / 0.001 line/step]
039	Skew: Y	*ENG	
041	M. Scan Erro.: Left: Y	*ENG	
042	M. Scan Erro.: Center: Y	*ENG	
043	M. Scan Erro.: Right: Y	*ENG	[-5000 to 5000 / 0 / 0.001 um/step]
044	S. Scan Erro.: Left: Y	*ENG	
045	S. Scan Erro.: Center: Y	*ENG	
046	S. Scan Erro.: Right: Y	*ENG	
047	M. Cor.: Dot: Y	*ENG	[-512 to 511 / 0 / 1 dot/step]

048 M. Cor.: Subdot: Y *ENG [-15 to 15 / 0 / 1 pulse/step] 049 Paper Int. Mag: Subdot: Y *ENG 050 Mag.Cor. Subdot: Y *ENG 051 M. Left Mag.: Subdot: Y *ENG 052 M. Right Mag.: Subdot: Y *ENG				
050 Mag.Cor. Subdot: Y *ENG 051 M. Left Mag.: Subdot: Y *ENG 052 M. Right Mag.: Subdot: Y *ENG	048	048 M. Cor.: Subdot: Y	*ENG	[-15 to 15 / 0 / 1 pulse/step]
051 M. Left Mag.: Subdot: Y *ENG 052 M. Right Mag.: Subdot: Y *ENG	049	049 Paper Int. Mag: Subdot: Y	*ENG	
051 M. Left Mag.: Subdot: Y *ENG 052 M. Right Mag.: Subdot: Y *ENG	050	050 Mag.Cor. Subdot: Y	*ENG	[20740 - 20747 / 0 / 1]
	051	051 M. Left Mag.: Subdot: Y	*ENG	[-32/06/16/32/07/ 0 //1/pulse/siep]
050 C C (001) V	052	052 M. Right Mag.: Subdot: Y	*ENG	
U53 S. Cor.: 600 Line: Y "ENG [-16384 to 16383 / 0 / 1 line/step]	053	053 S. Cor.: 600 Line: Y	*ENG	[-16384 to 16383 / 0 / 1 line/step]
054 S. Cor.: 600 Sub: Y *ENG [-1 to 1 / 0 / 0.001 line/step]	054	054 S. Cor.: 600 Sub: Y	*ENG	[-1 to 1 / 0 / 0.001 line/step]
055 S. Cor.: 1200 Line: Y *ENG [-16384 to 16383 / 0 / 1 line/step]	055	055 S. Cor.: 1200 Line: Y	*ENG	[-16384 to 16383 / 0 / 1 line/step]
056 S. Cor.: 1200 Sub: Y *ENG [-1 to 1 / 0 / 0.001 line/step]	056	056 S. Cor.: 1200 Sub: Y	*ENG	[-1 to 1 / 0 / 0.001 line/step]

2182	[Line Position Adj. Offset]							
2102	(Color) M. Scan: Main scan, S. Scan: Sub-scan							
001	M Magnification							
002	C Magnification	*ENG	Adjusts the line position manually. [-1 to 1 / 0 / 0.001%/step]					
003	Y Magnification	*ENG	[1 10 1 / 0 / 0.00 1 /0/ slep]					
	When line shifts are not corrected by the automatic line position adjustment, do this SP.							
	Increasing a value reduces the image in the main scan direction. Decreasing a value enlarges the image in the main scan direction.							
004	M. Scan: High: Dot: M	[-512 to 511 / 0 / 1 dot/step]						
005	M. Scan: High: Subdot: M	*ENG	[-15 to 15 / 0 / 1 pulse/step]					
006	M. Scan: Medium: Dot: M	*ENG	[-512 to 511 / 0 / 1 dot/step]					
007	M. Scan: Medium: Subdot: M	*ENG	[-15 to 15 / 0 / 1 pulse/step]					
800	M. Scan: Low: Dot: M	*ENG	[-512 to 511 / 0 / 1 dot/step]					
009	M. Scan: Low: Subdot: M	*ENG	[-15 to 15 / 0 / 1 pulse/step]					
010	M. Scan: High: Dot: C	*ENG	[-512 to 511 / 0 / 1 dot/step]					
011	M. Scan: High: Subdot: C	*ENG	[-15 to 15 / 0 / 1 pulse/step]					
012	M. Scan: Medium: Dot: C	*ENG	[-512 to 511 / 0 / 1 dot/step]					

013	M. Scan: Medium: Subdot: C	*ENG	[-15 to 15 / 0 / 1 pulse/step]
014	M. Scan: Low: Dot: C	*ENG	[-512 to 511 / 0 / 1 dot/step]
015	M. Scan: Low: Subdot: C	*ENG	[-15 to 15 / 0 / 1 pulse/step]
016	M. Scan: High: Dot: Y	*ENG	[-512 to 511 / 0 / 1 dot/step]
017	M. Scan: High: Subdot: Y	*ENG	[-15 to 15 / 0 / 1 pulse/step]
018	M. Scan: Medium: Dot: Y	*ENG	[-512 to 511 / 0 / 1 dot/step]
019	M. Scan: Medium: Subdot: Y	*ENG	[-15 to 15 / 0 / 1 pulse/step]
020	M. Scan: Low: Dot: Y	*ENG	[-512 to 511 / 0 / 1 dot/step]
021	M. Scan: Low: Subdot: Y	*ENG	[-15 to 15 / 0 / 1 pulse/step]
022	S. Scan: High: Line: M	*ENG	[-16384 to 16383 / 0 / 1 line/step]
023	S. Scan: High: Subline: M	*ENG	[-1 to 1 / 0 / 0.001 /line]
024	S. Scan: Medium: Line: M	*ENG	[-16384 to 16383 / 0 / 1 line/step]
025	S. Scan: Medium: Subline: M	*ENG	[-1 to 1 / 0 / 0.001 /line]
026	S. Scan: Low: Line: M	*ENG	[-16384 to 16383 / 0 / 1 line/step]
027	S. Scan: Low: Subline: M	*ENG	Not used
028	S. Scan: High: Line: C	*ENG	[-16384 to 16383 / 0 / 1 line/step]
029	S. Scan: High: Subline: C	*ENG	[-1 to 1 / 0 / 0.001 /line]
030	S. Scan: Medium: Line: C	*ENG	[-16384 to 16383 / 0 / 1 line/step]
031	S. Scan: Medium: Subline: C	*ENG	[-1 to 1 / 0 / 0.001 /line]
032	S. Scan: Low: Line: C	*ENG	[-16384 to 16383 / 0 / 1 line/step]
033	S. Scan: Low: Subline: C	*ENG	Not used
034	S. Scan: High: Line: Y	*ENG	[-16384 to 16383 / 0 / 1 line/step]
035	S. Scan: High: Subline: Y	*ENG	[-1 to 1 / 0 / 0.001 /line]
036	S. Scan: Medium: Line: Y	*ENG	[-16384 to 16383 / 0 / 1 line/step]
037	S. Scan: Medium: Subline: Y	*ENG	[-1 to 1 / 0 / 0.001 /line]
038	S. Scan: Low: Line: Y	*ENG	[-16384 to 16383 / 0 / 1 line/step]

039	S. Scan: Low: Subline: Y	*ENG	Not used
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2185	[Main Scan Length Detection Disp.]							
	Displays/adjusts the target value for the main scan magnification correction of the line position adjustment.							
	After replacing the laser optics housing unit, input the standard value for Bk provided with the new unit. For details, see "Laser Optics Housing Unit" in the "Replacement Adjustment" section. It is not necessary to input the values for the other colors; these are automatically adjusted after doing the line position adjustment.							
001	Bk	*ENG						
002	М	*ENG	[0.4- 244447 / 240440 / 1					
003	С	*ENG	[0 to 266667 / 249449 / 1 sub-dot/step]					
004	Υ	*ENG						

2193	[MUSIC Condition Set] Line Position Adjustment: Condition Setting				
001	Auto Execution	*ENG	[0 or 1 / 1 / 1] 0: OFF, 1: ON		
	Enables/disables the automatic	line positic	on adjustment		
002	Page: Job End: BW+FC	*ENG	[0 to 999 / 500 / 1 page/step]		
	Adjusts the threshold of the line position adjustment for BW and color printing mode after job end.				
003	Page: Job End: FC	*ENG	[0 to 999 / 200 / 1 page/step]		
003	Adjusts the threshold of the line position adjustment for color printing mode after job end.				
	Page: Interrupt: BW+FC	*ENG	[0 to 999 / 200 / 1 page/step]		
004	Adjusts the threshold of the line position adjustment for BW and color printing mode during job.				
005	Page: Interrupt: FC	*ENG	[0 to 999 / 200 / 1 page/step]		
005	Adjusts the threshold of the line p	oosition ad	justment for color printing mode during jobs.		

	Page: Stand-By: BW		*ENG		[0 to 999 / 100 / 1 page/step]			
006	Adjusts the threshold of the line position adjustment for BW printing mode in stand-by mode. The line position adjustment is done when the number of outputs in BW printing mode reaches the value specified with this SP and the condition of SP2-193-008 or SP2-193-009 is satisfied.							
	Page: Stand-By: FC		*ENG		[0 to 999 / 100 / 1 page/step]			
007	Adjusts the threshold of the line position adjustment for FC printing mode in stand-by mode. The line position adjustment is done when the number of outputs in color printing mode reaches the value specified with this SP and the condition of SP2-193-008 or SP2-193-009 is satisfied.							
	Temp.		*ENG		[0 to 100 / 5 / 1 deg/step]			
008	Adjust the temperature change threshold for the line position adjustment (Mode b: adjustment once). The timing for line position adjustment depends on the combinations of several conditions.							
	Time		*ENG		[1 to 1440 / 300 / 1 minute/step]			
009	Adjust the time threshold for the line position adjustment (Mode b: adjustment once). The timing for line position adjustment depends on the combinations of several conditions.							
	Magnification		*ENG		[0 to 10 / 0.1 / 0.01%/step]			
010	Adjusts the magnification threshold for line position adjustment. If the length of the main scan is changed by this amount since the previous MUSIC, then MSUIC is done again.							
	Temp. 2		*ENG		[0 to 100 / 10 / 1deg/step]			
011	Adjust the temperature change threshold for the line position adjustment (Mode a: adjustmet twice). The timing for line position adjustment depends on the combinations of several conditions.							
	Time 2	* E1	1G	[1	to 9999 / 600 / 1 minute/step]			
012	Adjust the time threshold for the line position adjustment (Mode a: adjustment twice). The timing for line position adjustment depends on the combinations of several conditions.							
	Page: Power ON:BW+FC	* E1	1G	[0	to 999 / 200 / 1 page/step]			
013	Adjusts the threshold of the line position adjustment for BW and FC printing mode a on. The line position adjustment is done when the number of outputs in BW and color mode reaches the value specified with this SP and the condition of SP2-193-008 of SP2-193-009 is satisfied.							

2194	[MUSIC Execution Result] Line Position Adjustment: Execution Result						
001	Year	*ENG	[0 to 99 / 0 / 1 year/step]				
001	Displays the year of the last	MUSIC ex	ecution.				
000	Month	*ENG	[1 to 12 / 1 / 1 month/step]				
002	Displays the month of the last MUSIC execution.						
000	Day	*ENG	[1 to 31 / 1 / 1 day/step]				
003	Displays the date of the last	MUSIC ex	ecution.				
004	Hour	*ENG	[0 to 23 / 0 / 1 hour/step]				
004	Displays the time (hour) of the last MUSIC execution.						
005	Minute	*ENG	[0 to 59 / 0 / 1 minute/step]				
005	Displays the time (minute) of the last MUSIC execution.						
	Temperature	*ENG	[0 to 100 / 0 / 1 deg/step]				
006	Displays the temperature of t	he last MU	ast MUSIC execution.				
007	Execution Result	*ENG	[0 or 1 / 0 / 1 /step]				
007	Execution Result	LINO	0: Completed successfully, 1: Failed				
800	Number of Execution	*ENG	[0 to 999999 / 0 / 1 times/step]				
009	Number of Failure	*ENG	[0 to 999999 / 0 / 1 times/step]				
010	Error Result: M	*ENG	[0 to 9 / 0 / 1 /step]				
011	Error Result: C	*ENG	0: Not done				
			1: Completed successfully 2: Cannot detect patterns				
			3: Fewer lines on the pattern than the target				
012	Error Result: Y	*ENG	4: Not used				
			5: Out of the adjustment range				
			6 to 9: Not used				

2198	[Music A/D Interval]	
	ADC Trigger Counter	

001 ADC Trigger Counter	*ENG	[7.5 to 20 / 10 / 0.1 µs/step]
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[Skew Origin Set] Executes the skew motor initialization in the laser optics unit.			
		e laser optics unit.	
001	M: Skew Motor	-	-
002	C: Skew Motor	-	-
003	Y: Skew Motor	-	-

	[LD Power] LD Power Control				
2221	Adjusts the fixed LD power for each line speed and color. These SPs are activated only when SP3-041-002 is set to "0".				
	Plain: High speed, Thick 1: Middle speed, Thick 2&Fine: Low speed				
001	Plain: Bk *ENG				
002	Plain: M	*ENG			
003	Plain: C	*ENG			
004	Plain: Y	*ENG			
005	Thick 1: Bk	*ENG			
006	Thick 1: M	*ENG	[0 to 200 / 100 / 1%/step]		
007	Thick 1: C	*ENG	Increasing this value makes the image density darker.		
008	Thick 1: Y	*ENG			
009	Thick 2&FINE: Bk	*ENG			
010	Thick 2&FINE: M	*ENG			
011	Thick 2&FINE: C	*ENG			
012	Thick 2&FINE: Y	*ENG			

	[Davalanment DC Visa] Daval	nmant DC Di	an Adiustra ant		
	[Development DC Vias] Development DC Bias Adjustment				
	Adjusts the development bias.	velopment bias.			
2229	Development bias is automatically adjusted during process control; therefore, adjusting these settings has no effect while Process Control (SP3-041-001 Default: ON) is activated.				
	After deactivating Process Control with SP3-041-001, the values in these SP modes are used for printing.				
	Plain: High speed, Thick 1: Middle speed, Thick 2&Fine: Low speed				
001	Plain: Bk	*ENG			
002	Plain: M	*ENG			
003	Plain: C	*ENG			
004	Plain: Y	*ENG			
005	Thick 1: Bk	*ENG			
006	Thick 1: M	*ENG	[0 to 800 / 550 / 10 –V/step]		
007	Thick 1: C	*ENG	[0 10 000 / 330 / 10 - v / siep]		
800	Thick 1: Y	*ENG			
009	Thick 2&FINE:Bk	*ENG			
010	Thick 2&FINE:M	*ENG			
011	Thick 2&FINE:C	*ENG			
012	Thick 2&FINE:Y	*ENG			

2241	[Temperature/Humidity: Display]		
2241	Displays the environment temperature and humidity.		
001	Temperature	-	[-1280 to 1270 / - / 0.1deg/step]
002	Relative Humidity	-	[0 to 1000 / - / 0.1 %RH/step]
003	Absolute Humidity	-	[0 to 100 / - / 0.01 g/m ³ /step]

2302	[Environmental Correction: Transfer]
2302	Environmental Correction: Image Transfer Belt Unit

001	Current Environmental Display	-	Displays the current environment condition.
002	Forced Setting	*ENG	Sets the environment condition manually. [0 to 6 / 0 / 1 /step] 0: Automatic environment control 1: LL (Low temperature/ Low humidity) 2: ML (Middle temperature/ Low humidity) 3: MM (Middle temperature/ Middle humidity) 4: MH (Middle temperature/ High humidity) 5: HH (High temperature/ High humidity)
003	Absolute Humidity: Threshold 1	*ENG	Adjusts the threshold value between LL and ML. [0 to 100 / 4 / 0.01 g/m ³ /step]
004	Absolute Humidity: Threshold 2	*ENG	Adjusts the threshold value between ML and MM. [0 to 100 / 8 / 0.01 g/m ³ /step]
005	Absolute Humidity: Threshold 3	*ENG	Adjusts the threshold value between MM and MH. [0 to 100 / 16 / 0.01 g/m³/step]
006	Absolute Humidity: Threshold 4	*ENG	Adjusts the threshold value between MH and HH. [0 to 100 / 24 / 0.01 g/m³/step]
007	Temp Threshold	*ENG	[-5 to 30 / 5 / 1 deg/step]

2200	[Paper Size Correction]			
2308	Adjusts the threshold value fo	usts the threshold value for the paper size correction.		
001	Threshold 1	*ENG	[0 to 350 / 297 / 1 mm/step] Threshold 1 ≤ paper: Paper is detected as "S1" size.	
002	Threshold 2	*ENG	[0 to 350 / 257 / 1 mm/step] Threshold 2 ≤ paper ≤ Threshold 1: Paper is detected as "S2" size.	

003	Threshold 3	*ENG	[0 to 350 / 210 / 1 mm/step] Threshold 3 ≤ paper ≤ Threshold 2: Paper is detected as "S3" size.
004	Threshold 4	*ENG	[0 to 350 / 148 / 1 mm/step] Threshold 4 ≤ paper ≤ Threshold 3: Paper is detected as "S4" size. Paper ≤ Threshold 4: Paper is detected as "S5" size.

2311	[Non Image Area: Bias]		
001	Image Transfer	*ENG	Adjusts the bias of the image transfer belt between images. This value is added to the value of the image transfer belt bias. [10 to 250 / 100 / 5 %/step]
002	Paper Transfer	*ENG	Adjusts the bias of the paper transfer roller between images. [0 to 2000 / 500 / 1 V/step]

2326	[Transfer Roller CL: Bias] Transfer Roller Cleaning: Bias Adjustment					
0.0.1	Positive	*ENG	[0 to 2100 / 500 / 100 V /step]			
001	Adjusts the positive voltage o	Adjusts the positive voltage of the paper transfer roller for cleaning the paper transfer roller.				
000	Negative	*ENG	[10 to 400 / 100 / 10 %/step]			
002	Adjusts the negative current of the paper transfer roller for cleaning the paper transfer roller.					
	Positive	*ENG	[0 to 2100 / 2000 / 100 V/step]			
Adjusts the negative current limit of the paper transfer roller for cleaning the paper roller.		paper transfer roller for cleaning the paper transfer				
004	Negative *ENG [10 to 400 / 100 / 10 %/step]					

2351	[Common: BW: Bias] Image Transfer Belt: B/W: Bias Adjustment		
2331	Plain: High speed, Thick 1: Middle speed, Thick 2&Fine: Low speed		

001	ITB unit: Plain	*ENG	[0 to 80 / 25 / 1 µA]		
001	Adjusts the current for the image transfer belt in B/W mode for plain paper.				
002	ITB unit: Thick 1	*ENG	[0 to 80 / 12 / 1 µA]		
002	Adjusts the current for the image transfer belt in B/W mode for thick 1 paper.				
003	ITB unit: Thick 2 & FINE	*ENG	[0 to 80 / 12 / 1 µA]		
003	Adjusts the current for the imag	ge transfer l	belt in B/W mode for thick 2 paper or FINE mode.		

2357	[Common: FC: Bias] Image Transfer Belt: Full Color: Bias Adjustment Plain: High speed, Thick 1: Middle speed, Thick 2&Fine: Low speed				
	ridin. riigii speed, mick 1. Mic	adie speed	, Thick Zot life. Low speed		
001	ITB unit: Plain: Bk	*ENG	[0 to 80 / 22 / 1 µA]		
001	Adjusts the current for the imag	je transfer l	oelt for Black in full color mode for plain paper.		
002	ITB unit: Plain: M	*ENG	[0 to 80 / 25 / 1 µA]		
002	Adjusts the current for the imag	e transfer b	elt for Magenta in full color mode for plain paper.		
003	ITB unit: Plain: C	*ENG	[0 to 80 / 22 / 1 µA]		
003	Adjusts the current for the imag	je transfer l	pelt for Cyan in full color mode for plain paper.		
004	ITB unit: Plain: Y	*ENG	[0 to 80 / 28 / 1 µA]		
004	Adjusts the current for the image transfer belt for Yellow in full color mode for plain paper.				
005	ITB unit: Thick 1: Bk	*ENG	[0 to 80 / 11 / 1 µA]		
003	Adjusts the current for the image transfer belt for Black in full color mode for thick 1 paper.				
004	ITB unit: Thick 1: M	*ENG	[0 to 80 / 12 / 1 µA]		
006	Adjusts the current for the image transfer belt for Magenta in full color mode for thick 1 paper.				
007	ITB unit: Thick 1: C	*ENG	[0 to 80 / 11 / 1 µA]		
007	Adjusts the current for the image transfer belt for Cyan in full color mode for thick 1 paper.				
008	ITB unit: Thick 1: Y	*ENG	[0 to 80 / 14 / 1 µA]		
008	Adjusts the current for the image transfer belt for Yellow in full color mode for thick 1 paper.				

009	ITB unit: Thick 2 & FINE: Bk	*ENG	[0 to 80 / 1	1 / 1 µA]		
009	Adjusts the current for the image transfer belt for Black in full color mode for Thick 2 and fine.					
	ITB unit: Thick 2 & FINE: M		*ENG	[0 to 80 / 12 / 1 µA]		
010	Adjusts the current for the image transfer belt for Magenta in full color mode for Thick 2 and fine.					
011	ITB unit: Thick 2 & FINE: C		*ENG	[0 to 80 / 11 / 1 µA]		
011	Adjusts the current for the image transfer belt for Cyan in full color mode for Thick 2 and fine.					
	ITB unit: Thick 2 & FINE: Y		*ENG	[0 to 80 / 14 / 1 µA]		
012	Adjusts the current for the image transfer belt for Yellow in full color mode for Thick 2 and fine.					

2360	[Common: BW Environment Correction]			
001	ITB unit: Plain	*ENG		
002	ITB unit: Thick 1	*ENG	[1 to 60 / 1 / 1 /step]	
003	ITB unit: Thick 2	*ENG		
004	ITB unit: Plain: Bk	*ENG	[1 to 60 / 13/ 1 /step]	
005	ITB unit: Plain: M	*ENG		
006	ITB unit: Plain: C	*ENG	[1 to 60 / 2 / 1 /step]	
007	ITB unit: Plain: Y	*ENG		
008	ITB unit: Thick 1: Bk	*ENG	[1 to 60 / 31 / 1 /step]	
009	ITB unit: Thick 1: M	*ENG		
010	ITB unit: Thick 1: C	*ENG	[1 to 60 / 2 / 1 /step]	
011	ITB unit: Thick 1: Y	*ENG		
012	ITB unit: Thick 2: Bk	*ENG	[1 to 60 / 31 / 1 /step]	
013	ITB unit: Thick 2: M	*ENG	[1 to 60 / 2 / 1 /step]	
014	ITB unit: Thick 2: C	*ENG	[1 to 60 / 1 / 1 /step]	
015	ITB unit: Thick 2: Y	*ENG	[1 to 60 / 2 / 1 /step]	

[Plain: Bias]					
2401	Adjusts the DC voltage of the discharge plate for plain paper. Plain: High speed, Thick 1: Middle speed, Thick 2&Fine: Low speed				
001	Separation DC: Plain: 1st Side	*ENG	[0 to 4000 / 0 / 10 –V/step]		
002	Separation DC: Plain: 2nd Side	*ENG	[0 to 4000 / 0 / 10 –V/step]		
003	Separation DC: 1200: 1st Page	*ENG	[0 to 4000 / 0 / 10 –V/step]		
004	Separation DC: 1200: 2nd side	*ENG	[0 to 4000 / 0 / 10 –V/step]		

	[Plain: Bias: BW]			
Adjusts the current for the paper transfer roller for plain paper in black-and-w Plain: High speed, Thick 1: Middle speed, Thick 2&Fine: Low speed				
001	Paper Transfer: Plain: 1st Side	*ENG		
002	Paper Transfer: Plain: 2nd Side	*ENG	[0 to 250 / 22 / 1 – µA /step]	
003	Paper Transfer: 1200: 1st Side	*ENG	[0 to 250 / 7 / 1 – µA /step]	
004	Paper Transfer: 1200: 2nd side	*ENG	[0 to 250 / 12 / 1 – µA /step]	

	[Plain: Bias: FC]			
2407	Adjusts the current for the paper transfer roller for plain paper in full color mode. Plain: High speed, Thick 1: Middle speed, Thick 2&Fine: Low speed			
001	Paper Transfer: Plain: 1 st Side	*ENG	[0 to 250 / 27 / 1 – µA /step]	
002	Paper Transfer: Plain: 2nd Side	*ENG	[0 to 250 / 33 / 1 – µA /step]	
003	Paper Transfer: 1200: 1st Side	*ENG	[0 to 250 / 10 / 1 – µA /step]	
004	Paper Transfer: 1200: 2nd side	*ENG	[0 to 250 / 12 / 1 – µA /step]	

	[Plain: Paper Size Correction]				
2411	Adjusts the size correction coefficient for the paper transfer roller current for each paper size SP2403 and SP2407 are multiplied by these SP values.				
	Plain: High speed, Thick 1: Mic	ddle speed, Thick 2&Fine: Low speed			
001	Paper Transfer: Plain : 1st Side: S1	*ENG			
002	Paper Transfer: Plain: 2nd Side: S1	*ENG	[100 to 600 / 100 / 5%/step]		
003	Separation DC: 1200: 1st Side	*ENG	S1 size > 297 mm (Paper width)		
004	Separation DC: 1200: 2nd Side	*ENG			
005	Paper Transfer: Plain: 1 st Side: S2	*ENG	[100 to 600 / 105 / 5%/step] 297 mm > S2 size > 275 mm (Paper width)		
006	Paper Transfer: Plain: 2nd Side: S2	*ENG	[100 to 600 / 120 / 5%/step] 297 mm > S2 size > 275 mm (Paper width)		
007	Paper Transfer: 1200: 1st Side: S2	*ENG	[100 to 600 / 120 / 5%/step] 297 mm > S2 size > 275 mm (Paper width)		
008	Paper Transfer: 1200: 2nd Side: S2	*ENG	[100 to 600 / 150 / 5%/step]		
009	Paper Transfer: Plain: 1 st Side: S3	*ENG	[100 to 600 / 110 / 5%/step] 275 mm > S3 size > 210 mm (Paper width)		
010	Paper Transfer: Plain: 2nd Side: S3	*ENG	[100 to 600 / 140 / 5%/step]		
011	Paper Transfer: 1200: 1st Side: S3	*ENG	275 mm > S3 size > 210 mm (Paper width)		
012	Paper Transfer: 1200: 2nd Side: S3	*ENG	[100 to 600 / 300 / 5%/step]		
013	Paper Transfer: Plain: 1 st Side: S4	*ENG	[100 to 600 / 115 / 5%/step] 210 mm > S4 size > 148 mm (Paper width)		

014	Paper Transfer: Plain: 2nd Side: S4	*ENG	[100 to 600 / 160 / 5%/step] 210 mm > S4 size > 148 mm (Paper width)
015	Paper Transfer: 1200: 1st Side: S4	*ENG	[100 to 600 / 240 / 5%/step] 210 mm > S4 size > 148 mm (Paper width)
016	Paper Transfer: 1200: 2nd Side: S4	*ENG	[100 to 600 / 340 / 5%/step]
017	Paper Transfer: Plain: 1 st Side: S5	*ENG	[100 to 600 / 120 / 5%/step] 148 mm > S5 size (Paper width)
018	Paper Transfer: Plain: 2nd Side: S5	*ENG	[100 to 600 / 180 / 5%/step] 148 mm > S5 size (Paper width)
019	Paper Transfer: 1200: 1st Side: S5	*ENG	[100 to 600 / 300 / 5%/step] 148 mm > S5 size (Paper width)
020	Paper Transfer: 1200: 2nd Side: S5	*ENG	[100 to 600 / 400 / 5%/step]

	[Plain: Leading Edge Correction] Plain Paper: Leading Edge Correction			
2421	Adjusts the correction to the paper transfer roller current at the paper leading edge in each mode. SP2403 and SP2407 are multiplied by these SP values.			
	U Note			
	 The paper leading edge area can be adjusted with SP2422. 			
001	Paper Transfer: Plain: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]	
002	Paper Transfer: Plain: 2nd Side	*ENG	[0 to 400 / 100 / 5%/step]	
003	Paper Transfer: 1200: 1st Side	*ENG	[0 +- 400 / 100 / 59/ /]	
004	Paper Transfer: 1200: 2nd side	*ENG	[0 to 400 / 100 / 5%/step]	

2421	mode. SP2401 is multiplied Note			
00	Separation DC: Plain: 1st Side	*ENG		
00	Separation DC: Plain: 2nd Side	*ENG	[0.4-400/100/59//-4]	
00	Separation DC: 1200: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]	
00	Separation DC: 1200: 2nd Side	*ENG		

	[Plain: Switch Timing: Lead. Edge]			
2422	Adjusts the bias/voltage switch timing of the paper transfer roller/discharge plate at the paper leading edge between the erase margin area and the image area.			
	Plain: High speed, Thick 1: Middle speed, Thick 2&Fine: Low speed			
001	Paper Transfer: Plain: 1st Side	*ENG		
002	Paper Transfer: Plain: 2nd Side	*ENG		
003	Paper Transfer: 1200: 1st Side	*ENG		
004	Paper Transfer: 1200: 2nd side	*ENG	[0.50.40.42	
005	Separation DC: Plain: 1 st Side	*ENG	[0 to 50 / 0 / 2 mm/step]	
006	Separation DC: Plain: 2nd Side	*ENG		
007	Separation DC: 1200: 1st Side	*ENG		
008	Separation DC: 1200: 2nd Side	*ENG		

	[Plain: Trailing Edge Correction] Plain Paper: Trailing Edge Correction			
2423	Adjusts the correction coefficient to the paper transfer roller current for the paper trailing edge in each mode. SP2403 and SP2407 are multiplied by these SP values.			
	NoteThe paper trailing edge a	rea can be a	diusted with SP2424.	
001	Paper Transfer: Plain: 1st Side	*ENG		
002	Paper Transfer: Plain: 2nd Side	*ENG		
003	Paper Transfer: 1200: 1st Side	*ENG		
004	Paper Transfer: 1200: 2nd side	*ENG	[0 to 400 / 100 / 5%/step]	
005	Separation DC: Plain: 1 st Side	*ENG	[0 to 400 / 100 / 3%/ step]	
006	Separation DC: Plain: 2nd Side	*ENG		
007	Separation DC: 1200: 1st Side	*ENG		
008	Separation DC: 1200: 2nd Side	*ENG		

	[Plain: Switch Timing: Trail. Edge]
2424	Adjusts the bias/voltage switch timing of the paper transfer roller/discharge plate at the paper trailing edge between the erase margin area and the image area. Plain: High speed, Thick 1: Middle speed, Thick 2&Fine: Low speed

001	Paper Transfer: Plain: 1st Side	*ENG	
002	Paper Transfer: Plain: 2nd Side	*ENG	
003	Paper Transfer: 1200: 1st Side	*ENG	
004	Paper Transfer: 1200: 2nd side	*ENG	[0.1. 50 / 0 / 2 / 1]
005	Separation DC: Plain: 1st Side	*ENG	[0 to 50 / 0 / 2 mm/step]
006	Separation DC: Plain: 2nd Side	*ENG	
007	Separation DC: 1200: 1st Side	*ENG	
008	Separation DC: 1200: 2nd Side	*ENG	

	[Thin: Bias]			
2451	Adjusts the DC voltage of the discharge plate for thin paper. Plain: High speed, Thick 1: Middle speed, Thick 2&Fine: Low speed			
001	Separation DC: Plain: 1st Side	*ENG [0 to 4000 / 2000 / 10 -V/		
003	Separation DC: 1200: 1st Side	*ENG	step]	

	[Thin: Bias: BW]		
2453	Adjusts the current for the paper transfer roller for thin paper in black-and-white mode. Plain: High speed, Thick 1: Middle speed, Thick 2&Fine: Low speed		
001	Paper Transfer: Plain: 1st Side	*ENG	[0 to 250 / 22 / 1 – µA /step]
003	Paper Transfer: 1200: 1st Side	*ENG	[0 to 250 / 11 / 1 - µA /step]

	[Thin: Bias: FC]			
2457	Adjusts the current for the paper transfer roller for thin paper in full color mode. Plain: High speed, Thick 1: Middle speed, Thick 2&Fine: Low speed			
001	Paper Transfer: Plain: 1st Side	*ENG	[0 to 250 / 30 / 1 – µA /step]	
003	Paper Transfer: 1200: 1st Side	*ENG	[0 to 250 / 15 / 1 – µA /step]	

	[Thin: Paper Size Correction]		
Adjusts the size correction coefficient for the paper transfer roller current for each possible SP2453 and SP2457 are multiplied by these SP values.			
	Plain: High speed		
001	Paper Transfer: Plain: 1st Side: S1	*ENG	[100 to 600 / 100 / 5%/step] S1 size > 297 mm (Paper width)
005	Paper Transfer: Plain: 1st Side: S2	*ENG	[100 to 600 / 120 / 5%/step] 297 mm > S2 size > 275 mm (Paper width)
009	Paper Transfer: Plain: 1st Side: S3	*ENG	[100 to 600 / 140 / 5%/step] 297 mm > S2 size > 275 mm (Paper width)
013	Paper Transfer: Plain: 1st Side: S4	*ENG	[100 to 600 / 160 / 5%/step] 297 mm > S2 size > 275 mm (Pape r width)
017	Paper Transfer: Plain: 1st Side: S5	*ENG	[100 to 600 / 180 / 5%/step]

	[Thin: Leading Edge Correction] Thin Paper: Leading Edge Correction			
	Adjusts the correction to the paper transfer roller current at the paper leading edge in each mode. SP2453 and SP2457 are multiplied by these SP values.			
2471	Plain: High speed, 1200: Low speed			
	₩Note			
	The paper leading edge area can be adjusted with SP2472.			
001	Paper Transfer: Plain: 1st Side	*ENG	[0+-400 / 100 / 59 / +]	
003	Paper Transfer: 1200: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]	
2471	Adjusts the correction to the discharge plate current at the paper leading edge in each most SP2451 is multiplied by these SP values. ••• Note			
	The paper leading edge area can be adjusted with SP2472.			

005	Separation DC: Plain: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]	
007	Separation DC: 1200: 1st Side	*ENG	[0 10 400 / 100 / 3 %/ siep]	

	[Thin: Switch Timing: Lead. Edge]		
2472	Adjusts the bias/voltage switch timing of the paper transfer roller/discharge plate at the paper leading edge between the erase margin area and the image area. Plain: High speed, 1200: Low speed,		
001	Paper Transfer: Plain: 1st Side	*ENG	
003	Paper Transfer: 1200: 1st Side	*ENG	[0. 50 / 0 / 0 / 1
005	Separation DC: Plain: 1st Side	*ENG	[0 to 50 / 0 / 2 mm/step]
007	Separation DC: 1200: 1st Side	*ENG	

	[Thin: Trailing Edge Correction] Thin Paper: Trailing Edge Correction			
	Adjusts the correction coefficient to the paper transfer roller current for the paper trailing edge in each mode. SP2453 and SP2457 are multiplied by these SP values.			
2473 Plain: High speed, 1200: Low speed				
	The paper trailing edge area cal	n be adjustec	with SP2474.	
001	Paper Transfer: Plain: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]	
003	Paper Transfer: 1200: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]	
005	Separation DC: Plain: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]	
007	Separation DC: 1200: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]	

	[Thin: Switch Timing: Trail. Edge]		
2474	Adjusts the bias/voltage switch timing of the paper transfer roller/discharge plate at the paper trailing edge between the erase margin area and the image area. Plain: High speed, 1200: Low speed		
001	Paper Transfer: Plain: 1st Side	*ENG	[0.45 50 / 0 / 0 / 44]
003	Paper Transfer: 1200: 1st Side	*ENG	[0 to 50 / 0 / 2 mm/step]

005	Separation DC: Plain: 1st Side	*ENG	[0 to 50 / 0 / 1 mm/step]
007	Separation DC: 1200: 1st Side	*ENG	

[Thin: Environment Correction] Plain: High speed, 1200: Low speed			
001	Separation DC: Plain: 1st Side	*ENG	[1 to 60 / 26 / 1 /step]
003	Paper Transfer: Plain: BW: 1st Side	*ENG	[1 to 60 / 11 / 1 /step]
005	Paper Transfer: Plain: FC: 1st Side	*ENG	[1 to 60 / 1 / 1 /step]
007	Separation DC: 1200: 1st Side	*ENG	[1 to 60 / 26 / 1 /step]
009	Paper Transfer: 1200: BW: 1st Side	*ENG	[1 to 60 / 11 / 1 /step]
011	Paper Transfer: 1200: FC: 1st Side	*ENG	[1 to 60 / 1 / 1 /step]

2481	[Glossy: Bias]		
001	Separation DC: 1st Side	*ENG	[0 to 4000 / 2000 / 10 –V/step]
001	Adjusts the DC voltage of the discharge plate for glossy paper.		

2482	[Glossy: Bias: BW]		
001	Paper Transfer: 1st Side	*ENG	[0 to 250 / 12 / 1 - µA /step]
001	Adjusts the current for the paper transfer roller for glossy paper in black-and-white mode.		

2483 [Glossy: Bias: FC]			
001	Paper Transfer: 1st Side	*ENG	[0 to 250 / 15 / 1 - µA /step]
001	Adjusts the current for the paper transfer roller for glossy paper in full color mode.		

2484	[Glossy: Paper Size Correction]		
001	Paper Transfer: 1st Side: S1	*ENG	[100 to 600 / 100 / 5%/step]
005	Paper Transfer: 1st Side: S2	*ENG	[100 to 600 / 120 / 5%/step]
009	Paper Transfer: 1st Side: S3	*ENG	[100 to 600 / 140 / 5%/step]

013	Paper Transfer: 1st Side: S4	*ENG	[100 to 600 / 160 / 5%/step]		
017	Paper Transfer: 1st Side: S5	*ENG	[100 to 600 / 180 / 5%/step]		
2485	[Glossy: Leading Edge Correction]				
001	Paper Transfer: 1st Side	*ENG	[10 to 400 / 100 / 5%/step]		
005	Separation DC: 1st Side	*ENG	[10 to 400 / 100 / 5%/step]]		
2486					
2400	[Glossy: Switch Timing: Lead. Edge]		1		
001	Paper Transfer: 1st Side	*ENG	[0 to 50 / 0 / 2 mm/step]		
005	Separation DC: 1st Side	*ENG	[, -,,]		
2487 [Glossy: Trailing Edge Correction]		T			
001	Paper Transfer: 1st Side	*ENG	0 to 400 / 100 / 5 %/step]		
005	Separation DC: 1st Side	*ENG	[2.12.12.7, 1.00, 1.17, 1.17]		
2488 [Glossy: Switch Trail. Edge]					
001	Paper Transfer: 1st Side	*ENG			
005	Separation DC: 1st Side	*ENG	[0 to 50 / 0 / 2 mm/step]		
2489	[Glossy: Environment Correction]				
001	Separation DC: 1st Side	*ENG	[1 to 60 / 26 / 1 /step]		
003	Paper Transfer: BW: 1st Side	*ENG	[1 to 60 / 11 / 1 /step]		
005	Paper Transfer: FC: 2nd Side	*ENG	[1 to 60 / 1 / 1 /step]		
	[Thick 1: Bias]				
2501	Adjusts the DC voltage of the discharge plate for thick 1 paper.				
	Plain: High speed, 1200: Low speed				

001	Separation DC: Plain: 1st Side	*ENG	
002	Separation DC: Plain: 2nd Side	*ENG	[0 to 4000 / 1000 / 10 -V/step]
003	Separation DC: 1200: 1st Side	*ENG	

	[Thick 1: Bias: BW]				
2502	Adjusts the current for the paper transfer roller for thick 1 paper in black-and-white mode. Plain: High speed, 1200: Low speed				
001	Paper Transfer: Plain: 1st Side	*ENG	[0.4- 250 / 24 / 1 114 / 4-1-1		
002	Paper Transfer: Plain: 2nd Side	*ENG	[0 to 250 / 24 / 1 – µA /step]		
003	Separation DC: 1200: 1st Side	*ENG	[0 to 250 / 12 / 1 - µA / step]		

	[Thick 1: Bias: FC]			
Adjusts the current for the paper transfer roller for thick 1 paper in full color mode. Plain: High speed, 1200: Low speed				
001	Paper Transfer: Plain: 1st Side	*ENG	[0.4- 0.50 / 20 / 1 114 / 4]	
002	Paper Transfer: Plain: 2nd Side	*ENG	[0 to 250 / 30 / 1 – µA /step]	
003	Separation DC: 1200: 1st Side	*ENG	[0 to 250 / 15 / 1 – µA /step]	

	[Thick 1: Paper Size Correction] Adjusts the size correction coefficient for the paper transfer roller current for each paper size. SP2502 and SP2507 are multiplied by these SP values. Plain: High speed, 1200: Low speed				
2511					
001	Paper Transfer: Plain: 1st Side: S1	*ENG	[100 to 600 / 100 / 5%/step]		
002	Paper Transfer: Plain: 2nd Side: S1	*ENG	S1 size > 297 mm (Paper width)		
003	Paper Transfer: 1200: 1st Side: S1	*ENG	[100 to 600 / 100 / 5%/step] S1 size > 297 mm (Paper width)		
005	Paper Transfer: Plain: 1st Side: S2	*ENG	[100 to 600 / 105 / 5%/step] 297 mm > S2 size > 275 mm (Paper width)		

006	Paper Transfer: Plain: 2nd Side: S2	*ENG	[100 to 600 / 130 / 5%/step] 297 mm > S2 size > 275 mm (Paper width)
007	Paper Transfer: 1200: 1st Side: S2	*ENG	[100 to 600 / 120 / 5%/step] 297 mm > S2 size > 275 mm (Paper width)
009	Paper Transfer: Plain: 1st Side: S3	*ENG	[100 to 600 / 110 / 5%/step] 275 mm > S3 size > 210 mm (Paper width)
010	Paper Transfer: Plain: 2nd Side: S3	*ENG	[100 to 600 / 160 / 5%/step] 275 mm > S3 size > 210 mm (Paper width)
011	Paper Transfer: 1200: 1st Side: S3	*ENG	[100 to 600 / 140 / 5%/step] 275 mm > S3 size > 210 mm (Paper width)
013	Paper Transfer: Plain 1: 1st Side: S4	*ENG	[100 to 600 / 115 / 5%/step] 210 mm > S4 size > 148 mm (Paper width)
014	Paper Transfer: Plain: 2nd Side: S4	*ENG	[100 to 600 / 190 / 5%/step] 210 mm > S4 size > 148 mm (Paper width)
015	Paper Transfer: 1200: 1st Side: S4	*ENG	[100 to 600 / 160 / 5%/step] 210 mm > S4 size > 148 mm (Paper width)
017	Paper Transfer: Plain 1: 1st Side: S5	*ENG	[100 to 600 / 120 / 5%/step] 148 mm > S5 size (Paper width)
018	Paper Transfer: Plain: 2nd Side: S5	*ENG	[100 to 600 / 220 / 5%/step] 148 mm > S5 size (Paper width)
019	Paper Transfer: 1200: 1st Side: S5	*ENG	[100 to 600 / 180 / 5%/step] 148 mm > S5 size (Paper width)

	[Thick 1: Leading Edge Correction] Thick 1 Paper: Leading Edge Correction				
0.501	Adjusts the correction to the paper transfer roller current at the paper leading edge in each mode. SP2502 and SP2507 are multiplied by these SP values.				
2521	Thick 1: Middle speed, 1200: Low sp	peed			
	Note				
	The paper leading edge area can be adjusted with SP2522.				
001	Paper Transfer: Plain: 1st Side	*ENG	[0.4- 400 / 100 / 59 / 44]		
002	Paper Transfer: Plain: 2nd Side	*ENG	[0 to 400 / 100 / 5%/step]		
003	Paper Transfer: 1200: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]		
005	Separation DC: Plain: 1st Side	*ENG	[0. 400 / 100 / 50/ / .]		
006	Separation DC: Plain: 2nd Side	*ENG	[0 to 400 / 100 / 5%/step]		
007	Separation DC: 1200: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]		

	[Thick 1: Switch Timing: Lead. Edge]				
2522	Adjusts the bias/voltage switch timing of the paper transfer roller/discharge plate at the paper leading edge between the erase margin area and the image area.				
	Thick 1: Middle speed, 1200: Low speed				
001	Paper Transfer: Plain 1: 1st Side	*ENG			
002	Paper Transfer: Plain: 2nd Side	*ENG	[0 to 50 / 0 / 2 mm/step]		
003	Paper Transfer: 1200: 1st Side	*ENG			
005	Separation DC: Plain 1: 1st Side	*ENG			
006	Separation DC: Plain 1: 2nd Side	*ENG	[0 to 50 / 0 / 2 mm/step]		
007	Separation DC: 1200: 1st Side	*ENG			

	i .			
	[Thick 1: Trailing Edge Correction] Thick 1 Paper: Trailing Edge Correction			
0.500	Adjusts the correction coefficient to the paper transfer roller current for the paper trailing edge in each mode. SP2502 and SP2507 are multiplied by these SP values.			
2523	Thick 1: Middle speed, 1200: Low sp	peed		
	Note			
The paper trailing edge area can be adjusted with SP2524.				
001	Paper Transfer: Plain: 1st Side	*ENG		
002	Paper Transfer: Plain: 2nd Side	*ENG	[0+, 400 / 100 / 59/ / 4-, 1]	
003	Paper Transfer: 1200: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]	
005	Paper Transfer: Plain: 1st Side	*ENG		
006	Paper Transfer: Plain: 2nd Side	*ENG	[0+, 400 / 100 / 59/ /+]	
007	Paper Transfer: 1200: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]	

	[Thick 1: Switch Timing: Trail. Edge]				
2524	Adjusts the bias/voltage switch timing of the paper transfer roller/discharge plate at the paper trailing edge between the erase margin area and the image area.				
	Plain: High speed, 1200: Low speed				
001	Paper Transfer: Plain: 1st Side	*ENG	G		
002	Paper Transfer: Plain: 2nd Side	*ENG			
003	Paper Transfer: 1200: 1st Side	*ENG	[0.4, 50 / 0 / 1 / 4]		
005	Paper Transfer: Plain: 1st Side	*ENG	[0 to 50 / 0 / 1 mm/step]		
006	Paper Transfer: Plain: 2nd Side	*ENG			
007	Paper Transfer: 1200: 1st Side	*ENG			

2530	[Thick 1: Environment Correction]			
2530	Plain: High speed, 1200: Low speed			
001	Separation DC: Plain: 1st Side	*ENG	[] to 40 / 22 / 1 /ston]	
002	Separation DC: Plain: 2nd Side	*ENG	[1 to 60 / 22 / 1 /step]	

003	Paper Transfer: Plain: BW: 1st Side	*ENG	[] to 40 / 11 / 1 /stan]
004	Paper Transfer: Plain: BW:2nd Side	*ENG	[1 to 60 / 11 / 1 /step]
005	Paper Transfer: Plain: FC: 1st Side	*ENG	[1 to 60 / 1 / 1 / step]
006	Paper Transfer: Plain: FC:2nd Side	*ENG	[1 to 60 / 11 / 1 /step]
007	Separation DC: 1200: 1st Side	*ENG	[1 to 60 / 22 / 1 /step]
009	Paper Transfer: 1200: BW: 1st Side	*ENG	[1 to 60 / 11 / 1 /step]
011	Paper Transfer: 1200: FC: 1st Side	*ENG	[1 to 60 / 1 / 1 /step]

2551	[Thick 2: Bias]			
2551	Adjusts the DC voltage of the discharge plate for thick 2 paper.			
001	Separation DC: 1st Side	*ENG	[0 4000 / 0 / 10 W/]	
002	Separation DC: 2nd Side	*ENG	[0 to 4000 / 0 / 10 –V/step]	

2553	[Thick 2: Bias: BW]			
2333	Adjusts the current for the paper transfer roller for thick 2 paper in black-and-white mo			
001	Paper Transfer: 1st Side	*ENG	[0 to 250 / 7 / 1 – µA /step]	
002	Paper Transfer: 2nd Side	*ENG	[0 to 250 / 12 / 1 – µA /step]	

2558	[Thick 2: Bias: FC]			
2330	for thick 2 paper in full color mode.			
001	Paper Transfer: 1st Side	*ENG	[0 to 250 / 16 / 1 – µA /step]	
002	Paper Transfer: 2nd Side	*ENG	[0 to 250 / 15 / 1 – µA /step]	

	[Thick 2: Paper Size Correction]			
2561	Adjusts the size correction coefficient for the paper transfer roller current for each paper size. SP2553 and SP2558 are multiplied by these SP values.			
001	Paper Transfer: 1st Side: S1	*ENG	[100 to 600 / 100 / 5%/step]	
002	Paper Transfer: 2nd Side: S1	*ENG	S1 size > 297 mm (Paper width)	

003	Paper Transfer: 1st Side: S2	*ENG	[100 to 600 / 105 / 5%/step] 297 mm > S2 size > 275 mm (Paper width)
004	Paper Transfer: 2nd Side: S2	*ENG	[100 to 600 / 160 / 5%/step] 297 mm > S2 size > 275 mm (Paper width)
005	Paper Transfer: 1st Side: S3	*ENG	[100 to 600 / 110 / 5%/step] 275 mm > S3 size > 210 mm (Paper width)
006	Paper Transfer: 2nd Side: S3	*ENG	[100 to 600 / 260 / 5%/step] 275 mm > S3 size > 210 mm (Paper width)
007	Paper Transfer: 1st Side: S4	*ENG	[100 to 600 / 120 / 5%/step] 210 mm > S4 size > 148 mm (Paper width)
008	Paper Transfer: 2nd Side: S4	*ENG	[100 to 600 / 430 / 5%/step] 210 mm > S4 size > 148 mm (Paper width)
009	Paper Transfer: 1st Side: S5	*ENG	[100 to 600 / 140 / 5%/step] 148 mm > S5 size (Paper width)
010	Paper Transfer: 2nd Side: S5	*ENG	[100 to 600 / 600 / 5%/step] 148 mm > S5 size (Paper width)
	5		

	[Thick 2: Leading Edge Correction] Thick 2 Paper: Leading Edge Correction			
2571	Adjusts the correction to the paper transfer roller current at the paper leading edge in each mode. SP2553 and SP2558 are multiplied by these SP values.			
Note				
	The paper leading edge area can be adjusted with SP2572.			
001	Paper Transfer: 1st Side	*ENG	[0+-400/100/59/-+]	
002	Paper Transfer: 2nd Side	*ENG	[0 to 400 / 100 / 5%/step]	

2571	Adjusts the correction to the discharge SP2551 is multiplied by these SP volume. • The paper leading edge area	alues.	int at the paper leading edge in each mode.
003	Separation DC: 1st Side	*ENG	
004	Separation DC: 2nd Side	*ENG	[0 to 400 / 100 / 5%/step]

	[Thick 2: Switch Timing: Lead. Edge]			
2572	per transfer roller/ discharge plate at the area and the image area.			
001	Paper Transfer: 1st Side	*ENG		
002	Paper Transfer: 2nd Side	*ENG	[0.50 / 0 / 2 / 5]	
003	Separation DC: 1st Side	*ENG	[0 to 50 / 0 / 2mm/step]	
004	Separation DC: 2nd Side	*ENG		

	[Thick 2: Trailing Edge Correction] Thick 2 Paper: Trailing Edge Correction			
2573	Adjusts the correction to the paper transfer roller current for the paper trailing edge in each mode. SP2553 and SP2558 are multiplied by these SP values.			
Note				
	The paper trailing edge area can be adjusted with SP2574.			
001	Paper Transfer: 1st Side	*ENG	[0.4-400/100/59//44]	
002	Paper Transfer: 2nd Side	*ENG	[0 to 400 / 100 / 5%/step]	
003	Separation DC: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]	
004	Separation DC: 2nd Side	*ENG	[0 to 400 / 100 / 5%/step]	

		[Thick 2: Switch Trailing Edge Correction]	
	2574	Adjusts the bias/voltage switch timing of the paper transfer roller/discharge plate at the paper trailing edge between the erase margin area and the image area.	

001	Paper Transfer: 1st Side	*ENG	
002	Paper Transfer: 2nd Side	*ENG	[0.45.50.70.70
003	Separation DC: 1st Side	*ENG	[0 to 50 / 0 / 2 mm/step]
004	Separation DC: 2nd Side	*ENG	

2580	[Thick 2 Environment Correction]		
001	Separation DC: 1st Side	*ENG	[] to 40 / 22 / 1 /stow]
002	Separation DC: 2nd Side	*ENG	[1 to 60 / 22 / 1 /step]
003	Paper Transfer: BW: 1st Side	*ENG	[0.4-40/11/1/4]
004	Paper Transfer: BW: 2nd Side	*ENG	[0 to 60 / 11 / 1 /step]
005	Paper Transfer: FC: 1st Side	*ENG	[1 to 60 / 53 / 1 /step]
006	Paper Transfer: FC: 2nd Side	*ENG	[1 to 60 / 11 / 1 /step]

2601	[OHP: Bias]				
2001	Adjusts the DC voltage of the discharge plate for OHP.				
001	Separation DC	*ENG	[0 to 4000 / 0 / 10 –V/step]		

2603)	[OHP: Bias: BW]				
2003	,	Adjusts the current for the paper transfer roller for OHP in black-and-white mode.				
C	001	1 Paper Transfer *ENG [0 to 250 / 12 / 1 –μA /step]				

24	2608	[OHP: Bias: FC]				
		Adjusts the current for the paper transfer roller for OHP in full color mode.				
	001	Paper Transfer	*ENG	[0 to 250 / 15 / 1 – µA /step]		

	[OHP: Paper Size Correction]
2611	Adjusts the size correction coefficient for the paper transfer roller current for each paper size. SP2603 and SP2608 are multiplied by these SP values.

001	Paper Transfer: S1	*ENG	[100 to 600 / 100 / 5%/step] S1 size > 297 mm (Paper width)
002	Paper Transfer: S2	*ENG	[100 to 600 / 140 / 5%/step] 297 mm > S2 size > 275 mm (Paper width)
003	Paper Transfer: S3	*ENG	[100 to 600 / 200 / 5%/step] 275 mm > S3 size > 210 mm (Paper width)
004	Paper Transfer: S4	*ENG	[100 to 600 / 260 / 5%/step] 210 mm > S4 size > 148 mm (Paper width)
005	Paper Transfer: S5	*ENG	[100 to 600 / 330 / 5%/step] 148 mm > \$5 size (Paper width)

	[OHP: Leadin Edge Correction] OHP: Leading Edge Correction					
2621	Adjusts the correction to the paper transfer roller current at the paper leading edge in each mode. SP2603 and SP2608 are multiplied by these SP values.					
	₩Note					
	The paper leading edge area can be adjusted with SP2622.					
001	Paper Transfer *ENG [0 to 400 / 100 / 5%/step]					
	Adjusts the correction to the discharge plate current at the paper leading edge in each mode. SP2601 is multiplied by these SP values.					
2621	◆ Note					
	The paper leading edge area can be adjusted with SP2622.					
002	Separation DC					

	[OHP: Switch Timing: Leadn. Edge]				
2622	Adjusts the bias/voltage switch timing of the paper transfer roller/discharge plate at the paper leading edge between the erase margin area and the image area.				
001	Paper Transfer	*ENG			
002	Separation DC	*ENG	[0 to 50 / 0 / 2 mm/step]		

	[OHP: Trailing Edge Correction] OHP: Trailing Edge Correction				
2623	Adjusts the correction to the paper transfer roller current for the paper trailing edge in each mode. SP2603 and SP2608 are multiplied by these SP values. ••• Note				
	The paper trailing edge area can be adjusted with SP2624.				
001	Paper Transfer	*ENG	[0 to 400 / 100 / 5%/step]		
002	Separation DC	*ENG	[0 10 400 / 100 / 3 %/ siep]		

		[OHP: Trailing Edge Correction]					
	2624	Adjusts the bias/voltage switch timing of the paper transfer roller/discharge plate at the paper trailing edge between the erase margin area and the image area.					
	001	Paper Transfer *ENG [-100 to 0 / 0 / 1 mm/step]					
002 Separation DC *ENG [0 to 50 / 0 / 2 mm/step				[0 to 50 / 0 / 2 mm/step]			

2630	[OHP: Environment Correction]					
001	Separation DC *ENG		[1 to 60 / 22 / 1 /step]			
002	Paper Transfer: BW	*ENG	[1 to 60 / 11 / 1 /step]			
003	Paper Transfer: FC	*ENG	[1 to 60 / 1 / 1 /step]			

2650	[Thick3: Bias]					
2030		Adjusts the DC voltage of the discharge plate for thick paper 3.				
	001	Separation DC: 1st Side	*ENG	[0. 4000 / 1000 / 10 10/]		
	002	Separation DC: 2nd Side	*ENG	[0 to 4000 / 1000 / 10 –V/step]		

2651	[Thick3: Bias: BW]					
2031	Adjusts the current for the paper transfer roller for thick paper 3 in black-and-white mode.					
001	001 Paper Transfer: 1st Side *ENG [0 to 250 / 10 / 1 –μA /ste					
002	Paper Transfer: 2nd Side	*ENG	[0 to 250 / 12 / 1 – µA /step]			

2452	[Thick3: Bias: FC]							
2652	Adjusts the current for the paper transfer roller for thick paper 3 in full color mode.							
001	Paper Transfer: 1st Side	*ENG	[0 to 250 / 11 / 1 - µA /step]					
002	Paper Transfer: 2nd Side	*ENG	[0 to 250 / 15 / 1 – µA /step]					
	[Thick3: Paper Size Correction]							
2653	Adjusts the size correction coefficient for size. SP2651 and SP2652 are multiple							
001	Paper Transfer: 1st Side: S1	*ENG	[100 to 600 / 100 / 5%/step] S1 size > 297 mm (Paper width)					
002	Paper Transfer: 1st Side: S2	*ENG	[100 to 600 / 100 / 5%/step] 297 mm > S2 size > 275 mm (Paper width)					
003	Paper Transfer: 1st Side: S3	*ENG	[100 to 600 / 100 / 5%/step] 275 mm > S3 size > 210 mm (Paper width)					
004	Paper Transfer: 1st Side: S4	*ENG	[100 to 600 / 160 / 5%/step] 210 mm > S4 size > 148 mm (Paper width)					
005	Paper Transfer: 1st Side: S5	*ENG	[100 to 600 / 100 / 5%/step] 148 mm > S5 size (Paper width)					
006	Paper Transfer: 2nd Side: S1	*ENG	[100 to 600 / 260 / 5%/step] S1 size > 297 mm (Paper width)					
007	Paper Transfer: 2nd Side: S2	*ENG	[100 to 600 / 100 / 5%/step] 297 mm > S2 size > 275 mm (Paper width)					
008	Paper Transfer: 2nd Side: S3	*ENG	[100 to 600 / 430 / 5%/step] 275 mm > S3 size > 210 mm (Paper width)					

009	Paper Transfer: 2nd Side: S4	*ENG	[100 to 600 / 100 / 5%/step] 210 mm > S4 size > 148 mm (Paper width)
010	Paper Transfer: 2nd Side: S3	*ENG	[100 to 600 / 600 / 5%/step] 148 mm > S5 size (Paper width)

	[Thick 3: Leading Edge Correction] Thick 3 Paper: Leading Edge Correction			
2654	Adjusts the correction to the paper transfer roller current at the paper leading edge in each mode. SP2651 and SP2652 are multiplied by these SP values.			
	↓ Note			
	The paper leading edge area can be	e adjusted wi	th SP2655.	
001	Paper Transfer: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]	
002	Separation DC: 1st Side	*ENG	[0 10 400 / 100 / 3 % / siep]	
2654	Adjusts the correction to the discharge plate current at the paper leading edge in each mod SP2650 is multiplied by these SP values. • The paper leading edge area can be adjusted with SP2655.			
	111 01 2000.			
003	Paper Transfer: 2nd Side	*ENG	[0 to 400 / 100 / 5%/step]	
004	Separation DC: 2nd Side	*ENG	[5 15 455 / 100 / 5 /5/ 516]	

	2655	[Thick 3: Switch Timing: Lead. Edge]		
		Adjusts the bias/voltage switch timing of the paper transfer roller/discharge plate at the paper leading edge between the erase margin area and the image area.		
	001	Paper Transfer: 1st Side	*ENG	
	002	Separation DC: 1st Side	*ENG	[0 to 50 / 0 / 2 mm /stan]
	003	Paper Transfer: 2nd Side	*ENG	[0 to 50 / 0 / 2 mm/step]
	004	Separation DC: 2nd Side	*ENG	

	[Thick 3: Trailing Edge Correction] Thick 3 Paper: Trailing Edge Correction				
2656	Adjusts the correction to the paper transfer roller current for the paper trailing edge in each mode. SP2651 and SP2652 are multiplied by these SP values.				
	UNote				
	The paper trailing edge area can be adjusted with SP2657.				
001	Paper Transfer: 1st Side	*ENG			
002	Paper Transfer: 2nd Side	*ENG	[0.4-400/100/59//]		
003	Separation DC: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]		
004	Separation DC: 2nd Side	*ENG			

	[Thick 3: Trailing Edge Correction]			
2657	Adjusts the bias/voltage switch timing of the paper transfer roller/discharge plate at the paper trailing edge between the erase margin area and the image area.			
001	Paper Transfer: 1st Side	*ENG		
002	Paper Transfer: 2nd Side	*ENG	[0.4-50./0./2/.4]	
003	Separation DC: 1st Side	*ENG	[0 to 50 / 0 / 2 mm/step]	
004	Separation DC: 2nd Side	*ENG		

	[Thick 3: Environment Correction] Thick 3 Paper: MM Environment Coefficient Adjustment				
2660	Adjusts the environment coefficient for each MM, SP2651 and SP2652 are multiplied				
001	Separation DC: 1st Side *ENG				
002	Separation DC: 2nd Side	*ENG		[1 to 60 / 22 / 1 /step]	
	Adjusts the environment coefficient for each mode. When the environment is dete MM, SP2650 is multiplied by these SP values.				
003	Paper Transfer: BW: 1st Side	*E1	NG	[] - 40 / 11 / 1 /]	
004	Paper Transfer: BW: 2nd Side	*E1	NG	[1 to 60 / 11 / 1 /step]	
005	Paper Transfer: FC: 1st Side	*EI	NG	[1 to 60 / 55 / 1 /step]	

006 Paper Transfer: FC: 2st Side	*ENG	[1 to 60 / 11 / 1 /step]	
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2470	[Thick4: Bias]		
2670	Adjusts the DC voltage of the discharge plate for thick paper 4.		
001	Separation DC: 1st Side	*ENG	[0 to 4000 / 0 / 10 –V/step]
002	Separation DC: 2nd Side	*ENG	[U to 4000 / U / 10 - V / step]

2671	[Thick4: Bias: BW]		
2071	Adjusts the current for the paper transfe	r roller for thic	ck paper 4 in black-and-white mode.
001	Paper Transfer: 1st Side	*ENG	[0 to 250 / 10 / 1 – µA /step]
002	Paper Transfer: 2nd Side	*ENG	[0 to 250 / 11 / 1 - µA /step]

2672	[Thick4: Bias: FC]		
2072	Adjusts the current for the paper transfer roller for thick paper 4 in full color mode.		
		[0 to 250 / 11 / 1 - µA /step]	
		*ENG	[0 to 250 / 15 / 1 – µA / step]

	[Thick4: Paper Size Correction]				
2673	Adjusts the size correction coefficient for the paper transfer roller current for each paper size. SP2671 and SP2672 are multiplied by these SP values.				
001	Paper Transfer: 1st Side: S1	*ENG	[100 to 600 / 100 / 5%/step] S1 size > 297 mm (Paper width)		
002	Paper Transfer: 1st Side: S2	*ENG	[100 to 600 / 100 / 5%/step] 297 mm > S2 size > 275 mm (Paper width)		
003	Paper Transfer: 1st Side: S3	*ENG	[100 to 600 / 100 / 5%/step] 275 mm > S3 size > 210 mm (Paper width)		

004	Paper Transfer: 1st Side: S4	*ENG	[100 to 600 / 160 / 5%/step] 210 mm > S4 size > 148 mm (Paper width)
005	Paper Transfer: 1st Side: S5	*ENG	[100 to 600 / 100 / 5%/step] 148 mm > S5 size (Paper width)
006	Paper Transfer: 2nd Side: S1	*ENG	[100 to 600 / 260 / 5%/step] S1 size > 297 mm (Paper width)
007	Paper Transfer: 2nd Side: S2	*ENG	[100 to 600 / 100 / 5%/step] 297 mm > S2 size > 275 mm (Paper width)
008	Paper Transfer: 2nd Side: S3	*ENG	[100 to 600 / 430 / 5%/step] 275 mm > S3 size > 210 mm (Paper width)
009	Paper Transfer: 2nd Side: S4	*ENG	[100 to 600 / 100 / 5%/step] 210 mm > S4 size > 148 mm (Paper width)
010	Paper Transfer: 2nd Side: S3	*ENG	[100 to 600 / 600 / 5%/step] 148 mm > S5 size (Paper width)

	[Thick 4: Leading Edge Correction] Thick 4 Paper: Leading Edge Correction		
Adjusts the correction to the paper transfer roller current at the paper mode. SP2671 and SP2672 are multiplied by these SP values.			
	 Note The paper leading edge area can be adjusted with SP2675. 		
001	Paper Transfer: 1st Side	*ENG	[0.1.400./100./59//]
002	Separation DC: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]
2674	Adjusts the correction to the discharge plate current at the paper leading edge in each mode. SP2670 is multiplied by these SP values. Note		
	The paper leading edge area can be	e adjusted wi	th SP2655.

003	Paper Transfer: 2nd Side	*ENG	[0 to 400 / 100 / 5%/step]
004	Separation DC: 2nd Side	*ENG	[0 10 400 / 100 / 3 % / siep]

Adjusts the bias/voltage switch timing of the paper transfer roller/discharge plants paper leading edge between the erase margin area and the image area.			
001	Paper Transfer: 1st Side	*ENG	
002	Separation DC: 1st Side	*ENG	[0.5.50 / 0./2 /]
003	Paper Transfer: 2nd Side	*ENG	[0 to 50 / 0 / 2 mm/step]
004	Separation DC: 2nd Side	*ENG	

[Thick 4: Trailing Edge Correction] Thick 4 Paper: Trailing Edge Correction			ng Edge Correction		
2676	Adjusts the correction to the paper transfer roller current for the paper trailing edge in each mode. SP2671 and SP2672 are multiplied by these SP values.				
	₩Note				
	The paper trailing edge area can be adjusted with SP2677.				
001	Paper Transfer: 1st Side	*ENG			
002	Paper Transfer: 2nd Side	*ENG	[0 to 400 / 100 / 5%/step]		
003	Separation DC: 1st Side	*ENG			
004	Separation DC: 2nd Side	*ENG			

	[Thick 4: Trailing Edge Correction]		
Adjusts the bias/voltage switch timing of the paper transfer roller/discharge plate paper trailing edge between the erase margin area and the image area.			
001	Paper Transfer: 1st Side	*ENG	
002	Paper Transfer: 2nd Side	*ENG	[0.45, 50, / 0. / 2 /-4]
003	Separation DC: 1st Side	*ENG	[0 to 50 / 0 / 2 mm/step]
004	Separation DC: 2nd Side	*ENG	

	[Thick 4: Environment Correction] Thick 4 Paper: MM Environment Coefficient Adjustment				
2680	Adjusts the environment coefficient for each mode. When the environment is detected as MM, SP2671 and SP2672 are multiplied by these SP values.				
001	Separation DC: 1st Side	*ENG			
002	Separation DC: 2nd Side	*	ENG	[1 to 60 / 22 / 1 /step]	
	Adjusts the environment coefficient for each mode. When the environment is detected as MM, SP2670 is multiplied by these SP values.				
003	Paper Transfer: BW: 1st Side		*ENG		
004	Paper Transfer: BW: 2nd Side:		*ENG	[1 to 60 / 11 / 1 / step]	
005	Paper Transfer: FC: 1st Side		*ENG	[1 to 60 / 55 / 1 /step]	
006	Paper Transfer: FC: 2st Side		*ENG	[1 to 60 / 11 / 1 /step]	

	[Special 1: Bias]		
Adjusts the DC voltage of the discharge plate for special paper 1. Plain: High speed, Thick 1: Middle speed			al paper 1.
001	Separation DC: Plain: 1st Side	*ENG	
002	Separation DC: Plain: 2nd Side	*ENG	[0 to 4000 / 0 / 10 –V/step
003	Paper Transfer: Thick 1: 1st Side	*ENG	

	[Special 1: Bias: BW]				
Adjusts the current for the paper transfer roller for special paper 1 in black-and-white me P Plain: High speed, Fine: Low speed					
001	Paper Transfer: Plain: 1st Side	*ENG	[0+-250/20/1 4/41		
002	Paper Transfer: Plain: 2nd Side	*ENG	[0 to 250 / 22 / 1 – µA /step]		
003	Paper Transfer: Plain: 1st Side	*ENG	[0 to 250 / 11 / 1 - µA /step]		

	[Special 1: Bias: FC]			
Adjusts the current for the paper transfer roller for special paper 1 in full color mode. Plain: High speed, Fine: Low speed				
001	Paper Transfer: Plain: 1st Side	*ENG	[0 to 250 / 30 / 1 - µA /step]	
002	Paper Transfer: Plain: 2nd Side	*ENG	[0 to 250 / 33 / 1 – µA /step]	
003	Paper Transfer: Plain: 1st Side	*ENG	[0 to 250 / 15 / 1 - µA /step]	

	[Special 1: Paper Size Correction]			
2761	Adjusts the size correction coefficient for the paper transfer roller current for each paper SP2753 and SP2757 are multiplied by these SP values.			
	Plain: High speed, Fine: Low speed			
001	Paper Transfer: Plain: 1st Side: S1	*ENG	[100 to 600 / 100 / 5%/step]	
002	Paper Transfer: Plain: 2nd Side: S1	*ENG	S1 size > 297 mm (Paper width)	
005	Paper Transfer: Plain: 1st Side: S2	*ENG	[100 to 600 / 120 / 5%/step]	
006	Paper Transfer: Plain: 2nd Side: S2	*ENG	297 mm > S2 size > 275 mm (Paper width)	
009	Paper Transfer: Plain: 1st Side: S3	*ENG	[100 to 600 / 140 / 5%/step]	
010	Paper Transfer: Plain: 2nd Side: S3	*ENG	275 mm > S3 size > 210 mm (Paper width)	
013	Paper Transfer: Plain: 1st Side: S4	*ENG	[100 to 600 / 160 / 5%/step] 210 mm > S4 size > 148 mm (Paper width)	
014	Paper Transfer: Plain: 2nd Side: S4	*ENG	[100 to 600 / 160 / 5%/step] 210 mm > S4 size > 148 mm (Paper width)	
017	Paper Transfer: Plain: 1st Side: S5	*ENG	[100 to 600 / 180 / 5%/step] 148 mm > S5 size (Paper width)	
018	Paper Transfer: Plain: 2nd Side: S5	*ENG	[100 to 600 / 180 / 5%/step] 148 mm > S5 size (Paper width)	

	[Special 1: Leading Edge Correction] Special 1 Paper: Leading Edge Correction				
	Adjusts the correction to the paper transfer roller current at the paper leading edge in each mode. SP2753 and SP2757 are multiplied by these SP values.				
2771	Plain: High speed, 1200: Low speed				
	Note				
The paper leading edge area can be adjusted with SP2772.					
001	Paper Transfer: Plain: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]		
002	Paper Transfer: Plain: 2nd Side	*ENG	[0 to 400 / 100 / 5%/step]		
003	Paper Transfer: 1200: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]		
2771	Adjusts the correction to the discharge plate current at the paper leading edge in each mode SP2751 is multiplied by these SP values. • The paper leading edge area can be adjusted with SP2772.				
005	Separation DC: Plain: 1st Side	*ENG	[0. 400 /100 / 59/ / .]		
006	Separation DC: Plain: 2nd Side	*ENG	[0 to 400 / 100 / 5%/step]		
007	Separation DC: 1200: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]		

	[Special 1: Switch Timing: Lead. Edge]				
Adjusts the bias/voltage switch timing of the paper transfer roller/discharge plate paper leading edge between the erase margin area and the image area.					
	Plain: High speed, 1200: Low speed				
001	Paper Transfer: Plain: 1st Side	*ENG	[0 to 50 / 0 / 2 mm /ston]		
002	Paper Transfer: Plain: 2nd Side	*ENG	[0 to 50 / 0 / 2 mm/step]		
003	Paper Transfer: 1200: 1st Side	*ENG	[0 to 50 / 0 / 1 mm/step]		
005	Separation DC: Plain: 1st Side	*ENG			
006	Separation DC: Plain: 2nd Side	*ENG	[0 to 50 / 0 / 2 mm/step]		
007	Separation DC: 1200: 1st Side	*ENG			

	[Special 1: Trailing Edge Correction] Special 1 Paper: Trailing Edge Correction				
0.770	Adjusts the correction to the paper transfer roller current for the paper trailing edge in each mode. SP2753 and SP2757 are multiplied by these SP values.				
2773	Plain: High speed, 1200: Low speed				
	Note				
The paper trailing edge area can be adjusted with SP2774.					
001	Paper Transfer: Plain: 1st Side	*ENG			
002	Paper Transfer: Plain: 2nd Side	*ENG			
003	Paper Transfer: 1200: 1st Side	*ENG	[0.4- 400 / 100 / 5% /]		
005	Separation DC: Plain: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]		
006	Separation DC: Plain: 2nd Side	*ENG			
007	Separation DC: 1200: 1st Side	*ENG			

	[Special 1: Switch Timing: Trail. Edge]				
2774	Adjusts the bias/voltage switch timing of the paper transfer roller/discharge plate at the paper trailing edge between the erase margin area and the image area. Plain: High speed, 1200: Low speed				
001	Paper Transfer: Plain: 1st Side	*ENG			
002	Paper Transfer: Plain: 2nd Side	*ENG			
003	Paper Transfer: 1200: 1st Side	*ENG	[0 to 50 / 0 / 2 mm/step]		
005	Separation DC: Plain: 1st Side	*ENG	[O IO 30 / O / 2 mm/srep]		
006	Separation DC: Plain: 2nd Side	*ENG			
007	Separation DC: 1200: 1st Side	*ENG			

2780	[Special 1: Environment Correction] Plain: High speed, 1200: Low speed			
001	Separation DC: Plain: 1st Side	*ENG	[1 to 60 / 26 / 1 /step]	
002	Separation DC: Plain: 2nd Side	*ENG	[1 to 60 / 32 / 1 /step]	

003	Paper Transfer: Plain: BW: 1st Side	*ENG	[1 to 60 / 11 / 1 /step]
004	Paper Transfer: Plain: BW:2nd Side	*ENG	[1 10 00 / 1 1 / 1 / siep]
005	Paper Transfer: Plain: FC: 1st Side	*ENG	[1 to 60 / 1 / 1 /step]
006	Paper Transfer: Plain: FC:2nd Side	*ENG	[1 to 60 / 14 / 1 /step]
007	Separation DC: 1200: 1st Side	*ENG	[1 to 60 / 26 / 1 /step]
009	Paper Transfer: 1200: BW: 1st Side	*ENG	[1 to 60 / 11 / 1 /step]
011	Paper Transfer: 1200: FC: 1st Side	*ENG	[1 to 60 / 1 / 1 /step]

	[Special2: Bias]			
2801	Adjusts the DC voltage of the discharge plate for special paper 2. Plain: High speed, 1200: Low speed			
001	Separation DC: Plain: 1st Side	*ENG		
002	Separation DC: Plain: 2nd Side	*ENG	[0 to 4000 / 0 / 10 –V/step]	
003	Separation DC: 1200: 1st Side	*ENG		

	[Special2: Bias: BW]			
2803	Adjusts the current for the paper transfer roller for special paper 2 in black-and-white mode. Plain: High speed, 1200: Low speed			
001	Paper Transfer: Plain: 1st Side	*ENG	[0+-250/22/1 4/41	
002	Paper Transfer: Plain: 2nd Side	*ENG	- [0 to 250 / 22 / 1 –μA /step]	
003	Separation DC: 1200: 1st Side	*ENG	[0 to 200 / 11 / 1 - µA /step]	

	[Special2: Bias: FC]			
2807	Adjusts the current for the paper transfer roller for special paper 2 in full color mode. Plain: High speed, Thick 2&Fine: Low speed			
001	Paper Transfer: Plain: 1st Side	*ENG	[0 to 250 / 30 / 1 – µA /step]	
002	Paper Transfer: Plain: 2nd Side	*ENG	[0 to 250 / 33 / 1 – µA / step]	
003	Separation DC: 1200: 1st Side	*ENG	[0 to 250 / 15 / 1 – µA / step]	

	[Special2: Paper Size Correction]						
2811		adjusts the size correction coefficient for the paper transfer roller current for each paper size. P2803 and SP2807 are multiplied by these SP values.					
001	Paper Transfer: Plain: 1st Side: S1	*ENG	[100 to 600 / 100 / 5%/step]				
002	Paper Transfer: Plain: 2nd Side: S1	*ENG	S1 size > 297 mm (Paper width)				
005	D T (DI: 1.6:1 60	*5.10	[100 to 600 / 120 / 5%/step]				
005	Paper Transfer: Plain: 1st Side: S2	*ENG	297 mm > S2 size > 275 mm (Paper width)				
			[100 to 600 / 120 / 5%/step]				
006	Paper Transfer: Plain: 2nd Side: S2	*ENG	297 mm > S2 size > 275 mm (Paper width)				
		4-1-1-	[100 to 600 / 140 / 5%/step]				
009	009 Paper Transfer: Plain: 1st Side: S3 *ENG	275 mm > S3 size > 210 mm (Paper width)					
			[100 to 600 / 140 / 5%/step]				
010	Paper Transfer: Plain: 2nd Side: S3	*ENG	275 mm > S3 size > 210 mm (Paper width)				
			[100 to 600 / 160 / 5%/step]				
013	Paper Transfer: Plain: 1st Side: S4	*ENG	210 mm > S4 size > 148 mm (Paper width)				
			[100 to 600 / 160 / 5%/step]				
014	Paper Transfer: Plain: 2nd Side: S4	*ENG	210 mm > S4 size > 148 mm (Paper width)				
017	Paper Transfer: Plain: 1st Side: S5	*ENG	[100 to 600 / 180 / 5%/step]				
			148 mm > S5 size (Paper width)				
018	Paper Transfer: Plain: 2nd Side: S5	*ENG	[100 to 600 / 180 / 5%/step]				
			148 mm > S5 size (Paper width)				

	[Special 2: Leading Edge Correction] Special 2 Paper: Leading Edge Correction			
	Adjusts the correction to the paper transfer roller current at the paper leading edge in each mode. SP2803 and SP2807 are multiplied by these SP values.			
2821	Plain: High speed, 1200: Low speed			
Note				
	The paper leading edge area can be a	ıdjusted wi	th SP2822.	
001	Paper Transfer: Plain: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]	
002	Paper Transfer: Plain: 2nd Side	*ENG	[0 to 400 / 100 / 5%/step]	
003	Paper Transfer: 1200: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]	
2821	Adjusts the correction to the discharge plate current at the paper leading edge in each mode. SP2801 is multiplied by these SP values. Note The paper leading edge area can be adjusted with SP2822.			
005	Separation DC: Plain: 1st Side	*ENG		
006	Separation DC: Plain: 2nd Side	*ENG	[0 to 400 / 100 / 5%/step]	
007	Separation DC: 12001st Side	*ENG		

	[Special 2: Switch Timing: Lead. Edge] Adjusts the bias/ voltage switch timing of the paper transfer roller/ discharge plate at the paper leading edge between the erase margin area and the image area. Plain: High speed, 1200: Low speed			
2822				
001	Paper Transfer: Plain: 1st Side	*ENG		
002	Paper Transfer: Plain: 2nd Side	*ENG		
003	Paper Transfer: 1200: 1st Side	*ENG	[04-50/0/2/]	
005	Separation DC: Plain: 1st Side	*ENG	[0 to 50 / 0 / 2 mm/step]	
006	Separation DC: Plain: 2nd Side	*ENG		
007	Separation DC: 1200: 1st Side	*ENG		

	[Special 2: Trailing Edge Correction] Special 2 Paper: Trailing Edge Correction			
0000	Adjusts the correction to the paper transfer romode. SP2803 and SP2807 are multiplied			
2823				
	Note			
The paper trailing edge area can be adjusted with SP2824.				
001	Paper Transfer: Plain: 1st Side	*ENG		
002	Paper Transfer: Plain: 2nd Side	*ENG		
003	Paper Transfer: 1200: 1st Side	*ENG	[0.4-400/100/59//]	
005	Separation DC: Plain: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]	
006	Separation DC: Plain: 2nd Side	*ENG		
007	Separation DC: 1200: 1st Side	*ENG		

	[Special 2: Switch Timing: Trail. Edge]			
2824	Adjusts the bias/voltage switch timing of the paper transfer roller/discharge plate at the paper trailing edge between the erase margin area and the image area. Plain: High speed, 1200: Low speed			
001	Paper Transfer: Plain: 1st Side	*ENG		
002	Paper Transfer: Plain: 2nd Side	*ENG		
003	Paper Transfer: 1200: 1st Side	*ENG	[0 to 50 / 0 / 2 mm/step]	
005	Separation DC: Plain: 1st Side	*ENG	[O IO 30 / O / Z mm/siep]	
006	Separation DC: Plain: 2nd Side	*ENG		
007	Separation DC: 1200: 1st Side	*ENG		

2830	[Special 2: Environment Correction]		
2630	Plain: High speed, 1200: Low speed		
001	Paper Transfer: Plain: 1st Side	*ENG	[1 to 60 / 26 / 1 /step]
002	Paper Transfer: Plain: 2nd Side	*ENG	[1 to 60 / 32 / 1 /step]

003	Paper Transfer: Plain: BW: 1st Side	*ENG	[1 to 60 / 1 / 1 /step]
004	Paper Transfer: Plain: BW:2nd Side	*ENG	[1 to 60 / 11 / 1 /step]
005	Paper Transfer: Plain: FC: 1st Side	*ENG	[1 to 60 / 1 / 1 /step]
006	Paper Transfer: Plain: FC:2nd Side	*ENG	[1 to 60 / 14 / 1 /step]
007	Paper Transfer: 1200: 1st Side	*ENG	[1 to 60 / 26 / 1 /step]
009	Paper Transfer: 1200: BW: 1st Side	*ENG	[1 to 60 / 11 / 1 /step]
011	Paper Transfer: 1200: FC: 1st Side	*ENG	[1 to 60 / 1 / 1 /step]

	[Special 3: Bias]		
2851	Adjusts the DC voltage of the discharge plate for special paper 3. Plain: High speed, 1200: Low speed		
001	Separation DC: Plain: 1st Side	*ENG	
002	Separation DC: Plain: 2nd Side	*ENG	[0 to 4000 / 0 / 10 –V/step]
003	Separation DC: 1200: 1st Side	*ENG	

	[Special 3: Bias: BW]		
Adjusts the current for the paper transfer roller for special paper 3 in k Plain: High speed, 1200: Low speed		paper 3 in black-and-white mode.	
001	Paper Transfer: Plain: 1 st Side	*ENG	[0. 050 / 00 / 1
002	Paper Transfer: Plain: 2nd Side	*ENG	[0 to 250 / 22 / 1 – µA /step]
003	Paper Transfer: 1200: 1st Side	*ENG	[0 to 250 / 11 / 1 - µA /step]

	[Special 3: Bias: FC]				
2857	Adjusts the current for the paper transfer roller for special paper 3 in full color mode. Plain: High speed, 1200: Low speed				
001	Paper Transfer: Plain: 1st Side	*ENG	[0 to 250 / 30 / 1 – µA /step]		
002	Paper Transfer: Plain: 2nd Side	*ENG	[0 to 250 / 33 / 1 – µA /step]		
003	Paper Transfer: 1200: 1st Side	*ENG	[0 to 250 / 15 / 1 – µA /step]		

	[Special 3: Paper Size Correction]				
2861	Adjusts the size correction coefficient for the paper transfer roller current for each paper size. SP2852 and SP2857 are multiplied by these SP values.				
	Thick 1: Middle speed				
001	Paper Transfer: Thick 1: 1st Side: S1	*ENG	[100 to 600 / 100 / 5%/step]		
002	Paper Transfer: Thick 1: 2nd Side: S1	*ENG	S1 size > 297 mm (Paper width)		
005	Paper Transfer: Thick 1: 1st Side: S2	*ENG	[100 to 600 / 120 / 5%/step] 297 mm > S2 size > 275 mm (Paper width)		
006	Paper Transfer: Thick 1: 2nd Side: S2	*ENG	[100 to 600 / 120 / 5%/step] 297 mm > S2 size > 275 mm (Paper width)		
009	Paper Transfer: Thick 1: 1st Side: S3	*ENG	[100 to 600 / 140 / 5%/step] 275 mm > S3 size > 210 mm (Paper width)		
010	Paper Transfer: Thick 1: 2nd Side: S3	*ENG	[100 to 600 / 140 / 5%/step] 275 mm > S3 size > 210 mm (Paper width)		
013	Paper Transfer: Thick 1: 1st Side: S4	*ENG	[100 to 600 / 160 / 5%/step] 210 mm > S4 size > 148 mm (Paper width)		
014	Paper Transfer: Thick 1: 2nd Side: S4	*ENG	[100 to 600 / 160 / 5%/step] 210 mm > S4 size > 148 mm (Paper width)		
017	Paper Transfer: Thick 1: 1st Side: S5	*ENG	[100 to 600 / 180 / 5%/step] 148 mm > S5 size (Paper width)		
018	Paper Transfer: Thick 1: 2nd Side: S5	*ENG	[100 to 600 / 180 / 5%/step] 148 mm > S5 size (Paper width)		

	[Special 3: Leading Edge Correction] Special 3 Paper: Leading Edge Correction			
	Adjusts the correction to the paper transfer roller current at the paper leading edge in each mode. SP2852 and SP2857 are multiplied by these SP values.			
2871	Plain: High speed, 1200: Low speed			
	₩Note			
	The paper leading edge area can be adjusted with SP2872.			
001	Paper Transfer: Plain: 1st Side	*ENG		
002	Paper Transfer: Plain: 2nd Side	*ENG	[0 to 400 / 100 / 5%/step]	
003	Paper Transfer: 1200: 1st Side	*ENG		
2871	Adjusts the correction to the discharge plate current at the paper leading edge in each mode. SP2851 is multiplied by these SP values. Note The paper leading edge area can be adjusted with SP2872.			
005	Separation DC: Plain: 1st Side	*ENG		
006	Separation DC: Plain: 2nd Side	*ENG	[0 to 400 / 100 / 5%/step]	
007	Separation DC: 1200: 1st Side	*ENG		

	[Special 3: Switch Timing: Lead. Edge]			
2872	Adjusts the bias/voltage switch timing of the paper transfer roller/discharge plate at paper leading edge between the erase margin area and the image area. Plain: High speed, 1200: Low speed			
001	Paper Transfer: Plain: 1st Side	*ENG		
			_	
002	Paper Transfer: Plain: 2nd Side	*ENG		
003	Paper Transfer: 1200: 1st Side	*ENG	[0 to 50 / 0 / 2 mm/step]	
005	Separation DC: Plain: 1st Side	*ENG	[0 10 30 / 0 / 2 mm/ siep]	
006	Separation DC: Plain: 2nd Side	*ENG		
007	Separation DC: 1200: 1st Page	*ENG		

	[Special 3: Trailing Edge Correction] Special 3 Paper: Trailing Edge Correction		
	Adjusts the correction to the paper transfer roller current for the paper trailing edge in each mode. SP2852 and SP2857 are multiplied by these SP values.		
2873	Plain: High speed, 1200: Low speed		
	U Note		
The paper trailing edge area can be adjusted with SP2874.			
001	Paper Transfer: Plain: 1st Side	*ENG	
002	Paper Transfer: Plain: 2nd Side	*ENG	
003	Paper Transfer: 1200: 1st Side	*ENG	[0.4-400 / 100 / 59 / /]
005	Separation DC: Plain: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]
006	Separation DC: Plain: 2nd Side	*ENG	
007	Separation DC: 1200: 1st Page	*ENG	

	[Special 3: Switch Timing: Trail. Edge]			
2874	Adjusts the bias/voltage switch timing of the paper transfer roller/discharge plate at the paper trailing edge between the erase margin area and the image area. Plain: High speed, 1200: Low speed			
001	Paper Transfer: Plain: 1st Side	*ENG		
002	Paper Transfer: Plain: 2nd Side	*ENG		
003	Paper Transfer: 1200: 1st Side	*ENG	[04-50/0/2/]	
005	Separation DC: Plain: 1st Side	*ENG	[0 to 50 / 0 / 2 mm/step]	
006	Separation DC: Plain: 2nd Side	*ENG		
007	Separation DC: 1200: 1st Page	*ENG		

2880	[Special 3: Environment Correction]		
	Plain: High speed, 1200: Low speed		
001	Separation DC: Plain: 1st Side	*ENG	[1 to 60 / 26 / 1 /step]
002	Separation DC: Plain: 2nd Side	*ENG	[1 to 60 / 32 / 1 /step]

003	Paper Transfer: Plain: BW: 1st Side	*ENG	[] to 40 / 11 / 1 /stem]
004	Paper Transfer: Plain: BW:2nd Side	*ENG	[1 to 60 / 11 / 1 /step]
005	Paper Transfer: Plain: FC: 1st Side	*ENG	[1. /0 /11 /1 /.]
006	Paper Transfer: Plain: FC:2nd Side	*ENG	[1 to 60 / 11 / 1 /step]
007	Separation DC: 1200: 1st Side	*ENG	[1 to 60 / 26 / 1 /step]
009	Paper Transfer: 1200: BW: 1st Side	*ENG	[1 to 60 / 11 / 1 /step]
011	Paper Transfer: 1200: FC: 1st Side	*ENG	[1 to 60 / 1 / 1 /step]

	[Dev Rvs Time] Development Roller Reverse Time				
2905	Specified the time of the development roller reverse rotation after the development unit has stopped. The reverse rotation of the development roller is used for removing dust from the development roller.				
001	К	*ENG			
002	М	*ENG	[0.4-200 / 00 / 10 /44-1]		
003	С	*ENG	[0 to 200 / 80 / 10 msec/step]		
004	Υ	*ENG			
	[Dev Rvs Threshold Counter]				
005	All	*ENG	[0 to 400000 / 4000 / 10 mm/step]		
Specified the threshold distance for the development roller reverse mode. This sp r the counters for SP2905-006 to -009.					
	[Dev Rvs Counter]				
006	К	*ENG			
007	М	*ENG	[0 to 999999999 / - / 1 mm/step]		
008	С	*ENG	[O 10 777777777 / - / 1 mm/siep]		
009	Υ	*ENG			

	[ACS Setting (FC to Bk)]		
2907	moves the image transfer belt of	way from t sheets spec	image transfer belt from the color PCDUs. This SP he color PCDUs when the number of B/W image cified with this SP after consecutive full color image elt does not move away.
001	Continuous Bk Pages	*ENG	[0 to 10 / 0 / 1 sheet/step]

2920	[Transfer Motor Control]			
	0: Encorder 1 :FG	*ENG	[0 or 1 / 0 / 1 /step]	
001	Selects the speed control mode for the ITB. If SC443 occurs and machine does not recover, change this setting to "1".			
	SC443 Count	*ENG	[0 to 3 / 0 / 1 /step]	
002	Displays the number of the ITB encodre error. SC443 is displayed if this counter counts to "3".			

	[SecondaryFB: Threshold] Paper Transfer Roller Feed-back: Threshold Adjustment			
2930	Adjusts the threshold between high resistance (division 1) and low resistance (division 2) at the paper transfer roller. This SP affects SP2931 to SP2939.			
001	Voltage	*ENG	[0 to 7000 / 6000 / 10 –V/step]	

	2960	[Process Interval]		
	001	Additional Time	*ENG	[0 to 10 / 0 / 1 sec/step]
Adjusts the additional time for ending the machine's process.		achine's process.		

2970	[Cleaning After JOB]		
001	No Refresh	*ENG	[0 to 100 / 50 / 1 /step] 0: No cleaning
Specifies the threshold sheets for the cleaning of the paper transfer roller without the mode.			g of the paper transfer roller without the refresh

002	Refresh	*ENG	[0 or 1 / 1 / 1 /step]			
002	Kerresn		0: No cleaning, 1: Cleaning			
2971	T1 Non Image Area ON Timing					
	Standard Speed	*ENG	[-400 to 290 / 0 / 10 msec/step]			
001			, , , , , ,			
	Adjusts the timing for the non-in					
002	Medium Speed	*ENG	[-790 to 410 / 0 / 10 msec/step]			
003	Low Speed	*ENG	[-790 to 410 / 0 / 10 msec/step]			
2972	B/W Image Request Timing					
001	Standard Speed	*ENG	[0 to 4000 / 0 / 10 msec/step]			
002	Medium Speed	*ENG	[0 to 4000 / 0 / 10 msec/step]			
003	Low Speed	*ENG	[0 to 4000 / 0 / 10 msec/step]			
0070		1				
2973	Forced Process Down Threshol					
001	-	*ENG	[0 to 5000 / 0 / 10 page/step]			
2974	OPC PreCharge Time Control					
	OPC PreCharge Time Control					
001	Standard Speed	*ENG	[0 to 940 / 0 / 10 msec/step]			
001		*ENG	[0 to 940 / 0 / 10 msec/step] [0 to 940 / 0 / 10 msec/step]			
	Standard Speed		· ·			
002	Standard Speed Medium Speed	*ENG	[0 to 940 / 0 / 10 msec/step]			
002 003 2980	Standard Speed Medium Speed Low Speed	*ENG	[0 to 940 / 0 / 10 msec/step] [0 to 940 / 0 / 10 msec/step]			
002 003 2980 001	Standard Speed Medium Speed Low Speed - Continuous Job Page	*ENG *ENG *ENG	[0 to 940 / 0 / 10 msec/step] [0 to 940 / 0 / 10 msec/step] [0 to 300 / 100 / 10 page/step]			
002 003 2980	Standard Speed Medium Speed Low Speed - Continuous Job Page OPC Drum Idling Time BW	*ENG *ENG *ENG *ENG	[0 to 940 / 0 / 10 msec/step] [0 to 940 / 0 / 10 msec/step]			
002 003 2980 001	Standard Speed Medium Speed Low Speed - Continuous Job Page	*ENG *ENG *ENG	[0 to 940 / 0 / 10 msec/step] [0 to 940 / 0 / 10 msec/step] [0 to 300 / 100 / 10 page/step]			

001	Duty Control State	*ENG	[0 or 1 / 0 / 1 /step] 0: No limit, 1: Limit
002	Duty Control Thresh Time	*ENG	[0 to 195 / 30 / 10 min./step]
003	Duty Control Thresh	*ENG	[0 to 999999999 / 0 / 1 mm/step]
004	Forced CPM Down Thresh: No Duty Control	*ENG	[0 to 5000 / 0 / 1 page/step]
005	Drum Stop Time: No Duty Control	*ENG	[300 to 1500 / 500 / 10 msec/step]
006	ITB Stop Time: No Duty Control	*ENG	[300 to 1500 / 500 / 10 msec/step]
007	Forced CPM Down Thresh: Duty Control	*ENG	[0 to 5000 / 1 / 1 page/step]
008	Drum Stop Time: Duty Control	*ENG	[300 to 1500 / 1500 / 10 msec/step]
009	ITB Stop Time: Duty Control	*ENG	[300 to 1500 / 1500 / 10 msec/step]
010	Duty Control: Start Time	*ENG	Displays the time of the duty control execution.

Main SP Tables-3

SP3-XXX (Process)

3011	[Process Cont. Manual Execution]		
001	Normal	-	Executes the normal process control manually (potential control). Check the result with SP3-325-001 and 3-012-001 after executing this SP.
002	Density Adjustment	-	Executes the toner density adjustment manually.
003	Pre-ACC	-	Executes the process control that is normally done before ACC. The type of process control is selected with SP3-041-004.
004	Full MUSIC	-	Executes the process control that is normally done at the same time as MUSIC. This SP does the MUSIC (line position adjustment) twice.
005	Normal MUSIC	-	Executes the process control that is normally done at the same time as MUSIC. This SP does the MUSIC (line position adjustment) once.

	[Process Cont. Check Result] Process Control Self-check Result
	Displays the result of the latest process control self-check.
2010	All colors are displayed. The results are displayed in the order "Y C M K"
3012	e.g., 11 (Y) 99 (C) 11 (M) 11 (K): The self-check for Cyan failed but the others were successful.
	See the "Error Condition Tables" in the "Appendix: Process Control Error Conditions" section for details.

001	History: Latest	*ENG	
002	Result: Latest 1	*ENG	
003	Result: Latest 2	*ENG	
004	Result: Latest 3	*ENG	
005	Result: Latest 4	*ENG	[11114-00000000 /0000000 /1/44]
006	Result: Latest 5	*ENG	[1111 to 99999999 / 9999999 / 1/step]
007	Result: Latest 6	*ENG	
008	Result: Latest 7	*ENG	
009	Result: Latest 8	*ENG	
010	Result: Latest 9	*ENG	

3013	[T Sensor Initial Set: Execution] Developer Initialization Setting		
001	Execution: ALL	-	
002	Execution: COL	-	
003	Execution: Bk	-	
004	Execution: M	-	Executes the developer initialization for each color.
005	Execution: C	-	
006	Execution: Y	-	

3014	[T Sensor Initial Set Result: Display] Developer Initialization Result: Display			
	Display: YCMK	*ENG	[0 to 9999 / 9999 / 1 /step] 1: Success, 2 to 9: Failure	
Displays the developer initialization result. See section "Developer Initialization R "Appendix: Process Control Error Conditions" section for details on the meaning code.			·	
	All colors are displayed. Values are displayed in the order Y C M Bk. e.g., 1 (Y) 2 (C) 1 (M) 1 (Bk): Initialization of Cyan failed but the others succeeded.			

3015	[Forced Toner Supply: Execute] Forced Toner Supply ([Color])		
001	Execution: ALL	-	
002	Execution: COL	-	
003	Execution: Bk	-	Executes the manual toner supply to the
004	Execution: M	-	development unit.
005	Execution: C	-	
006	Execution: Y	-	

2014	[Forced Toner Supply: Setting] Forced Toner Supply Setting ([Color])					
3016	Specifies the manual toner supply time for each color.					
001	Supply Time: Bk	*ENG				
002	Supply Time: M	*ENG	[0 += 20 / 4 / 1 -== /-+==1			
003	Supply Time: C	*ENG	[0 to 30 / 4 / 1 sec/step]			
004	Supply Time: Y	*ENG				

3041	[Process Control Type]			
001	Voltage Control	*ENG	[0 or 1 / 1 / 1/step] Alphanumeric 0: FIXED (Use the fixed values for the charge DC bias and development DC bias set with SP2-005 and SP2-229.) 1: CONTROL	
	Enables or disables potential control.			
002	LD Power Control	*ENG	[0 or 1 / 1 / 1/step] Alphanumeric 0: FIXED (at the value in SP2221-xxx) 1: CONTROL (adjusted by process control)	
	Selects the LD power control mode.			

003	AutoControl Prohibition Set	*ENG	[0 or 1 / 0 / -] 0: Permit, 1: Forbid	
	Enables or disables the automatic process control prohibition.			
004	Pre-ACC Selects the process control r	*ENG	[0 to 2 / 2 / 1/step] 0: Not Executed 1: Process Control 2: TC Control (TD Adjustment) 3: Not used	
005	Pattern Calculation Method	*ENG	[0 to 2 / 2 / 1/step] 0: FIXED	
	Selects the process control method.			

3043	[TD Adjustment Mode]				
	Repeat Number: Power ON	*ENG	[0 to 9 / 4 / 1 time/step]		
001	Specifies the maximum number of repeats of the toner density adjustment at power on. 0: Disabled, 1 to 3: Repeat number, 4: Repeat three times (No consumption mode) 5: Repeat three times (Toner is supplied only when the toner density is too low, and toner consumed only when the toner density is too dark.) 6 to 9: Disabled				
	Repeat Number: Initialization	*ENG	[0 to 9 / 3 / 1 time/step]		
002	Specifies the maximum number of repeats of the toner density adjustment at the develop initialization. O: Disabled, 1 to 3: Repeat number, 4: Repeat three times (No consumption mode) 5: Repeat three times (Toner is supplied only when the toner density is too low, and tone consumed only when the toner density is too dark.) 6 to 9: Disabled				

	Repeat Number: Non-use	*ENG	[0 to 9 / 0 / 1 time/step]			
	Specifies the maximum number of repeats	of the toner	density adjustment in stand by mode			
003	0: Disabled, 1 to 3: Repeat number,					
003	4: Repeat three times (No consumption m					
	5: Repeat three times (Toner is supplied o consumed only when the toner density is t	-	toner density is too low, and toner is			
	6 to 9: Disabled					
	Repeat Number: ACC	*ENG	[0 to 9 / 3 / 1 time/step]			
	Specifies the maximum number of repeats	s of the toner	density adjustment at ACC.			
	0: Disabled, 1 to 3: Repeat number,					
004	4: Repeat three times (No consumption m	ode)				
	5: Repeat three times (Toner is supplied o	•	toner density is too low, and toner is			
	consumed only when the toner density is too dark.)					
	6 to 9: Disabled					
005	Repeat Number: Recovery	*ENG	[0 to 9 / 0 / 1 time/step]			
	Not used					
	Repeat Number: Job End	*ENG	[0 to 9 / 4 / 1 time/step]			
	Specifies the maximum number of repeats of the toner density adjustment at job end.					
	0: Disabled, 1 to 3: Repeat number,					
006	4: Repeat three times (No consumption mode)					
	5: Repeat three times (Toner is supplied only when the toner density is too low, and toner is consumed only when the toner density is too dark.)					
	6 to 9: Disabled					
	Repeat: Interrupt	*ENG	[0 to 9 / 0 / 1 time/step]			
007	Specifies the maximum number of repeats of the toner density adjustment during printing. DFU					
000	Toner Supply Coefficient	*ENG	[0 to 25.5 / 10 / 0.1 sec/step]			
800	Adjusts the time for the toner supply mode when a toner density is detected to be low.					

	Consumption pattern: Bk		*ENG	[0 to	255 / 5 / 1 time/step]
009	Specifies the belt mark generating is detected to be low at the tone	-	_		toner density when toner dens
	Consumption pattern: M		*ENG	[0 to	255 / 5 / 1 time/step]
010	Specifies the belt mark generating density is detected to be low at t	-		-	-
	Consumption pattern: C	*ENG	[0 to	255 / 5	/ 1 time/step]
011	Specifies the belt mark generating is detected to be low at the tone	-	_	-	toner density when toner den
	Consumption pattern: Y	*ENG	[0 to	255 / 5	/ 1 time/step]
012	Specifies the belt mark generating time for checking the yellow toner density wh density is detected to be low at the toner density adjustment.				·
012	T1 Bias: Bk	*ENG	[0 to	80 / 22	/ 1 µA/step]
013	Adjusts the image transfer belt bias for Black.				
014	T2 Bias: M	*ENG	[0 to	80 / 25	/ 1 µA/step]
014	Adjusts the image transfer belt bias for Magenta.				
015	T3 Bias: C	*ENG	[0 to	80 / 22	/ 1 µA/step]
015	Adjusts the image transfer belt bias for Cyan.				
016	T4 Bias: Y	*ENG	[0 to	80 / 28	/ 1 µA/step]
010	Adjusts the image transfer belt bias for Yellow.				
017	Developer Mixing Time	*ENG	[0 to	250 / 1 0	0 / 1 sec/step]
017	Specifies the developer mixing ti	me at the	toner de	nsity adju	ustment.
	Consumption Pattern: LD: DUTY:	Bk		*ENG	[0 to 15 / 15 / 1 /step]
0.1.0	Adjusts the LD duty for the toner	consumpti	on mode	at the to	oner density adjustment.
018	In toner consumption mode, tone values (SP3611-001) exceed the thresholds (SP3239-009).		-		•

	Consumption Pattern: LD: DUTY: M	*ENG	[0 to 15 / 15 / 1 /step]			
0.1.0	Adjusts the LD duty for the toner consumption mode at the toner density adjustment.					
019	In toner consumption mode, toner is discharged when the detected development gamma values (SP3611-002) exceed the target values (SP3611-006) by more than the specified thresholds (SP3239-009).					
	Consumption Pattern: LD: DUTY: C	*ENG	[0 to 15 / 15 / 1 /step]			
	Adjusts the LD duty for the toner consumption mode at the toner density adjustment.					
020	In toner consumption mode, toner is discharged when the detected development gamma values (SP3611-003) exceed the target values (SP3611-007) by more than the specified thresholds (SP3239-009).					
	Consumption Pattern: LD: DUTY: Y	*ENG	[0 to 15 / 15 / 1 /step]			
	Adjusts the LD duty for the toner consumption mode at the toner density adjustment.					
021	In toner consumption mode, toner is discharged values (SP3611-004) exceed the target values (Stresholds (SP3239-009).		, ,			

3044	[Toner Supply Type] Toner Supply Type ([Color])				
3044	Selects the toner supply method type.				
001	Bk	*ENG	[0 to 3 / 2 / 1/step] Alphanumeric		
002	М	*ENG	0: FIXED (with the supply rates stored with SP 3401)		
003	С	*ENG	1: PID (Vtref_Fixed) 2: PID (Vtref_Control)		
004	Υ	*ENG	3: Not used		

3045	[Toner End Detection: Set]					
3043	Enables/disables the toner alert display on the LCD.					
001	ON/OFF *ENG [0 or 1 / 0 / 1/step] 0: Detect, 1: Not Detect		[0 or 1 / 0 / 1/step] 0: Detect, 1: Not Detect			

	[Toner End Recovery]
3102	Adjusts the number of times toner supply is attempted for each color when the TD sensor continues to detect toner end during toner recovery.

001	Repeat: Bk	*ENG	
002	Repeat: M	*ENG	[14, 20 / 5 / 15,
003	Repeat: C	*ENG	[1 to 20 / 5 / 1 time/step]
004	Repeat: Y	*ENG	

3131	[TE Count m: Display]				
3131	Display the number of toner end detections for each color.				
001	Bk	*ENG			
002	М	*ENG	[0+-00/0/14/]		
003	С	*ENG	[0 to 99 / 0 / 1 time/step]		
004	Υ	*ENG			

3201	[TD Sensor: Vt Display]			
3201	Display the current voltage of the TD sensor for each color.			
001	Current: Bk	*ENG		
002	Current: M	*ENG	[0+-55/001/001//]	
003	Current: C	*ENG	[0 to 5.5 / 0.01 / 0.01 V/step]	
004	Current: Y	*ENG		

	[Vt Shift: Display/Set]			
3211	Adjusts the Vt correction value for each line speed.			
	Thick 1: Middle speed, Thick 2&Fine	ed		
001	Thick 1 Shift: Bk	*ENG	[0 to 5 / 0.35 / 0.01 V/step]	
002	Thick 1 Shift: M	*ENG	[0 to 5 / 0.33 / 0.01 V/step]	
003	Thick 1 Shift: C	*ENG	[0 to 5 / 0.28 / 0.01 V/step]	
004	Thick 1 Shift: Y	*ENG	[0 to 5 / 0.29 / 0.01 V/step]	
005	Thick 2 & FINE Shift: Bk	*ENG	[0 to 5 / 0.35 / 0.01 V/step]	

006	Thick 2 & FINE Shift: M	*ENG	[0 to 5 / 0.33 / 0.01 V/step]
007	Thick 2 & FINE Shift: C	*ENG	[0 to 5 / 0.28 / 0.01 V/step]
008	Thick 2 & FINE Shift: Y	*ENG	[0 to 5 / 0.29 / 0.01 V/step]
009	Mid TCShift: Bk	*ENG	
010	Mid TCShift: M	*ENG	[0.54-0.5/0/0.01\//]
011	Mid TCShift: C	*ENG	[-0.5 to 0.5 / 0 / 0.01 V/step]
012	Mid TCShift: Y	*ENG	
013	Low TCShift: Bk	*ENG	
014	Low TCShift: M	*ENG	[0.5 to 0.5 / 0 / 0.01 \/ /stom ¹
015	Low TCShift: C	*ENG	[-0.5 to 0.5 / 0 / 0.01 V/step]
016	Low TCShift: Y	*ENG	

3221	[Vtcnt: Display/Set]			
3221	Displays or adjusts the current Vtcnt value for each color.			
001	Current: Bk	*ENG		
002	Current: M	*ENG	[24-5/204/0017/4]	
003	Current: C	*ENG	[2 to 5 / 3.86 / 0.01 V/step]	
004	Current: Y	*ENG		
005-008	Displays or adjusts the Vtcnt v	alue for ea	ch color at developer initialization. DFU	
005	Initial: Bk	*ENG		
006	Initial: M	*ENG	[24-5/204/001V/44-1	
007	Initial: C	*ENG	[2 to 5 / 3.86 / 0.01 V/step]	
800	Initial: Y	*ENG		

3222	[Vtref: Display/Set]
3222	Displays or adjusts the current Vtref value for each color.

001	Current: Bk	*ENG		
002	Current: M	*ENG	[0 5.5./2./0.01.V/]	
003	Current: C	*ENG	[0 to 5.5 / 3 / 0.01 V/step]	
004	Current: Y	*ENG		
005-008	Displays or adjusts the Vtref v	alue for ea	ch color at developer initialization. DFU	
005	Initial: Bk	*ENG		
006	Initial: M	*ENG	[0 to 5.5 / 2 / 0.01 V/stan]	
007	Initial: C	*ENG	[0 to 5.5 / 3 / 0.01 V/step]	
008	Initial: Y	*ENG		
009-012	Displays and adjusts Vtref correction by pixel coverage for each color. DFU			
009	Pixel Correction: Bk	*ENG		
010	Pixel Correction: M	*ENG	[-5 to 5.5 / 0 / 0.01 V/step]	
011	Pixel Correction: C	*ENG	[-3 10 3.3 / 0 / 0.01	
012	Pixel Correction: Y	*ENG		

3239	[Vtref Correction: Setting]					
3239	Adjusts the parameter for Vtref correction at the process control.					
001	(+)Consumption: Bk	*ENG				
002	(+)Consumption: M	*ENG				
003	(+)Consumption: C	*ENG				
004	(+)Consumption: Y	*ENG	[01/005/0017/]			
005	(-)Consumption: Bk	*ENG	[0 to 1 / 0.05 / 0.01 V/step]			
006	(-)Consumption: M	*ENG				
007	(-)Consumption: C	*ENG				
008	(-)Consumption: Y	*ENG				
009-012	Threshold for development gamma rank.					

009	P Rank 1 Threshold	*ENG	[0 to 2 / 0.2 / 0.1 /step]
010	P Rank 2 Threshold	*ENG	[0 to 2 / 0.05 / 0.1 /step]
011	P Rank 3 Threshold	*ENG	[-2 to 0 / -0.05 / 0.1 /step]
012	P Rank 4 Threshold	*ENG	[-2 to 0 / -0.2 / 0.1 /step]
013-014	Threshold for image density r	ank on the im	nage transfer belt.
013	T Rank 1 Threshold	*ENG	[-1 to 0 / -0.2 / 0.01 V/step]
014	T Rank 2 Threshold	*ENG	[0 to 1 / 0.2 / 0.01 V/step]

3241	[Background Potential Sett	ing]	
001	Coefficient: Bk	*ENG	These are parameters for calculating the charge
002	Coefficient: M	*ENG	bias referring to the development bias at process control.
003	Coefficient: C	*ENG	[-1000 to 1000 / 0 / 1 /step]
004	Coefficient: Y	*ENG	DC charge bias = Development bias x (1 + 0.001 x these vales) + SP3-241-005 to -008
005	Offset: Bk	*ENG	These are additional values for calculating the
006	Offset: M	*ENG	charge bias referring to the development bias at process control.
007	Offset: C	*ENG	[0 to 255 / 140 / 1 V/step]
008	Offset: Y	*ENG	DC charge bias = Development bias x (1 + 0.001 x SP3-241-001 to -004) + these values

3242	[LD Power Setting]					
	Adjusts the coefficient for LD power control value at the process control.					
001	StdSpd:Coefficient: Bk	*ENG	[-1000 to 1000 / 101 / 1 /step]			
002	StdSpd:Coefficient: M	*ENG	[-1000 to 1000 / 62 / 1 /step]			
003	StdSpd:Coefficient: C	*ENG	[-1000 to 1000 / 99 / 1 /step]			
004	StdSpd:Coefficient: Y	*ENG	[-1000 to 1000 / 74 / 1 /step]			
005	StdSpd:Offset: Bk	*ENG	[-1000 to 1000 / 69 / 1 /step]			
006	StdSpd:Offset: M	*ENG	[-1000 to 1000 / 95 / 1 /step]			

007	StdSpd:Offset: C	*ENG	[-1000 to 1000 / 63 / 1 /step]
008	StdSpd:Offset: Y	*ENG	[-1000 to 1000 / 82 / 1 /step]
009	MidSpd:coef:Bk	*ENG	[-1000 to 1000 / 101 / 1 /step]
010	MidSpd:coef:M	*ENG	[-1000 to 1000 / 62 / 1 /step]
011	MidSpd:coef:C	*ENG	[-1000 to 1000 / 99 / 1 /step]
012	MidSpd:coef:Y	*ENG	[-1000 to 1000 / 74 / 1 /step]
013	MidSpd:offset:Bk	*ENG	[-1000 to 1000 / 69 / 1 /step]
014	MidSpd:offset:M	*ENG	[-1000 to 1000 / 95 / 1 /step]
015	MidSpd:offset:C	*ENG	[-1000 to 1000 / 63 / 1 /step]
016	MidSpd:offset:Y	*ENG	[-1000 to 1000 / 82 / 1 /step]
017	LowSpd:Coef:Bk	*ENG	[-1000 to 1000 / 81 / 1 /step]
018	LowSpd:Coef:M	*ENG	[-1000 to 1000 / 61 / 1 /step]
019	LowSpd:Coef:C	*ENG	[-1000 to 1000 / 86 / 1 /step]
020	LowSpd:Coef:Y	*ENG	[-1000 to 1000 / 67 / 1 /step]
021	LowSpd:offset:Bk	*ENG	[-1000 to 1000 / 82 / 1 /step]
022	LowSpd:offset:M	*ENG	[-1000 to 1000 / 92 / 1 /step]
023	LowSpd:offset:C	*ENG	[-1000 to 1000 / 68 / 1 /step]
024	LowSpd:offset:Y	*ENG	[-1000 to 1000 / 87 / 1 /step]
	-	-	

3251	[Coverage]			
3231	These (-001 to -016) are coefficients for SP3-222-009 to -012.			
001	Latest Pixel: Bk	*ENG		
002	Latest Pixel: M	*ENG	Displays the latest coverage for each color.	
003	Latest Pixel: C	*ENG	[0 to 9999 / 0 / 1 cm ² /step]	
004	Latest Pixel: Y	*ENG		

	Displays the average coverage of each color for the Vtref correction.				
005-008	"Average S" is defined when the number of developed pages does not reach the numbe specified with SP3251-017.				
005	Average S: Bk	*ENG			
006	Average S: M	*E1	٧G	. 01	100 / 5 / 0 010/ / 1
007	Average S: C	*ENG		լ (Մ ք	o 100 / 5 / 0.01 %/step]
008	Average S: Y	*E1	٧G		
009-012	Displays the average coverage of each color for the Vtref correction. "Average M" is defined when the number of developed pages does not reach the number specified with SP3251-018.				
009	Average M: Bk	* E1	٧G		
010	Average M: M	* E1	٧G	[O +	- 100 / 5 / 0 01 9/ /1
011	Average M: C	*ENG		[0 to 100 / 5 / 0.01 %/step]	
012	Average M: Y	*ENG			
013-016		vhen tl	ne num		color for the Vtref correction. of developed pages does not reach the number
013	Average L: Bk	* E1	٧G		
014	Average L: M	* E1	٧G	[O +	o 100 / 5 / 0.01 %/step]
015	Average L: C	* E1	٧G	[0]	0 100 / 3 / 0.01 //siepj
016	Average L: Y	* E1	٧G		
017-019	Adjusts the threshold for SP3-251-005 to -016.				o -016.
017	Total Page Setting: S		*EN	1G	[1 to 100 / 10 / 1 sheet/step]
018	Total Page Setting: M		*EN	1G	[1 to 500 / 10 / 1 sheet/step]
019	Total Page Setting: L		*EN	1G	[1 to 999 / 50 / 1 sheet/step]
020-023	Adjusts the threshold fo	r SP3-	251-0)24 t	o -027.
020	Total Page Setting: S2		*EN	1G	[1 to 100 / 40 / 1 sheet/step]

021	Total Page Setting: M2	*ENG	[1 to 500 / 10 / 1 sheet/step]	
022	Total Page Setting: L2	*ENG	[1 to 999 / 50 / 1 sheet/step]	
024-027	Displays the latest coverage	ratio for ea	ch color.	
024	Latest Coverage: Bk	*ENG		
025	Latest Coverage: M	*ENG	[0. 100 / /001 % / .]	
026	026 Latest Coverage: C		[0 to 100 / - / 0.01 %/step]	
027	Latest Coverage: Y	*ENG		
000	Displays the threshold of whether to perform developer churning or not.			
028	DevMix Threshold	*ENG	[0 to 100 / 20 / 1 %/step]	

3311	[ID Sensor Detection Value: Voffset]			
Displays the ID sensor (regular) offset voltage for Vsg adjustme			age for Vsg adjustments.	
001	Voffset reg: Bk	*ENG	[0 to 5 / 0 / 0.01 V/step]	
002	Voffset reg: M	*ENG		
003	Voffset reg: C	*ENG	[0 to 5.5 / 0 / 0.01 V/step]	
004	Voffset reg: Y	*ENG		
005-007	Displays the ID sensor (diffusion) offset voltage for Vsg adjustments.			
005	Voffset dif: M	*ENG		
006	Voffset dif: C	*ENG	[0 to 5.5 / 0 / 0.01 V/step]	
007	Voffset dif: Y	*ENG		
008-010	Displays the ID sensor offset voltage for Vsg adjustments.			
008	Voffset TM (Front)	*ENG		
009	Voffset TM (Center)	*ENG	[0 to 5.5 / 0 / 0.01 V/step]	
010	Voffset TM (Rear)	*ENG		

3321	[Vsg Adjustment: Execution]
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010 P/TM Sensor All	-	Execute the ID sensor initialization setting for all sensors
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	[Vsg Adjustment Result: Vsg]			
3322	Displays the result value of the Vsg adjustment for each sensor.			
001	Vsg reg: Bk	*ENG		
002	Vsg reg: M	*ENG		
003	Vsg reg: C	*ENG		
004	Vsg reg: Y	*ENG		
005	Vsg dif: M	*ENG	[0.5.5.7.0.7.0.1.7.4]	
006	Vsg dif: C	*ENG	[0 to 5.5 / 0 / 0.01 V/step]	
007	Vsg dif: Y	*ENG		
800	Vsg TM (Front)	*ENG		
009	Vsg TM (Center)	*ENG		
010	Vsg TM (Rear)	*ENG		

	[Vsg Adjustment Result]
3325	Displays the result of the Vsg adjustment.
	The displayed numbers mean the result of each sensor (sensor for Front, sensor for Bk, sensor
	for Cyan, sensor for Center, sensor for Magenta, sensor for Yellow and sensor for Rear).

001	History: Latest	*ENG	
002	Result: Latest 1	*ENG	
003	Result: Latest 2	*ENG	
004	Result: Latest 3	*ENG	[111 to 999 / 999 / 1 /step]
005	Result: Latest 4	*ENG	9: Unexpected error
006	Result: Latest 5	*ENG	3: Offset voltage error 2: Vsg adjustment value error
007	Result: Latest 6	*ENG	1: O.K
008	Result: Latest 7	*ENG	
009	Result: Latest 8	*ENG	
010	Result: Latest 9	*ENG	

2.401	[Fixed Supply Mode]		
3401	Adjusts the toner supply rate in	oner supply mode.	
001	Fixed Rate: Bk	*ENG	
002	Fixed Rate: M	*ENG	[0 to 100 / 5 / 1 %/step]
003	Fixed Rate: C	*ENG	These SPs are used only when SP3-044 is set to "1".
004	Fixed Rate: Y	*ENG	

3411	[Toner Supply Rate: Display] Displays the current toner supply rate.				
3411					
001	Latest: Bk	*ENG			
002	Latest: M	*ENG	[0 to 100 / /1 % /ston]		
003	Latest: C	*ENG	[0 to 100 / - / 1 %/step]		
004	Latest: Y	*ENG			

3421	[Toner Supply Range]
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001	Upper Limit: Bk	*ENG	
002	Upper Limit: M	*ENG	Adjusts the toner supply rate during printing.
003	Upper Limit: C	*ENG	[0 to 100 / 100 / 1%/step]
004	Upper Limit: Y	*ENG	
005	Minimum Supply Time: Bk	*ENG	
006	Minimum Supply Time: M	*ENG	Adjusts the minimum toner supply time.
007	Minimum Supply Time: C	*ENG	[0 to 1000 / 0 / 1 msec/step]
008	Minimum Supply Time: Y	*ENG	

3501	[Process Control Target M/A]				
3301	Adjusts the target M/A.				
001	Maximum M/A: Bk	*ENG			
002	Maximum M/A: M	*ENG	[0 to 1 / 0.444 / 0.001 mg/cm ² /step]		
003	Maximum M/A: C	*ENG	[U to 1 / U.444 / U.UU1 mg/cm ⁻ /step]		
004	Maximum M/A: Y	*ENG			

3510	[Pixel Adj. Sheet Counter: Display] Displays the total page counter for each adjustment mode.			
3310				
001	Potential Control: BW	BW *ENG		
002	Potential Control: FC	*ENG		
003	Power ON: BW	*ENG		
004	Power ON: FC	*ENG	[0.1. 2000 / 0 / 1 / 1]	
005	MUSIC: BW	*ENG	[0 to 2000 / 0 / 1 page/step]	
006	MUSIC: FC	*ENG		
007	Vsg Adj.	*ENG		
008	Charge AC Control	*ENG		

009	MUSIC: Power ON: BW	*ENG
010	MUSIC: Power ON: FC	*ENG

3511	[Execution Interval: Setting]			
3311	Adjusts the threshold for each adjustm	ent mode.		
001	Job End: Potential Control: BW	*ENG	[0 to 2000 / 250 / 1 page/step]	
002	Job End: Potential Control: FC	*ENG	[0 to 2000 / 100 / 1 page/step]	
003	Interrupt: Potential Control: BW	*ENG	[0 to 2000 / 500 / 1 page/step]	
004	Interrupt: Potential Control: FC	*ENG	[0 to 2000 / 200 / 1 page/step]	
005	Initial: Potential Control: BW	*ENG	[0 to 2000 / 250 / 1 page/step]	
006	Initial: Potential Control: FC	*ENG	[0 to 2000 / 100 / 1 page/step]	
007	Vsg Adj. Counter	*ENG	[0, 2000 / 0 / 1 / 1	
008	Charge AC Control Counter	*ENG	[0 to 2000 / 0 / 1 page/step]	
019	Environmental Correction	*ENG	[0 or 1 / 1 / 1 /step] 0: Not Correct (OFF), 1: Correct (ON)	
020	Gamma Correction	*ENG	[0 or 1 / 1 / 1 /step] 0: Not Correct (OFF), 1: Correct (ON)	
021	Non-use Time Correction	*ENG	[0 or 1 / 1 / 1 /step] 0: Not Correct (OFF), 1: Correct (ON)	
022	Correction Coefficient 1: JE: BW	*ENG	[0 to 1 / 0.2 / 0.01 page/step]	
023	Correction Coefficient 2: JE: BW	*ENG	[0 to 1 / 1 / 0.01/step]	
024	Correction Coefficient 1: JE: FC	*ENG	[0 to 1 / 0.5 / 0.01/step]	
025	Correction Coefficient 2: JE: FC	*ENG	[0 to 1 / 1 / 0.01/step]	
026	Correction Coefficient 1: Interrupt: BW	*ENG	[0 to 1 / 0.1 / 0.01/step]	
027	Correction Coefficient 2: Interrupt: BW	*ENG	[0 to 1 / 1 / 0.01/step]	

028	Correction Coefficient 1: Interrupt: FC	*ENG	[0 to 1 / 0.25 / 0.01/step]
029	Correction Coefficient 2: Interrupt: FC	*ENG	[0 to 1 / 1 / 0.01/step]
030	Max. Number Correction Threshold	*ENG	[0 to 99 / 5 / 1/step]
031	Max. Number Correction Counter	*ENG	[0 to 255 / 0 / 1/step]

2510	[Image Quality Adj.: Interval]		
Adjusts the timing for execution of process control an		s control and line position adjustment.	
001	During Job	*ENG	[0 to 100 / 30 / 1 page/step]
002	During Stand-by	*ENG	[0 to 100 / 10 / 1 minute/step]

	[PCU Motor Stop Time: Bk]			
3513	Displays the last time that the PCDU motors stopped.			
	These are used for process control execution timing.			
001	Year	*ENG	[0 to 99 / 0 / 1/step]	
002	Month	*ENG	[1 to 12 / 1 / 1/step]	
003	Date	*ENG	[1 to 31 / 1 / 1/step]	
004	Hour	*ENG	[0 to 23 / 0 / 1/step]	
005	Minute	*ENG	[0 to 59 / 0 / 1/step]	

	[Environmental Display: Job End]			
Displays the environmental conditions for the last job. These are used for process control execution timing.			·	
	These are used for process cor	execui	ion inning.	
001	Temperature	*ENG	[-1280 to 1270 / 0 / 0.1°C/step]	
002	Relative Humidity	*ENG	[0 to 1000 / - / 0.1%RH/step]	
003	Absolute Humidity	*ENG	[0 to 1000 / - / 0.1 g/cm ³ /step]	

	[Execution Interval: Display]				
3515	Displays the current interval for process control execution.				
When the machine calculates the tin These are the results after considerir			or process control, it uses a number of conditions. The conditions.		
001	Job End: Potential Control: BW	*ENG	[0 to 2000 / 500 / 1 page/step]		
002	Job End: Potential Control: FC	*ENG	[0 to 2000 / 200 / 1 page/step]		
003	Interrupt: Potential Control: BW	*ENG	[0 to 2000 / 500 / 1 page/step]		
004	Interrupt: Potential Control: FC	*ENG	[0 to 2000 / 200 / 1 page/step]		

	[Blade damage prevention mode]			
3517	Adjusts the threshold temperature for preventing the cleaning blade in the transfer belt cleaning unit from being damaged. If the temperature is above this value, toner is applied to the transfer belt at set intervals during the job to prevent the blade from flipping over.			
001	Execution Temp. Threshold	*ENG	[0 to 50 / 40 / 1°C/step]	

3519	[Toner End Prohibition Setting]		
3319	Enables or disables each adjustment at toner near end.		
001	Process Control	*ENG	[0 or 1 / 1 / 1/step]
002	MUSIC	*ENG	O: Permit (adjustment is done even toner near end condition)
003	TC Adj.	*ENG	1: Forbid (adjustment is not done at toner near end condition)

3520	[ITB Idling Number]
3320	Specifies the number of the ITB idling rotation for each condition.

001	Temperature: H	*ENG	
002	Temperature: M	*ENG	[0 2 / 0 / 1
003	Temperature: L	*ENG	[0 or 3 / 0 / 1 revolution/step]
004	Temperature: L: Power ON	*ENG	

	[Temperature Threshold]			
3521	Specifies the threshold temperature for each condition. These settings affect the conditions of SP3-520.			
	t1: Threshold between L (low temp.) and M (medium temp.)			
	t2: Threshold between M (medium temp.) and H (high temps)			
001	Threshold: †2	*ENG	[20 or 30 / 25 / 1 deg/step]	
002	Threshold: †1	*ENG	[0 or 15 / 15 / 1 deg/step]	

	[Initial Process Control Setting]			
3522	Adjusts the threshold for the process control at power on. When the current condition has changed by more than the values of these SPs when compared with the conditions at the previous operation, the process control at power on is executed.			
000		*5.10	10. 140 /0/0 /1 / . 1	
002	Non-use Time Setting	*ENG	[0 to 1440 / 360 / 1 minute/step]	
003	Temperature Range	*ENG	[0 to 99 / 10 / 1°C/step]	
004	Relative Humidity Range	*ENG	[0 to 99 / 50 / 1 %RH/step]	
005	Absolute Humidity Range	*ENG	[0 to 99 / 6 / 1 g/m ³ /step]	
	[Rapi_timer]			
100	Time Setting	*ENG	[0 to 255 / 30 / 1 sec/step]	
	Adjusts the time-out time for the Rapi timer.			

	[Non-use Time Process Control Setting]			
3531	Adjusts the threshold for the process control at stand-by. When the current condition has changed by more than the values of these SPs when compared with the conditions at the previous operation, the process control at stand-by is executed.			
001	Non-use Time Setting	*ENG	[0 to 1440 / 360 / 1 minute/step]	
002	Temperature Range	*ENG	[0 to 99 / 10 / 1°C/step]	
003	Relative Humidity Range	*ENG	[0 to 99 / 50 / 1 %RH/step]	
004	Absolute Humidity Range	*ENG	[0 to 99 / 6 / 1 g/m ³ /step]	
005	Maximum Execution Number	*ENG	Adjusts the maximum execution time for the process control at stand-by. [0 to 99 / 10 / 1 time/step]	

3611	[Development Gamma: Display/	'Set]	
001	Bk (Current)	*ENG	
002	M (Current)	*ENG	Displays the current development gamma for each color.
003	C (Current)	*ENG	[0 to 5 / - / 0.01 mg/cm ² /kV /step]
004	Y (Current)	*ENG	
005	Bk (Target Display)	*ENG	
006	M (Target Display)	*ENG	Displays the target development gamma for each color.
007	C (Target Display)	*ENG	[0 to 5 / 0.91 / 0.01 mg/cm ² /kV /step]
800	Y (Target Display)	*ENG	
009	Bk (Standard Target Set)	*ENG	
010	M (Standard Target Set)	*ENG	Displays the standard target development gamma for each color.
011	C (Standard Target Set)	*ENG	[0 to 5 / 0.8 / 0.01 mg/cm ² /kV /step]
012	Y (Standard Target Set)	*ENG	

013	Environmental Correction	*ENG	Turns on or off the environmental correction for target development gamma. [0 or 1 / 1 / -] 0: Not Correct, 1: Correct
014	K (Max Correction)	*ENG	Adjusts the maximum correction value for each
015	M (Max Correction)	*ENG	color. These SPs are effective only when the
016	C (Max Correction)	*ENG setting of SP3-611-013 is set to "	setting of SP3-611-013 is set to "1". [0 to 5 / 0.15 / 0.01 mg/cm ² /kv/ step]
017	Y (Max Correction)	*ENG	[0 10 3 / 0.13 / 0.01 mg/cm / kv/ siep]
018	K (Max Abs Hum)	*ENG	Adjusts the maximum humidity correction
019	M (Max Abs Hum)	*ENG	value for each color. These SPs are effective only when the setting of SP3-611-013 is set
020	C (Max Abs Hum)	*ENG	to "1".
021	Y (Max Abs Hum)	*ENG	[1 to 99 / 20 / 1 g/m ³ /step]

3612	[Vk Display]		
Displays Vk for each color.			
001	Bk	*ENG	
002	М	*ENG	[200+-200 / /1 //1
003	С	*ENG	[-300 to 300 / - / 1 V/step]
004	Υ	*ENG	

3621	[Development DC Control: Display] Plain: High speed, Thick 1: Middle speed, Thick 2 & FINE: Low speed Displays the development DC bias adjusted with the process control for each line speed and color.		
001	Plain: Bk	*ENG	
002	Plain: M	*ENG	[0. 700 / FFO / 1 V/ .]
003	Plain: C	*ENG	[0 to 700 / 550 / 1 -V/step]
004	Plain: Y	*ENG	

005	Thick 1: Bk	*ENG	
006	Thick 1: M	*ENG	[0.4-700 / 550 / 1 \//stan]
007	Thick 1: C	*ENG	[0 to 700 / 550 / 1 -V/step]
800	Thick 1: Y	*ENG	
009	Thick 2 & FINE: Bk	*ENG	
010	Thick 2 & FINE: M	*ENG	[0.4-700 / 550 / 1 \//1
011	Thick 2 & FINE: C	*ENG	[0 to 700 / 550 / 1 -V/step]
012	Thick 2 & FINE: Y	*ENG	

3631	[Charge DC Control: Display] Plain: High speed, Thick 1: Middle speed, Thick 2 & FINE: Low speed		
3031	Displays the charge DC voltage adjusted with the process control for each line speed and color.		
001	Plain: Bk	*ENG	
002	Plain: M	*ENG	[0.4-2000 / 400 / 1] //]
003	Plain: C	*ENG	[0 to 2000 / 690 / 1 -V/step]
004	Plain: Y	*ENG	
005	Thick 1 & FINE: Bk	*ENG	
006	Thick 1 & FINE: M	*ENG	[0.4-2000 / 400 / 1] //]
007	Thick 1 & FINE: C	*ENG	[0 to 2000 / 690 / 1 -V/step]
800	Thick 1& FINE: Y	*ENG	
009	Thick 2 & FINE: Bk	*ENG	
010	Thick 2 & FINE: M	*ENG	[0 to 2000 / 400 / 1 \
011	Thick 2 & FINE: C	*ENG	[0 to 2000 / 690 / 1 -V/step]
012	Thick 2 & FINE: Y	*ENG	

	[Charge AC Control: Display]				
3641	Plain: High speed Displays the charge AC voltage adjusted with the process control for each color.				
001	Plain: Bk	*ENG			
002	Plain: M	*ENG	[0 to 2 / 1.75 / 0.01 kV/ston]		
003	Plain: C	*ENG	[0 to 3 / 1.75 / 0.01 kV/step]		
004	Plain: Y	*ENG			

[LD Power Control: Display] Plain: High speed, Thick 1: Middle speed, Thick 2 & FINE: Low speed		hick 2 & FINE: Low speed	
	Displays the LD power adjusted for each environment.		
001	Plain: Bk	*ENG	
002	Plain: M	*ENG	[0 200 / 100 / 1.9/ /]
003	Plain: C	*ENG	[0 to 200 / 100 / 1 %/step]
004	Plain: Y	*ENG	
005	Thick 1: Bk	*ENG	
006	Thick 1: M	*ENG	[0 200 / 100 / 1.9/ /]
007	Thick 1: C	*ENG	[0 to 200 / 100 / 1 %/step]
008	Thick 1: Y	*ENG	
009	Thick 2 & FINE: Bk	*ENG	
010	Thick 2 & FINE: M	*ENG	[0.4-200 / 100 / 1.9 / 4]
011	Thick 2 & FINE: C	*ENG	[0 to 200 / 100 / 1 %/step]
012	Thick 2 & FINE: Y	*ENG	

[HST Concentration Control: Set]		[HST Concentration Control: Set]
	3710	TD Sensor: Toner Concentration Control Setting
		Selects the toner concentration control method by HST memory, which is in the TD sensor.

001 Control Method: Selection *ENG [0 or 1 / 1 / -] 0: Not Us	e, 1: Use
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[HST Concentration Control: Bk] Displays the factory settings of the black PCDU.			
		DU.	
001	Vcnt	*ENG	[0 to 5 / 4 / 0.1 V/step]
002	Vt	*ENG	[0 to 5 / 2.5 / 0.1 V/step]
003	Sensitivity: HL	*ENG	[1.22 to 3.77 / 2.1 / 0.01 V/step]
004	Sensitivity: HM	*ENG	[0 0.55 / 1.05 / 0.01 \/ /]
005	Sensitivity: ML	*ENG	[0 to 2.55 / 1.05 / 0.01 V/step]
006	Set Detection	*ENG	[0 to 5 / 1 / 0.1 V/step]
007	Without Developer	*ENG	[0 to 5 / 1.2 / 0.1 V/step]
800	With Developer	*ENG	[0 to 5 / 1.3 / 0.1 V/step]
009	Serial Number 1	*ENG	[0.4- 0.55 / /1.V/.4]
010	Serial Number 2	*ENG	[0 to 255 / - / 1 V/step]
011	Adjustment: Vt	*ENG	[0 to 5 / 3 / 0.1 V/step]
012	Adjustment: Vtref	*ENG	[0 to 5 / 3 / 0.1 V/step]
013	Adjustment: Vtcnt	*ENG	[0 to 5 / 4 / 0.01 V/step]
014	Adjustment: Gamma	*ENG	[0 to 2.55 / 0 / 0.01 mg/cm ² /kV /step]
015	Adjustment: Vcnt Result	*ENG	[0 to 9 / 9 / 1 /step]

3712	[HST Concentration Control: M]		
3712	Displays the factory settings of the magenta PCDU.		PCDU.
001	Vcnt	*ENG	[0 to 5 / 4 / 0.1 V/step]
002	Vt	*ENG	[0 to 5 / 2.5 / 0.1 V/step]
003	Sensitivity: HL	*ENG	[1.22 to 3.77 / 2.1 / 0.01 V/step]
004	Sensitivity: HM	*ENG	[0 to 0 55 / 1 05 / 0 01 V/stord
005	Sensitivity: ML	*ENG	[0 to 2.55 / 1.05 / 0.01 V/step]

006	Set Detection	*ENG	[0 to 5 / 1 / 0.1 V/step]
007	Without Developer	*ENG	[0 to 5 / 1.2 / 0.1 V/step]
008	With Developer	*ENG	[0 to 5 / 1.3 / 0.1 V/step]
009	Serial Number 1	*ENG	[O to 255 / / 1 V/ston]
010	Serial Number 2	*ENG	[0 to 255 / - / 1 V/step]
011	Adjustment: Vt	*ENG	[0 to 5 / 3 / 0.1 V/step]
012	Adjustment: Vtref	*ENG	[0 to 5 / 3 / 0.1 V/step]
013	Adjustment: Vtcnt	*ENG	[0 to 5 / 4 / 0.01 V/step]
014	Adjustment: Gamma	*ENG	[0 to 2.55 / 0 / 0.01 mg/cm ² /kV /step]
015	Adjustment: Vcnt Result	*ENG	[0 to 9 / 9 / 1 /step]

2712	[HST Concentration Control: C] Displays the factory settings of the cyan PCDU.			
3713				
001	Vcnt	*ENG	[0 to 5 / 4 / 0.1 V/step]	
002	Vt	*ENG	[0 to 5 / 2.5 / 0.1 V/step]	
003	Sensitivity: HL	*ENG	[1.22 to 3.77 / 2.1 / 0.01 V/step]	
004	Sensitivity: HM	*ENG	[0.1-2.55 / 1.05 / 0.01 \/ /]	
005	Sensitivity: ML	*ENG	[0 to 2.55 / 1.05 / 0.01 V/step]	
006	Set Detection	*ENG	[0 to 5 / 1 / 0.1 V/step]	
007	Without Developer	*ENG	[0 to 5 / 1.2 / 0.1 V/step]	
800	With Developer	*ENG	[0 to 5 / 1.3 / 0.1 V/step]	
009	Serial Number 1	*ENG	[0 255 / /1 ///]	
010	Serial Number 2	*ENG	[0 to 255 / - / 1 V/step]	
011	Adjustment: Vt	*ENG	[0 to 5 / 3 / 0.1 V/step]	
012	Adjustment: Vtref	*ENG	[0 to 5 / 3 / 0.1 V/step]	
013	Adjustment: Vtcnt	*ENG	[0 to 5 / 4 / 0.01 V/step]	

014	Adjustment: Gamma	*ENG	[0 to 2.55 / 0 / 0.01 mg/cm ² /kV /step]
015	Adjustment: Vcnt Result	*ENG	[0 to 9 / 9 / 1 /step]

3714	[HST Concentration Control: Y]		
3714	Displays the factory settings of the yellow PCDU.		
001	Vcnt	*ENG	[0 to 5 / 4 / 0.1 V/step]
002	Vt	*ENG	[0 to 5 / 2.5 / 0.1 V/step]
003	Sensitivity: HL	*ENG	[1.22 to 3.77 / 2.1 / 0.01 V/step]
004	Sensitivity: HM	*ENG	[0.4-2.55 / 1.05 / 0.01 \//.41
005	Sensitivity: ML	*ENG	[0 to 2.55 / 1.05 / 0.01 V/step]
006	Set Detection	*ENG	[0 to 5 / 1 / 0.1 V/step]
007	Without Developer	*ENG	[0 to 5 / 1.2 / 0.1 V/step]
008	With Developer	*ENG	[0 to 5 / 1.3 / 0.1 V/step]
009	Serial Number 1	*ENG	[0 to 255 / - / 1 V/step]
010	Serial Number 2	*ENG	[O to 233 / - / 1 v / step]
011	Adjustment: Vt	*ENG	[0 to 5 / 3 / 0.1 V/step]
012	Adjustment: Vtref	*ENG	[0 to 5 / 3 / 0.1 V/step]
013	Adjustment: Vtcnt	*ENG	[0 to 5 / 4 / 0.01 V/step]
014	Adjustment: Gamma	*ENG	[0 to 2.55 / 0 / 0.01 mg/cm ² /kV /step]
015	Adjustment: Vcnt Result	*ENG	[0 to 9 / 9 / 1 /step]

2000	[Toner Collection Bottle Full De	etection]			
3800	Displays/ adjusts the toner collection bottle detection settings. These SPs are used for NRS.				
001	Condition	*CTL	[0 to 4 / 0 / 1 /step]		
002	Detection Times	*CTL	[0 to 50 / - / 1 /step]		
003	Print Page After Near Full	*CTL	[0 to 1000 / 0 / 1 sheet/step]		
004	Pixel Count After Near Full	*CTL	[0 to 200000 / - / 1 cm ² /step]		

005	Pixel Count After Replacement	*CTL	Displays the pixel counter after replacement of toner collection bottle. [0 to 200000 / - / 1 cm ² /step]		
			-		
800	Coefficient	*ENG	[0.5 to 1.5 / 1 / 0.1 /step]		
			Enables or disables the calling for @Remote.		
	Notice Setting	*ENG	[0 or 1 / 1 / -]		
	140lice Selling	LINO	0: Enable @Remote calling		
011			1: Disable @Remote calling		
	NOTE:				
	If the toner collection bottle has been replaced before the machine detects used toner near full when this setting is set to "0", the machine cannot detect toner collection bottle near full. In that case, set SP3-902-017 to "1".				
	Day Threshold: Toner Collection bottle:NF	*ENG	[1 to 30 / 5 / 1 day/step]		
012	Sets the threshold days for the near-full display. The near-full of the toner collection bottle displayed after the toner collection full sensor has detected the actuator in the toner collection bottle.				
013	Total:Toner Collection Bottle	*ENG	Displays the total amount of the used toner. [0 to 9999999999 / - / 1]		
014	Mechanism Full Detection Date	*ENG	Displays the date of the full detection fot the toner collection bottle.		

3900	[Waste Toner Full Detection]		
3900	Turns toner collection bottle full detection on or off.		
001	ON/OFF Setting	*ENG	[0 or 1 / 1 / -] 0: OFF, 1: ON

3901	[New PCU Detection]				
3701	Turns new PCDU detection on or off.				
001	ON/OFF Setting	*ENG	[0 or 1 / 1 / -] 0: OFF, 1: ON		

	[Manual New Unit Set]			
3902	Turns the new unit detection flag for each PM unit on or off. The use of these counters is explained in the PM section and in the relevant parts of sec 3 (Replacement and Adjustment).			
001	Development Unit: Bk	*ENG		
002	Development Unit: Y	*ENG	[0 or 1 / 0 / -]	
003	Development Unit: C	*ENG	0: OFF, 1: ON	
004	Development Unit: M	*ENG		
005	Developer: Bk	*ENG		
006	Developer: Y	*ENG	[0 or 1 / 0 / -]	
007	Developer: C	*ENG	0: OFF, 1: ON	
800	Developer: M	*ENG		
009	PCU (Drum Unit): Bk	*ENG		
010	PCU (Drum Unit): Y	*ENG	[0 or 1 / 0 / -]	
011	PCU (Drum Unit): C	*ENG	0: OFF, 1: ON	
012	PCU (Drum Unit): M	*ENG		
013	Image Transfer Unit	*ENG	[0 or 1 / 0 / -]	
014	Fusing Unit	*ENG	0: OFF, 1: ON	
015	Cleaning Unit	*ENG	Do not use 3902-013 if you only change the cleaning unit.	
016	Paper Transfer Unit	*ENG	3902-015: This is for the image transfer belt	
017	Toner Collection Bottle	*ENG	cleaning unit.	
018	Fusing Roller (Heating Roller)	*ENG	[0 or 1 / 0 / -]	
019	Pressure Roller	*ENG	0: OFF, 1: ON "Fusing Roller" is designated as "Heating Roller" in this manual.	

Main SP Tables-4

SP4-XXX (Scanner)

4008	[Sub Scan Magnification Adjustment]				
4006	Adjusts the sub-scan magnification by changing the scanner motor speed.				
001		*ENG	[-1.0 to 1.0 / 0 / 0.1%/step] FA		

	[L-Edge Regist Adjustment] Adjusts the leading edge registration by changing the scanning start timing in the sub-scandirection.			
4010				
001	-	*ENG	[-2.0 to 2.0 / 0 / 0.1 mm/step] FA	

	[S-to-S Regist Adjustment]			
4011	Adjusts the side-to-side registration by changing the scanning start timing in the main sca direction.			
001	-	*ENG	[-2.5 to 2.5 / 0 / 0.1 mm/step] FA	

	[Scanner Erase Margin: Scale] Scanner: Erase Margin: Scale				
4012	Sets the blank margin at each side for erasing the original shadow caused by the gap between the original and the scale.				
001	Book: Leading Edge				
002	Book: Trailing Edge	*5.10	[0 to 3.0 / 0 / 0.1 mm/step] FA		
003	Book: Left	*ENG			
004	Book: Right				
005	ADF: Leading Edge				
007	ADF: Right	*ENG	[0 to 3.0 / 0 / 0.1 mm/step] FA		
008	ADF: Left				

	[Scanner Free Run]			
4013	Performs the scanner free run with the exposure lamp on or off in the following mode. Full color mode / Full Size / A3 or DLT			
001	Lamp: OFF	*ENG	[0 or 1 / 0 / -]	
002	Lamp: ON	LING	0: OFF, 1: ON	

4014	[Scan]			
4014	Execute the scanner free fun with each mode.			
001	HP Detection Enable	-	Scanner free run with HP sensor check.	
002	HP Detection Disable	-	Scanner free run without HP sensor check.	

4020	[Dust Check]		
001	Detection: ON/OFF	*ENG	Turns the ADF scan glass dust check on/ off. [0 or 1 / 0 / 1 /step] 0: OFF, 1: ON
002	Detection: Level	*ENG	Selects the detect level. [0 to 8 / 4 / 1 / step] 0: lowest detection level 8: highest detection level
003	Correction Level	*ENG	Selects the level of the sub scan line correction when using the ARDF. [0 to 4 / 0 / 1 /step] 0: Off 1: Weakest 2: Weak 3: Strong 4: Strongest
011	Dust Detect:On/Off:Rear	*ENG	Not used
012	Dust Detect:Lvl:Rear	*ENG	Not used

	[APS Operation Check]			
4301	Displays a code that represents the original size detected by the original sensors. (See "Input Check Table" in this section.)			
001	APS Operation Check	-	-	

[APS Min Size (A5/HLT/16K)]			
Specifies the result of the det	etection when the outputs from the original sensors are all OF		
APS Min. Size (A5/HLT/ 16K)	*ENG	[0 to 2 / 0 / 1 /step] 0: No Original 1: A5-Lengthwise (16K SEF if 4305 is set to 3)	
		2: A5-Sideways (16K LEF if 4305 is set to 3)	
	Specifies the result of the dete	Specifies the result of the detection whe	

4305	[8K/16K Detection]	*ENG	[0 to 3 / 0 / 1 /step] 0: Normal Detection (the machine detects A4/LT size as A4 or LT, depending on the paper size setting) 1: A4-Sideways LT-Lengthwise 2: LT-Sideways A4-Lengthwise 3: 8K 16K
001	This program enables the machine to automatically recognize the 8K/16K size.		

4308	[Scan Size Detection]		
001	Detection ON/OFF	*ENG	[0 or 1 / 1 / -] 0: OFF 1: ON
	Turns on or off the CCD origi	nal size detection. This detection is used only when an origin mode.	

4309	[Scan Size Detect:Setting]
4307	[Scall Size Delect.Selling]

	Original Density Thresh	*ENG	[0 to 255 / 32 / 1 digit/step]		
001	Specifies the threshold betwe size detection in book scanni	•	ginal area and non-original area for the scan original		
002	Detection Time	*ENG	[20 to 100 / 60 / 20 msec/step]		
	Specifies the detection time for	for the scan original size detection in book scanning mode.			
003	Lamp ON:Delay Time	*ENG	[0 to 200 / 40 / 20 msec/step]		
	Specifies the lamp on timing for the scan original size detection in book scanning mode.				

	[Scan Size Detect Value] Displays the detected value by CCD. Each detection point for paper size and color is displayed on the LCD.			
4310				
001	S1:R	*ENG		
002	\$1:G	*ENG		
003	S1:B	*ENG		
004	S2:R	*ENG		
005	\$2:G	*ENG	[0 to 255 / - / 1 digit/step]	
006	S2:B	*ENG		
007	S3:R	*ENG		
008	\$3:G	*ENG		
009	S3:B	*ENG		

		[Scanner Erase Margin]	*ENG			
Set the Mask for Original.						
		These SPs set the area to be masked during platen (book) mode scanning.				

001	Book: Leading Edge	
002	Book: Trailing Edge	
003	Book: Left	
004	Book: Right	[0 to 3.0 / 0 / 0.1 mm/step]
005	ADF: Leading Edge	
007	ADF: Right	
008	ADF: Left	

4417	[IPU Test Pattern]		
4417	Selects the IPU test pattern.		
001	Test Pattern Selection	[0 to 24 / 0 / 1/step]	
	0: Scanned image 1: Gradation main scan A 2: Gradation main scan B 3: Gradation main scan C 4: Gradation main scan D 5: Gradation sub scan (1) 6: Grid pattern 7: Slant grid pattern 8: Gradation RGBCMYK 9: UCR pattern 10: Color patch 16 (1) 11: Color patch 64	13: Grid pattern CMYK 14: Color patch CMYK 15: Gray pattern (1) 16: Gray pattern (2) 17: Gray Pattern (3) 18: Shading pattern 19: Thin line pattern 20: Scanned + Grid pattern 21: Scanned + Gray scale 22: Scanned + Color patch 23: Scanned + Slant Grid C 24: Scanned + Slant Grid D	

4429	[Illegal Copy Output]		
001	Сору		
002	Scanner	*ENG	[0 to 3 / 3 / 1 /step]
003	Fax		

4450	[Scan Image Path Selection]		
001	Black Subtraction ON/OFF [0 or 1 / 1 / -] 0: OFF, 1: ON		
001	Uses or does not use the black reduction image path.		
000	SH ON/OFF [0 or 1 / 0 / 1 /step] 0: ON, 1: OFF		
002	Uses or does not use the shading image path.		

4501	[ACC Target Density]				
4301	Selects the ACC result.				
001	Copy: K: Text	*ENG			
002	Copy: C: Text	*ENG			
003	Copy: M: Text	*ENG			
004	Copy: Y: Text	*ENG	[0 to 10 / 5 / 1 /step]		
005	Copy: K: Photo	*ENG	10: Darkest density		
006	Copy: C: Photo	*ENG			
007	Copy: M: Photo	*ENG			
008	Copy: Y: Photo	*ENG			

4505	[ACC Cor:Bright]			
4505	Adjusts the offset correction for light areas of the ACC pattern.			
001	Text:K	*ENG		
002	Text:C	*ENG	[-128 to 127 / 0 / 1 /step]	
003	Text:M	*ENG	[-12010127 / 0 / 1 / siep]	
004	Text:Y	*ENG		
005	Photo:K	*ENG		
006	Photo:C	*ENG	[-128 to 127 / 0 / 1 /step]	
007	Photo:M	*ENG	[-1201012/ 0 / 1 / sieb]	
008	Photo:Y	*ENG		

4504	[ACC Cor:Dark]			
4506	Adjusts the offset correction for dark areas of the ACC pattern.			
001	Text:K	*ENG		
002	Text:C	*ENG	[-128 to 127 / 0 / 1 /step]	
003	Text:M	*ENG	[-12616127 / 0 / 1 / step]	
004	Text:Y	*ENG		
005	Photo:K	*ENG		
006	Photo:C	*ENG	[-128 to 127 / 0 / 1 /step]	
007	Photo:M	*ENG	[-1201012/ U / 1/step]	
008	Photo:Y	*ENG		

	[Printer Vector Correction]				
4540	This SP corrects the printer coverage of 12 hues (RY, YR, YG, etc. x 4 Color Option]) for a total of 48 parameters.				
001-004	RY Phase: Option/R/G/B				
005-008	YR Phase: Option/R/G/B				
009-012	YG Phase: Option/R/G/B				
013-016	GY Phase: Option/R/G/B				
017-020	GC Phase: Option/R/G/B				
021-024	CG Phase: Option/R/G/B	*ENG	Specifies the printer vector correction value.		
025-028	CB Phase: Option/R/G/B		[0 to 255 / 0 / 1 /step]		
029-032	BC Phase: Option/R/G/B				
033-036	BM Phase: Option/R/G/B				
037-040	MB Phase: Option/R/G/B				
041-044	MR Phase: Option/R/G/B				
045-048	RM Phase: Option/R/G/B				

4600	[SBU Version Display]		
001	SBU_ID	-	Displays the ID of the SBU.
002	GASBU-N_ID	-	Displays the ID of the GASBU.
003	VSP5100_ID	-	Displays t he ID of the VSP5100.

4602	[Scanner Memory Access]		
001	Scanner Memory Access	-	Enables the read and write check for the SBU registers.
002	Address Set	-	Not used
003	Data Set	-	INOI usea

4603	[AGC Execution]		
001	HP Detection Enable	-	Executes the AGC.
002	HP Detection Disable	-	DFU

4609	[Gray Balance Set: R]		
001	Book Read	-	[-512 to 511 / -46 / 1 digit/step]
002	DF Read	-	[-512 to 511 / -46 / 1 digit/step]

4610	[Gray Balance Set: G]		
001	Book Read		[-512 to 511 / -20 / 1 digit/step]
002	DF Read	-	[-312 to 311 / -20 / 1 digit/step]

4611	[Gray Balance Set: B]			
001	Book Read		[510, 511 / 00 / 1 1 1 1	
002	DF Read	-	[-512 to 511 / -28 / 1 digit/step]	

4400	[Black Level Fine Adj. Display]	
4623	RE: Red Even signal, RO: Red Odd signal	

001	Latest: RE Color	-	Displays the black offset value (rough adjustment) for the even red signal in the CCD circuit board (color printing speed). [0 to 16383 / 0 / 1 digit/step]
002	Latest: RO Color	-	Displays the black offset value (rough adjustment) for the odd red signal in the CCD circuit board (color printing speed). [0 to 16383 / 0 / 1 digit/step]

4624	[Black Level Rough Adj. Display] GE: Green Even signal, GO: Green Odd signal			
001	Latest: GE Color	Displays the black offset value (rough adjustment) for the even green signal in the CCD circuit board (color printing speed). [0 to 16383 / 0 / 1 digit/step]		
002	Latest: GO Color	Displays the black offset value (rough adjustment) for the odd green signal in the CCD circuit board (color printing speed). [0 to 16383 / 0 / 1 digit/step]		

4625	[Black Level Rough Adj. Display] BE: Blue Even signal, BO: Blue Odd signal				
001	Latest: BE Color	-	Displays the black offset value (rough adjustment) for the even blue signal in the CCD circuit board (color printing speed). [0 to 16383 / 0 / 1 digit/step]		
002	Latest: BO Color	-	Displays the black offset value (rough adjustment) for the odd blue signal in the CCD circuit board (color printing speed). [0 to 16383 / 0 / 1 digit/step]		

4628	[Analog Gain Adjustment]				
4020	Displays the gain value of the amplifiers on the controller for Red.				
001	Latest: R Color	-	[0 to 7 / 0 / 1 digit/step]		

4629	[Analog Gain Adjustment]				
4029	Displays the gain value of the amplifiers on the controller for Green.				
001	Latest: G Color	-	[0 to 7 / 0 / 1 digit/step]		

4630	[Analog Gain Adjustment]				
4030	Displays the gain value of the amplifiers on the controller for Blue.				
001	Latest: B Color - [0 to 7 / 0 / 1 digit/step]				

	4631	[Digital Gain Adjustment]			
		Displays the gain value of the amplifiers on the controller for Red.			
	001	Latest: RE Color	-	[0 to 1023 / 0 / 1 digit/step]	
	002	Latest: RO Color	-		

4632	[Digital Gain Adjustment]				
4032	Displays the gain value of the amplifiers on the controller for Green.				
001	Latest: GE Color	-	[0 to 1023 / 0 / 1 digit/step]		
002	Latest: GO Color	-	[U to 1023 / U / 1 algit/ step]		

	4633	[Digital Adjustment]				
		Displays the gain value of the amplifiers on the controller for Blue.				
	001	Latest: BE Color	-	[0 to 1023 / 0 / 1 digit/step]		
	002	Latest: BO Color	-			

4645	[Scan Adjust Error]		
001	White level	-	[0 to 65535 / 0 / 1 digit/step]
002	Black level	-	

4647	[Read Hard Error]				
4047	Displays the result of the SBU o	plays the result of the SBU connection check.			
001	Power-ON	-	[0 to 35535 / 0 / 1 digit /step] 0: OK, Other: SBU connection check failure If the SBU connection check fails, SC144 occurs.		

4654	[Black Level Adj. Display] RE: Red Even signal, RO: Red Odd signal			
001	Last Correct Value: RE Color *ENG		Displays the black offset value for the even red signal in the CCD circuit board (color printing speed). [0 to 16383 / 0 / 1 digit/step]	
002	Last Correct Value: RO Color	*ENG	Displays the black offset value for the odd red signal in the CCD circuit board (color printing speed). [0 to 16383 / 0 / 1 digit/step]	

4655	[Black Level Adj. Display] GE: Green Even signal, GO: Green Odd signal			
001	Last Correct Value: GE Color	*ENG	Displays the black offset value for the even green signal in the CCD circuit board (color printing speed). [0 to 16383 / 0 / 1 digit/step]	
002	Last Correct Value: GO Color	*ENG	Displays the black offset value for the odd green signal in the CCD circuit board (color printing speed). [0 to 16383 / 0 / 1 digit/step]	

4656	[Black Level Adj. Display]
4030	BE: Blue Even signal, BO: Blue Odd signal

001	Last Correct Value: BE Color	*ENG	Displays the black offset value for the even blue signal in the CCD circuit board (color printing speed). [0 to 16383 / 0 / 1 digit/step]
002	Last Correct Value: BO Color	*ENG	Displays the black offset value for the odd blue signal in the CCD circuit board (color printing speed). [0 to 16383 / 0 / 1 digit/step]

[Analog Gain Adjustment]						
	4036	Displays the previous gain value of the amplifiers on the controller for Red.				
	001	Last Correct Value: RE Color	*ENG	[0 to 7 / 0 / 1 digit/step]		

[Analog Gain Adjustment]				
4039	Displays the previous gain value of the amplifiers on the controller for Green.			
001	Last Correct Value: GE Color *ENG [0 to 7 / 0 / 1 digit/step]		[0 to 7 / 0 / 1 digit/step]	

[Analog Gain Adjustment] Displays the previous gain value of the amplifiers on the controller for Blue.				

46	561	[Digital Gain Adjustment] RE: Red Even signal, RO: Red Odd signal		
	001	Last Correct Value: RE Color	*ENG	[0 to 1023 / 0 / 1 digit/step]
	002	Last Correct Value: RO Color	*ENG	[0 to 1023 / 0 / 1 aigit/step]

4662	[Digital Gain Adjustment] GE: Green Even signal, GO: Green Odd signal		
001	Last Correct Value: GE Color	*ENG	[0 to 1022 / 0 / 1 dinit /ston]
002	Last Correct Value: GO Color	*ENG	[0 to 1023 / 0 / 1 digit/step]

4663	[Digital Gain Adjustment] BE: Blue Even signal, BO: Blue Odd signal		
001	Last Correct Value: BE Color	*ENG	[0 1022 / 0 / 1 di-it/]
002	Last Correct Value: BO Color	*ENG	[0 to 1023 / 0 / 1 digit/step]

4673	[Black Level Adj. Display] RE: Red Even signal, RO: Red Odd signal			
001	Factory Setting: RE Color	*ENG	Displays the factory setting values of the black level adjustment for the even red signal in the CCD circuit board (color printing speed) [0 to 16383 / 0 / 1 digit/step]	
002	Factory Setting: RO Color	*ENG	Displays the factory setting values of the black level adjustment for the odd red signal in the CCD circuit board (color printing speed). [0 to 16383 / 0 / 1 digit/step]	

4674	[Black Level Adj. Display] GE: Green Even signal, GO: Green Odd signal				
001	Factory Setting: GE Color	*ENG	Displays the factory setting values of the black level adjustment for the even green signal in the CCD circuit board (color printing speed). [0 to 16383 / 0 / 1 digit/step]		
002	Factory Setting: GO Color	*ENG	Displays the factory setting values of the black level adjustment for the odd green signal in the CCD circuit board (color printing speed). [0 to 16383 / 0 / 1 digit/step]		

4675		[Black Level Adj. Display] BE: Blue Even signal, BO: Blue Odd signal				
00	1 Factory Setting: BE	E Color	*ENG	Displays the factory setting values of the black level adjustment for the even blue signal in the CCD circuit board (color printing speed). [0 to 16383 / 0 / 1 digit/step]		

002	Factory Setting: BO Color	*ENG	adjust	ays the factory setting values of the black level tment for the odd blue signal in the CCD circuit d (color printing speed). 16383 / 0 / 1 digit/step]			
4677	[Analog Gain Adjustment]						
	Displays the factory setting	values c	of the gain	adjustment for Red.			
001	Factory Setting: RE Color		*ENG	[0 to 7 / 0 / 1 digit/step]			
	[Analog Gain Adjustment]						
4678	Displays the factory setting	Displays the factory setting values of the gain adjustment for Green.					
001	Factory Setting: GE Color		*ENG	[0 to 7 / 0 / 1 digit/step]			
4679	[Analog Gain Adjustment]						
407 7	Displays the factory setting values of the gain adjustment for Blue.						
001	Factory Setting: BE Color		*ENG	[0 to 7 / 0 / 1 digit/step]			
	[Digital Gain Adjustment]						
4680	Displays the gain value of th	ne ampl	ifiers on the	e controller for Red.			
001	Factory Setting: RE Color		*ENG				
002	Factory Setting: RO Color		*ENG	[0 to 1023 / 0 / 1 digit/step]			
	[Digital Gain Adjustment]						
4681	Displays the gain value of the amplifiers on the controller for Green.						
001	Factory Setting: GE Color		*ENG				
002	Factory Setting: GO Color		*ENG	[0 to 1023 / 0 / 1 digit/step]			
			-				
4682	[Digital Gain Adjustment]						
	Displays the gain value of the	ne ampl	ifiers on the	e controller for Blue.			

001	Factory Setting: BE Color	*ENG	[0 to 1023 / 0 / 1 digit/step]
002	Factory Setting: BO Color	*ENG	

	[Scan Image Density Adjustment]				
4688	Adjusts the white shading parameter when scanning an image with the ARDF or 1-pass DF. Adjusts the density level if the ID of outputs made in the DF and Platen mode is different.				
001	ARDF	*ENG	[50 to 150 / 98 / 1%/ step]		
002	1-pass DF	*ENG	[50 to 150 / 98 / 1%/ step]		

4690	[White Level Peak Read]				
4090	Displays the peak level of the white level scanning.				
001	RE	-	[01002 / 0. / 1.		
002	RO	-	[0 to 1023 / 0 / 1 digit/step]		

	4691	[White Level Peak Read]				
Displays the peak level of the white level scanning.						
	001	GE	-	[0 + 1002 / 0 / 1 dinit/+1		
	002	GO	-	[0 to 1023 / 0 / 1 digit/step]		

4692	[White Level Peak Read]				
Displays the peak level of the white level scanning.					
001	BE	-	[0 to 1022 / 0 / 1 digit/stop]		
002	ВО	-	[0 to 1023 / 0 / 1 digit/step]		

4693	[Black Level Peak Read]				
Displays the peak level of the black level scanning.					
001	RE	-	[0 +- 1022 / 0 / 1 dimit/++]		
002	RO	-	[0 to 1023 / 0 / 1 digit/step]		

4694	[Black Level Peak Read]				
Displays the peak level of the black level scanning.					
001	GE	-	[0 to 1000 / 0 / 1 distallation]		
002	GO	-	[0 to 1023 / 0 / 1 digit/step]		

4695	[Black Level Peak Read]				
Displays the peak level of the black level scanning.					
001	BE	-	[01002 / 0. / 1.		
002	ВО	-	[0 to 1023 / 0 / 1 digit/step]		

4802	[DF Shading FreeRun]		
001	Lamp OFF		Executes the scanner free run of shading movement
002	Lamp ON	-	with exposure lamp on or off. Press "OFF" to stop this free run. Otherwise, the free run lasts.

4	804	[Home Position]		
	001	-	-	Executes the scanner HP detection.

4806	[Carriage Save]		
001	-	-	Moves the carriage from the scanner home position. Dust may fall through the DF exposure glass. Therefore, do this SP when you transport the machine a long distance.

4807	[SBU Test Pattern Change]
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001	-	-	[0 to 250 / 0 / 1 /step] 1: Grid pattern 2: Gradation main scan
			3: Gradation sub scan
			4 to 250: Default (Scanning Image)

4808	[Factory Setting Input]		
002	Execution Flag	-	[0 or 1 / 0 / 1 /step]

	[ACC Data Display]					
4902	This SP outputs the final data read at the end of ACC execution.					
4702	A zero is returned if there was an error reading the data.					
	[0 to 255 / 0 / 1 /step]					
001	001 R DATA1 *ENG		Photo C Patch Level 1 (8-bit)			
002	002 G DATA1 *ENG 003 B DATA1 *ENG 004 R DATA2 *ENG 005 G DATA2 *ENG		Photo M Patch Level 1 (8-bit)			
003			Photo Y Patch Level 1 (8-bit)			
004			Photo C Patch Level 17 (8-bit)			
005			Photo M Patch Level 17(8-bit)			
006	B DATA2	*ENG	Photo Y Patch Level 17 (8-bit)			

	[Manual Gamma Adj]				
4918	Adjusts the offset data of the printer gamma for yellow in Photo mode. See "Printer Gamma Correction" in the Replacement and Adjustment for how to use.				
009	-	-	Enter the manual gamma adjustment screen (-001 to 008). For details, see the "Printer Gamma Correction" in the section "Replace and Adjustment".		

4954	[Read/Restore Std]		
001	Read New Chart	-	Execute the scanning of the A4 chart.

002	Recall Prev Chart	-	Clear the data of the scanned A4 chart.
003	Read Std Chart	-	Execute the scanning of the A4 standard chart.
004	Set Std Chart	-	Overwrite the standard data.

	[IPU Image Path Selection]					
4991	Selects the image path.					
	Enter the number to be selected using the 10-key pad.					
	RGB Frame Memory	*ENG	[0 to 11 / 2 / 1 /step]			
	0: Scanner input RGB images					
001	1: Scanner I/F RGB images					
	2: RGB images done by Shading correction (Shading ON, Black offset ON)					
	3: Shading data					
	4 to 11: Not used					

4993	[High Light Correction]		
001	Sensitivity Selection	*ENG	Selects the Highlight correction level. [0 to 9 / 4 / 1 / step] 0: weakest sensitivity 9: strongest sensitivity
002	Range Selection	*ENG	Selects the range level of Highlight correction. [0 to 9 / 4 / 1 /step] 0: weakest skew correction, 9: strongest skew correction

4994	[Text/Photo Detection Level Adj.]			
4994	Selects the definition level betw	veen Text a	ext and Photo for high compression PDF.	
001	PDF Sensitivity Level text/ photo	*ENG	[0 to 2 / 1 / 1 /step] 0: Text priority 1: Normal 2: Photo priority	

Main SP Tables-5

SP5-XXX (Mode)

5024	[mm/inch Display Selection]		
3024	Display units (mm or inch) for custom paper sizes.		
001	O:mm 1:inch	*CTL	0: mm (Europe/Asia) 1: inch (USA)

	[Accounting Counter]				
Selects the counting method. NOTE: The counting method can be changed only once, regardless of whether the		anged only once, regardless of whether the counter			
	value is negative or positive.				
			[0 or 1 / 0 / -] 0: Developments		
001	Counter Method	*CTL	0: Developments		
			1: Prints		

5047	[Paper Display]		
3047	Turns on or off the printed paper display on the LCD.		y on the LCD.
001	-	*CTL	[0 or 1 / 0 / -] 0: OFF, 1: ON

5051	[TonerRefillDetectionDisplay]			
3031	Enables or disables the toner re	efill dete	ction display.	
			[0 or 1 / 0 / -] Alphanumeric	
50511	Toner Refill Detection Display	*CTL	0: ON	
			1: OFF	

5055	[Display IP Address]
3033	Display or does not display the IP address on the LCD.

001 -		*CTL	[0 or 1 / 0 / -] 0: OFF 1: ON
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5056	[Coverage Counter Display]		
3030	Display or does not display the coverage counter on the LCD.		ge counter on the LCD.
001	-	*CTL	[0 or 1 / 0 / -] 0: Not display, 1: Display

FO41	[Toner Remaining Icon Display Change]		
5061	Display or does not display the remaining toner display icon on the LCD.		ing toner display icon on the LCD.
001	-	*CTL	[0 or 1 / 0 / -] 0: Not display, 1: Display

5062	[Parts Replacement Alert Display]		
3002	Display or does not display the PM part yield on the LCD.		
001	Drum Unit: Bk	*CTL	
002	Drum Unit: M	*CTL	[0 or 1 / 1 / -]
003	Drum Unit: C	*CTL	0: Not display, 1: Display
004	Drum Unit: Y	*CTL	
005	Development Unit: Bk	*CTL	
006	Development Unit: M	*CTL	[0 or 1 / 1 / -]
007	Development Unit: C	*CTL	0: Not display, 1: Display
008	Development Unit: Y	*CTL	
009	Developer: Bk	*CTL	
010	Developer: M	*CTL	[0 or 1 / 1 / -]
011	Developer: C	*CTL	0: Not display, 1: Display
012	Developer: Y	*CTL	

013	Image Transfer Belt	*CTL	
014	Image Transfer Cleaning Unit	*CTL	
015	Fusing Unit	*CTL	
016	Paper Transfer Roller Unit	*CTL	[0 or 1 / 1 / -] 0: Not display, 1: Display
017	Waster Toner Bottle	*CTL	o. Prof. display, T. Display
018	Fusing Roller (Heating Roller)	*CTL	
019	Pressure Roller	*CTL	

5066	[Parts PM Menu Display Setting] Display or does not display the "PM parts" button on the LCD.		
001	-	*CTL	[0 or 1 / 1 / -] 0: Not display, 1: Display

	[Parts PM System Setting]			
Selects the service maintenance or user maintenance for each PM parts. If the user service is selected, PM alert is displayed on the LCD.			'	
001	PCU (Drum Unit):Bk	*CTL	,	
002	PCU (Drum Unit):M	*CTL	FO. C 1. [1, 11, 1	
003	PCU (Drum Unit):C	*CTL	[0: Service] or [1: User]	
004	PCU (Drum Unit):Y	*CTL		
005	Dev Unit:Bk	*CTL		
006	Dev Unit:M	*CTL	[0: Service] or [1: User]	
007	Dev Unit:C	*CTL	[O. Service] or [1. Oser]	
008	Dev Unit:Y	*CTL		

009	Developer:Bk	*CTL	
010	Developer:M	*CTL	[0. Sanisa] an [1.]
011	Developer:C	*CTL	[0: Service] or [1: User]
012	Developer:Y	*CTL	
013	Int Trans Unit	*CTL	[0: Service] or [1: User]
014	Belt Cleaning Unit	*CTL	[0: Service] or [1: User]
015	Fusing Unit	*CTL	[0: Service] or [1: User]
016	Transfer Roller	*CTL	[0: Service] or [1: User]
017	WasteToner Bottle	*CTL	[0: Service] or [1: User]
018	Fusing Roller (Heating Roller)	*CTL	[0: Service] or [1: User]
019	Pressure Roller	*CTL	[0: Service] or [1: User]

5104*	A3/DLT Double Count (SSP)
	Specifies whether the counter is doubled for A3/DLT. "Yes" counts except from the bypass tray. When "Yes" is selected, A3 and DLT paper are counted twice, that is A4 x2 and LT x2 respectively.

5071	[Set Bypass Paper Size]		
_ *		*CTL	[0 or 1 / 0 / -] 0: Off, 1: On
001	Turn on or off the paper size confirmation pop-up on the LED. This pop-up prevents mismatching between a paper size selected by the operation panel and an actual paper size on the by-pass tray.		

5113	[Optional Counter Type]
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001	Default Optional Counter Type	*CTL	This program specifies the counter type. O: None, 1: Key card (RK 3, 4) 2: Key card (down), 3: Prepaid card 4: Coin rack, 5: MF key card 8: Key counter + Vendor 9: Bar-code Printer
002	External Optional Counter Type	*CTL	This program specifies the external counter type. 0: None 1: Expansion Device 1 2: Expansion Device 2 3: Expansion Device 3

5114	[Optional Counter I/F]				
001	MF Key Card Extension	*CTL	[0: Not installed/ 1: Installed (scanning accounting)]		
5118	[Disable Copying] *CTL [0: Not disabled/ 1: Disabled]				
001	This program disables copying.				
5120	[Mode Clear Opt. Counter Removal]	*CTL	[0: Yes (removed)/ 1: Standby (installed but not used)/ 2: No (not removed)]		
001	This program updates the information on the optional counter. When you install or remove an optional counter, check the settings.				

5121	[Counter Up Timing]	*CTL	[0: Feed/ 1: Exit]
001	This program specifies when th	e counte	r goes up. The settings refer to "paper feed" and

5126 [F Size Original Setting]	*ENG	[0 to 2 / 0 / 1 /step] 0: 8 1/2" x 13" (Foolscap) 1: 8 1/4" x 13" (Folio) 2: 8" x 13" (F)
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001	Selects F size original setting.			
5127	[APS Mode]	*CTL	[0: Not disabled/ 1: Disabled]	
001	This program disables the APS.			
5131	[Paper Size Type Selection]	*ENG	[0: JP (Japan)/ 1: NA / 2: EU]	
()()	The program selects a paper siz the LT system (1), and the AF sys	•	from the following alternatives: the AB system (0),	
5148	Size Detection Off	*CTL	[0: OFF/ 1: ON]	
	0: Detecte 1: Not Detecte			
5150	[By-Pass Length Setting]	*CTL	[0: OFF/ 1: ON]	
001	Determines whether the transfer sheet from the by-pass tray is used or not. Normally the paper length for sub scanning paper from the by-pass tray is limited to 600 mm, but this can be extended with this SP to 1260 mm.			
5162	[App. Switch Method]	*CTL	[0: Soft Key Set/ 1: Hard Key Set]	
001		This program specifies the switch that selects an application program.		
	1			
	[Fax Printing Mode at Optiona	l]		
5167	Enables or disables the automatic print out without an accounting device. This SP is used when the receiving fax is accounted by an external accounting device.			
001	Fax Printing Mode at Optional Counter Off	*CTL	[0 or 1 / 0 / -] 0: Automatic printing 1: No automatic printing	
	[CE Login]			
5169	If you will change the printer bit switches, you must 'log in' to service mode with this SP before you go into the printer SP mode.			

			[0 or 1 / 0 / -]
001	CE Login	*CTL	0: Disabled
			1: Enabled

5181	[Size Adjust]			
3101	Adjusts the paper size for each tray.			
001	Paper TRAY 1	*ENG	[0 to 3 / 0 (EU/ASIA), 1 (NA) / 1 /step] 0: A4 LEF, 1: LT LEF, 2: B5 LEF, 3: A5 LEF	
002	TRAY 2: 1	*ENG	[0 or 1 / 0 (EU/ASIA), 1 (NA) / -] 0: A4 LEF, 1: LT LEF	
003	TRAY 2: 2	*ENG	[0 or 1 / 0 (EU/ASIA), 1 (NA) / -] 0: A3, 1: DLT	
004	TRAY 2: 3	*ENG	[0 or 1 / 0 (EU/ASIA), 1 (NA) / -] 0: B4, 1: LG	
005	TRAY 2: 4	*ENG	[0 or 1 / 0 (EU/ASIA), 1 (NA) / -] 0: B5 LEF, 1: Exe LEF	
006	TRAY 3/T-LCT: 1	*ENG	[0 or 1 / 0 (EU/ASIA), 1 (NA) / -] 0: A4 LEF, 1: LT LEF	
007	TRAY 3: 2	*ENG	[0 or 1 / 0 (EU/ASIA), 1 (NA) / -] 0: A3, 1: DLT	
008	TRAY 3: 3	*ENG	[0 or 1 / 0 (EU/ASIA), 1 (NA) / -] 0: B4, 1: LG	
009	TRAY 3: 4	*ENG	[0 or 1 / 0 (EU/ASIA), 1 (NA) / -] 0: B5 LEF, 1: Exe LEF	
010	TRAY 4: 1	*ENG	[0 or 1 / 0 (EU/ASIA), 1 (NA) / -] 0: A4 LEF, 1: LT LEF	
011	TRAY 4: 2	*ENG	[0 or 1 / 0 (EU/ASIA), 1 (NA) / -] 0: A3, 1: DLT	

012	TRAY 4: 3	*ENG	[0 or 1 / 0 (EU/ASIA), 1 (NA) / -] 0: B4, 1: LG
013	TRAY 4: 4	*ENG	[0 or 1 / 0 (EU/ASIA), 1 (NA) / -] 0: B5 LEF, 1: Exe LEF
018	LCT	*ENG	[0 to 2 / 0 (EU/ASIA), 1 (NA) / -] 0: A4LEF, 1: LTLEF, 2: B5LEF

	[RK 4]			
5186	Enables or disables the prevention for RK4 (accounting device) disconnection.			
	If the RK4 is disconnected for 10 seconds when this SP is set to "1 (Enable)", the machine automatically jams a sheet of paper and stops.			
			[0 or 1 / 0 / 1/step]	
001	-	*ENG	0: Disable	
			1: Enable	

5188	[Copy NvVersion]			
3100	Displays the version number of the NVRAM on the controller board.			
001	-	-	-	

5193	[External Controller Info. Settings]				
	Sets the external controller type. This setting is appropriately adjusted if an external controller is installed in the machine.				
	[0 to 10 / 0 / 1/step]				
001	0: No external controller installed				
	1: EFI controller				
	2: Ratio controller				
	3: Egret controller				
	4 to 10: Reserved				

5199	[Paper Exit After Staple End.]
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001	-	*CTL	[0 or 1 / 0 / -] 0: OFF, 1: ON
	Enables or disables the paper feeding out from the finisher without stapling. If this setting is "1: ON", paper is fed out without stapling at the maximum number of the finisher stapling when the machine gets a multiple printing job (over maximum number).		
	 If this setting is "0: OFF", paper is fed out with stapling at the maximum number of the finisher stapling when the machine gets a multiple printing job (over maximum number). 		

5212	[Page Numbering]	*CTL	
	This program adjusts the position A "- value" moves the page number positions to the right ed	ımber po	second side page numbers. sitions to the left edge. A "+ value" moves the page
003	Duplex Printout Right/Left Position	[-10 to	o 10 / 0 / 1 mm/step]
004	Duplex Printout High/Low Position	[-10 to	o 10 / 0 / 1 mm/step]

	[Set Time]				
	Adjusts the RTC (real time clock) time setting for the local time zone.				
	Examples: For Japan (+9 GMT), enter 540 (9 hours x 60 min.)				
	DOM: +540 (Tokyo)				
5302	NA: -300 (New York)				
	EU: + 60 (Paris)				
	CH: +480 (Peking)				
	TW: +480 (Taipei)				
	AS: +480 (Hong Kong)				
002	Time Difference	*CTL #	[-1440 to 1440 / Area / 1 min./step]		

5307	[Summer Time]
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	Setting		[0 to 1 / NA, EU, ASIA / 1 /step] 0: Disabled 1: Enabled		
001			NA and EUR: 1, ASIA: 0		
001	Enables or disables the summe	Enables or disables the summer time mode.			
	UNote				
	Make sure that both SP5- activated even if this SP is		and -4 are correctly set. Otherwise, this SP is not		
	Rule Set (Start)				
	Specifies the start setting for the summer time mode.				
	There are 8 digits in this SP. For months 1 to 9, the "0" cannot be input in the first digit, so the eight-digit setting for -2 or -3 becomes a seven-digit setting.				
	1st and 2nd digits: The month. [1 to 12]				
003	3rd digit: The week of the month. [1 to 5]				
003	4th digit: The day of the week. [0 to 6 = Sunday to Saturday]				
	5th and 6th digits: The hour. [00 to 23]				
	7th digit: The length of the advanced time. [0 to 9 / 1 hour /step]				
	8th digit: The length of the advanced time. [0 to 5 / 10 minutes /step]				
	The digits are counted from the left.				
	Make sure that SP5-307-1 is set to "1".				
	For example: 3500010 (EU d	efault)			
	The timer is advanced by 1 hour at am 0:00 on the 5th Sunday in March				

Rule Set (End) - -

Specifies the end setting for the summer time mode.

There are 8 digits in this SP.

1st and 2nd digits: The month. [1 to 12]

3rd digit: The week of the month. [0 to 5]

4th digit: The day of the week. [0 to 7 = Sunday to Saturday]

5th and 6th digits: The hour. [00 to 23]

The 7th and 8 digits must be set to "00".

- The digits are counted from the left.
- Make sure that SP5-307-1 is set to "1".

5404	[User Code Count Clear]	
001	UCodeCtrClr	Clears all counters for users.

5411	[LDAP Certification]		
004	Easy Certification	*CTL	Determines whether easy LDAP certification is done. [0 or 1 / 1 / -] 1: On, 0: Off
005	Password Null Not Permit	*CTL	This SP is referenced only when SP5411-4 is set to "1" (On). [0 or 1 / 0 / -] O: Password NULL not permitted. 1: Password NULL permitted.
006	Detail Option	*CTL	Determines whether LDAP option (anonymous certification) is turned on or off. BitO 0: OFF, 1: ON

5413 [Lockout Setting]

001	Lockout On/Off	*CTL	Switches on/off the lock on the local address book account. [0 or 1 / 0 / -] 0: Off, 1: On
002	Lockout Threshold	*CTL	Sets a limit on the frequency of lockouts for account lockouts. [1 to 10 / 5 / 1/step]
003	Cancellation On/Off	*CTL	Determines whether the system waits the prescribed time for input of a correct user ID and password after an account lockout has occurred. [0 or 1 / 0 / -] 0: Off (no wait time, lockout not cancelled) 1: On (system waits, cancels lockout if correct user ID and password are entered.
004	Cancellation Time	*CTL	Determines the length of time that the system waits for correct input of the user ID and password after a lockout has occurred. This setting is used only if SP5413-3 is set to "1" (on). [1 to 999 / 60 / 1 min./step]
005	Counter Clear Time	*CTL	Not Used

5414	[Access Mitigation]			
001	Mitigation On/Off	*CTL	Switches on/off masking of continuously used IDs and passwords that are identical. [0 or 1 / 0 / -] 0: Off, 1: On	
002	Mitigation Time	*CTL	Sets the length of time for excluding continuous access for identical user IDs and passwords. [0 to 60 / 15 / 1 min./step]	

5415	[Password Attack]	
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001	Permissible Number	*CTL	Sets the number of attempts to attack the system with random passwords to gain illegal access to the system. [0 to 100 / 30 / 1 attempt/step]
002	Detect Time	*CTL	Sets the time limit to stop a password attack once such an attack has been detected. [1 to 10 / 5 / 1 sec./step]

5416	[Access Information]			
001	Access User Max Num	*CTL	Limits the number of users used by the access exclusion and password attack detection functions. [50 to 200 / 200 / 1 users/step]	
002	Access Password Max Num	*CTL	Limits the number of passwords used by the access exclusion and password attack detection functions. [50 to 200 / 200 / 1 password/step]	
003	Monitor Interval	*CTL	Sets the processing time interval for referencing user ID and password information. [1 to 10 / 3 / 1 sec./step]	

5417	[Access Attack]			
001	Access Permissible Number	*CTL	Sets a limit on access attempts when an excessive number of attempts are detected for MFP features. [0 to 500 / 100 / 1/step]	
002	Attack Detect Time	*CTL	Sets the length of time for monitoring the frequency of access to MFP features. [10 to 30 / 10 / 1 sec./step]	
003	Productivity Fall Wait	*CTL	Sets the wait time to slow down the speed of certification when an excessive number of access attempts have been detected. [0 to 9 / 3 / 1 sec./step]	

	004	Attack Max Num	*CTL	Sets a limit on the number of requests received for certification in order to slow down the certification speed when an excessive number of access attempts have been detected. [50 to 200 / 200 / 1 attempt/step]	
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	for a language					
	[User Authentication]					
5420	These settings should be done with the System Administrator.					
	Note: These functions are end	abled on	ly after the user access feature has been enabled.			
001	Сору	*CTL	Determines whether certification is required before a user can use the copy applications. [0 to 1 / 0 / 1] 0: On, 1: Off			
	Color Security Setting	*CTL	-			
	Enables or disables the color copy limitation for each copy mode when the user authentication is "ON".					
	0: Enable (default), 1: Disable					
002	BitO: B/W mode					
332	Bit1: Mono color mode					
	Bit2: Two colors mode					
	Bit3: Full color mode					
	Bit4: Automatic color mode					
	Bit5 to 7: Reserved					
011	DocumentServer	*CTL	Determines whether certification is required before a user can use the document server. [0 or 1/0/1] 0: On, 1: Off			
021	Fax	*CTL	Determines whether certification is required before a user can use the fax application. [0 or 1/0/1] 0: On, 1: Off			

031	Scanner	*CTL	Determines whether certification is required before a user can use the scan applications. [0 or 1/0/1] 0: On, 1: Off
041	Printer	*CTL	Determines whether certification is required before a user can use the printer applications. [0 or 1/0/1] 0: On, 1: Off
051	SDK1	*CTL	[0 or 1 / 0 / 1] 0: ON. 1: OFF
061	SDK2		Determines whether certification is required before
071	SDK3		a user can use the SDK application.

E 40.1	[Authentication Error Code]				
5481	These SP codes determine how the authentication failures are displayed.				
001	System Log Disp	*CTL	Determines whether an error code appears in the system log after a user authentication failure occurs. [0 or 1/0/1] 0: Off, 1: On		
002	Panel Disp	*CTL	Determines whether an error code appears on the operation panel after a user authentication failure occurs. [0 or 1/1/1] 1: On, 0: Off		

5490	[MF KeyCard (Japan only)]				
001	Job Permit Setting	*CTL	Sets up operation of the machine with a keycard. [0 to 1 / 0 / 1] 0: Disabled. Cancels operation without a user code. 1: Enabled. Allows operation without a user code.		
002	Count Mode Setting	*CTL	-		

5501	[PM Alarm]	*CTL	-	
001	PM Alarm Level	[0 to 9999 / 0 / 1 /step] 0: Alarm off 1 to 9999: Alarm goes off when Value (1 to 9999) x 10 > PM counter		
002	Original Count Alarm	0: No o	/ 0 / -] plarm sounds m sounds after the number of originals passing the ARDF > 10,000	

5504	[Jam Alarm]	*CTL	-		
	Sets the alarm to sound for the specified jam level (document misfeeds are not included).				
	[0 to 3 / 3 / 1 /step]				
001	0: Zero (Off)				
001	1: Low (2.5K jams)				
	2: Medium (3K jams)				
	3: High (6K jams)				

	[Error Alarm]			
5505	Sets the error alarm level. The error alarm counter counts "1" when any SC is detected. However, the error alarm			
	counter decreases by "1" when an SC is not detected during a set number of copied sheets (for example, default 1500 sheets).			
	The error alarm occurs when t	the SC e	rror alarm counter reaches "5".	
001	-	*CTL	[0 to 255 / C2.5a : 25 , C2.5b : 35 / 100 copies / step]	

5508*	[CC Call]	*CTL	-
001*	Jam Remains	0: Dis	able, 1: Enable
001*	Enables/disables initiating a call for an unattended paper jam.		

002*	Continuous Jams	0: Disable, 1: Enable		
	Enables/disables initiating a call for consecutive paper jams.			
003*	Continuous Door Open	0: Disable, 1: Enable		
003	Enables/disables initiating a call wh	en the front door remains open.		
	Jam Detection: Time Length	[3 to 30 / 10 / 1 minute /step]		
011*	Sets the time a jam must remain before it becomes an "unattended paper jam". This setting is enabled only when SP5508-004 is set to "1".			
	Jam Detection: Continuous Count	[2 to 10 / 5 / 1 /step]		
012*	Sets the number of consecutive paper jams required to initiate a call. This setting is enabled only when SP5508-004 is set to "1".			
013*	Door Open: Time Length	[3 to 30 / 10 / 1 /step]		
	Sets the length of time the door remains open before the machine initiates a call. This setting is enabled only when SP5-508-004 is set to "1".			

	[SC/Alarm Setting]	*CTL	-	
5515	With NRS (New Remote Service) in use, these SP codes can be set to issue an SC call when an SC error occurs. If this SP is switched off, the SC call is not issued when an SC error occurs.			
001	SC Call			
002	Service Parts Near End Call		[0 or 1 / 1 / -]	
003	Service Parts End Call		0: Off 1: On	
004	User Call			

006	Communication Test Call	
007	Machine Information Notice	
008	Alarm Notice	[0 or 1 / 1 / -]
009	Non Genuine Tonner Alarm	0: Off
010	Supply Automatic Ordering Call	1: On
011	Supply Management Report Call	
012	Jam/Door Open Call	

5516	· ·	*CTL ² codes can	- be set to issue an PM alarm call when one of SP
001	Disable/Enable Setting (0: Not send, 1: Send)		[0 or 1 / 1 / -] 0: Not send, 1: Send
004	Percent yield for triggering PM alert		[1 to 255 / 75 / 1 %/step]

5610	[Base Gamma Control Point: Command]		
004	Factory Setting	-	-
004	Recalls the factory settings.		
005	Restore	-	-
	Overwrites the current values onto the factory settings.		
006	Restore	-	-
	Recalls the previous settings.		

5611	[Toner Color in 2C]		
001	B-C	*ENG	[0 to 128 / 100 / 1 /step] 128: Darkest density
	Adjusts the Cyan correction value of the blue signal in two-color mode.		

002	В-М	*ENG	[0 to 128 / 100 / 1 /step] 128: Darkest density	
	Adjusts the Magenta cor	rection value	of the blue signal in two-color mode.	
003	G-C	*ENG	[0 to 128 / 100 / 1 /step] 128: Darkest density	
	Adjusts the Cyan correcti	on value of t	he blue signal in two-color mode.	
004	G-Y	*ENG	[0 to 128 / 100 / 1 /step] 128: Darkest density	
	Adjusts the Yellow correction value of the blue signal in two-color mode.			
005	R-M	*ENG	[0 to 128 / 100 / 1 /step] 128: Darkest density	
	Adjusts the Magenta correction value of the blue signal in two-color mode.			
006	R-Y	*ENG	[0 to 128 / 100 / 1 /step] 128: Darkest density	
	Adjusts the Yellow correction value of the blue signal in two-color mode.			

5618	[Color Mode Display Selection]		
001	*CTL [0 or 1 / 1 / -] *CTL 0: ACS, Colour, Black & White, Two Colour, Sir colour 1: ACD, Full Colour, Black & White		0: ACS, Colour, Black & White, Two Colour, Single colour
	Selects the color selection display on the LCD.		the LCD.



- Memory Clear (SP5-801)
- The following tables list the items that are cleared. The serial number information, meter charge setting and meter charge counters (SP8-581, 582, 583, 584, and 586) are not cleared.

5801	[Memory Clear]
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All Clear	Resets all correction data for process control and all software counters, and returns all modes and adjustments to their default values.
Engine	Clears the engine settings.
SCS	Initializes default system settings, SCS (System Control Service) settings, operation display coordinates, and ROM update information.
IMH Memory Clr	Initializes the IMH settings.
Mcs	Initializes the Mcs settings.
Copier Application	Initializes all copier application settings.
Fax Application	Initializes the fax reset time, job login ID, all TX/RX settings, local storage file numbers, and off-hook timer.
Printer Application	The following service settings: Bit switches Gamma settings (User & Service) Toner Limit The following user settings: Tray Priority Menu Protect System Setting except for setting of Energy Saver I/F Setup (I/O Buffer and I/O Timeout) PCL Menu
Scanner Application	Initializes the scanner defaults for the scanner and all the scanner SP modes.
Web Service	Deletes the network file application management files and thumbnails, and initializes the job login ID.
NCS	All setting of Network Setup (User Menu) (NCS: Network Control Service)
R-Fax	Initializes the job login ID, SmartDeviceMonitor for Admin, job history, and local storage file numbers.
Clear DCS Setting	Initializes the DCS (Delivery Control Service) settings.
	Engine SCS IMH Memory Clr Mcs Copier Application Fax Application Printer Application Scanner Application Web Service NCS R-Fax

015	Clear UCS Setting	Initializes the UCS (User Information Control Service) settings.
016	MIRS Setting	Initializes the MIRS (Machine Information Report Service) settings.
017	CCS	Initializes the CCS (Certification and Charge-control Service) settings.
018	SRM Memory Clr	Initializes the SRM (System Resource Manager) settings.
019	LCS	Initializes the LCS settings.
020	Web Uapli	Initializes the web user application settings.
021	ECS	Initializes the ECS settings.

		-				
	[FreeRun]					
	Performs a free run on the copier engine.					
5802	♥ Note					
3802	 The machine starts free run in the same condition as the sequence of A4/LT, A3 or A4 SEF printing from the 1st or 2nd tray. Therefore, the correct paper should be loaded in the 1st tray or 2nd tray, but paper is not fed. 					
	The main switch has to	be turned	off and on after using the free run mode for a test.			
001	B/W A4 LEF	-				
002	FC A4 LEF	-	-			
003	FC A3 LEF	-				
		1				
5803	[Input Check] - See p.627 "Main SP Tables-9" in this section					
5804	[Output Check] -		See p.627 "Main SP Tables-9" in this section.			
5805	[Anti-Condensation Heater]					
002	2 0:OFF / 1:ON *ENG -					

	[SC Reset]		
5810	Resets a type A service call condition. Note		
	Turn the main switch off	and on a	after resetting the SC code.
001	Fusing SC Reset	-	-

5811	[MachineSerial] Machine Serial Number Display		
002	Display		Displays the machine serial number.
004	BICU		Inputs

5812	[Service Tel. No. Setting]			
001	Service	*CTL	-	
	Sets the telephone number for a service representative. This number is printed on the Counter List, which can be printed with the user's "Counter" menu. This can be up to 20 characters (both numbers and alphabetic characters can be input).			
	Facsimile	*CTL	-	
002	Sets the fax or telephone number for a service representative. This number is printed on the Counter List. This can be up to 20 characters (both numbers and alphabetic characters can be input).			
	Supply	*CTL	-	
003	Use this to input the telephone number of your supplier for consumables. Enter the number and press #.			
004	Operation	*CTL	-	
	Use this to input the telephone number of your sales agency. Enter the number and press #.			

5816	[Remote Service]	*CTL	-
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	I/F Setting
	Selects the remote service setting.
001	[0 to 2 / 2 / 1 /step]
	O: Remote service off
	1: CSS remote service on
	2: NRS remote service on
	CE Call
	Performs the CE Call at the start or end of the service.
002	[0 or 1 / 0 / 1 /step]
	O: Start of the service
	1: End of the service
	NOTE: This SP is activated only when SP 5816-001 is set to "2".
	Function Flag
	Enables or disables the remote service function.
003	[0 to 1 / 0 / 1 /step]
	0: Disabled
	1: Enabled
	SSL Disable
007	Controls if RCG (Remote Communication Gate) confirmation is done by SSL during an RCG send for the @Remote over a network interface.
007	[0 or 1 / 0 / 1 /step]
	0: Yes. SSL not used.
	1: No. SSL used.
	RCG Connect Timeout
008	Sets the length of time (seconds) for the time-out when the RCG (Remote Communication
	Gate) connects during a call via the @Remote network.
	[1 to 90 / 30 / 1 second /step]

	RCG Write Timeout		
009	Sets the length of time (seconds) for the time-out when sent data is written to the RCG during a call over the @Remote network.		
	[1 to 100 / 60 / 1 second /step]		
	RCG Read Timeout		
010	Sets the length of time (seconds) for the timeout when sent data is written from the RCG during a call over the @Remote network.		
	[1 to 100 / 60 / 1 second /step]		
	Port 80 Enable -		
011	Controls if permission is given to get access to the SOAP method over Port 80 on the @Remote network.		
011	[0 or 1 / 0 / –]		
	0: No. Access denied		
	1: Yes. Access granted.		
	RFU Timing		
	Selects the timing for the remote firmware updating.		
013	[0 or 1 / 1 / -]		
	0: Any status of a target machine		
	1: Sleep or panel off mode only		
	RCG – C Registed		
021	This SP displays the RCG-N installation end flag.		
	0: Installation not completed		
	1: Installation completed		
	RCG – C Regist Detail		
	This SP displays the RCG device installation status.		
022	0: RCG device not registered		
	1: RCG device registered		
	2: Device registered		

	Connect Type (N/M)			
	This SP displays and selects the RCG-N connection method.			
023	[0 or 1 / 0 / 1 /step			
	0: Internet connection			
	1: Dial-up connection			
061	Cert. Expire Timing DFU	Proximity of the expiration of the certification.		
062	Use Proxy	This SP setting determines if the proxy server is used when the machine communicates with the service center.		
	Proxy Host			
	This SP sets the address of the proxy server used for communication between the RCG device and the gateway. Use this SP to set up or display the customer proxy server address.			
063	The address is necessary to set up the embedded RCG-N.			
	U Note			
	The address display is limited to 128 characters. Characters beyond the 128			
	character are ignored.			
	This address is customer information and is not printed in the SMC report. Prove Part Number			
	Proxy PortNumber			
	This SP sets the port number of the proxy server used for communication between the			
064	embedded RCG-N and the gateway. This setting is necessary to set up the embedded RCG-N.			
	₩Note			
	This port number is cu	stomer information and is not printed in the SMC report.		
	Proxy User Name			
	This SP sets the HTTP proxy certification user name.			
065	↓ Note			
		e is limited to 31 characters. Any character beyond the 31st		
	character is ignored.	information and is not printed in the SAAC report		
	Ihis name is customer	information and is not printed in the SMC report.		

	Proxy	/ Password		
	This SP sets the HTTP proxy certification password.			
066	U N	lote		
		 The length of the password is limited to 31 characters. Any character beyond the 31st character is ignored. 		
	•	This name is customer information and is not printed in the SMC report.		
067	CERT	:Up State		
007	Displ	ays the status of the certification update.		
	0	The certification used by RCG-N is set correctly.		
	1	The certification request (setAuthKey) for update has been received from the GW URL and certification is presently being updated.		
	The certification update is completed and the GW URL is being notified of the successful update.			
	3	The certification update failed, and the GW URL is being notified of the failed update.		
	The period of the certification has expired and new request for an update is be sent to the GW URL.			
	A rescue update for certification has been issued and a rescue certification se is in progress for the rescue GW connection.			
	The rescue certification setting is completed and the GW URL is being notified o certification update request.			
	The notification of the request for certification update has completed successful and the system is waiting for the certification update request from the rescue Grund.			
	The notification of the certification request has been received from the rescue Controller, and the certification is being stored.			
	15	The certification has been stored, and the GW URL is being notified of the successful completion of this event.		
	The storing of the certification has failed, and the GW URL is being notified of the failure of this event.			

	17	The certification update request has been received from the GW URL, the GW URL was notified of the results of the update after it was completed, but an certification error has been received, and the rescue certification is being recorded.			
	18		ion of No. 17 has been recorded, and the GW URL is being of the certification update.		
	CERT	:Error			
		Displays a number code that describes the reason for the request for update of the certification.			
	0	Normal. There is no	request for certification update in progress.		
	1	Request for certificat	ion update in progress. The current certification has expired.		
068	2	An SSL error notifico	tion has been issued. Issued after the certification has expired.		
	3	Notification of shift f	rom a common authentication to an individual certification.		
	4	Notification of a cor	nmon certification without ID2.		
	5	Notification that no certification was issued.			
	6	Notification that GV	V URL does not exist.		
069	CERT:Up ID		The ID of the request for certification.		
083	FirmU	Jp Status	Displays the status of the firmware update.		
085	Firm (Jp User Check	This SP setting determines if the operator can confirm the previous version of the firmware before the firmware update execution. If the option to confirm the previous version is selected, a notification is sent to the system manager and the firmware update is done with the firmware files from the URL.		
086	Firmware Size		Allows the service technician to confirm the size of the firmware data files during the firmware update execution.		
087	CERT	: Macro Version	Displays the macro version of the @Remote certification.		
088	CERT: PAC Version		Displays the PAC version of the @Remote certification.		
089	CERT: ID2 Code		Displays ID2 for the @Remote certification. Spaces are displayed as underscores (_). Asteriskes (****) indicate that no @Remote certification exists.		

090	CERT: Subject	Displays the common name of the @Remote certification subject. CN = the following 17 bytes. Spaces are displayed as underscores (_). Asterisks (* * * *) indicate that no DESS exists.		
091	CERT: Serial Number	Displays serial number for the NRS certification. Asterisks (* * * *) indicate that no DESS exists.		
092	CERT: Issuer	Displays the common name of the issuer of the @Remote certification. CN = the following 30 bytes. Asteriskes (****) indicate that no DESS exists.		
093	CERT: Valid Start	Displays the start time of the period for which the current @Remote certification is enabled.		
094	CERT: Valid End Displays the end time of the period for which the currer @Remote certification is enabled.			
	Selection Country			
150	Select the country where embedded RCG-M is installed in the machine. After selecting the country, you must also set the following SP codes for embedded RCG-M: • SP5816-153			
	SP5816-154SP5816-161			
	0: Japan, 1: USA, 2: Canada, 3: UK, 4: Germany, 5: France, 6: Italy,			
	7: Netherlands, 8: Belgium, 9: Luxembourg, 10: Spain			
	Line Type AutomaticJudgment			
	Press [Execute].			
151	Setting this SP classifies the telephone line where embedded RCG-M is connected as either dial-up (pulse dial) or push (DTMF tone) type, so embedded RCG-M can automatically distinguish the number that connects to the outside line.			
	• The current progress, success, or failure of this execution can be displayed with SP5816-152.			
	If the execution succeeded, SP5816-153 will display the result for confirmation and SP5816-154 will display the telephone number for the connection to the outside line.			

Line Type Judgment Result

Displays a number to show the result of the execution of SP5816 151. Here is a list of what the numbers mean.

- 0: Success
- 1: In progress (no result yet). Please wait.
- 2: Line abnormal
- 152 3: Cannot detect dial tone automatically
 - 4: Line is disconnected
 - 5: Insufficient electrical power supply
 - 6: Line classification not supported
 - 7: Error because fax transmission in progress ioctl() occurred.
 - 8: Other error occurred
 - 9: Line classification still in progress. Please wait.

Selection Dial/Push

This SP displays the classification (tone or pulse) of the telephone line to the access point for embedded RCG-M. The number displayed (0 or 1) is the result of the execution of SP5816-151. However, this setting can also be changed manually.

[0 or 1 / 0 / 1 /step]

153 0: Tone Dialing Phone

1: Pulse Dialing Phone

Inside Japan "2" may also be displayed:

- 0: Tone Dialing Phone
- 1: Pulse Dialing Phone 10PPS
- 2: Pulse Dialing Phone 20PPS

Outside LineOutgoing Number The SP sets the number that switches to PSTN for the outside connection for embedded RCG-M in a system that employs a PBX (internal line). • If the execution of SP5816-151 has succeeded and embedded RCG-M has connected to the external line, this SP display is completely blank. 154 • If embedded RCG-M has connected to an internal line, then the number of the connection to the external line is displayed. • If embedded RCG-M has connected to an external line, a comma is displayed with the number. The comma is inserted for a 2 sec. pause. • The number setting for the external line can be entered manually (including commas). Dial Up User Name Use this SP to set a user name for access to remote dial up. Follow these rules when setting a user name: 156 • Name length: Up to 32 characters • Spaces and # allowed but the entire entry must be enclosed by double quotation marks ("). Dial Up Password Use this SP to set a password for access to remote dial up. Follow these rules when setting a user name: 157 • Name length: Up to 32 characters • Spaces and # allowed but the entire entry must be enclosed by double quotation marks ("). Local Phone Number Use this SP to set the telephone number of the line where embedded RCG-M is connected. 161 This number is transmitted to and used by the Call Center to return calls. Limit: 24 numbers (numbers only) Connection Timing Adjustment: Incoming When the Call Center calls out to an embedded RCG-M modem, it sends a repeating ID tone (*#1#). This SP sets the time the line remains open to send these ID tones after the 162 number of the embedded RCG-M modem is dialed up and connected. [0 to 24 / 1 / 1 /step] The actual amount of time is this setting x 2 sec. For example, if you set "2" the line will remain open for 4 sec.

	Access Point			
163		determined	s point for RCG-M. If no setting is done for this SP by the country selected) is used.	
164	Line Connecting	<u> </u>		
	RCG-M only, or sets the lin [0 to 1 / 0 / 1 / step] 0: Sharing Fax 1: No Sharing Fax • Note • If this setting is change • SP5816 187 determin	e for sharir ed, the copi	for the customer. This setting dedicates the line to ag between RCG-M and a fax unit. er must be cycled off and on. the off-hook button can be used to interrupt a RCG-en the line for fax transaction.	
173	Modem Serial Number	This SP di	splays the serial number registered for the RCG-M.	
	Retransmission Limit			
174	for the notification that the c charges based on transmiss allowed for these transaction	ertification sion time fo ons.	ime for certification and ID2 update requests, and has been completed. However, RCG-M generates r the customer, so a limit is placed upon the time ted within the allowed time, do this SP to cancel the	
187			off-hook button will interrupt a RCG-M transmission saction. This SP can be used only if SP5816 164 is	
200	Manual Polling	_	Executes the manual polling.	
	Trianour Folling		Executes the manual poining.	

	Regist: Status				
	Displays a number that indicates the status of the @Remote service device.				
	0: Neither the registered de	evice by the external nor embedded RCG device is set.			
201	1: The embedded RCG device is being set. Only Box registration is completed. In this status, this unit cannot answer a polling request from the external RCG.				
	2. The embedded RCG device is set. In this status, the external RCG unit cannot answer a polling request.				
	3. The registered device by device cannot be set.	the external RCG is being set. In this status the embedded RCG			
	4 The registered module by	the external RCG has not started.			
202	Letter Number	Allows entry of the number of the request needed for the RCG-N device.			
203	Confirm Execute	Executes the inquiry request to the @Remote GW URL.			
204	Confirm Result				
	Displays a number that indicates the result of the inquiry executed with SP5816 203.				
	0: Succeeded				
	1: Inquiry number error				
	2: Registration in progress				
	3: Proxy error (proxy enabled)				
	4: Proxy error (proxy disabled)				
	5: Proxy error (Illegal user	name or password)			
	6: Communication error				
	7: Certification update erro	r			
	8: Other error				
	9: Inquiry executing				
	Confirm Place				
205	Displays the result of the notification sent to the device from the GW URL in answer to the inquiry request. Displayed only when the result is registered at the GW URL.				
206	Register Execute	Executes "Embedded RCG Registration".			
	1				

	Register Result	Register Result				
	Displays a number that indicates the registration result.					
	0: Succeeded					
	2: Registration in progress					
	3: Proxy error (proxy enab	led)				
207	4: Proxy error (proxy disab	oled)				
	5: Proxy error (Illegal user	name or pass	word)			
	6: Communication error					
	7: Certification update erro	or				
	8: Other error					
	9: Registration executing	9: Registration executing				
208	Error Code					
	Displays a number that describes the error code that was issued when either SP5816-204 or SP5816-207 was executed.					
	Cause	Cause Code Meaning				
		-11001	Chat parameter error			
	Illegal Modem Parameter	-11002	Chat execution error			
		-11003	Unexpected error			
		-12002	Inquiry, registration attempted without acquiring device status.			
	Operation Error, Incorrect Setting	-12003	Attempted registration without execution of an inquiry and no previous registration.			
		-12004	Attempted setting with illegal entries for certification and ID2.			
			@Remote communication is prohibited. The device has an Embedded RC gate-related problem.			

		-12006	A confirmation request was made after the confirmation had been already completed.	
		-12007	The request number used at registration was different from the one used at confirmation.	
	Operation Error, Incorrect Setting	-12008	Update certification failed because mainframe was in use.	
		-12009	ID2 mismatch between an individual certification and NVRAM	
		-12010	Certification area is not initialized.	
		-2385	Attempted dial up overseas without the correct international prefix for the telephone number.	
		-2387	Not supported at the Service Center	
		-2389	Database out of service	
		-2390	Program out of service	
		-2391	Two registrations for same device	
	Error Caused by Response	-2392	Parameter error	
	from GW URL	-2393	Basil not managed	
		-2394	Device not managed	
		-2395	Box ID for Basil is illegal	
		-2396	Device ID for Basil is illegal	
		-2397	Incorrect ID2 format	
		-2398	Incorrect request number format	
209	Instal Clear	Releases the	machine from its embedded RCG setup.	
250	CommLog Print	Prints the communication log.		
	1			

5821	[Remote Service Address]		
002	RCG IP Address	*CTL	Sets the IP address of the RCG (Remote Communication Gate) destination for call processing at the remote service center.

	[NV-RAM Data Upload]		
5824	Uploads the UP and SP mode data (except for counters and the serial number) from the NVRAM to an SD card. For details, see the "NVRAM Data Upload/Download" in this section.		
001	NV-RAM Data Upload	#	-

	[NV-RAM Data Download]		
5825	Downloads the UP and SP mode data from an SD card to the NVRAM. For details, see the "NVRAM Data Upload/Download" in this section.		
001	NV-RAM Download	#	-

5828	[Network Setting]	*CTL	-	
050	1284 Compatibility (Centro)	[0 or 1 /	Enables or disables 1284 Compatibility. [0 or 1 / 1 / 1 / step] 0: Disabled, 1: Enabled	
052	ECP (Centro)	[0 or 1 / 0: Disabl	or disables ECP Compatibility. [1 / 1 / step] ed, 1: Enabled SP is activated only when SP5-828-50 is set to "1".	
065	Job Spooling	Enables/disables Job Spooling. [O or 1 / 0 / 1 / step] O: Disabled, 1: Enabled		
066	Job Spooling Clear: Start Time	0: ON (E	nt of the job when a spooled job exists at power on. Data is cleared) Automatically printed)	

		Validates or invalidates the job spooling function for each protocol.
		0: Validates
		1: Invalidates
		bitO: LPR
0/0		bit1: FTP
069	Job Spooling (Protocol)	bit2: IPP
		bit3: SMB
		bit4: BMLinkS
		bit5: DIPRINT
		bitó: sftp
		bit7: (Reserved)
		Enables or disables the Telnet protocol.
090	TELNET (0: OFF 1: ON)	[0 or 1 / 1 / –]
		0: Disable, 1: Enable
		Enables or disables the Web operation.
091	Web (0: OFF 1: ON)	[0 or 1 / 1 / –]
		0: Disable, 1: Enable
		This is the IPv6 local address link referenced on the Ethernet or wireless LAN (802.11b) in the format:
145	Active IPv6 Link Local Address	"Link Local Address" + "Prefix Length"
	/ iddiess	The IPv6 address consists of a total 128 bits configured in 8 blocks of 16 bits each.

147 149 151 153	Active IPv6 Stateless Address 1 Active IPv6 Stateless Address 2 Active IPv6 Stateless Address 3 Active IPv6 Stateless Address 4 Active IPv6 Stateless Address 5	These SPs are the IPv6 status addresses (1 to 5) referenced on the Ethernet or wireless LAN (802.11b) in the format: "Status Address" + "Prefix Length" The IPv6 address consists of a total 128 bits configured in 8 blocks of 16 bits each.
156	IPv6 Manual Address	This SP is the IPv6 manually set address referenced on the Ethernet or wireless LAN (802.11b) in the format: "Manual Set Address" + "Prefix Length" The IPv6 address consists of a total 128 bits configured in 8 blocks of 16 bits each.
158	IPv6 Gateway Address	This SP is the IPv6 gateway address referenced on the Ethernet or wireless LAN (802.11b). The IPv6 address consists of a total 128 bits configured in 8 blocks of 16 bits each.
161	IPv6 Stateless Auto Setting	Enables or disables the automatic setting for IPv6 stateless. [O or 1 / 1 / 1 / step] O: Disable, 1: Enable
236	Web Item visible	Displays or does not display the Web system items. [0 x 0000 to 0 x ffff / 0 x ffff] 0: Not displayed, 1: Displayed bit0: Net RICOH bit1: Consumable Supplier bit2-15: Reserved (all)
237	Web shopping link visible	Displays or does not display the link to Net RICOH on the top page and link page of the web system. [0 to 1 / 1 / 1] 0: Not display, 1:Display

238	Web supplies Link visible	Displays or does not display the link to Consumable Supplier on the top page and link page of the web system. [0 to 1 / 1 / 1] 0: Not display, 1:Display
239	Web Link1 Name	This SP confirms or changes the URL1 name on the link page of the web system. The maximum characters for the URL name are 31 characters.
240	Web Link1 URL	This SP confirms or changes the link to URL1 on the link page of the web system. The maximum characters for the URL are 127 characters.
241	Web Link1 visible	Displays or does not display the link to URL1 on the top page of the web system. [0 to 1 / 1 / 1] 0: Not display, 1:Display
242	Web Link2 Name	Same as "-239"
243	Web Link2 URL	Same as "-240"
244	Web Link2 visible	Same as "-241"

5832 [HDD] HDD Initialization	*CTL -	
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001	HDD Formatting (ALL)	
002	HDD Formatting (IMH)	
003	HDD Formatting (Thumbnail)	
004	HDD Formatting (Job Log)	
005	HDD Formatting (Printer Fonts)	
006	HDD Formatting (User Info)	Initializes the hard disk. Use this SP mode only if there
007	Mail RX Data	is a hard disk error.
008	Mail TX Data	
009	HDD Formatting (Data for a Design)	
010	HDD Formatting (Log)	
011	HDD Formatting (Ridoc I/F)	

5836	[Capture Settings]	*CTL	-
	Capture Function (0:Off 1:On)		0: Disable, 1: Enable
001	With this function disabled, the setti	ings rela	ted to the capture feature cannot be initialized,
002	Panel Setting		0: Displayed, 1: Not displayed
002	Displays or does not display the capture function buttons.		
	5836-71 to 5836-78, Copier and Printer Document Reduction		
	The following 6 SP modes set the default reduction for stored documents sent to the document management server via the MLB.		
	Enabled only when optional MLB ((Media l	.ink Board) is installed.
071	Reduction for Copy Color		0: 1to-1, 1: 1/2, 2: 1/3 , 3: 1/4
072	Reduction for Copy B&W Text		0: 1to-1, 1: 1/2, 2: 1/3, 3: 1/4, 6: 2/3
073	Reduction for Copy B&W Other		0: 1to-1 , 1: 1/2, 2: 1/3, 3: 1/4, 6: 2/3
074	Reduction for Printer Color		0: 1to-1, 1: 1/2, 2: 1/3 , 3: 1/4
075	Reduction for Printer B&W		0: 1to-1 , 1: 1/2, 2: 1/3, 3: 1/4, 6: 2/3

076	Reduction for Printer B&W HQ	0: 1to-1, 1: 1/2, 2: 1/3, 3: 1/4	
077	Reduction for Printer Color 1200	1: 1/2, 3: 1/4, 4: 1/6 , 5: 1/8 (2: skipped), 6: 2/3	
078	Reduction for Printer B&W 1200	1: 1/2, 3: 1/4, 4: 1/6, 5: 1/8 (2: skipped), 6: 2/3	
	5836-81 to 5836-86, Stored document for	ormat	
	The following 6 SP modes set Sets the defo		
	Enabled only when optional MLB (Media	Link Board) is installed.	
081	Format for Copy Color	O: JFIF/JPEG, 1: TIFF/MMR, 2: TIFF/MH, 3: TIFF/MR • This SP is not used in this model.	
082	Format for Copy B&W Text	O: JFIF/JPEG, 1: TIFF/MMR, 2: TIFF/MH, 3: TIFF/MR	
083	Format Copy B&W Other	O: JFIF/JPEG, 1: TIFF/MMR, 2: TIFF/MH, 3: TIFF/MR	
084	Format for Printer Color	O: JFIF/JPEG, 1: TIFF/MMR, 2: TIFF/MH, 3: TIFF/MR Note This SP is not used in this model.	
085	Format for Printer B&W	O: JFIF/JPEG, 1: TIFF/MMR, 2: TIFF/MH, 3: TIFF/MR	
086	Format for Printer B&W HQ	O: JFIF/JPEG, 1: TIFF/MMR, 2: TIFF/MH, 3: TIFF/MR	
	Default for JPEG	[5 to 95 / 50 / 1 /step]	
091	Sets the JPEG format default for documents sent to the document management server violate MLB with JPEG selected as the format. Enabled only when optional MLB (Media Link Board) is installed.		

101	Primary srv IP address	Sets the IP address for the primary capture server. This is basically adjusted by the remote system.	
102	Primary srv scheme	This is basically adjusted by the remote system.	
103	Primary srv port number	This is basically adjusted by the remote system.	
104	Primary srv URL path	This is basically adjusted by the remote system.	
111	Secondary srv IP address	Sets the IP address for the secondary capture server. This is basically adjusted by the remote system.	
112	Secondary srv scheme	This is basically adjusted by the remote system.	
113	Secondary srv port number	This is basically adjusted by the remote system.	
114	Secondary srv URL path	This is basically adjusted by the remote system.	
120	Default Reso Rate Switch	This is basically adjusted by the remote system.	
	Reso: Copy (Color)	[0 to 3 / 2 / 1/step]	
121	Selects the resolution for cold 0: 600dpi/ 1: 300dpi/ 2:	or copy mode. This is basically adjusted by the remote system. 150dpi/ 3: 75dpi	
	Reso: Copy (Mono)	[0 to 5 / 3 / 1/step]	
122	Selects the resolution for BW copy mode. This is basically adjusted by the remote s 0: 600dpi/ 1: 400dpi/ 2: 300dpi/ 3: 200dpi/ 4: 150dpi/ 5: 100dpi		
123	Reso: Print (Color)	This is basically adjusted by the remote system. [0 to 3 / 2 / 1/step]	
Selects the resolution for color print mode. This is basically adjusted by		or print mode. This is basically adjusted by the remote system.	
	0: 600dpi/ 1: 300dpi/ 2: 150dpi/ 3: 75dpi		
	Reso: Print (Mono)	This is basically adjusted by the remote system.	
124		[0 to 5 / 3 / 1/step]	
	Selects the resolution for BW print mode. This is basically adjusted by the remote system.		
0: 600dpi/ 1: 400dpi/ 2: 300dpi/ 3: 200dpi/ 4: 150dpi/ 5: 1		300dpi/ 3: 200dpi/ 4: 150dpi/ 5: 100dpi	

105	Reso: Fax (Color)	This is basically adjusted by the remote system. [0 to 6 / 4 / 1/step]		
125	Selects the resolution for color fax mode. This is basically adjusted by the remote system. 0: 600dpi/ 1: 400dpi/ 2: 300dpi/ 3: 200dpi/ 4: 150dpi/ 5: 100dpi/ 6: 75dpi			
126	Reso: Fax (Mono)	This is basically adjusted by the remote system. [0 to 6 / 3 / 1/step]		
	Selects the resolution for BW fax mode. This is basically adjusted by the remote system. 0: 600dpi/ 1: 400dpi/ 2: 300dpi/ 3: 200dpi/ 4: 150dpi/ 5: 100dpi/ 6: 75dpi			
	Reso: Scan (Color)	This is basically adjusted by the remote system. [0 to 6 / 4 / 1/step]		
127	Selects the resolution for color scanning mode. This is basically adjusted by the remote system. 0: 600dpi/ 1: 400dpi/ 2: 300dpi/ 3: 200dpi/ 4: 150dpi/ 5: 100dpi/ 6: 75dpi			
	Reso: Scan (Mono)	This is basically adjusted by the remote system. [0 to 6 / 3 / 1/step]		
128	Selects the resolution for BW scanning mode. This is basically adjusted by the remote system. 0: 600dpi/ 1: 400dpi/ 2: 300dpi/ 3: 200dpi/ 4: 150dpi/ 5: 100dpi/ 6: 75dpi			

5840	[IEEE 802.11]			
	[1 to 11 or 13 / 11 or 13 / 1 /step] *CTL Europe/Asia: 1 to 13 NA/ Asia: 1 to 11			
006	Sets the maximum number of channels available for data transmission via the wireless LAN. The number of channels available varies according to location. The default settings are set for the maximum end of the range for each area. Adjust the upper 4 bits to set the maximum number of channels. DFU • Do not change the setting.			

	I	1	I	
	Channel Min	*CTL	[1 to 11 or 13 / 1 / 1 / step] Europe: 1 to 13	
			NA/ Asia: 1 to 11	
007	Sets the minimum number of channels available for data transmission via the wireless LAN. The number of channels available varies according to location. The default settings are set for the minimum end of the range for each area. Adjust the lower 4 bits to set the minimum number of channels. DFU			
	U Note			
	Do not change the setting	ıg.		
			0 x 00 to 0 x FF / 0 x FF to Auto / -]	
			0 x FF to Auto [Default]	
			0 x 11 - 55M Fix	
			0 x 10 - 48M Fix	
			0 x 0F - 36M Fix	
		*CTL	0 x 0E - 18M Fix	
			0 x 0D - 12M Fix	
008	Transmission Speed		0 x 0B - 9M Fix	
			0 x 0A - 6M Fix	
			0 x 07 - 11M Fix	
			0 x 05 - 5.5M Fix	
			0 x 08 - 1 M Fix	
			0 x 13 - 0 x FE (reserved)	
			0 x 12 - 72M (reserved)	
			0 x 09 - 22M (reserved)	
			Selects the WEP key.	
			[00 to 11 / 00 / 1 binary]	
011	VA/ED Love Colorat	*CTL	00: Key #1	
011	WEP key Select	CIL	01: Key #2 (Reserved)	
			10: Key #3 (Reserved)	
			11: Key #4 (Reserved)	
	1	1	1	

042	Fragment Thresh	*CTL	Adjusts the fragment threshold for the IEEE802.11 card. [256 to 2346 / 2346 / 1] This SP is displayed only when the IEEE802.11 card is installed.
043	11g CTS to Self	*CTL	Determines whether the CTS self function is turned on or off. [0 to 1 / 1 / 1] 0: Off, 1: On This SP is displayed only when the IEEE802.11 card is installed.
044	11g Slot Time	*CTL	Selects the slot time for IEEE802.11. [0 to 1 / 0 / 1] 0: 20 µm, 1: 9 µm
045	WPA Debug Lvl	*CTL	Selects the debug level for WPA authentication application. [1 to 3 / 3 / 1] 1: Info, 2: warning, 3: error This SP is displayed only when the IEEE802.11 card is installed.

5841	[Supply Name Setting]

001	Toner Name Setting: Black		
002	Toner Name Setting: Cyan		Specifies supply names. These appear on the screen when the user presses the Inquiry button in the user tools screen.
003	Toner Name Setting: Yellow		
004	Toner Name Setting: Magenta		
007	OrgStamp		
011	Staple Std1	*CTL	
012	Staple Std2	CIL	
013	Staple Std3		
014	Staple Std4		
021	Staple Bind 1		
022	Staple Blind2		
023	Staple Blind 3		

5844	[USB]		
001	Transfer Rate	*CTL	0x01: Full speed 0x04: Auto Change
	Adjusts the USB transfer rate.		
002	Vendor ID	*CTL	Displays the vendor ID. DFU
003	Product ID	*CTL	Displays the product ID. DFU
004	Device Release Number	*CTL	Displays the development release version number. DFU

5845	[Delivery Server Setting]	*CTL	-	
3643	Provides items for delivery server settings.			
001	FTP Port No.	[0 to 65535 / 3670 / 1 /step]		
001	Sets the FTP port number used when image files to the Scan Router Server.			

	IP Address (Primary)	Range: 000.000.000	.000 to 255.255.255	
002	Use this SP to set the Scan Router Server address. The IP address under the transfer tab can be referenced by the initial system setting.			
	Delivery Error Display Time	[0 to 999 / 300 / 1 second /step]		
006	Use this setting to determine the length of time the prompt message is displayed when a test error occurs during document transfer with the NetFile application and an external device.			
	IP Address (Secondary)	Range: 000.000.000	.000 to 255.255.255.255	
008	Specifies the IP address assigned to the delivery server of Scan Router. This SF reference to the DNS setting.		•	
	Delivery Server Model	[0 to 4/0/1/step]		
009	Allows changing the model of the delivery server registered by the I/O device. 0: Unknown 1: SG1 Provided 2: SG1 Package 3: SG2 Provided 4: SG2 Package			
010	Delivery Svr. Capability	[0 to 255 / 0 / 1 /ste	ep]	
	Bit7 = 1 Comment information exits			
	Bit6 = 1 Direct specification of mail ac	ddress possible		
	Bit5 = 1 Mail RX confirmation setting p	possible		
	Bit4 = 1 Address book automatic upd	ate function exists	Changes the capability of	
	Bit3 = 1 Fax RX delivery function exist	s	the registered that the I/O	
	Bit2 = 1 Sender password function exists Bit1 = 1 Function to link MK-1 user and Sender exists Bit0 = 1 Sender specification required (if set to 1, Bit6 is set to "0")			

	Delivery Svr Capability (Ext)	[0 to 255 / 0 / 1 /step]		
	Changes the capability of the registered that the I/O device registered.			
011	Bit7 = 1 Address book usage limitatio	n (Limitation for each authorized user)		
	Bit6 = 1 RDH authorization link			
	Bit5 to 0: Not used			
013	Server Scheme (Primary) DFU			
013	This is used for the scan router progra	m.		
014	Server Port Number (Primary) DFU			
014	This is used for the scan router progra	m.		
015	Server URL Path (Primary) DFU			
013	This is used for the scan router program.			
016	Server Scheme (Secondary) DFU			
010	This is used for the scan router program.			
017	Server Port Number (Secondary) DFU	l		
017	This is used for the scan router progra	m.		
010	Server URL Path (Secondary) DFU			
018	This is used for the scan router program.			
	Rapid Sending Control			
022	Enables or disables the prevention fun	action for the continuous data sending error.		
	[0 to 1 / 0 / -]			
	0: Disable, 1: Enable			

5846	[UCS Settings]	*CTL	-	
	Machine ID (For Delivery Server)			Displays ID
001	Displays the unique device ID in use by the delivery server directory. The value is only displayed and cannot be changed. This ID is created from the NIC MAC or IEEE 1394 EU The ID is displayed as either 6-byle or 8-byte binary.			

	Machine ID Clear (For Delivery S	erver)		Clears ID
002	Clears the unique ID of the device used as the name in the file transfer directory. Execute this SP if the connection of the device to the delivery server is unstable. After clearing the ID, the ID will be established again automatically by cycling the machine off and on.			
	Maximum Entries	[2000 to 20000/ 2000 / 1 /step]		2000 / 1 /step]
003	Changes the maximum number of	entries that	JCS cai	n handle.
	If a value smaller than the present data (excluding user code inform			S managed data is cleared, and the
	Delivery Server Retry Timer		[0 to 2	55 / 0 / 1 /step]
006	Sets the interval for retry attempts when the delivery server fails to acquire the delivery serve address book.		ver fails to acquire the delivery server	
	Delivery Server Retry Times		[0 to 2	55 / 0 / 1 /step]
007	Sets the number of retry attempts v address book.	vhen the deliv	ery serv	ver fails to acquire the delivery server
	Delivery Server Maximum Entries		[2000	to 50000 / 2000 / 1/step]
008	Sets the maximum number accour by UCS.	nt entries of th	e delive	ery server user information managed
0.1.0	LDAP Search Timeout		[1 to 2	55 / 60 / 1 /step]
010	Sets the length of the timeout for the search of the LDAP server.			P server.
020	WSD Maximum Entries		[5 to 2	50 / 250 / 1 /step]
020	Sets the maximum entries for the address book of the WSD (WS-scanner).			
0.40	Addr Book Migration (USB => HI	DD)		
040	Not used in this machine.			

Fill Addr Acl Info.

This SP must be executed immediately after installation of an HDD unit in a basic machine that previously had no HDD. The first time the machine is powered on with the new HDD installed, the system automatically takes the address book from the NVRAM and writes it onto the new HDD. However, the new address book on the HDD can be accessed only by the system administrator at this stage. Executing this SP by the service technician immediately after power on grants full address book access to all users.

Procedure

041

- 1. Turn the machine off.
- 2. Install the new HDD.
- 3. Turn the machine on.
- 4. The address book and its initial data are created on the HDD automatically.
- 5. However, at this point the address book can be accessed by only the system administrator or key operator.
- 6. Enter the SP mode and do SP5846-041. After this SP executes successfully, any user can access the address book.

043	Addr Book Media	Displays the slot number where an address book data is in. [0 to 30 / - /1] 0: Unconfirmed 1: SD Slot 1 2: SD Slot 2 4: USB Flash ROM 20: HDD 30: Nothing
047	Initialize Local Addr Book	Clears the local address book information, including the user code.
048	Initialize Delivery Addr Book	Clears the distribution address book information, except the user code.
049	Initialize LDAP Addr Book	Clears the LDAP address book information, except the user code.
050	Initialize All Addr Book	Clears all directory information managed by UCS, including all user codes.
051	Backup All Addr Book	Uploads all directory information to the SD card.

052	Restore All Addr Book	ok Downloads all directory information from the SD card.		
		Deletes the address book data from the SD card in the service slot. Deletes only the files that were uploaded from this machine.		
053	Clear Backup Info	This feature does not work if the card is write-protected. Note • After you do this SP, go out of the SP mode, and then turn		
		the power off.		
		Do not remove the SD card until the Power LED stops flashing.		
	Search option			
	This SP uses bit switches	to set up the fuzzy search options for the UCS local address book.		
	Bit: Meaning			
060	0: Checks both upper/lower case characters			
	1: Japan Only			
	2: Japan Only			
	3: Japan Only	3: Japan Only		
	4 to 7: Not Used			
	Complexity option 1			
		nditions for password entry to access the local address book. s the password entry to upper case and sets the length of the		
062	[0 to 32 / 0 / 1 /step]			
	Note			
	This SP does not normally require adjustment.			
	 This SP is enabled only after the system administrator has set up a group password policy to control access to the address book. 			
063	Complexity Option 2 DFU			
064	Complexity Option 3 DFU			
065	Complexity Option 4 DI	FU		
091	FTP Auth Port Setting	Specifies the FTP port for getting a distribution server address book that is used in the identification mode.		
		[0 to 65535 / 3671 / 1 /step]		

094	Encryption Stat	Shows the status of the encryption function for the address book data.
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	[Rep Resolution Reduction]	*CTL	-		
584 <i>7</i>	SP5847-1 through SP5847-8 changes the default settings of image data transferred externally by the Net File page reference function. [0 to 5 / 2 / 1 / step]				
7047	SP5847-21 sets the default for JPEG image quality of image files handled by NetFile.				
	"Net files" are jobs to be printed from the document server using a PC and the DeskTopBinder software.				
001	Rate for Copy Color		0: 1x		
002	Rate for Copy B&W Text		1: 1/2x		
003	Rate for Copy B&W Other		2: 1/3x		
			3: 1/4x		
004	Rate for Printer Color		4: 1/6x		
005	Rate for Printer B&W		5: 1/8x		
	Rate for Printer Color 1200dpi		0: 1x		
			1: 1/2x		
006			2: 1/3x		
000			3: 1/4x		
			4: 1/6x		
			5: 1/8x		
			0: 1x		
			1: 1/2x		
007	Rate for Printer B&W 1200dpi		2: 1/3x		
007	Raie for Frillier bavv 1200api		3: 1/4x		
			4: 1/6x		
			5: 1/8x		
	Network Quality Default for JPEG				
021	Sets the default value for the quality of JPEG images sent as NetFile pages. This functio is available only with the MLB (Media Link Board) option installed.				
	[5 to 95 / 50 / 1 /step]				

	[Web Service]	*CTL -	
5848	5848 2 sets the 4-bit switch assignment for the access control setting. Setting of 0001 has no effect on access and delivery from Scan Router. 5848 100 sets the maximum size allowed for downloaded images. The default is equal to 1 gigabyte.		
002	Access Ctrl: Repository (only Lower 4 bits)	0000: No access control 0001: Denies access to DeskTop Binder. 0010: No writing control	
003	Access Control: Doc. Svr. Print (Lower 4 bits)		
004	Access Control: User Directory (Lower 4 bits)		
007	Access Ctrl: Comm. Log Fax (Lower 4 bits)	Switches access control on and off. 0000: No access control	
009	Access Ctrl: Job Ctrl (Lower 4 bits)	0001: Denies access to DeskTop Binder.	
011	Access Ctrl: Device management		
021	Access Ctrl: Delivery (Lower 4 bits)		
022	Access Ctrl: uAdministration (Lower 4bits)		
99	Repository: Download Image Setting	DFU	
100	Repository: Download Image Max. Size	Specifies the max size of the image data that the machine can download. [1 to 1024 / 1024 / 1 MB /step]	

210	Setting: LogType: Job1	
211	Setting: LogType: Job2	
212	Setting: LogType: Access	
213	Setting: Primary Srv	NIA
214	Setting: Secondary Srv	NIA
215	Setting: Start Time	
216	Setting: Interval Time	
217	Setting: Timing	

5849	[Installation Date]	*CTL	-	
5849 1	Display	The "Counter Clear Day" has been changed to "Installation Date" or "Inst. Date".		
5849 2	Switch to Print	Determines whether the installation date is printed the printout for the total counter. [0 or 1 / 1 / -] 0: OFF (No Print) 1: ON (Print)		
003	Total Counter	-		

5850	[Address Book Function]	*CTL	-
	Replacement of Circuit Classifica	tion Japan	Only
003		G4 line. C	line. This SP allows you to switch all at once Conversely, if for some reason the G4 line ack to G3.

	[Bluetooth]
5851	Sets the operation mode for the Bluetooth Unit. Press either key.
	[O:Public] [1: Private]

Use this SP to download the fixed stamp data stored in the firmware of the ROM and copy it to the HDD. This SP can be executed as many times as required. This SP must be executed after replacing or formatting the hard disks. • Note • This SP can be executed only with the hard disks installed.

	[Remote ROM Update]			
Allows the technician to upgrade the firmware using a local port (IEE updating the remote ROM.			rare using a local port (IEEE1284) when	
002	Local Port	*CTL	[0 to 1 / 0 / 1/step] 0: Disable 1: Enable	

5857	[Save Debug Log]	*CTL	-	
	On/Off (1:ON 0:OFF)	0 : OFF, 1	: ON	
001	Switches the debug log feature on and off. The debug log cannot be captured until this feature is switched on.			
	Target (2: HDD 3: SD)	2 : HDD,	3: SD Card	
002	Selects the storage device to save debug logs information when the conditions set with SP5-858 are satisfied.			
[2 to 3 / 2 / 1 /step]				
	Save to HDD			
Saves the debug log of the input SC number in memory to the HDD. A unique file name is generated to avoid overwriting existing file names on Up to 4MB can be copied to an SD Card. 4 MB segments can be copied to each SD Card.		verwriting existing file names on the SD Card.		
00/	Save to SD Card			
006	Saves the debug log of the input SC number in memory to the SD card.			
009	Copy HDD to SD Card (Latest 4 MB)			
010	Copy HDD to SD Card (Latest 4 MB Any Key)			

011	011 Erase HDD Debug Data	
012	012 Erase SD Card Debug Data	
013	Free Space on SD Card	
014	O14 Copy SD to SD (Latest 4 MB)	
015 Copy SD to SD (Latest 4 MB Any Key)		
016	Make HDD Debug	
017	Make SD Debug	

	[Debug Save When]	*CTL	-	
5858	These SPs select the content of the debugging information to be saved to the destination selected by SP5857-002. SP5858-3 stores one SC specified by number. Refer to Section 4 for a list of SC error codes.			
001	Engine SC Error (0: OFF, 1: ON)	Turns on/off the debug save for SC codes generated by copier engine errors. [0 or 1 / 0 / 1 / step]		
002	Controller SC Error (0: OFF, 1: ON)	Turns on/off the debug save for SC codes generated GW controller errors. [0 or 1 / 0 / 1 / step]		
003	Any SC Error	[0 to 65535 / 0 / 1 /step]		
004	Jam (0: OFF, 1: ON)	Turns on/off the debug save for jam errors.		

5859	[Debug Save Key No.]	*CTL	-
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001	Key 1	
002	Key 2	
003	Key 3	
004	Key 4	The CD allows to the total and the form
005	Key 5	These SPs allow you to set up to 10 keys for log files for functions that use common memory on the controller
006	Кеу б	board. [-9999999 to 9999999 / 0 / -]
007	Key 7	[-444444 10 4444444
800	Key 8	
009	Key 9	
010	Key 10	

5860	[SMTP/POP3/IMAP4]	*CTL	-	
020	Partial Mail Receive Timeout			[1 to 168 / 72 / 1 hour/step]
			•	ail that breaks up during reception. The of the mail is not received during this
021	MDN Response RFC2.5298 Compliance [0 to 1 / 1 / -]			[0 to 1 / 1 / -]
	Determines whether RFC2.529 0: No 1: Yes	98 compli	ance is sw	itched on for MDN reply mail.
022	SMTP Auth. From Field Replacement			[0 to 1 / 0 / -]
	Determines whether the FROM item of the mail hafter the SMTP server is validated. O: No. "From" item not switched. 1: Yes. "From item switched.			ader is switched to the validated account
025	SMTP Auth. Direct Setting			[0 or 1 / 0 / –]

Selects the authentication method for SMPT. Bit switch: • Bit 0: LOGIN • Bit 1: PLAIN • Bit 2: CRAM MD5 • Bit 3: DIGEST MD5 • Bit 4 to 7: Not used **U** Note • This SP is activated only when SMTP authorization is enabled by UP mode. Selects the MIME header type of an E-mail sent by S/MIME. [0 to 2 / **0** / 1] S/MIME: MIME Header 026 0: Microsoft Outlook Express standard Setting 1: Internet Draft standard

58	370	[Common Key Info Writing]		
	001	Writing	*CTL	Writes to flash ROM the common proof for validating the device for @Remote specifications.
	003	Initialize	*CTL	Initializes the data area of the common proof for validating.

2: RFC standard

5873	[SD Card Appli Move]		
001	Move Exec	This SP copies the application programs from the original SD car SD card slot 2 to an SD card in SD card slot 1.	
002	Undo Exec	This SP copies back the application programs from an SD card in SD Card Slot 2 to the original SD card in SD card slot 1. Use this menu when you have mistakenly copied some programs by using "Move Exec" (SP5873-1).	

5875	[SC Auto Reboot]
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001	Reboot Setting	*CTL	Enables or disables the automatic reboot function when an SC error occurs. [0 or 1/0/-] 0: The machine reboots automatically when the machine issues an SC error and logs the SC error code. If the same SC occurs again, the machine does not reboot. 1: The machine does not reboot when an SC error occurs. The reboot is not executed for Type A or C SC codes.
002	Reboot Type	*CTL	Selects the reboot method for SC. [0 or 1 / 0 / -] 0: Manual reboot, 1: Automatic reboot

5878	[Option Setup]		
001	Data Overwrite Security	-	Enables the Data Overwrite Security unit. Press "EXECUTE" on the operation panel. Then turn the machine off and on.
002	HDD Encryption	-	Installs the HDD Encryption unit.

5881	[Fixed Phrase Block Erasing]		
001	-	-	Deletes the fixed phrase.

5883	[Line Speed Selection]		
Selects the line speed for middle thick paper.			
001	Middle Thick	*ENG	[0 or 1 / 1 / 1 / step] 0: MID CARD: Half Speed (115 mm/sec) 1: MID CARD: Normal Speed (C2.5c: 154, C2.5d: 205 mm/sec)

5885	[Set WIM Function] Web Image Monitor Settings
	Close or disclose the functions of web image monitor.

020	Document Server ACC Ctrl	*CTL	0: OFF, 1: ON Bit Meaning 0: Forbid all document server access (1) 1: Forbid user mode access (1) 2: Forbid print function (1) 3: Forbid fax TX (1) 4: Forbid scan sending (1) 5: Forbid downloading (1) 6: Forbid delete (1) 7: Reserved
050	Document Server List Def. Lines	*CTL	Selects the display type for the document box list. [0 to 2 / 0 / 1] 0: Thumbnail, 1: Icon, 2: Details
051	DocSvr Trans	*CTL	Sets the number of documents to be displayed in the document box list. [5 to 20 / 10 / 1]
100	Signature Setting	*CTL	Selects whether the signature is added to the scanned documents with the WIM when they are transmitted by an e-mail. [0 to 2 / 0 / 1/step] 0: Setting for each e-mail 1: Signature for all 2: No signature
101	Encryption Setting	*CTL	Determines whether the scanned documents with the WIM are encrypted when they are transmitted by an e-mail. [0 to 1 / 0 / 1] 0: Not encrypted, 1:Encryption
200	Memory Leak Detect Stting	*CTL	Not Used
201	DocSrv Session Time Out Setting	*CTL	Not Used

5007	[SD Get Counter]				
5887	This SP determines whether the ROM can be updated.				
001	-	*CTL	This SP sends a text file to an SD card inserted in SD card Slot 2 (lower slot). The operation stores. The file is stored in a folder created in the root directory of the SD card called SD_COUNTER. The file is saved as a text file (*.txt) prefixed with the number of the machine. 1. Insert the SD card in SD card Slot 2 (lower slot).		
			2. Select SP5887 then touch [EXECUTE].		
			Touch [Execute] in the message when you are prompted.		

5888	[Personal Information Protect]		
001	-	*CTL	Selects the protection level for logs. [0 to 1 / 0 / 1] 0: No authentication, No protection for logs 1: No authentication, Protected logs (only an administrator can see the logs)

5893	[SDK Application Counter]	*CTL	-			
3073	Displays the counter name of each SDK application.					
001	SDK-1					
002	SDK-2					
003	SDK-3					
004	SDK-4					
005	SDK-5					
006	SDK-5					

5894	[Test Name1]	
3094	Test Name 1_1	

001 Switch Charge Mode	*ENG	[0 to 2 / 0 / 1/step]
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	[Application Invalidation]			
Enables or disables the printer or scanner application. These SPs are used only when an external controller is installed in the machine.				
001	Printer	*CTL	[0 or 1 / 0 / -]	
002	Scanner	*CTL	0: Enable 1: Disable	

5907	[Plug & Play Maker/Model Name]
	Selects the brand name and the production name for Windows Plug & Play. This information is stored in the NVRAM. If the NVRAM is defective, these names should be registered again.
	After selecting, press the "Original Type" key and "#" key at the same time. When the setting is completed, the beeper sounds five times.

	5913	[Switchover Permission Time]				
		Print Application Timer	*CTL	[3 to 30 / 3 / 1 second /step]		
		Sets the amount of time to elapse while the machine is in standby mode (and the operation panel keys have not been used) before another application can gain control of the display.				

5967	[Copy Server Set Function]	*CTL	0: ON, 1: OFF
	Enables and disables the document ser data from being left in the temporary ar switch the main switch off and on to en	ea of the H	IDD. After changing this setting, you must

5974	[Cherry Server]			
	Specifies which version of ScanRouter, "Lite" or "Full", is installed.			
001	Cherry Server	*CTL	[0 or 1 / 0 / –] 0: Lite, 1: Full	

	[Device Setting]		
5985	The NIC and USB support features are built into the GW controller. Use this SP to enable and disable these features. In order to use the NIC and USB functions built into the controller board, these SP codes must be set to "1".		
	On Board NIC	[0 to 2 / 0 / 1 /step] 0: Disable, 1: Enable, 2: Function limitation	
		When the "Function limitation" is set, "On board NIC" is limited only for the NRS or LDAP/NT authentication.	
001		↓ Note	
		Other network applications than NRS or LDAP/NT authentication are not available when this SP is set to "2". Even though you can change the initial settings of those network applications, the settings do not work.	
002	On Board USB	[0 or 1 / 0 / 1/step] 0: Disable, 1: Enable	

5987	[Mech. Counter]	
001	0: OFF / 1: ON	This SP detects that a mechanical counter device is removed. If it is detected, SC610 occurs.

5990	[SP print mode]	
3990	Prints out the SMC sheets.	

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	-
024	SDK/J Summary	-
025	SDK/J Application Info	-

5998	[Fusing Cont mode] Fusing Control Mode				
3990	Turns the silent fusing warm-up mode on or off.				
001	fast/silent	*ENG	[0 or 1 / 1 / -] 0: Silent (less noise) 1: Fast (less time)		

Main SP Tables-6

SP6-XXX (Peripherals)

6006	[ADF Adj.] ADF Adjustment				
	Adjusts the side-to-side and leading registration of originals with the ARDF.				
001	Side-to-Side Registration	*ENG	[-3.0 to 3.0 / 0 / 0.1 mm/step]		
002	Side-to-Side Registration	ENG			
003	Leading Edge Registration	*ENG	[-5.0 to 5.0 / 0 / 0.1 mm/step]		
	Adjusts the amount of paper buckle to correct original skew for the front and rec				
005	Buckle: Duplex Front	*ENG	[-3.0 to 3.0 / 0 / 0.1 mm/step]		
006	Buckle: Duplex Rear	ENG	[-2.5 to 2.5 / 0 / 0.1 mm/step]		
	Adjusts the erase margin at the original trailing edge.				
007	7 Rear Edge Erase *ENG [-10 to 10 / 0 / 0.1 mm/step]				

	[ADF INPUT Check]
6007	Displays the signals received from the sensors and switches of the ARDF. Only Bit 0 is used for ADF input check (p.627 "Main SP Tables-9" in this section).

	[ADF OUTPUT Check]
6008	Activates the electrical components for functional check.
	It is not possible to activate more than one component at the same time (**p.627 "Main SP Tables-9" in this section).

6009	[ADF Free Run]				
0009	Performs a DF free run in simplex, duplex mode or stamp mode.				
001	Free Run Simplex Motion	-			
002	Free Run Duplex Motion	-	-		
003	Free Run Stamp Motion	-			

	6010	[Stamp Position Adj.] Fax Stamp Position Adjustment		
'		Adjusts the horizontal position of the stamp on the scanned originals.		
	60101	Stamp Position Adj.	*ENG	[-5.0 to 5.0 / 0 / 1 mm/step]

	[Original Size Detection Priority] Original Size Detection Priority					
6016	Specifies the original size for a size detected by the original sensor, since original sensors cannot recognize all sizes.					
	Original Size Detection Priority	*ENG	[0 or 1 / 0 / -] 0: Setting 1, 1: Setting 2			
		NA	Setting 1	Setting 2		
			DLT SEF	Folio SEF 11" x 15"		
			LG SEF	Foolscap SEF		
001			LT SEF	US EXE 8" x 10"		
			LT LEF	US EXE LEF		
			DLT SEF	8K 267 x 390 mm		
		EU/ ASIA	LT SEF	16K 195 x 267 mm		
		ASIA	LT LEF	16K 267 x 195 mm		

6017	[DF Magnification Adj.] DF Magnification Adjustment		
0017	Adjusts the magnification in the sub-scan direction for the ARDF.		
001	001 DF Magnification Adj. *CTL [-5.0 to 5.0 / 0 / 0.1 %/step]		[-5.0 to 5.0 / 0 / 0.1 %/step]

6020	[Skew Correction Moving Setting]				
0020	Turns the original skew correction in the ARDF for all original sizes on or off.				
001	-	*ENG	[0 or 1 / 0 / -] 0: Off (only for small original sizes) 1: On (for all original sizes)		

/100	[Punch Position: Sub Scan]				
6128	Adjusts the punching position in the sub scan direction.				
001	1.Domestic 2Hole (Europe 2Hole)	*ENG			
002	2.North America 3Hole	*ENG			
003	3.Europe 4Hole	*ENG	[-7.5 to 7.5 / 0 / 0.5 mm/step]		
004	4.North Europe 4Hole	*ENG			
005	5.North Europe 2Hole	*ENG			

	6129	[Punch Position: Main Scan]			
		Adjusts the punching position in the main scan direction.			
	001	1.Domestic 2Hole (Europe 2Hole)	*ENG		
	002	2.North America 3Hole	*ENG		
	003	3.Europe 4Hole	*ENG	[-2.0 to 2.0 / 0 / 0.4 mm/step]	
	004	4.North Europe 4Hole	*ENG		
	005	5.North Europe 2Hole	*ENG		

6130	[Skew Correction: Buckle Adj.]
0130	Adjusts the paper buckle for each paper size.

001 A3T *ENG	
200 D.IT	
002 B4T *ENG	
003 A4T *ENG	
004 A4Y *ENG	
005 B5T *ENG	
006 B5Y *ENG [-5.0 to 5.0 / 0 / 0.25 mm/step]	
007 DLT-T *ENG	
008 LG-T *ENG	
009 LT-T *ENG	
010 LT-Y *ENG	
011 12" x 18" *ENG	
012 Other *ENG	

	[Skew Correction Control]
6131	Selects the skew correction control for each paper size. These are only activated for B804/B805.

001	A3T	*ENG	
002	B4T	*ENG	
003	A4T	*ENG	
004	A4Y	*ENG	
005	B5T	*ENG	
006	B5Y	*ENG	[0 or 1 / 1 / 1/step] 0: No (No skew correction)
007	DLT-T	*ENG	1: Roller Stop Skew Correction
008	LG-T	*ENG	'
009	LT-T	*ENG	
010	LT-Y	*ENG	
011	12" x 18"	*ENG	
012	Other	*ENG	

	[Jogger Fence Fine Adj]
6132	This SP adjusts the distance between the jogger fences and the sides of the stack on the finisher stapling tray in the (Booklet) Finisher B804/B805. The adjustment is done perpendicular to the direction of paper feed.

001	A3T	*ENG	
002	B4T	*ENG	
003	A4T	*ENG	
004	A4Y	*ENG	
005	B5T	*ENG	[-1.5 to 1.5 / 0 / 0.5 mm/step]
006	B5Y	*ENG	+ Value: Increases distance between jogger fences and the sides of the stack.
007	DLT-T	*ENG	- Value: Decreases the distance between the
008	LG-T	*ENG	jogger fences and the sides of the stack.
009	LT-T	*ENG	
010	LT-Y	*ENG	
011	12" x 18"	*ENG	
012	Other	*ENG	

	[Staple Position Adjustment]			
6133	Adjusts the staple position for each finisher (B408/B804/B805). + Value: Moves the staple position to the rear side. - Value: Moves the staple position to the front side.			
001	Finisher (B408/B804/ *EN B805) G		[-3.5 to 3.5 / 0 / 1/step]	

6134	[Saddle Stitch Position Adjustment]
	Use this SP to adjust the stapling position of the booklet stapler when paper is stapled and folded in the Booklet Finisher B804.

001	A3T	
002	B4T	[-3.0 to 3.0 / 0 / 0.2 mm/step]
003	A4T	+ Value: Shifts staple position toward the crease.
004	B5T	- Value: Shifts staple position away from the crease.
005	DLT-T	Feed Out
006	LG-T	J
007	LT-T	
008	12" x 18"	$\bigoplus \leftarrow \rightarrow \ominus$
009	Other	

6135	[Folder Position Adj.]			
	This SP corrects the f B804.	folding position when paper is stapled and folded in the Booklet Finisher		
001	A3T			
002	B4T	[-3.0 to 3.0 / 0 / 0.2 mm/step]		
003	A4T	+ Value: Shifts staple position toward the crease.		
004	B5T	- Value: Shifts staple position away from the crease.		
005	DLT-T	Feed Out		
006	LG-T			
007	LT-T	$\bigoplus_{i \in \mathcal{I}} \varphi_i \to \emptyset$		
800	12" x 18"			
009	Other			

6136	[Folding Number]		
	Sets the number of times that folding is done in the Booklet Finisher B804.		
001	-	[2 to 30 / 2 / 1 time/step]	

6138	[FIN (TIG) INPUT Check] Finisher (B793) Input Check
Displays the signals received from sensors and switches of the booklet finisher. (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	
6139	[FIN (KIN) INPUT Check] Finisher (B408) Input Check
	D. 1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

6139	[FIN (KIN) INPUT Check] Finisher (B408) Input Check
	Displays the signals received from sensors and switches of the booklet finisher. (IPp.627 "Main SP Tables-9" in this section)

6143	[FIN (TIG) OUPUT Check] Finisher (B793) Output Check
	Displays the signals received from sensors and switches of the booklet finisher. (**p.627** "Main SP Tables-9"in this section)

6144	[FIN (KIN) OUPUT Check] Finisher (B408) Output Check
	Displays the signals received from sensors and switches of the booklet finisher. (**p.627 "Main SP Tables-9" in this section)

6145	[FIN (ELB) INPUT Check] Finisher (D372) Input Check
	Displays the signals received from sensors and switches of the 500-sheet finisher. (IPP p.627 "Main SP Tables-9" in this section)

6146	[FIN (ELB) OUPUT Check] Finisher (D372) Output Check
	Displays the signals received from sensors and switches of the 500-sheet finisher. (*** p.627 "Main SP Tables-9" in this section)

	[Max. Pre-Stack Sheet]		*ENG	Number of Pre-Stack Sheets
6149	This SP sets the number of sheets sent to the pre-stack tray.			
0147	Note:			
	You may need to adjust this setting or switch it off when feeding thick or slick paper.			
001 - [0 to 3 / 3 / 1 sheet/step]				

	[INPUT Check]
6150	Displays the signals received from sensors and switches of the bridge unit (D386)/ side tray (D542) (1 p.627 "Main SP Tables-9" in this section).
	[OUTPUT Check]
6151	Displays the signals received from sensors and switches of the bridge unit (D386)/ side tray (D542) (1 p.627 "Main SP Tables-9" in this section).
	[INPUT Check]
6152	Displays the signals received from sensors and switches of the shift tray (D388) (p.627 "Main SP Tables-9" in this section).
	[OUTPUT Check]
6153	Displays the signals received from sensors and switches of the shift tray (D388) (p.627 "Main SP Tables-9" in this section).
	[INPUT Check]
6154	Displays the signals received from sensors and switches of the 1 bin tray (D536) (p.627 "Main SP Tables-9" in this section).
	[OUTPUT Check]
6155	Displays the signals received from sensors and switches of the 1 bin tray (D536) (Prop.627 "Main SP Tables-9" in this section)
001	1 bin: Junction Solenoid
	[INPUT Check]
6160	Displays the signals received from sensors and switches of the two-tray paper feed unit (D537), LCT 2000 (D538) and LCT 1200 (D539) (**p.627 "Main SP Tables-9" in this section)

	[OUTPUT Check]
6161	Displays the signals received from sensors and switches of the two-tray paper feed unit (D537), LCT 2000 (D538) and LCT 1200 (D539) (**p.627 "Main SP Tables-9" in this section)

Main SP Tables-7

SP7-XXX (Data Log)

7401		[Total SC Counter]				
		Displays the number of SC codes detected.				
	001	SC Counter *C		[0 to 9999 / 0 / 1/step]		

	[SC History]				
7403	Logs the SC codes detected.				
	The 10 most recently detected SC Codes are not displayed on the screen, but can be seen on the SMC (logging) outputs.				
001	Latest				
002	Latest 1				
003	Latest 2				
004	Latest 3				
005	Latest 4	*CTL	_		
006	Latest 5	CIL			
007	Latest 6	-			
008	Latest 7				
009	Latest 8				
010	Latest 9				

7502	[Total Paper Jam Counter]				
7302	Displays the total number of jams detected.				
001	Total Jam	* CTL	[0 to 9999 / 0 / 1 sheet/step]		

7503	[Total Original Jam Counter]				
	7303	Displays the total number of original jams.			
	001	Original Jam counter	*CTL	[0 to 9999 / 0 / 1 original/step]	

7504	[Paper Jam Location] ON: On check, OFF: Off Check					
7504	Displays the number of jams according to the location where jams were detected. NOTE: The LCT is counted as the 3rd feed station.					
001	At Power On	*CTL				
003	Tray 1: ON	*CTL				
004	Tray 2: ON	*CTL				
005	Tray 3: ON	*CTL				
006	Tray 4: ON	*CTL	For details, (F p.786 "Jam			
007	LCT : ON	*CTL	Detection")			
008	Bypass: ON	*CTL				
009	Duplex: ON	*CTL				
011	Vertical Transport 1: ON	*CTL				
012	Vertical Transport 2: ON	*CTL				

013	Bank: Transport Sn 1	*CTL	
014	Bank: Transport Sn2	*CTL	
017	Registration: ON	*CTL	
018	Fusing Entrance: ON	*CTL	
019	Fusing Exit: ON	*CTL	For details, (p.786 "Jam Detection")
020	Paper Exit: ON	*CTL	
021	Bridge Exit: ON	*CTL	
022	Bridge Transport: ON	*CTL	
024	Junction Gate Sensor : On	*CTL	
025	Duplex Exit: ON	*CTL	
026	Duplex Entrance: ON (Out)	*CTL	
027	Duplex Entrance: ON (Out)	*CTL	
051	Vertical Transport 1: Off	*CTL	
052	Vertical Transport 2: Off	*CTL	
053	Bank Transport 1: Off	*CTL	For details, (IF p.786 "Jam
054	Bank Transport 2: Off	*CTL	Detection")
057	Registration Sensor: Off	*CTL	
058	LCT Feed Sensor : Off		
060	Paper Exit Off	*CTL	
061	Bridge Exit: Off	*CTL	
062	Bridge Transport: Off	*CTL	

064	Junction Gate Sensor : Off	*CTL	
065	Duplex Exit: Off	*CTL	
066	Duplex Entrance: Off (In)	*CTL	
067	Duplex entrance : Off (Out)	*CTL	
100	Finisher Entrance: KIN	*CTL	
101	Finisher Shift Tray Exit: KIN	*CTL	
102	Finisher Staple: KIN	*CTL	For details, (p.786 "Jam Detection")
103	Finisher Exit: KIN	*CTL	,
105	Finisher Tray Lift Motor: KIN	*CTL	
106	Finisher Jogger Motor: KIN	*CTL	
107	Finisher Shift Motor: KIN	*CTL	
108	Finisher Staple Motor: KIN	*CTL	
109	Finisher Exit Motor: KIN	*CTL	
191	Finisher Entrance: EUP	*CTL	
192	Finisher Proof Exit: EUP	*CTL	
193	Finisher Shift Tray Exit: EUP	*CTL	
194	Finisher Stapler Exit: EUP	*CTL	
195	Finisher Exit: EUP	*CTL	
198	Finisher Folder: EUP	*CTL	
199	Finisher Tray Motor: EUP	*CTL	For details, (F p.786 "Jam Detection")
200	Finisher Jogger Motor: EUP	*CTL	,
201	Finisher Shift Motor: EUP	*CTL	
202	Finisher Staple Moving Motor: EUP	*CTL	
203	Finisher Staple Motor: EUP	*CTL	
204	Finisher Folder Motor: EUP	*CTL	
206	Finisher Punch Motor: EUP	*CTL	

7505	[Original Jam Detection]				
7303	Displays the total number of original jams by location.				
001	At Power On				
003	Skew Correction: On				
004	Registration Sensor: On				
005	Original Exit Sensor: On	*CTL	*CTL -		
053	Skew Correction: Off				
054	Registration Sensor: Off				
055	Original Exit Sensor: Off				

7506	[Jam Count by Paper Size]				
7500	Displays the number of jams according to the paper size.				
005	A4 LEF	*CTL			
006	A5 LEF	*CTL			
014	B5 LEF	*CTL	[0 to 9999 / 0 / 1 sheet/step]		
038	LT LEF	*CTL			
044	HLT LEF	*CTL			
132	A3 SEF	*CTL			
133	A4 SEF	*CTL			
134	A5 SEF	*CTL			
141	B4 SEF	*CTL			
142	B5 SEF	*CTL	[0 to 9999 / 0 / 1 sheet/step]		
160	DLT SEF	*CTL			
164	LG SEF	*CTL			
166	LT SEF	*CTL			
172	HLT SEF	*CTL			

[Plotter Jam History]			
7307	aper jams.		
001	Latest		
002	Latest 1		
003	Latest 2	*CTL	
004	Latest 3		
005	Latest 4		
006	Latest 5		-
007	Latest 6		
008	Latest 7		
009	Latest 8		
010	Latest 9		

7508	[Original Jam History]				
7308	Displays the 10 most recently detected original jams.				
001	Latest				
002	Latest-1				
003	Latest-2	- - *CTL			
004	Latest-3		-		
005	Latest-4				
006	Latest-5				
007	Latest-6				
008	Latest-7	-			
009	Latest-8				
010	Latest-9				

7624	Part Replacement Operation ON/OFF		
7024	Selects the PM maintenance for each part.		
001	K Drum Unit		
002	M Drum Unit		
003	C Drum Unit		
004	Y Drum Unit		
005	K Dev Unit		
006	M Dev Unit	[0 or 1 / 1 -] 0: Not PM maintenance	
007	C Dev Unit	1: PM maintenance	
008	Y Dev Unit		
009	K Developer		
010	M Developer		
011	C Developer		
012	Y Developer		
013	ITB Unit		
014	Belt Cleaning Unit		
015	Fusing Unit	[0 or 1 / 1 -]	
016	PTR Unit	0: Not PM maintenance	
017	Waste Toner Bottle	1: PM maintenance	
018	Fusing Roller		
019	Pressure Roller		

7801	[ROM No/ Firmware Version]				
255	Engine	*CTL	Displays all versions and ROM numbers in the machine.		

7803	[PM Counter Display] (Page, Unit, [Color])		
	Displays the number of sheets printed for each current maintenance unit. PM counters click up based on the number of A4 (LT) LEF size sheets printed. Therefore, the A3 (DLT) Double Count is activated. The Double Count cannot be deactivated. When a unit is replaced, the machine automatically detects that the new unit is installed. Then, the current PM counter value is automatically moved to the PM Counter - Previous (SP7-906-1 to 10) and is reset to "0". The total number of sheets printed with the last unit replaced can be checked with		
	SP7-906-1 to 10. NOTE: The LCT is counted as the 3rd feed station.		
001	Paper	*CTL	-
002	Page: K Drum Unit		
003	Page: M Drum Unit		
004	Page: C Drum Unit		
005	Page: Y Drum Unit	*ENG	
006	Page: K Dev Unit	EING	
007	Page: M Dev Unit		
008	Page: C Dev Unit		
009	Page: Y Dev Unit		

010	Page: K Developer			
011	Page: M Developer			
012	Page: C Developer			
013	Page: Y Developer			
014	Page: ITB Unit			
015	Page: Belt Cleaning Unit	*ENG	-	
016	Page: Fusing Unit			
017	Page: PTR Unit			
018	Page: Toner Collection Bottle			
019	Page: Fusing Roller (Heating Roller)			
020	Page: Pressure Roller			
	Displays the number of revolutions of motors or clutches for each current maintenance unit.			
	[0 to 9999999 / 0 / 1 revolution/step]			
	When a unit is replaced, the machine automatically detects that the new unit is installed. Then, the current PM counter value is automatically moved to the PM Counter - Previous (SP7-906-11 to 20) and is reset to "0". The total number of revolutions made with the last unit replaced can be checked with SP7-906-11 to 20.			

031	Rotation: K Drum Unit			
032	Rotation: M Drum Unit			
033	Rotation: C Drum Unit			
034	Rotation: Y Drum Unit			
035	Rotation: K Dev Unit			
036	Rotation: M Dev Unit	*ENG	[0000000000///1/]	
037	Rotation: C Dev Unit	ENG	[0 to 999999999 / - / 1 mm/step]	
038	Rotation: Y Dev Unit			
039	Rotation: K Developer			
040	Rotation: M Developer			
041	Rotation: C Developer			
042	Rotation: Y Developer			
043	Rotation: ITB Unit	*ENG		
044	Rotation: Cleaning Unit	*ENG		
045	Rotation: Fusing Unit	*ENG		
046	Rotation: PTR Unit	*ENG	[0 to 999999999 / - / 1 mm/step]	
047	Measurement: Toner Collection bottle	*ENG		
048	Rotation: Fusing Roller (Heating Roller)	*ENG		
049	Rotation: Pressure Roller	*ENG		
	Displays the value given by the following	formula:		
	(Current revolution Target revolution) · 100. This shows how much of the unit's expected lifetime has been used up.			
	The Rotation% counter is based on rotations, not prints. If the number of rotations reaches the limit, the machine enters the end condition for that unit. If the print count lifetime is reached first, the machine also enters the end condition, even though the R% counter is still less than 100%.			

061	Rotation (%): K Drum Unit				
062	Rotation (%): M Drum Unit				
063	Rotation (%): C Drum Unit				
064	Rotation (%): Y Drum Unit				
065	Rotation (%): K Dev Unit				
066	Rotation (%): M Dev Unit	*5.10	[0, 055 / /19//, 1		
067	Rotation (%): C Dev Unit	*ENG	[0 to 255 / - / 1 %/step]		
068	Rotation (%): Y Dev Unit				
069	Rotation (%): K Developer				
070	Rotation (%): M Developer				
071	Rotation (%): C Developer				
072	Rotation (%): Y Developer				
073	Rotation (%): ITB Unit				
074	Rotation (%): Cleaning Unit		[0 to 255 / - / 1 %/step]		
075	Rotation (%): Fusing Unit				
076	Rotation (%): PTR Unit	*ENG			
077	Measurement (%): Toner Collection bottle				
078	Rotation (%): Fusing Roller (Heating Roller)				
079	Rotation (%): Pressure Roller				
	Displays the value given by the following formula:				
	(Current printouts Target printouts) · 100. This shows how much of the unit's expected lifetime has been used up.				
	The Page% counter is based on printouts, not revolutions. If the number of printouts reaches the limit, the machine enters the end condition for that unit. If the revolution count lifetime is reached first, the machine also enters the end condition, even though the Page% counter is still less than 100%.				

091	Page (%): K PCU (Drum Unit)		
092	Page (%): M PCU (Drum Unit)		
093	Page (%): C PCU (Drum Unit)		
094	Page (%): Y PCU (Drum Unit)	*5.10	[0. 055 / /10//.]
095	Page (%): K Dev Unit	*ENG	[0 to 255 / - / 1 %/step]
096	Page (%): M Dev Unit		
097	Page (%): C Dev Unit		
098	Page (%): Y Dev Unit		
099	Page (%): K Developer		
100	Page (%): M Developer		
101	Page (%): C Developer		
102	Page (%): Y Developer		
103	Page (%): ITB Unit	*ENIC	[O to 255 / / 1 % /stom]
104	Page (%): Cleaning Unit	*ENG [0 to 255 / - / 1 %/step]	
105	Page (%): Fusing Unit		
106	Page (%): PTR Unit		
107	Page (%): Fusing Roller (Heating Roller)		
108	Page (%): Pressure Roller		

7804	[PM Counter Reset] PM Counter Clear (Unit, [Color])			
	Clears the PM counter. Press the Enter key after the machine asks "Execute?", which will store the PM counter value in SP7-906 (PM Counter - Previous) and reset the value of the current PM counter (SP7-803) to "0".			
002	PCU (Drum Unit): Bk	-	-	
003	PCU (Drum Unit): M	-	-	

004	PCU (Drum Unit): C	-	-
005	PCU (Drum Unit): Y	-	-
006	PCU (Drum Unit): All	-	-
007	Development Unit: Bk	-	-
008	Development Unit: M	-	-
009	Development Unit: C	-	-
010	Development Unit: Y	-	-
011	Development Unit: All	-	-
012	Developer: Bk	-	-
013	Developer: M	-	-
014	Developer: C	-	-
015	Developer: Y	-	-
016	Developer: All	-	-
017	ITB Unit	-	-
018	Cleaning Unit	-	-
019	Fusing Unit	-	-
020	PTR Unit	-	-
021	Toner Collection Bottle	-	-
023	Fusing Roller(Heating Roller)	-	-
024	Pressure Roller	-	-
100	All	-	-

7807	[SC/Jam Counter Reset]			
7607	Clears the counters related to SC codes and paper jams.			
001	SC/Jam Clear	-	-	

7832	[Self-Diagnose Result Display]		
7032	Displays the result of the diagn	ostics.	
001	Diag. Result	*CTL	-

7835	[ACC Counter]		
001	Сору АСС	*CTL	Disalas sub a ACC assault in the safe and all the
002	Printer ACC	*CTL	Displays the ACC exectuion times for each mode.

7836	Total Memory Size
7630	Displays the memory capacity of the controller system.

	[DF Scan Glass Dust Check Counter]		
7852	Counts the number of occurrences (0 to 65,535) when dust was detected on the scanning glass of the ADF or resets the dust detection counter. Counting is done only if SP4-020-1 (ADF Scan Glass Dust Check) is switched on.		
001	Dust Detection Counter	*CTL	[0 to 9999 / - / 1 /step]
002	Dust Detection Clear Counter	*CTL	[0 to 9999 / - / 1 /step]

7853	[Replacement Counter]
7033	Displays the PM parts replacement number.

001	K Drum Unit	*CTL	
002	M Drum Unit	*CTL	
003	C Drum Unit	*CTL	
004	Y Drum Unit	*CTL	
005	K Dev Unit	*CTL	
006	M Dev Unit	*CTL	[0 255 / /1 /]
007	C Dev Unit	*CTL	[0 to 255 / - / 1 /step]
008	Y Dev Unit	*CTL	
009	K Developer	*CTL	
010	M Developer	*CTL	
011	C Developer	*CTL	
012	Y Developer	*CTL	
013	ITB Unit	*CTL	
014	Belt Cleaning Unit	*CTL	
015	Fusing Unit	*CTL	
016	PTR Unit	*CTL	[0 to 255 / - / 1 /step]
017	Toner Collection Bottle	*CTL	
018	Fusing Roller(Heating Roller)	*CTL	
019	Pressure Roller	*CTL	

[Coverage Range] Sets the color coverage threshold. Coverage rate = Coverage per page / A4 full coverage (dots) x 100 There are three coverage counters: Color 1, Color 2, and Color 3 • [A] 5% (default) is adjustable with SP7855-001. • [B] 20% (default) is adjustable with SP7855-002. [A] [B] Color1 Color2 Color3 Color 7855 200% 0% coverage **Note** • The setting value [B] must be set larger than [A]. The total numbers of printouts (BW printing plus color printing) for each coverage range are displayed with the following SPs. • Color1 counter: SP8601-021 Color2 counter: SP8601-022 • Color3 counter: SP8601-023 001 *CTL [1 to 200 / 5 / 1]Coverage Range 1 002 Coverage Range 2 *CTL [1 to 200 / 20 / 1]

	[Prev. Unit PM Counter]
7906	(Page or Rotations, Unit, [Color]), Dev.: Development Unit
	Displays the number of sheets printed with the previous maintenance units.

001 Page: K Drum Unit 002 Page: M Drum Unit 003 Page: C Drum Unit 004 Page: Y Drum Unit 005 Page: K Dev Unit	
003 Page: C Drum Unit 004 Page: Y Drum Unit 005 Page: K Dev Unit	
004 Page: Y Drum Unit 005 Page: K Dev Unit	
005 Page: K Dev Unit	
004 B H B H B	
006 Page: M Dev Unit	1
007 Page: C Dev Unit]
008 Page: Y Dev Unit	
009 Page: K Developer	
010 Page: M Developer	
011 Page: C Developer	
012 Page: Y Developer	
013 Page: ITB Unit	
014 Page: Cleaning Unit	
015 Page: Fusing Unit	
016 Page: PTR Unit *ENG [0 to 9999999 / 0 / 1 page/step	p]
017 Page: Toner Collection Bottle	
018 Fusing Roller (Heating Roller)	
019 Pressure Roller	
Displays the number of revolutions for motors or clutches in the previous maintenance of	ınits.

031	Rotation: K Drum Unit		
032	Rotation: M Drum Unit		
033	Rotation: C Drum Unit	*ENG	
034	Rotation: Y Drum Unit		
035	Rotation: K Dev Unit		
036	Rotation: M Dev Unit		[0 to 9999999 / 0 / 1 mm/step]
037	Rotation: C Dev Unit		[0 10 9999999 / 0 / 1 mm/siep]
038	Rotation: Y Dev Unit		
039	Rotation: K Developer		
040	Rotation: M Developer		
041	Rotation: C Developer		
042	Rotation: Y Developer		
043	Rotation: ITB Unit		
044	Rotation: Cleaning Unit		
045	Rotation: Fusing Unit		
046	Rotation: PTR Unit	*ENG	[0 to 9999999 / 0 / 1 mm/step]
047	Measurement: Toner Collection bottle		
048	Rotation: Fusing Roller (Heating Roller)		
049	Rotation: Pressure Roller		
	Displays the number of sheets printed with the previous maintenance unit or toner cartridge.		

061	Rotation (%): K Drum Unit		
062	Rotation (%): M Drum Unit		
063	Rotation (%): C Drum Unit		
064	Rotation (%): Y Drum Unit	*ENG	[0. 055 / 0 /10//]
065	Rotation (%): K Dev Unit		[0 to 255 / 0 / 1 %/step]
066	Rotation (%): M Dev Unit		
067	Rotation (%): C Dev Unit		
068	Rotation (%): Y Dev Unit		
069	Rotation (%): K Developer		
070	Rotation (%): M Developer		
071	Rotation (%): C Developer		
072	Rotation (%): Y Developer		
073	Rotation (%): ITB Unit		
074	Rotation (%): Cleaning Unit		
075	Rotation (%): Fusing Unit	*ENG	[0 to 255 / 0 / 1 %/step]
076	Rotation (%): PTR Unit		
077	Measurement (%): Toner Collection bottle		
078	Rotation: Fusing Roller (Heating Roller)		
079	Rotation: Pressure Roller		
	Displays the value given by the following formula: (Current count Yield count) x 100, where "Current count" is the current values in the counter for the part, and "Yield count" is the recommended yield.		

091	Page (%): K Drum Unit	*ENG	
092	Page (%): M Drum Unit		
093	Page (%): C Drum Unit		
094	Page (%): Y Drum Unit		
095	Page (%): K Dev Unit		
096	Page (%): M Dev Unit		[0 to 255 / 0 / 1 %/step]
097	Page (%): C Dev Unit		
098	Page (%): Y Dev Unit		
099	Page (%): K Developer		
100	Page (%): M Developer		
101	Page (%): C Developer		
102	Page (%): Y Developer		
103	Page (%): ITB Unit		
104	Page (%): Cleaning Unit		[0 to 255 / 0 / 1 %/step]
105	Page (%): Fusing Unit	*ENG	
106	Page (%): PTR Unit	EING	
107	Page (%): Fusing Roller (Heating Roller)		
108	Page (%): Pressure Roller		

7021	[Toner Bottle Bk]
7 7 3 1	Displays the toner bottle information for Bk.

001	Machine Serial ID	
002	Cartridge Ver	
003	Brand ID	
004	Area ID	
005	Product ID	
006	Color ID	
007	Maintenance ID	
800	New Product Information	
009	Recycle Counter	
010	Date	*ENG
011	Serial No.	
012	Toner Remaining	
013	EDP Code	
014	End History	
015	Refill Information	
016	Attachment: Total Counter	
017	Attachment: Color Counter	
018	End: Total Counter	
019	End: Color Counter	
020	Attachment Date	
021	End Date	

7032	[Toner Bottle M]
7932	Displays the toner bottle information for M.

001	Machine Serial ID		
002	Cartridge Ver		
003	Brand ID		
004	Area ID		
005	Product ID		
006	Color ID	*ENG	VG
007	Maintenance ID		
008	New Product Information		
009	Recycle Counter		
010	Date		
011	Serial No.		
012	Toner Remaining	*ENG -	
013	EDP Code		
014	End History		
015	Refill Information		
016	Attachment: Total Counter		
017	Attachment: Color Counter		
018	End: Total Counter		
019	End: Color Counter		
020	Attachment Date		
021	End Date		

7933	[Toner Bottle C]
1	Displays the toner bottle information for C.

		I	1
001	Machine Serial ID		
002	Cartridge Ver		
003	Brand ID		
004	Area ID		
005	Product ID		
006	Color ID	*ENG	-
007	Maintenance ID		
800	New Product Information		
009	Recycle Counter		
010	Date		
011	Serial No.		
012	Toner Remaining		
013	EDP Code		
014	End History		
015	Refill Information		
016	Attachment: Total Counter	*ENG	
017	Attachment: Color Counter	^ENG -	
018	End: Total Counter		
019	End: Color Counter		
020	Attachment Date		
021	End Date		

7934	[Toner Bottle Y]
7934	Displays the toner bottle information for Y.

001	Machine Serial ID		
002	Cartridge Ver		
003	Brand ID		
004	Area ID		
005	Product ID		
006	Color ID	*ENG	VG
007	Maintenance ID		
008	New Product Information		
009	Recycle Counter		
010	Date		
011	Serial No.		
012	Toner Remaining	*ENG -	
013	EDP Code		
014	End History		
015	Refill Information		
016	Attachment: Total Counter		
017	Attachment: Color Counter		
018	End: Total Counter		
019	End: Color Counter		
020	Attachment Date		
021	End Date		

7935	[Toner Bottle Log 1: Bk]
------	--------------------------

001	Serial No.	*ENG	Displays the toner bottle information log 1 for Bk.
002	Attachment Date		
003	Attachment: Total Counter		
004	Refill Information		
011	Serial No.		
012	Attachment Date	*ENIC	Displays the toner bottle information
013	Attachment: Total Counter	*ENG	log 2 for Bk.
014	Refill Information		
021	Serial No.	*ENG	Displays the toner bottle information log 3 for Bk.
022	Attachment Date		
023	Attachment: Total Counter		
024	Refill Information		
031	Serial No.		Displays the toner bottle information log 4 for Bk.
032	Attachment Date	*ENG	
033	Attachment: Total Counter	ENG	
034	Refill Information		
041	Serial No.		
042	Attachment Date	*ENG	Displays the toner bottle information log 5 for Bk.
043	Attachment: Total Counter		
044	Refill Information		

7936	[Toner Bottle Log 1: M]		
001	Serial No.		
002	Attachment Date	*ENG	Displays the toner bottle information
003	Attachment: Total Counter	EING	log 1 for M.
004	Refill Information		

011	Serial No.		
012	Attachment Date	*ENG	Displays the toner bottle information log 2 for M.
013	Attachment: Total Counter		
014	Refill Information		
021	Serial No.		
022	Attachment Date	*ENG	Displays the toner bottle information
023	Attachment: Total Counter		log 3 for M.
024	Refill Information		
031	Serial No.	*ENG	Displays the toner bottle information log 4 for M.
032	Attachment Date		
033	Attachment: Total Counter		
034	Refill Information		
041	Serial No.		
042	Attachment Date	*FNG	Displays the toner bottle information log 5 for M.
043	Attachment: Total Counter	"ENG	
044	Refill Information		

7937	[Toner Bottle Log 1: C]		
001	Serial No.	*ENG	Displays the toner bottle information log 1 for C.
002	Attachment Date		
003	Attachment: Total Counter		
004	Refill Information		
011	Serial No.	*ENG	Displays the toner bottle information log 2 for C.
012	Attachment Date		
013	Attachment: Total Counter		
014	Refill Information		

021	Serial No.	*ENG	Displays the toner bottle information log 3 for C.
022	Attachment Date		
023	Attachment: Total Counter		
024	Refill Information		
031	Serial No.	*ENG	Displays the toner bottle information log 4 for C.
032	Attachment Date		
033	Attachment: Total Counter		
034	Refill Information		
041	Serial No.	*ENG	Displays the toner bottle information log 5 for C.
042	Attachment Date		
043	Attachment: Total Counter		
044	Refill Information		

7938	[Toner Bottle Log 1: Y]			
001	Serial No.	*ENG	Displays the toner bottle information log 1 for Y.	
002	Attachment Date			
003	Attachment: Total Counter			
004	Refill Information			
011	Serial No.	*ENG	Displays the toner bottle information log 2 for Y.	
012	Attachment Date			
013	Attachment: Total Counter			
014	Refill Information			
021	Serial No.	*ENG	Displays the toner bottle information log 3 for Y.	
022	Attachment Date			
023	Attachment: Total Counter			
024	Refill Information			

031	Serial No.		
032	Attachment Date	*ENG	Displays the toner bottle information
033	Attachment: Total Counter		log 4 for Y.
034	Refill Information		
041	Serial No.		
042	Attachment Date	*ENG	Displays the toner bottle information
043	Attachment: Total Counter		log 5 for Y.
044	Refill Information		

7950	[Unit Replacement Date]		
7930	Displays the replacement date of each PM unit.		
001	Image Transfer Belt		
002	Cleaning Unit		
003	Paper Transfer Unit		
004	Fusing Unit		
005	Toner Collection Bottle		
006	K PCU (Drum Unit)	*ENG	-
007	M PCU (Drum Unit)		
008	C PCU (Drum Unit)		
009	Y PCU (Drum Unit)		
010	Fusing Roller (Heating Roller)		
011	Pressure Roller		

7951	[Remaining Day Counter]	
7931	Displays the remaining unit life of each PM unit.	

001	Page: K Drum Unit		
002	Page: M Drum Unit		
003	Page: C Drum Unit		
004	Page: Y Drum Unit		
005	Page: K Dev Unit	*ENG	
006	Page: M Dev Unit		
007	Page: C Dev Unit	ENG	[0 to 255 / 255 / 1 day/step]
800	Page: Y Dev Unit		
009	Page: K Developer		
010	Page: M Developer		
011	Page: C Developer		
012	Page: Y Developer		
013	Page: ITB Unit		
014	Page: Cleaning Unit		
015	Page: Fusing Unit	*5510	[0.1. 055 / 055 / 1 day/11.1
016	Page: PTR Unit	*ENG	[0 to 255 / 255 / 1 day/step]
017	Page: Fusing Roller (Heating Roller)		
018	Page: Pressure Roller		

001	D. J. KD. III.		
031	Rotation: K Drum Unit		
032	Rotation: M Drum Unit		
033	Rotation: C Drum Unit		
034	Rotation: Y Drum Unit		
035	Rotation: K Dev Unit		
036	Rotation: M Dev Unit	*ENG	[0 to 255 / 255 / 1 day/stan]
037	Rotation: C Dev Unit	LING	[0 to 255 / 255 / 1 day/step]
038	Rotation: Y Dev Unit		
039	Rotation: K Developer		
040	Rotation: M Developer		
041	Rotation: C Developer		
042	Rotation: Y Developer		
043	Rotation: ITB Unit		
044	Rotation: Cleaning Unit		
045	Rotation: Fusing Unit		
046	Rotation: PTR Unit		
047	Measurement: Toner Collection bottle	*ENG	[0 to 255 / 255 / 1 day/step]
048	Rotation: Fusing Roller (Heating Roller)		
049	Rotation: Pressure Roller		

7952	[PM Yield Setting]			
7932	Adjusts the unit yield of each PM unit.			
001	Rotation: ITB Unit	*CTL	[0 to 99999999 / 256597000 / 1 mm/step]	
002	Rotation: Cleaning Unit	*CTL	[0 to 999999999 / 128299000 / 1 mm/step]	
003	Rotation: Fusing Unit	*CTL	[0 to 99999999 / 155595000 / 1 mm/step]	

004	Rotation: Paper Transfer Unit	*CTL	[0 to 999999999 / 192448000 / 1 mm/step]
011	Page: ITB Unit	*CTL	[0 to 999999 / 320000 / 1 sheet/step]
012	Page: Cleaning Unit	*CTL	[0 to 999999 / 160000 / 1 sheet/step]
013	Page: Fusing Unit	*CTL	[0 to 999999 / 160000 / 1 sheet/step]
014	Page: Paper Transfer Unit	*CTL	[0 to 999999 / 240000 / 1 sheet/step]
021	Day: K Drum Unit		
022	Day: M Drum Unit		
023	Day: C Drum Unit	-	
024	Day: Y Drum Unit		
025	Day: K Dev Unit		Adjusts the threshold day for the near end fro each
026	Day: M Dev Unit	*CTL	PM unit.
027	Day: C Dev Unit	CIL	[1 to 30 / 15 / 1 day/step]
028	Day: Y Dev Unit		These threshold days are used for @Remote alarms
029	Day: K Developer		
030	Day: M Developer		
031	Day: C Developer		
032	Day: Y Developer		
033	Day: ITB Unit	_	
034	Day:Cleaning Unit		Adjusts the threshold day for the near end fro each
035	Day: Fusing Unit	*CTL	PM unit. [1 to 30 / 15 / 1 day/step]
036	Day: PTR Unit		These threshold days are used for @Remote alarms.
037	Day: Toner Collection Botte		
038	Rotation: PCU (Drum Unit): Bk		
039	Rotation: PCU (Drum Unit): M	*CTI	[0 to 000000000 / 0 / 1 / to 1
040	Rotation: PCU (Drum Unit): C	*CTL	[0 to 999999999 / 0 / 1 mm/step]
041	Rotation: PCU (Drum Unit): Y		

042	Rotation: Development Unit: Bk		
043	Rotation: Development Unit: M	*CTL	[0 to 999999999 / 0 / 1 mm/step]
044	Rotation: Development Unit: C	CIL	
045	Rotation: Development Unit: Y		
046	Rotation: Developer: Bk		
047	Rotation: Developer: M	*CTL	[0 to 999999999 / 0 / 1 mm/step]
048	Rotation: Developer: C	CIL	[O 10 999999999 / O / 1 mm/siep]
049	Rotation: Developer: Y		
050	Page: PCU (Drum Unit): Bk		
051	Page: PCU (Drum Unit): M	*CTL	[0 to 999999 / 0 / 1 sheet/step]
052	Page: PCU (Drum Unit): C		
053	Page: PCU (Drum Unit): Y		
054	Page: Development Unit: Bk	+ 671	
055	Page: Development Unit: M		[0 to 999999 / 0 / 1 sheet/step]
056	Page: Development Unit: C	*CTL	[0 10 777777 0 / 1 street/step]
057	Page: Development Unit: Y		
058	Page: Developer: Bk		
059	Page: Developer: M	*CTL	[0 to 999999 / 0 / 1 sheet/step]
060	Page: Developer: C	CIL	[O IO 177777 / U / I sneet/step]
061	Page: Developer: Y		

7953	[Operation Env. Log: PCU: Bk]
	Displays the PCDU rotation distance in each specified operation environment.
	T: Temperature (°C), H: Relative Humidity (%)

001	T<=0		
002	0 <t<=5:0<=h<30< td=""><td></td></t<=5:0<=h<30<>		
003	0 <t<=5: 30<="H<70</td"><td></td></t<=5:>		
004	0 <t<=5: 70<="H<=100</td"><td></td></t<=5:>		
005	5 <t<15: 0<="H<30</td"><td>*CTL</td><td>[0 to 99999999 / - / 1 mm/step]</td></t<15:>	*CTL	[0 to 99999999 / - / 1 mm/step]
006	5 <t<15: 30<="H<55</td"><td>CIL</td><td>[O IO 4444444 / - / Tillilly siep]</td></t<15:>	CIL	[O IO 4444444 / - / Tillilly siep]
007	5 <t<15: 55<="H<80</td"><td></td><td></td></t<15:>		
008	5 <t<15: 80<="H<=100</td"><td></td><td></td></t<15:>		
009	15<=T<25: 0<=H<30		
010	15<=T<25: 30<=H<55		
011	15<=T<25: 55<=H<80		
012	15<=T<25: 80<=H<=100		
013	25<=T<30: 0<=H<30		
014	25<=T<30: 55<=H<55		
015	25<=T<30: 55<=H<80	*CTL	[0.4-00000000 / /1 /-4]
016	25<=T<30: 80<=H<=100	CIL	[0 to 99999999 / - / 1 mm/step]
017	30<=T: 0<=H<30		
018	30<=T: 30<=H<55		
019	30<=T: 55<=H<80		
020	30<=T: 80<=H<=100		

7954	[Operation Env. Log Clear]		
	Clears the operation environmen	ent log.	
001		-	

7955	Fusing Stop
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001	Near End: Page	-	[1 to 999999 / 318000 / 1 sheet/step]		
001	Displays the threshold sheet for the heating roller near end.				
000	End: Page	-	[1 to 999999 / 330000 / 1 sheet/step]		
002	Displays the threshold sheet for the heating roller end.				
003	Near End: Rotation	-	[0 to 99999999 / 99999999 / 1 mm/step]		
	Displays the threshold distance for the heating roller near end.				
00.4	End: Rotation	-	[0 to 99999999 / 99999999 / 1 mm/step]		
004	Displays the threshold distance for the heating roller end.				

Main SP Tables-8

SP8-xxx: Data Log2

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	
SP8211 to SP8216	The number of pages scanned to the document server.	
SP8401 to SP8406	The number of pages printed from the document server	
SP8691 to SP8696	The number of pages sent from 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.		
F:	Fax application.	Totals (pages, jobs, etc.) executed for each application when	
P:	Print application.	the job was not stored on the document server.	
S:	Scan application.		

L:	Local storage (document server)	Totals (jobs, pages, etc.) for the document server. The L: counters work 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 (external network applications, for example)	Refers to network applications such as Web Image Monitor. Utilities developed with the SDK (Software Development Kit) will also be counted with this group in the future.

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

Abbreviation	What it means	
/	"By", e.g. "T:Jobs/Apl" = Total Jobs "by" Application	
>	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	

Abbreviation	What it means	
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 machin 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 evenly among the printers on the network, and allows files to moved around, combined, and converted to different formats.	

Abbreviation	What it means	
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	Simplex, printing on 1 side.	
S-to-Email	Scan-to-E-mail	
SMC	SMC report printed with SP5990. 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	



 $\bullet\,\,$ All of the Group 8 SPs are reset with SP5 801 1 Memory All Clear.

8 001	T:Total Jobs	*CTL	These SPs count the number of times each application is used	
8 002	C:Total Jobs	*CTL	to do a job.	
8 003	F:Total Jobs	*CTL	[0 to 9999999/0/1] Note: The L: counter is the total number of times the other applications are used to send a job to the document server,	
8 004	P:Total Jobs	*CTL		
8 005	S:Total Jobs	*CTL	plus the number of times a file already on the document server is used.	
8 006	L:Total Jobs	*CTL		

- These SPs reveal the number of times an application is used, not the number of pages processed.
- When an application is opened for image input or output, this counts as one job.
- Interrupted jobs (paper jams, etc.) are counted, even though they do not finish.
- Only jobs executed by the customer are counted. Jobs executed by the customer engineer using the SP modes are not counted.
- When using secure printing (when a password is required to start the print job), the job is counted at the time when either "Delete Data" or "Specify Output" is specified.
- A job is counted as a fax job when the job is stored for sending.
- When a fax is received to fax memory, the F: counter increments but the L: counter does not (the document server is not used).
- A fax broadcast counts as one job for the F: counter (the fax destinations in the broadcast are not counted separately).
- A fax broadcast is counted only after all the faxes have been sent to their destinations. If one
 transmission generates an error, then the broadcast will not be counted until the transmission has been
 completed.
- A printed fax report counts as one job for the F: counter.
- The F: counter does not distinguish between fax sending or receiving.
- When a copy job on the document server is printed, SP8022 also increments, and when a print job stored on the document server is printed, SP8024 also increments.
- When an original is both copied and stored on the document server, the C: and L: counters both increment.
- When a print job is stored on the document server, only the L: counter increments.
- When the user presses the Document Server button to store the job on the document server, only the L: counter increments.
- When the user enters document server mode and prints data stored on the document server, only the L: counter increments.

- When an image received from Palm 2 is received and stored, the L: counter increments.
- When the customer prints a report (user code list, for example), the O: counter increments. However, for fax reports and reports executed from the fax application, the F: counter increments.

8 011	T:Jobs/LS	*CTL	
8 012	C:Jobs/LS	*CTL	These SPs count the number of jobs stored to the document
8 013	F:Jobs/LS	*CTL	server by each application, to reveal how local storage is being used for input. [0 to 9999999 / 0 / 1]
8 014	P:Jobs/LS	*CTL	
8 015	S:Jobs/LS	*CTL	The L: counter counts the number of jobs stored from within
8 016	L:Jobs/LS	*CTL	the document server mode screen at the operation panel.
8 017	O:Jobs/LS	*CTL	

- When a scan job is sent to the document server, the S: counter increments. When you enter document server mode and then scan an original, the L: counter increments.
- When a print job is sent to the document server, the P: counter increments.
- When a network application sends data to the document server, the O: counter increments.
- When an image from Palm 2 is stored on the document server, the O: counter increments.
- When a fax is sent to the document server, the F: counter increments.

8 021	T:Pjob/LS	*CTL	
8 022	C:Pjob/LS	*CTL	These SPs reveal how files printed from the document
8 023	F:Pjob/LS	*CTL	server were stored on the document server originally
8 024	P:Pjob/LS	*CTL	[0 to 9999999/ 0 / 1] The L: counter counts the number of jobs stored from
8 025	S:Pjob/LS	*CTL	within the document server mode screen at the
8 026	L:Pjob/LS	*CTL	operation panel.
8 027	O:Pjob/LS	*CTL	

- When a copy job stored on the document server is printed with another application, the C: counter increments.
- When an application like DeskTopBinder merges a copy job that was stored on the document server with a print job that was stored on the document server, the C: and P: counters both increment.
- When a job already on the document server is printed with another application, the L: counter increments.

- When a scanner job stored on the document server is printed with another application, the S: counter increments. If the original was scanned from within document server mode, then the L: counter increments.
- When images stored on the document server by a network application (including Palm 2), are printed with another application, the O: counter increments.
- When a copy job stored on the document server is printed with a network application (Web Image Monitor, for example), the C: counter increments.
- When a fax on the document server is printed, the F: counter increments.

8 031	T:Pjob/DesApl	*CTL	
8 032	C:Pjob/DesApl	*CTL These SPs reveal what applications wer	These SPs reveal what applications were used to output
8 033	F:Pjob/DesApl	*CTL	documents from the document server.
8 034	P:Pjob/DesApl	*CTL	[0 to 9999999/ 0 / 1] The L: counter counts the number of jobs printed from
8 035	S:Pjob/DesApl	*CTL	within the document server mode screen at the
8 036	L:Pjob/DesApl	*CTL	operation panel.
8 037	O:Pjob/DesApl	*CTL	

- When documents already stored on the document server are printed, the count for the application that started the print job is incremented.
- When the print job is started from a network application (Desk Top Binder, Web Image Monitor, etc.)
 the L: counter increments.

8 041	T:TX Jobs/LS	*CTL	These SPs count the applications that stored files on the
8 042	C:TX Jobs/LS	*CTL	document server that were later accessed for transmission over the telephone line or over a network
8 043	F:TX Jobs/LS	*CTL	(attached to an e-mail, or as a fax image by I-Fax).
8 044	P:TX Jobs/LS	*CTL	[0 to 9999999/ 0 / 1] Note: Jobs merged for sending are counted
8 045	S:TX Jobs/LS	*CTL	separately.
8 046	L:TX Jobs/LS	*CTL	The L: counter counts the number of jobs scanned from within the document server mode screen at the
8 047	O:TX Jobs/LS	*CTL	operation panel.

- When a stored copy job is sent from the document server, the C: counter increments.
- When images stored on the document server by a network application or Palm2 are sent as an e-mail, the O: counter increments.

8 051	T:TX Jobs/DesApl	*CTL	The CD country and the control of the country of th
8 052	C:TX Jobs/DesApl	*CTL	These SPs count the applications used to send files from the document server over the telephone line or over a
8 053	F:TX Jobs/DesApl	*CTL	network (attached to an e-mail, or as a fax image by I-Fax). Jobs merged for sending are counted
8 054	P:TX Jobs/DesApl	*CTL	separately.
8 055	S:TX Jobs/DesApl	*CTL	[0 to 9999999/ 0 / 1] The L: counter counts the number of jobs sent from
8 056	L:TX Jobs/DesApl	*CTL	within the document server mode screen at the
8 057	O:TX Jobs/DesApl	*CTL	operation panel.

• If the send is started from Desk Top Binder or Web Image Monitor, for example, then the O: counter increments.

	T:FIN Jobs	*CTL	[0 to 9999999/ 0 / 1]			
8 061	These SPs total the finishing methods. The finishing method is specified by the application.					
	C:FIN Jobs	*CTL	[0 to 9999999/ 0 / 1]			
8 062	These SPs total finishing methods for copy jobs only. The finishing method is specified by the application.					
	F:FIN Jobs	*CTL	[0 to 9999999/ 0 / 1]			
8 063	These SPs total finishing methods for fax jobs only. The finishing method is specified by the application.					
	Note: Finishing features for fax jobs are not available at this time.					
	P:FIN Jobs	*CTL	[0 to 9999999/ 0 / 1]			
8 064	These SPs total finishing methods for print jobs only. The finishing method is specified by the application.					
	S:FIN Jobs	*CTL	[0 to 9999999/ 0 / 1]			
8 065	These SPs total finishing methods for scan jobs only. The finishing method is specified by the application.					
	Note: Finishing features for scan jobs are not available at this time.					

	L:FIN Jobs		*CTL	[0 to 9999999/ 0 / 1]			
8 066	screen at t	These SPs total finishing methods for jobs output from within the document server mode screen at the operation panel. The finishing method is specified from the print window within document server mode.					
	O:FIN Job	s	*CTL	[0 to 9999999/ 0 / 1]			
8 067		•	•	obs executed by an external application, over the ified by the application.			
8 06x 1	Sort	Number of jobs started in Sort mode. When a stored copy job is set for Sort and then stored on the document server, the L: counter increments. (See SP8 066 1)					
8 06x 2	Stack	Number of jobs started out of Sort mode.					
8 06x 3	Staple	Number of jobs started in Staple mode.					
8 06x 4	Booklet	Number of jobs started in Booklet mode. If the machine is in staple mode, the Staple counter also increments.					
8 06x 5	Z-Fold	Number of jobs started In any mode other than the Booklet mode and set for folding (Z-fold).					
8 06x 6	Punch	Number of jobs started in Punch mode. When Punch is set for a print job, the P: counter increments. (See SP8 064 6.)					
8 06x 7	Other	Reserved. Not used.					

	T:Jobs/PGS	*CTL	[0 to 9999999/ 0 / 1]		
8 071	These SPs count the number of jobs broken down by the number of pages in the job, regardless of which application was used.				
	C:Jobs/PGS	*CTL	[0 to 9999999/ 0 / 1]		
8 072	These SPs count and calculate the number of copy jobs by size based on the number of pages in the job.				
	F:Jobs/PGS	*CTL	[0 to 9999999/ 0 / 1]		
8 073	These SPs count and calculate the number of fax jobs by size based on the number of pages in the job.				

	P:Jobs/PGS	*CTL	[0 to 9	999999/0/1]	
8 074	These SPs count and calculate the number of print jobs by size based on the number of pages in the job.				
	S:Jobs/PGS		[0 to 9	999999/ 0 /1]	
8 075	These SPs count and calculate the number of scan jobs by size based on the number of pages in the job.				
	L:Jobs/PGS	*CTL	[0 to 9	999999/ 0 /1]	
8 076	These SPs count and calculate the number of jobs printed from within the document server mode window at the operation panel, by the number of pages in the job.				
	O:Jobs/PGS	*CTL	[0 to 9	[0 to 9999999/ 0 / 1]	
8 077	These SPs count and calculate the number of "Other" application jobs (Web Image Monitor, Palm 2, etc.) by size based on the number of pages in the job.				
8 07x 1	1 Page	8 07x	8	21 to 50 Pages	
8 07x 2	2 Pages	8 07x	9	51 to 100 Pages	
8 07x 3	3 Pages	8 07x	10	101 to 300 Pages	
8 07x 4	4 Pages	8 07x	11	301 to 500 Pages	
8 07x 5	5 Pages	8 07x	12	501 to 700 Pages	
8 07x 6	6 to 10 Pages	8 07x	13	701 to 1000 Pages	
8 07x 7	11 to 20 Pages	8 07x	14	1001 to Pages	

- For example: When a copy job stored on the document server is printed in document server mode, the appropriate L: counter (SP8076 0xx) increments.
- Printing a fax report counts as a job and increments the F: counter (SP 8073).
- Interrupted jobs (paper jam, etc.) are counted, even though they do not finish.
- If a job is paused and re-started, it counts as one job.
- If the finisher runs out of staples during a print and staple job, then the job is counted at the time the error occurs.
- For copy jobs (SP 8072) and scan jobs (SP 8075), the total is calculated by multiplying the number of sets of copies by the number of pages scanned. (One duplex page counts as 2.)
- The first test print and subsequent test prints to adjust settings are added to the number of pages of the copy job (SP 8072).

• When printing the first page of a job from within the document server screen, the page is counted.

	T:FAX TX Jobs	*CTL	[0 to 9999999/ 0 / 1]		
8 111	These SPs count the total number of jobs (color or black-and-white) sent by fax, either directly or using a file stored on the document server, on a telephone line.				
	Note: Color fax sending is not available at this time.				
	F: FAX TX Jobs	*CTL	[0 to 9999999/ 0 / 1]		
8 113	These SPs count the total number of jobs (color or black-and-white) sent by fax directly on a telephone line.				
	Note: Color fax sending	is not avail	able at this time.		
8 11x 1	B/W				
8 11x 2	Color				

- These counters count jobs, not pages.
- This SP counts fax jobs sent over a telephone line with a fax application, including documents stored on the document server.
- If the mode is changed during the job, the job will count with the mode set when the job started.
- If the same document is faxed to both a public fax line and an I-Fax at a destination where both are available, then this counter increments, and the I-Fax counter (8 12x) also increments.
- The fax job is counted when the job is scanned for sending, not when the job is sent.

	T:IFAX TX Jobs	*CTL	[0 to 9999999/ 0 / 1]			
8 121	These SPs count the total number of jobs (color or black-and-white) sent, either directly or using a file stored on the document server, as fax images using I-Fax.					
	Note: Color fax sending	Note: Color fax sending is not available at this time.				
	F: IFAX TX Jobs	*CTL	[0 to 9999999/ 0 / 1]			
8 123	These SPs count the num document server), as far Note : Color fax sending					
8 12x 1	B/W					
8 12x 2	Color					

• These counters count jobs, not pages.

- The counters for color are provided for future use; the color fax feature is not available at this time.
- The fax job is counted when the job is scanned for sending, not when the job is sent.

	T:S-to-Email Jobs	*CTL	[0 to 9999999/ 0 / 1]		
8 131	These SPs count the total number of jobs (color or black-and-white) scanned and attached to an e-mail, regardless of whether the document server was used or not.				
	S: S-to-Email Jobs	*CTL	[0 to 9999999/ 0 / 1]		
8 135	These SPs count the number of jobs (color or black-and-white) scanned and attached to e-mail, without storing the original on the document server.				
8 13x 1	B/W				
8 13x 2	Color				
8 13x 3	ACS				

- These counters count jobs, not pages.
- If the job is stored on the document server, after the job is stored it is determined to be color or blackand-white then counted.
- If the job is cancelled during scanning, or if the job is cancelled while the document is waiting to be sent, the job is not counted.
- If the job is cancelled during sending, it may or may not be counted, depending on what stage of the process had been reached when the job was cancelled.
- If several jobs are combined for sending to the Scan Router, Scan-to-Email, or Scan-to-PC, or if one
 job is sent to more than one destination. each send is counted separately. For example, if the same
 document is sent by Scan-to-Email as well as Scan-to-PC, then it is counted twice (once for Scan-to-Email and once for Scan-to-PC).

	T:Deliv Jobs/Svr	*CTL	[0 to 9999999/ 0 / 1]		
8 141	These SPs count the total number of jobs (color or black-and-white) scanned and sent to a Scan Router server.				
	S: Deliv Jobs/Svr	*CTL	[0 to 9999999/ 0 / 1]		
8 145	These SPs count the number of jobs (color or black-and-white) scanned in scanner mode and sent to a Scan Router server.				
8 14x 1	B/W				
8 14x 2	Color				

8 14x 3 ACS

- These counters count jobs, not pages.
- The jobs are counted even though the arrival and reception of the jobs at the Scan Router server cannot be confirmed.
- If even one color image is mixed with black-and-white images, then the job is counted as a "Color" iob.
- If the job is cancelled during scanning, or if the job is cancelled while the document is waiting to be delivered, the job is not counted.
- If the job is cancelled during sending, it may or may not be counted, depending on what stage of the process had been reached when the job was cancelled.
- Even if several files are combined for sending, the transmission counts as one job.

	T:Deliv Jobs/PC	*CTL	[0 to 9999999/ 0 / 1]			
8 151	These SPs count the total number of jobs (color or black-and-white) scanned and sent to a folder on a PC (Scan-to-PC).					
	Note: At the present time, 8	Note : At the present time, 8 151 and 8 155 perform identical counts.				
	S:Deliv Jobs/PC	*CTL	[0 to 9999999/ 0 / 1]			
8 155	These SPs count the total number of jobs (color or black-and-white) scanned and sent with Scan-to-PC.					
8 15x 1	B/W					
8 15x 2	Color					
8 15x 3	ACS					

- These counters count jobs, not pages.
- If the job is cancelled during scanning, it is not counted.
- If the job is cancelled while it is waiting to be sent, the job is not counted.
- If the job is cancelled during sending, it may or may not be counted, depending on what stage of the process had been reached when the job was cancelled.
- Even if several files are combined for sending, the transmission counts as one job.

8 161	T:PCFAX TX Jobs	*CTL	These SPs count the number of PC Fax transmission
8 163 F:PCFAX TX Jobs *CTL	jobs. A job is counted from when it is registered for sending, not when it is sent.		
	*CTL	[0 to 9999999/ 0 / 1]	
	Note: At the present time, these counters perform identical counts.		

• This counts fax jobs started from a PC using a PC fax application, and sending the data out to the destination from the PC through the copier.

8 171	T:Deliv Jobs/WSD	*CTL	These SPs count the pages scanned by WS.		
8 175	S:Deliv Jobs/WSD	*CTL	[0 to 9999999/ 0 / 1]		
-001	B/W				
-002	Color				
-003	ACS				

8 181	T:Scan to Media Jobs	*CTL	These SPs count the scanned pages in a media by the
8 185	S:Scan to Media Jobs	*CTL	scanner application. [0 to 9999999/ 0 / 1]
-001	B/W		
-002	Color		
-003	ACS		

8 191	T:Total Scan PGS	*CTL	
8 192	C:Total Scan PGS	*CTL	These SPs count the pages scanned by each
8 193	F:Total Scan PGS	*CTL	application that uses the scanner to scan images.
8 195	S:Total Scan PGS	*CTL	[0 to 9999999/ 0 / 1]
8 196	L:Total Scan PGS	*CTL	

- SP 8 191 to 8 196 count the number of scanned sides of pages, not the number of physical pages.
- These counters do not count reading user stamp data, or reading color charts to adjust color.
- Previews done with a scanner driver are not counted.

- A count is done only after all images of a job have been scanned.
- Scans made in SP mode are not counted.

Examples

- If 3 B5 pages and 1 A3 page are scanned with the scanner application but not stored, the S: count is 4.
- If both sides of 3 A4 sheets are copied and stored to the document server using the Store File button in the Copy mode window, the C: count is 6 and the L: count is 6.
- If both sides of 3 A4 sheets are copied but not stored, the C: count is 6.
- If you enter document server mode then scan 6 pages, the L: count is 6.

	T:LSize Scan PGS	*CTL	[0 to 9999999/ 0 / 1]					
8 201	These SPs count the total number of large pages input with the scanner for scan and copy jobs. Large size paper (A3/DLT) scanned for fax transmission are not counted.							
	Note: These counters are disp	layed in the	SMC Report, and in the User Tools display.					
	F: LSize Scan PGS	*CTL	[0 to 9999999/ 0 / 1]					
8 203	These SPs count the total number of large pages input with the scanner for fax transm							
	Note: These counters are displayed in the SMC Report, and in the User Tools display.							
	S:LSize Scan PGS	*CTL	[0 to 9999999/ 0 / 1]					
8 205	These SPs count the total number of large pages input with the scanner for scan jobs only. Large size paper (A3/DLT) scanned for fax transmission are not counted.							
	Note: These counters are disp	layed in the	SMC Report, and in the User Tools display.					

8 211	T:Scan PGS/LS	*CTL	These SPs count the number of pages scanned into the
8 212	C:Scan PGS/LS	*CTL	document server . [0 to 9999999 / 0 / 1]
8 213	F:Scan PGS/LS	*CTL	The L: counter counts the number of pages stored from
8 215	S:Scan PGS/LS	*CTL	within the document server mode screen at the operation panel, and with the Store File button from
8 216	L:Scan PGS/LS	*CTL	within the Copy mode screen

- Reading user stamp data is not counted.
- If a job is cancelled, the pages output as far as the cancellation are counted.
- If the scanner application scans and stores 3 B5 sheets and 1 A4 sheet, the S: count is 4.
- If pages are copied but not stored on the document server, these counters do not change.

- If both sides of 3 A4 sheets are copied and stored to the document server, the C: count is 6 and the L: count is 6.
- If you enter document server mode then scan 6 pages, the L: count is 6.

8 221	ADF Org F	OF Org Feeds		[0 to 9999999/ 0 / 1]	
0 221	These SPs count the number of pages fed through the ADF for front and back side scann				
8 221 1	Front	Number of front sides fed for scanning: With an ADF that can scan both sides simultaneously, the Front side count is the same as the number of pages fed for either simplex or duplex scanning. With an ADF that cannot scan both sides simultaneously, the Front side count is the same as the number of pages fed for duplex front side scanning. (The front side is determined by which side the user loads face up.)			
8 221 2	Back	Number of rear sides fed for scanning: With an ADF that can scan both sides simultaneously, the Back count is the same as the number of pages fed for duplex scanning. With an ADF that cannot scan both sides simultaneously, the Back count is the same as the number of pages fed for duplex rear-side scanning.			

- When 1 sheet is fed for duplex scanning the Front count is 1 and the Back count is 1.
- If a jam occurs during the job, recovery processing is not counted to avoid double counting. Also, the pages are not counted if the jam occurs before the first sheet is output.

	Scan PGS/Mode	*CTL	[0 to 9999999/ 0 / 1]		
8 231	These SPs count the number of pages scanned by each ADF mode to determine the work load on the ADF.				
8 231 1	Large Volume		table. Large copy jobs that cannot be loaded in the at one time.		
8 231 2	SADF	Selectable. Feeding pages one by one through the ADI			
8 231 3	Mixed Size	Selectable. Select "Mixed Sizes" on the operation pane			
8 231 4	Custom Size	Selec	table. Originals of non-standard size.		
8 231 5	Platen	Book mode. Raising the ADF and placing the original directly on the platen.			
8 231 6	Mixed 1 side/2 side	Simplex and Duplex mode.			

- If the scan mode is changed during the job, for example, if the user switches from ADF to Platen mode, the count is done for the last selected mode.
- The user cannot select mixed sizes or non-standard sizes with the fax application so if the original's page sizes are mixed or non-standard, these are not counted.
- If the user selects "Mixed Sizes" for copying in the platen mode, the Mixed Size count is enabled.
- In the SADF mode if the user copies 1 page in platen mode and then copies 2 pages with SADF, the Platen count is 1 and the SADF count is 3.

T:Scan PGS/Or		rg	*CTL	[0 to 999999	9/0/1]	
8 241		These SPs count the total number of scanned pages by original type for all jobs, regardless of which application was used.				
0.040	C:Scan PGS/C	Drg	*CTL	[0 to 999999	9/0/1]	
8 242	These SPs coun	t the number o	f pages scan	ned by original	type for Copy	jobs.
0.040	F:Scan PGS/O	rg	*CTL	[0 to 999999	9/0/1]	
8 243	These SPs coun	t the number o	f pages scan	ned by original	type for Fax j	obs.
0.045	S:Scan PGS/C)rg	*CTL	[0 to 999999	9/0/1]	
8 245	These SPs coun	t the number o	f pages scan	ned by original	type for Scan	jobs.
	L:Scan PGS/O	rg	*CTL	[0 to 999999	9/0/1]	
8 246	These SPs coun server mode sc the Copy mode	reen at the ope				
		8 241	8 242	8 243	8 245	8 246
8 24x 1: Text		Yes	Yes	Yes	Yes	Yes
8 24x 2: Text/	'Photo	Yes	Yes	Yes	Yes	Yes
8 24x 3: Photo)	Yes	Yes	Yes	Yes	Yes
8 24x 4: GenCopy, Pale		Yes	Yes	No	Yes	Yes
8 24x 5: Map		Yes	Yes	No	Yes	Yes
8 24x 6: Normal/Detail		Yes	No	Yes	No	No
8 24x 7: Fine/Super Fine Yes		No	Yes	No	No	
8 24x 8: Binar	у	Yes	No	No	Yes	No

8 24x 9: Grayscale	Yes	No	No	Yes	No
8 24x 10: Color	Yes	No	No	Yes	No
8 24x 11: Other	Yes	Yes	Yes	Yes	Yes

• If the scan mode is changed during the job, for example, if the user switches from ADF to Platen mode, the count is done for the last selected mode.

T:Scan PGS/ImgEdt	*CTL	These SPs show how many times Image Edit features
C:Scan PGS/ImgEdt	*CTL	have been selected at the operation panel for each application. Some examples of these editing features
P:Scan PGS/ImgEdt	*CTL	are:
S · Scan PGS /ImaEdr	*CTI	Erase> Border
3 . Scall I OS/ IlligEal	CIL	Erase> Center
L:Scan PGS/ImgEdt	*CTL	Image Repeat
		Centering
	*CTI	Positive/Negative
8 257 O:Scan PGS/ImgEdt		[0 to 9999999/ 0 / 1]
	3.1	Note: The count totals the number of times the edit features have been used. A detailed breakdown of exactly which features have been used is not given.
	C:Scan PGS/ImgEdt P:Scan PGS/ImgEdt S: Scan PGS/ImgEdr L:Scan PGS/ImgEdt	C:Scan PGS/ImgEdt *CTL P:Scan PGS/ImgEdt *CTL S: Scan PGS/ImgEdr *CTL L:Scan PGS/ImgEdt *CTL

The L: counter counts the number of pages stored from within the document server mode screen at the operation panel, and with the Store File button from within the Copy mode screen.

8 261	T:Scan PGS/ColCr	*CTL	-	
8 262	C:Scan PGS/ ColCr	*CTL	-	
8 265	S:Scn PGS/Color	*CTL	-	
8 266	L:Scn PGS/ColCr	*CTL	-	
8 26x 1	Color Conversion			
8 26x 2	Color Erase	These SPs show how many times color creation fee have been selected at the operation panel.		
8 26x 3	Background			
8 26x 4	Other			

8 281	T:Scan PGS/TWAIN	*CTL	These SPs count the number of pages scanned using a		
8 285	S:Scan PGS/TWAIN	*CTL	TWAIN driver. These counters reveal how the TWAIN driver is used for delivery functions. [0 to 9999999 / 0 / 1] Note: At the present time, these counters perform identical counts.		

8 291	T:Scan PGS/Stamp	*CTL	These SPs count the number of pages stamped with the
8 293	F:Scan PGS/Stamp	*CTL	stamp in the ADF unit. [0 to 9999999 / 0 / 1]
8 295	S:Scan PGS/Stamp	*CTL	The L: counter counts the number of pages stored from within the document server mode screen at the operation panel, and with the Store File button from within the Copy mode screen

	T:Scan PGS/Size	*CTL	[0 to 9999999/ 0 / 1]	
8 301	'		er of pages scanned by all applications. Use ze (scanning) and output (printing) page size	
	C:Scan PGS/Size	*CTL	[0 to 9999999/ 0 / 1]	
8 302		original page size (scanning) and output (printing) p		
	F:Scan PGS/Size	*CTL	[0 to 9999999/ 0 / 1]	
8 303	,		, , , , , , , , , , , , , , , , , , , ,	
	S:Scan PGS/Size	*CTL	[0 to 9999999/ 0 / 1]	
8 305	'	*CTL [0 to 9999999/0/1] the total number of pages scanned by the Copy application are original page size (scanning) and output (printing) pages scanned by the Fax application riginal page size (scanning) and output page size [SP 8-4 *CTL [0 to 9999999/0/1] the total number of pages scanned by the Scan application are original page size (scanning) and output page size (scanning) and output page size are original page size (scanning) and output page size are original page size (scanning) and output page size are original page size (scanning) and stored from withing the total number of pages scanned and stored from withing the total number of pages scanned and stored from withing the total number of pages scanned and stored from withing the total number of pages scanned and stored from withing the total number of pages scanned and stored from withing the screen. Use these totals to compare original page size	, , , , , , , , , , , , , , , , , , , ,	
	L:Scan PGS/Size	*CTL	[0 to 9999999/ 0 / 1]	
8 306	document server mode screen	tal number of pages scanned and stored from within the n at the operation panel, and with the Store File button creen. Use these totals to compare original page size		

8 30x 1	A3
8 30x 2	A4
8 30x 3	A5
8 30x 4	B4
8 30x 5	B5
8 30x 6	DLT
8 30x 7	LG
8 30x 8	LT
8 30x 9	НІТ
8 30x 10	Full Bleed
8 30x 254	Other (Standard)
8 30x 255	Other (Custom)

	T:Scan PGS/Rez	*CTL [0 to 9999999/ 0 / 1]				
8 311	These SPs count by resolution setting the total number of pages scanned by applications that can specify resolution settings.					
	S: Scan PGS/Rez	*CTL	[0 to 9999999/ 0 / 1]			
8 315	that can specify resolution	solution setting the total number of pages scanned by applications ution settings. ime, SP8-311 and SP8-315 perform identical counts.				
8 31x 1	1200dpi <					
8 31x 2	600dpi to 1199dpi					
8 31x 3	400dpi to 599dpi					
8 31x 4	200dpi to 399dpi					
8 31x 5	< 199dpi					

- Copy resolution settings are fixed so they are not counted.
- The Fax application does not allow finely-adjusted resolution settings so no count is done for the Fax application.

8 381	T:Total PrtPGS	*CTL	
8 382	C:Total PrtPGS	*CTL	These SPs count the number of pages printed by the customer. The counter for the application used for
8 383	F:Total PrtPGS	*CTL	storing the pages increments.
8 384	P:Total PrtPGS	*CTL	[0 to 9999999/ 0 / 1] The L: counter counts the number of pages stored from
8 385	S:Total PrtPGS	*CTL	within the document server mode screen at the
8 386	L:Total PrtPGS	*CTL	operation panel. Pages stored with the Store File button from within the Copy mode screen go to the C: counter.
8 387	O:Total PrtPGS	*CTL	

- When the A3/DLT double count function is switched on with SP5104, 1 A3/DLT page is counted as
 2.
- When several documents are merged for a print job, the number of pages stored are counted for the application that stored them.
- These counters are used primarily to calculate charges on use of the machine, so the following pages are not counted as printed pages:
 - Blank pages in a duplex printing job.
 - Blank pages inserted as document covers, chapter title sheets, and slip sheets.
 - Reports printed to confirm counts.
 - All reports done in the service mode (service summaries, engine maintenance reports, etc.)
 - Test prints for machine image adjustment.
 - Error notification reports.
 - Partially printed pages as the result of a copier jam.

	LSize PrtPGS	*CTL	[0 to 9999999/ 0 / 1]		
8 391	These SPs count pages printed on paper sizes A3/DLT and larger.				
	Note: In addition to being a displayed in the User Tools	. ,	n the SMC Report, these counters are also n the copy machine.		

8 401	T:PrtPGS/LS	*CTL	
8 402	C:PrtPGS/LS	*CTL	These SPs count the number of pages printed from the document server. The counter for the application used
8 403	F:PrtPGS/LS	*CTL	to print the pages is incremented. The L: counter counts the number of jobs stored from
8 404	P:PrtPGS/LS	*CTL	within the document server mode screen at the
8 405	S:PrtPGS/LS	*CTL	operation panel. [0 to 9999999/ 0 / 1]
8 406	L:PrtPGS/LS	*CTL	

- Print jobs done with Web Image Monitor and Desk Top Binder are added to the L: count.
- Fax jobs done with Web Image Monitor and Desk Top Binder are added to the F: count.

8 411	Prints/Duplex	*CTL	This SP counts the amount of paper (front/back counted as 1 page) used for duplex printing. Last pages printed only on one side are not counted. [O to 9999999/0/1]
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	T:PrtPGS/Dup Comb	*CTL	[0 to 9999999/ 0 / 1]				
8 421	These SPs count by binding and combine, and n-Up settings the number of pages processed for printing. This is the total for all applications.						
	C:PrtPGS/Dup Comb	*CTL	[0 to 9999999/ 0 / 1]				
8 422	These SPs count by binding or processed for printing by the	and combine, and n-Up settings the number of p					
	F:PrtPGS/Dup Comb	*CTL	[0 to 9999999/ 0 / 1]				
8 423	These SPs count by binding and combine, and n-Up settings the number of pages processed for printing by the fax application.						
	P:PrtPGS/Dup Comb	*CTL	[0 to 9999999/ 0 / 1]				
8 424	These SPs count by binding and combine, and n-Up settings the number of pages processed for printing by the printer application.						
	S:PrtPGS/Dup Comb	*CTL	[0 to 9999999/ 0 / 1]				
8 425	These SPs count by binding and combine, and n-Up settings the number of pages processed for printing by the scanner application.						

	L:PrtPGS/Dup Comb		*CTL	[0 to 9999999/ 0 / 1]		
These SPs count by binding and combine, and n-Up settings the number of pag processed for printing from within the document server mode window at the open panel.						
	O:PrtPGS/Dup Comb		*CTL	[0 to 9999999/ 0 / 1]		
8 427	These SPs count by bir processed for printing	•		oine, and n-Up settings the number of pages cations		
8 42x 1	Simplex> Duplex					
8 42x 2	Duplex> Duplex					
8 42x 3	Book> Duplex					
8 42x 4	Simplex Combine					
8 42x 5	Duplex Combine					
8 42x 6	2>	2 pages on 1 side (2-Up)				
8 42x 7	4>	4 pages on 1 side (4-Up)				
8 42x 8	6>	6 pages on 1 side (6-Up)				
8 42x 9	8>	8 pages on 1 side (8-Up)				
8 42x 10	9>	9 pages on 1 side (9-Up)				
8 42x 11	16>	16 pages on 1 side (16-Up)				
8 42x 12	Booklet					
8 42x 13	Magazine					

- These counts (SP8 421 to SP8 427) are especially useful for customers who need to improve their compliance with ISO standards for the reduction of paper consumption.
- Pages that are only partially printed with the n-Up functions are counted as 1 page.
- Here is a summary of how the counters work for Booklet and Magazine modes:

Вос	oklet	Mag	azine
Original Pages	Count	Original Pages	Count
1	1	1	1

2	2	2	2
3	2	3	2
4	2	4	2
5	3	5	4
6	4	6	4
7	4	7	4
8	4	8	4

	T:PrtPGS/ImgEdt		*CTL	[0 to 9999999/ 0 / 1]
8 431	These SPs count the total number of pages output with the three features below, regardless of which application was used.			
	C:PrtPGS/ImgEdt		*CTL	[0 to 9999999/ 0 / 1]
8 432	These SPs count the total number of pages output with the three features below copy application.			ges output with the three features below with the
	P:PrtPGS/ImgEdt		*CTL	[0 to 9999999/ 0 / 1]
8 434	These SPs count the total number of pages output with the three features below with the print application.			
	L:PrtPGS/ImgEdt		*CTL	[0 to 9999999/ 0 / 1]
8 436				ges output from within the document server mode e three features below.
	O:PrtPGS/ImgEdt		*CTL	[0 to 9999999/ 0 / 1]
8 437	These SPs count the total number of pages output with the three features below with Other applications.			
8 43x 1	Cover/Slip Sheet	Total number of covers or slip sheets inserted. The count for a cover printed on both sides counts 2.		
8 43x 2	Series/Book	The number of pages printed in series (one side) or printed as a book with booklet right/left pagination.		
8 43x 3	User Stamp	The number of pages printed where stamps were applied, including page numbering and date stamping.		

8 441	T:PrtPGS/Ppr Size	*CTL	[0 to 9999999/ 0 / 1]		
	These SPs count by print paper size the number of pages printed by all applications.				
	C:PrtPGS/Ppr Size	*CTL	[0 to 9999999/ 0 / 1]		
8 442	These SPs count by print paper size the number of pages printed by the copy application.				
8 443	F:PrtPGS/Ppr Size	*CTL	[0 to 9999999/ 0 / 1]		
8 443	These SPs count by print paper size the number of pages printed by the fax of				
	P:PrtPGS/Ppr Size	*CTL	[0 to 9999999/ 0 / 1]		
8 444	These SPs count by print paper size the number of pages printed by the printer application.				
	S:PrtPGS/Ppr Size	*CTL	[0 to 9999999/ 0 / 1]		
8 445	These SPs count by print paper size the number of pages printed by the scanner application.				
8 446	L:PrtPGS/Ppr Size	*CTL	[0 to 9999999/ 0 / 1]		
	These SPs count by print paper size the number of pages printed from within the document server mode window at the operation panel.				
8 447	O:PrtPGS/Ppr Size	*CTL	[0 to 9999999/ 0 / 1]		
0 44/	These SPs count by print paper size the number of pages printed by Other applications.				

8 44x 1	A3
8 44x 2	A4
8 44x 3	A5
8 44x 4	B4
8 44x 5	B5
8 44x 6	DLT
8 44x 7	LG
8 44x 8	LT
8 44x 9	HLT
8 44x 10	Full Bleed
8 44x 254	Other (Standard)
8 44x 255	Other (Custom)

• These counters do not distinguish between LEF and SEF.

0.451	PrtPGS/Ppr Tray		*CTL	[0 to 9999999/ 0 / 1]	
8 451	These SPs count t	e SPs count the number of sheets fed from each paper feed station.			
8 451 1	Bypass Tray	Bypass Tray			
8 451 2	Tray 1	Copier			
8 451 3	Tray 2	Copier			
8 451 4	Tray 3	Paper Tray Unit (Option)			
8 451 5	Tray 4	Paper Tray Unit (Option)			
8 451 6	Tray 5	LCT (Option)			
8 451 7	Tray 6	Currently not used.			
8 451 8	Tray 7	Currently not used.			
8 451 9	Tray 8	Currently not used.			
8 451 10	Tray 9	Currently not used.			

	T:PrtPGS/Ppr Type	*CTL	[0 to 9999999/ 0 / 1]			
	These SPs count by paper type the number pages printed by all applications.					
8 461	These counters are not the same as the PM counter. The PM counter is based on feed timing to accurately measure the service life of the feed rollers. However, these counts are based on output timing.					
	Blank sheets (covers, ch	apter cover	s, slip sheets) are also counted.			
	During duplex printing, pages printed on both sides count as 1, and a page printed on one side counts as 1.					
8 462	C:PrtPGS/Ppr Type	*CTL	[0 to 9999999/ 0 / 1]			
0 402	These SPs count by paper typ	oe the numb	er pages printed by the copy application.			
8 463	F:PrtPGS/Ppr Type *CTL [0 to 9999999/ 0 / 1					
6 403	These SPs count by paper type the number pages printed by the fax applic					
8 464	P:PrtPGS/Ppr Type	*CTL	[0 to 9999999/ 0 / 1]			
0 404	These SPs count by paper type the number pages printed by the printer application.					
	L:PrtPGS/Ppr Type	*CTL	[0 to 9999999/ 0 / 1]			
8 466	These SPs count by paper type the number pages printed from within the document server mode window at the operation panel.					
8 46x 1	Normal					
8 46x 2	Recycled					
8 46x 3	Special					
8 46x 4	Thick					
8 46x 5	Normal (Back)					
8 46x 6	Thick (Back)					
8 46x 7	OHP					
8 46x 8	Other					
	PrtPGS/Mag	*CTL	[0 to 9999999/ 0 / 1]			
8 471	These SPs count by magnification rate the number of pages printed.					
	These of a coolii by inagnification rate the nothber of pages printed.					

8 471 1	< 49%
8 471 2	50% to 99%
8 471 3	100%
8 471 4	101% to 200%
8 471 5	201% <

- Counts are done for magnification adjusted for pages, not only on the operation panel but performed remotely with an external network application capable of performing magnification adjustment as well.
- Magnification adjustments done with printer drivers with PC applications such as Excel are also counted.
- Magnification adjustments done for adjustments after they have been stored on the document server are not counted.
- Magnification adjustments performed automatically during Auto Reduce/Enlarge copying are counted.
- The magnification rates of blank cover sheets, slip sheets, etc. are automatically assigned a rate of 100%.

8 481	T:PrtPGS/TonSave	*CTL	
8 484	P:PrtPGS/TonSave	*CTL	
	These SPs count the number of pages printed with the Toner Save feature switched on.		
	Note: These SPs return the same results as this SP is limited to the Print application.		
	[0 to 9999999/ 0 / 1]		

8 491	T:PrtPGS/Col Mode	*CTL			
8 492	C:PrtPGS/Col Mode	*CTL			
8 493	F:PrtPGS/Col Mode	*CTL	These SPs count the number of pages printed in the Color Mode by each application.		
8 496	L:PrtPGS/Col Mode	*CTL	, 11		
8 497	O:PrtPGS/Col Mode	*CTL			
8 49x 1	B/W				
8 49x 2	Single Color				

8 49x 3	Two Color
8 49x 4	Full Color

8 501	T:PrtPGS/Col Mode	*CTL		
8 504	P:PrtPGS/Col Mode	*CTL	These SPs count the number of pages printed in the Color Mode by the print application.	
8 507	O:PrtPGS/Col Mode	*CTL	, , , , , , , , , , , , , , , , , , , ,	
8 50x 1	B/W			
8 50x 2	Mono Color			
8 50x 3	Full Color			
8 50x 4	Single Color			
8 50x 5	Two Color			

8 511	T:PrtPGS/Emul	*CTL	[0 to 9999999/ 0 / 1]	
6311	These SPs count by printer emulation mode the total number of pages printed.			
0.514	P:PrtPGS/Emul	*CTL	[0 to 9999999/ 0 / 1]	
8 514	These SPs count by printer emulation mode the total number of pages printed.			

8 514 1	RPCS
8 514 2	RPDL
8 514 3	PS3
8 5 1 4 4	R98
8 514 5	R16
8 5 1 4 6	GL/GL2
8 5 1 4 7	R55
8 514 8	RTIFF
8 5 1 4 9	PDF
8 514 10	PCL5e/5c
8 514 11	PCL XL
8 514 12	IPDL-C
8 514 13	BM-Links
8 514 14	Other

- SP8 511 and SP8 514 return the same results as they are both limited to the Print application.
- Print jobs output to the document server are not counted.

8 521	T:PrtPGS/FIN	*CTL	[0 to 9999999 / 0 / 1]			
6 321	These SPs count by finishing mode the total number of pages printed by all applications.					
	C:PrtPGS/FIN	*CTL	[0 to 9999999 / 0 / 1]			
8 522	These SPs count by finishing mode the total number of pages printe application.					
	F:PrtPGS/FIN *CTL [0 to 9999999 / 0 / 1]					
8 523	These SPs count by finishing mode the total number of pages printed by the Fax application.					
	NOTE: Print finishing options for received faxes are currently not available.					

	P:PrtPGS/FIN	*CTL	[0 to 9999999 / 0 / 1]			
8 524	These SPs count by finishing mode the total number of pages printed by the Print application.					
	S:PrtPGS/FIN	*CTL	[0 to 9999999 / 0 / 1]			
8 525	These SPs count by finishing rapplication.	total number of pages printed by the Scanner				
	L:PrtPGS/FIN	*CTL	[0 to 9999999 / 0 / 1]			
8 526	These SPs count by finishing mode the total number of pages printed from within the document server mode window at the operation panel.					
8 52x 1	Sort					
8 52x 2	Stack					
8 52x 3	Staple Booklet					
8 52x 4						
8 52x 5	Z-Fold Punch					
8 52x 6						
8 52x 7	Other					

U Note

- If stapling is selected for finishing and the stack is too large for stapling, the unstapled pages are still counted.
- The counts for staple finishing are based on output to the staple tray, so jam recoveries are counted.

8 531	Staples	*CTL	This SP counts the amount of staples used by the machine. [O to 9999999 / 0 / 1]		
T:Counter These SPs count the total of			•	[0 to 9999999 / 0 / 1] en down by color output, regardless of the	
	'''	l. In addition to being displayed in the SMC Report, these counters on the User Tools display on the copy machine.			
8 581 1	Total				
8 581 2	Total: Full Color	olor			

8 581 3	B&W/Single Color
8 581 4	Development: CMY
8 581 5	Development: K
8 581 6	Copy: Color
8 581 7	Copy: B/W
8 581 8	Print: Color
8 581 9	Print: B/W
8 581 10	Total: Color
8 581 11	Total: B/W
8 581 12	Full Color: A3
8 581 13	Full Color: B4 JIS or Smaller
8 581 14	Full Color Print
8 581 15	Mono Color Print
8 581 16	Full Color GPC
8 581 17	Twin Colour Mode Print
8 581 18	Full Colour Print (Twin)
8 581 19	Mono Colour Print (Twin)
8 581 20	Full Colour Total (CV)
8 581 21	Mono Colour Total (CV)
8 581 22	Full Colour Print (CV)

8 582	C:Counter	*CTL	[0 to 9999999/ 0 / 1]		
	These SPs count the total o	output of the	copy application broken down by color output.		
8 582 1	B/W				
8 582 2	Single Color				
8 582 3	Two Color				

8 582 4	Full Color				
8 583	F:Counter		*CTL	[C	to 9999999/ 0 / 1]
	These SPs count t	he total o	output of the	e fax	application broken down by color output.
8 583 1	B/W				
8 583 2	Single Color				
8 584	P:Counter		*CTL	[C	to 9999999/ 0 / 1]
	These SPs count t	he total o	output of the	pri	int application broken down by color output.
8 584 1	B/W				
8 584 2	Mono Color				
8 584 3	Full Color				
8 584 4	Single Color				
8 584 5	Two Color				
			i		
8 586	L:Counter		*CTL	[C	to 9999999/ 0 / 1]
	These SPs count the total output of the local storage broken down by color output.				
8 582 1	B/W				
8 582 2	Single Color				
8 582 3	Two Color				
8 582 4	Full Color				
	O:Counter		*CTL		[0 to 9999999/ 0 / 1]
8 591	These SPs count the totals for A3/DLT paper use, number of duplex pages printed, and the number of staples used. These totals are for Other (O:) applications only.				
8 591 1	A3/DLT				
8 591 2	Duplex	_			

	Coverage Counter		*CTL	[0 to 9999999/ 0 / 1]		
8 601	These SPs count the total c	the total coverage for each color and the total printo				
8 601 1	B/W					
8 601 2	Color					
8 601 11	B/W Printing Pages					
8 601 12	Color Printing Pages		-			
8 601 21	Coverage Counter 1					
8 601 22	Coverage Counter 2					
8 601 23	Coverage Counter 3					

0.717	SDK Apli Counter	*CTL	[0 to 9999999/ 0 / 1]		
8 617	These SPs count the total pri	intout pages for each SDK applicaion.			
8 617 1	SDK-1				
8 617 2	SDK-2				
8 617 3	SDK-3				
8 617 4	SDK-4	-			
8 617 5	SDK-5				
8 617 6	SDK-6				

8 631	T:FAX TX PGS	*CTL	[0 to 9999999/ 0 / 1]		
0 03 1	These SPs count by color mo	de the numbe	er of pages sent by fax to a telephone number.		
0.422	F:FAX TX PGS	*CTL	[0 to 9999999/ 0 / 1]		
8 633	These SPs count by color mo	lor mode the number of pages sent by fax to a telephone number			
8 63x 1	B/W				
8 63x 2	Color				

- If a document has color and black-and-white pages mixed, the pages are counted separately as B/W or Color.
- At the present time, this feature is provided for the Fax application only so SP8631 and SP8633 are the same.
- The counts include error pages.
- If a document is sent to more than one destination with a Group transmission, the count is done for each destination.
- Polling transmissions are counted but polling RX are not.
- Relay, memory, and confidential mailbox transmissions and are counted for each destination.

	T:IFAX TX PGS	*CTL	[0 to 9999999/ 0 / 1]			
8 641	These SPs count by color r I-Fax.	ount by color mode the number of pages sent by fax to as fax images usir				
	F:IFAX TX PGS	*CTL	[0 to 9999999/ 0 / 1]			
8 643	These SPs count by color mode the number of pages sent by Fax as fax in I-Fax.					
8 64x 1	' 					
8 64x 2						

- If a document has color and black-and-white pages mixed, the pages are counted separately as B/W or Color.
- At the present time, this feature is provided for the Fax application only so SP8641 and SP8643 are the same.
- The counts include error pages.
- If a document is sent to more than one destination with a Group transmission, the count is done for each destination.
- Polling transmissions are counted but polling RX are not.
- Relay, memory, and confidential mailbox transmissions and are counted for each destination.

	T:S-to-Email PGS	*CTL	[0 to 9999999/ 0 / 1]
8 651	These SPs count by color mod the Scan and document serve		umber of pages attached to an e-mail for both

	S:S-to-Email PGS	*CTL	[0 to 9999999/ 0 / 1]		
8 655	These SPs count by color mode the total number of pages attached to an e-mail f Scan application only.				
8 65x 1	B/W				
8 65x 2	Color				

U Note

- The count for B/W and Color pages is done after the document is stored on the HDD. If the job is cancelled before it is stored, the pages are not counted.
- If Scan-to-Email is used to send a 10-page document to 5 addresses, the count is 10 (the pages are sent to the same SMTP server together).
- If Scan-to-PC is used to send a 10-page document to 5 folders, the count is 50 (the document is sent to each destination of the SMB/FTP server).
- Due to restrictions on some devices, if Scan-to-Email is used to send a 10-page document to a large number of destinations, the count may be divided and counted separately. For example, if a 10-page document is sent to 200 addresses, the count is 10 for the first 100 destinations and the count is also 10 for the second 100 destinations, for a total of 20.).

	T:Deliv PGS/Svr	*CTL	[0 to 9999999/ 0 / 1]		
These SPs count by color mode the total number of pages sent to a Scan by both Scan and LS applications.					
	S:Deliv PGS/Svr	*CTL	[0 to 9999999/ 0 / 1]		
8 665	These SPs count by color me by the Scan application.	tal number of pages sent to a Scan Router server			
8 66x 1	B/W				
8 66x 2	Color				

UNote

- The B/W and Color counts are done after the document is stored on the HDD of the Scan Router server.
- If the job is canceled before storage on the Scan Router server finishes, the counts are not done.
- The count is executed even if regardless of confirmation of the arrival at the Scan Router server.

	T:Deliv PGS/PC	*CTL	[0 to 9999999/ 0 / 1]		
8 671	These SPs count by color mode the total number of pages sent to a folder on a PC (Scanto-PC) with the Scan and LS applications.				
	S: Deliv PGS/PC	*CTL	[0 to 9999999/ 0 / 1]		
8 675	These SPs count by color mode the total number of pages sent with Scan-to-PC with the Scan application.				
8 67x 1	B/W				
8 67x 2	Color				

8 681	T:PCFAX TXPGS	*CTL	These SPs count the number of pages sent by PC Fax.
8 683 F:PCFAX TXPG	F:PCFAX TXPGS	*CTL	These SPs are provided for the Fax application only, so the counts for SP8 681 and SP8 683 are the same.
0 000	33 F:PCFAX IXPG5 CIL	[0 to 9999999/ 0 / 1]	

- This counts pages sent from a PC using a PC fax application, from the PC through the copier to the destination.
- When sending the same message to more than one place using broadcasting, the pages are only counted once. (For example, a 10-page fax is sent to location A and location B. The counter goes up by 10, not 20.)

8 691	T:TX PGS/LS	*CTL	These SPs count the number of pages sent from the
8 692	C:TX PGS/LS	*CTL	document server. The counter for the application that was used to store the pages is incremented.
8 693	F:TX PGS/LS	*CTL	[0 to 9999999
8 694	P:TX PGS/LS	*CTL	The L: counter counts the number of pages stored from within the document server mode screen at the operation
8 695	S:TX PGS/LS	*CTL	panel. Pages stored with the Store File button from within
8 696	L:TX PGS/LS	*CTL	the Copy mode screen go to the C: counter.



- Print jobs done with Web Image Monitor and Desk Top Binder are added to the count.
- If several documents are merged for sending, the number of pages stored are counted for the application that stored them.
- When several documents are sent by a Fax broadcast, the F: count is done for the number of pages sent to each destination.

	TX PGS/Port	*CTL	[0 to 9999999/ 0 / 1]			
8 701	These SPs count the number of pages sent by the physical port used to send them. For example, if a 3-page original is sent to 4 destinations via ISDN G4, the count for ISD (G3, G4) is 12.					
8 701 1	PSTN-1					
8 701 2	PSTN-2					
8 701 3	PSTN-3					
8 701 4	ISDN (G3,G4)					
8 7 01 5	Network					

8 711	T:Scan PGS/Comp	*CTL	[0 to 9999999/ 0 / 1]
0.715	S:Scan PGS/Comp	*CTL	[0 to 9999999/ 0 / 1]
8 715 These SPs count the number of pages sent by each		ges sent by each compression mode.	
8 7 1 5 1	JPEG/JPEG2000		
8 715 2	TIFF(Multi/Single)		
8 7 1 5 3	PDF		
8 715 4	Other		
8 715 5	PDF/Comp		

8 721	T:Deliv PGS/WSD	*CTL	[0 to 9999999/ 0 / 1]		
8 725	S: Dvliv PGS/WSD	*CTL	[0 10 4444444 0/ 1]		
0 / 23	These SPs count the number of pages scanned by each scanner mode.				
x 1	B/W	-			
x 2	Color	-			

8 731	T:Scan PGS/Media	*CTL	[0 to 9999999/ 0 / 1]	
	S:Scan PGS/Media	*CTL	[0 10 9999999 0 / 1]	
8 735	These SPs count the number of pages scanned and saved in a meia by each scanned mode.			
x 1	B/W	-		
x 2	Color	-		

0.741	RX PGS/Port	*CTL	[0 to 9999999/ 0 / 1]			
8 741	These SPs count the number of pages received by the physical port used to receive them					
8 741 1	PSTN-1	-				
8 741 2	PSTN-2	-				
8 741 3	PSTN-3	-				
8 741 4	ISDN (G3,G4)	-				
8 741 5	Network	-				

	Dev Counter	*CTL	[0 to 9999999/ 0 / 1]			
8 771	These SPs count the frequency of use (number of rotations of the development roller black and other color toners.					
8 771 1	Total					
8 771 2	K					
8 771 3	Υ					
8 771 4	М					
8 771 5	С					

	Toner_Bottle_Info.	*ENG	[0 to 9999999/ 0 / 1]		
8 781	These SPs display the number of already replaced toner bottles.				
	-011 through 014 and the data in SP8-781-001				

8 781 1	Toner: BK	The number of black-toner bottles
8 781 2	Toner: Y	The number of yellow-toner bottles
8 781 3	Toner: M	The number of magenta-toner bottles
8 781 4	Toner: C	The number of cyan-toner bottles

8 791	LS Memory Remain	*CTL	This SP displays the percent of space available on the document server for storing documents. [0 to 100 / 0 / 1]

	Toner Remain	*CTL	[0 to 100/0/1]		
8 801	These SPs display the percent of toner remaining for each color. This SP allows the user to check the toner supply at any time.				
	Note: This precise method of measuring remaining toner supply (1% steps) is better than other machines in the market that can only measure in increments of 10 (10% steps).				
8 801 1	K				
8 801 2 Y 8 801 3 M					
8 801 4	8 801 4 C				

	CVr Cnt: 0-10%	*ENG	[0 to	9999999/ 0 /1]	
8 851	These SPs display the number of scanned sheets on which the coverage of each color is from 0% to 10%.				
8 851 11	0 to 2%: BK	8 8 5	5131	5 to 7%: BK	
8 851 12	0 to 2%: Y	8 851 32		5 to 7%: Y	
8 851 13	0 to 2%: M	8 851 33		5 to 7%: M	
8 851 14	0 to 2%: C	8 851 34		5 to 7%: C	
8 851 21	3 to 4%: BK	8 851 41		8 to 10%: BK	
8 851 22	3 to 4%: Y	8 851 42		8 to 10%: Y	
8 851 23	3 to 4%: M	8 851 43		8 to 10%: M	

8 851 24 3 to 4%: C

	CVr Cnt: 11-20%	*ENG	[0 to 9999999/ 0 / 1]		
8 861	These SPs display the number of scanned sheets on which the coverage of each color is from 11% to 20%.				
8 861 1	ВК				
8 861 2					
8 861 3					
8 861 4	С				

	CVr Cnt: 21-30%	*ENG	[0 to 9999999/ 0 / 1]		
8 871	These SPs display the number of scanned sheets on which the coverage of each color is from 21% to 30%.				
8 871 1	ВК				
8 871 2					
8 871 3					
8 871 4	С				

	CVr Cnt: 31%-	*ENG	[0 to 9999999/ 0 / 1]		
8 881	These SPs display the number of scanned sheets on which the coverage of each color is 31% or higher.				
8 881 1	ВК				
8 881 2	Y M				
8 881 3					
8 881 4	8 881 4 C				

	8 891	Page/Toner Bottle *ENG [0 to 9999999/ 0 / 1]			
		These SPs display the amount of the remaining current toner for each color.			
	8 891 1	ВК			

8 891 2	Y
8 891 3	М
8 891 4	С

8 901	Page/Toner_prev1	*ENG	[0 to 9999999/ 0 / 1]	
8 901	These SPs display the amount of the remaining previous toner for each color.			
8 901 1	ВК			
8 901 2 Y				
8 901 3	М			
8 901 4	С			

8 9 1 1	Page/Toner_prev2	*ENG	[0 to 9999999/ 0 / 1]		
0 911	These SPs display the amount of the remaining 2nd previous toner for each color.				
8 9 1 1 1	ВК				
8 911 2	Υ				
8 911 3	М				
8 911 4	С				

8 921	Cvr Cnt/Total	*CTL	[0 to 9999999/ 0 / 1]	
8 921	Displays the total coverage and total printout number for each color.			

8 921 1	Coverage (%) Bk
8 921 2	Coverage (%) Y
8 921 3	Coverage (%) M
8 921 4	Coverage (%) C
8 921 11	Coverage /P: Bk
8 921 12	Coverage /P: Y
8 921 13	Coverage /P: M
8 921 14	Coverage /P: C

	Machine Status	*CTL	[0 to 9999999/ 0 / 1]		
8 941	SPs are useful for custom	Ps count the amount of time the machine spends in each operation mode. These useful for customers who need to investigate machine operation for ement in their compliance with ISO Standards.			
8 941 1	Operation Time		ation time. Does not include time while controller to HDD (while engine is not operating).		
8 941 2	Standby Time	Engine not operating. Includes time while controller saves data to HDD. Does not include time spent in Energy Save, Low Power, or Off modes.			
8 941 3	Energy Save Time	Includes time while the machine is performing background printing.			
8 941 4	Low Power Time	Includes time in Energy Save mode with Engine on. Includes time while machine is performing background printing.			
8 941 5	Off Mode Time	Includes time while machine is performing background printing. Does not include time machine remains powered off with the power switches.			
8 941 6	SC	Total time when SC errors have been staying.			
8 941 7	PrtJam	Total time when paper jams have been staying during printing.			
8 941 8	OrgJam	Total time when original jams have been staying during scanning.			

8 941 9 Supply PM Unit End	Total time when toner end has been staying
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0.051	AddBook Register	*CTL			
8 951	These SPs count the r	number of even	ts when the machine mo	anages data registration.	
8 951 1	User Code/User ID	User code reç	gistrations.		
8 951 2	Mail Address	Mail address	registrations.		
8 951 3	Fax Destination	Fax destination	n registrations.		
8 951 4	Group	Group destina	ation registrations.	[0 to 9999999/ 0 / 1]	
8 951 5	Transfer Request	Fax relay des for relay TX.	tination registrations		
8 951 6	F-Code	F-Code box r	egistrations.		
8 951 7	Copy Program		tion registrations with job settings) feature.		
8 951 8	Fax Program		on registrations with the settings) feature.		
8 951 9	Printer Program	Printer application registrations with the Program (job settings) feature.		[0 to 255 / 0 / 255]	
8 951 10	Scanner Program	Scanner application registrations with the Program (job settings) feature.			

8 999	Admin. Counter List	*CTL	[0 to 9999999/ 0 / 1]
	Displays the total coverage and total printout number for each color.		

8 999 1	Total	
8 999 2	Copy: Full Color	
8 999 3	Copy: BW	
8 999 4	Copy: Single Color	
8 999 5	Copy: Two Color	
8 999 6	Printer Full Color	
8 999 7	Printer BW	
8 999 8	Printer Single Color	
8 999 9	Printer Two Color	
8 999 10	Fax Print: BW	
8 999 12	A3/DLT	
8 999 13	Duplex	
8 999 14	Coverage: Color (%)	
8 999 15	Coverage: BW (%)	
8 999 16	Coverage: Color Print Page (%)	
8 999 17	Coverage: BW Print Page (%)	
8 999 101	Transmission Total: Color	
8 999 102	Transmission Total: BW	
8 999 103	FAX Transmission	
8 999 104	Scanner Transmission: Color	
8 999 105	Scanner Transmission: BW	

5

Main SP Tables-9

Input Check Table

When entering the Input Check mode, 8 digits display the result for a section. Each digit corresponds to a different device as shown in the table.

Bit No.	7	6	5	4	3	2	1	0	
Result	0 or 1								

Copier

5000	Danadallar	Rea	ding	
5803	Description	0	1	
5803 1	2nd Tray Size Detection	See table 2 following	g this table.	
5803 2	1 st Tray Set Detection	Set	Not set	
5803 3	1 st Tray Paper Height Sensor 1	See table 1 following	g this table.	
5803 4	1 st Tray Paper Height Sensor2	See table 1 following	g this table.	
5803 5	2nd Tray Paper Height Sensor 1	See table 1 following this table.		
5803 6	2nd Tray Paper Height Sensor2	See table 1 following this table.		
5803 7	1 st Tray Paper End Detection	No paper	Paper remaining	
5803 8	2nd Tray Paper End Detection	No paper	Paper remaining	
5803 9	1 st Tray Upper Limit Sensor	Not upper limit	Upper limit	
5803 10	2nd Tray Upper Limit Sensor	Not upper limit	Upper limit	
5803 11	Bypass Paper Width Detection	See table 3 following	g this table.	
5803 12	Bypass Paper End Detection	No paper	Paper remaining	
5803 13	Bypass Paper Length Detection	See table 3 following this table.		
5803 14	1st Paper Feed Sensor	Paper detected	Paper not detected	
5803 15	2nd Paper Feed Sensor	Paper detected	Paper not detected	

5803 16	Exit Sensor	Paper detected	Paper not detected
5803 17	Tray Full Exit Sensor	Paper not full	Paper full
5803 18	Fusing Exit Sensor	Paper not detected	Paper detected
5803 19	Fusing Entrance Sensor	Paper detected	Paper not detected
5803 20	1st Feed Sensor	Paper detected	Paper not detected
5803 21	2nd Feed Sensor	Paper detected	Paper not detected
5803 22	Duplex Exit Sensor	Paper detected	Paper not detected
5803 23	Registration Sensor	Paper detected	Paper not detected
5803 24	Duplex Entrance Sensor	Paper detected	Paper not detected
5803 25	Junction Sensor	Paper detected	Paper not detected
5803 26	2nd Tray Set Detection	Set	Not set
5803 30	Toner End Sensor: Bk	Toner end	Toner remaining
5803 31	Toner End Sensor: M	Toner end	Toner remaining
5803 32	Toner End Sensor: C	Toner end	Toner remaining
5803 33	Toner End Sensor: Y	Toner end	Toner remaining
5803 34	Drum Phase Sensor: Bk	Actuator not detected	Actuator detected
5803 35	Drum Phase Sensor: M	Actuator not detected	Actuator detected
5803 36	Drum Phase Sensor: C	Actuator not detected	Actuator detected
5803 37	Drum Phase Sensor: Y	Actuator not detected	Actuator detected
5803 38	Interlock Release Detection 1	Front door open	Front door closed
5803 39	Interlock Release Detection 2	Front door open	Front door closed
5803 40	Right Door	Closed	Open
5803 41	Duplex Cover	Closed	Open

5803 42	Toner Collection Bottle Set	Set	Not set
5803 43	Toner Collection Full Sensor	Not full	Full
5803 46	ITB New Unit Detection	Not new	New
5803 50	Airflow Fan: Front: Lock	Normal	Lock
5803 51	Airflow Fan: Rear: Lock	Normal	Lock
5803 52	Fusing Exit Fan: Lock	Normal	Lock
5803 53	2nd Duct Fan: Lock	Normal	Lock
5803 54	3rd Duct Fan: Lock	Normal	Lock
5803 55	Paper Exit Fan:Lock	Normal	Lock
5803 56	Fusing Coil Fan: Lock	Normal	Lock
5803 57	IH Power Supply Cooling Fan: Lock	Normal	Lock
5803 60	ITB Contact Motor Position	Not contact	Contact
5803 61	Paper Transfer Contact Motor Position	Not contact	Contact
5803 62	Toner Relay Motor: Lock	Normal	Lock
5803 63	ITB Drive Motor: Lock	Normal	Lock
5803 64	K Drum/Development Drive Motor: Lock	Normal	Lock
5803 65	M Drum/Development Drive Motor: Lock	Normal	Lock
5803 66	C Drum/Development Drive Motor: Lock	Normal	Lock
5803 67	Y Drum/Development Drive Motor: Lock	Normal	Lock
5803 68	Fusing Exit Motor:Lock	Normal	Lock
5803 80	HVPS:TTS:SC Detection	SC detected	N₀ SC
5803 81	HVPS:CB:SC Detection	SC detected	No SC
5803 82	HVPS:D:SC Detection	SC detected	No SC
5803 83	Fusing Destination Detection: DOM (Dom)	Set	Not set
5803 84	Fusing Destination Detection: NA	Set	Not set
5803 87	Fusing New Unit Detection	New	Not new

5803 90	Zero-cross Signal	-	-
5803 91	Fusing Rotation Sensor	Actuator not detected	Actuator detected
5803 92	Fusing Pressue Release Sensor	Not contact	Contact
5803 94	GAVD Open/Close Detection	Closed (LD5V ON)	Open (LD5V OFF)
5803 100	Keycard: Set	Set	Not set
5803 101	Mechanical Counter Bk: Set	Set	Not set
5803 102	Mechanical Counter FC: Set	Set	Not set
5803 103	Key Counter: Set	Set	Not set
5803 110	IOB Version	-	-
5803 200	Scanner HP Sensor	Not HP	HP
5803 201	Platen Cover Sensor	Open	Closed

Table 1: Paper Height Sensor

0: Deactivated, 1: Activated (actuator inside sensor)

Remaining paper	Paper height sensor 1	Paper height sensor 2
Full	0	0
Nearly full	1	0
Near end	1	1
Almost empty	0	1

Table 2: Paper Size Switch (Tray 2)

Switch 1 is used for tray set detection.

0: Pushed, 1: Not pushed

Mo	Switch Location			
North America	Europe/Asia	4 (bit0)	3 (bit1)	2 (bit2)

11" x 17" SEF ^{*1} (A3 SEF)	A3 SEF ^{*1} (11" x 17" SEF)	0	0	1
8.5" x 14" SEF ^{*2} (B4 SEF)	B4 SEF ^{*2} (8.5" x 14" SEF)	0	0	0
A4 SEF	A4 SEF	1	1	0
8.5" x 11" SEF	8.5" x 11" SEF	1	1	1
B5 SEF	B5 SEF	0	1	1
11" x 81/2" LEF ^{*3} (A4 LEF)	A4 LEF ^{*3} (11" x 81/2" LEF)	1	0	0
10.5" x 7.25" LEF ^{*4} (B5 LEF)	B5 LEF ^{*4} (10.5" x 7.25" LEF)	0	1	0
A5 LEF	A5 LEF	1	0	1

 $^{^*}$ 1: The machine detects either 11" x 17" SEF or A3 SEF, depending on the setting of SP 5-181-003.

Table 3: Paper Size (By-pass Table)

0: ON, 1: OFF

By-pass Paper Size Sensor				1k C	NIA	ELL/ACIA
bit3	Bit2	Bit1	BitO	Length Sensor	NA	EU/ASIA
1	1	1	1	1	HLT SEF	A6 SEF
0	1	1	1	1	HLT SEF	A6 SEF
0	0	1	1	1	HLT SEF	A5 SEF
1	0	1	1	1	HLT SEF	A5 SEF
1	0	0	1	0	LT/LG SEF*1	A4 SEF
1	0	0	1	1	LT/LG SEF*1	A5 LEF

^{*2:} The machine detects either 8.5" x 14" SEF or B4 SEF, depending on the setting of SP 5-181-004.

^{*3}: The machine detects either 11" x 81/2" LEF or A4 LEF, depending on the setting of SP 5-181-002.

^{*4:} The machine detects either B5 LEF or 10.5" x 7.25" LEF, depending on the setting of SP 5-181-005.

By-pass Paper Size Sensor			sor	Langth Canan	NIA	ELL/ACIA
bit3	Bit2	Bit1	BitO	Length Sensor	NA	EU/ASIA
1	1	0	1	0	LT/LG SEF*1	A4 SEF
1	1	0	1	1	LT/LG SEF*1	A5 LEF
1	1	0	0	0	DLT SEF	A3 SEF
1	1	0	0	1	LT LEF	A4 LEF
1	1	1	0	0	DLT SEF	A3 SEF
1	1	1	0	1	LT LEF	A4 LEF

 $^{^{\}star}$ 1: The paper size (LT or LG) can be selected with SP1-007-001.

ARDF (D540)

6007	December	Read	ing
8007	Description	0	1
6007 1	Original Length 1 (B5 Detection Sensor)	Paper not detected	Paper detected
6007 2	Original Length 2 (A4 Detection Sensor)	Paper not detected	Paper detected
6007 3	Original Length 3 (LG Detection Sensor)	Paper not detected	Paper detected
6007 4	Original Width 1	Paper not detected	Paper detected
6007 5	Original Width 2	Paper not detected	Paper detected
6007 6	Original Width 3	Paper not detected	Paper detected
60077	Original Width 4	Paper not detected	Paper detected
6007 8	Original Width 5	Paper not detected	Paper detected
6007 9	Original Detection	Paper not detected	Paper detected
6007 10	Separation Sensor	Paper not detected	Paper detected
6007 11	Skew Correction	Paper not detected	Paper detected
6007 12	Scan Entrance Secsor	Paper not detected	Paper detected

6007 13	Registration Sensor	Paper not detected	Paper detected
6007 14	Exit Sensor	Paper not detected	Paper detected
6007 15	Feed Cover Sensor	ADF cover close	ADF cover open
6007 16	Lift Up Sensor	ADF cover close	ADF cover open
6007 17	Inverter Sensor	Paper not detected	Paper detected
6007 18	Pick-Up Roller HP Sensor	Not HP	HP
6007 19	Original Set HP Sensor	Original not detected	Original detected
6007 23	Rear Edge Detection (Not used)	-	-

2000/3000-Sheet (Booklet) Finisher (B804, B805)

6140	D.	D	Read	ing
0140	Bit	Bit Description	0	1
6140 1	Entra	nce Sensor	Paper not detected	Paper detected
6140 2	Proof	Exit Sensor	Paper not detected	Paper detected
6140 3	Proof	Full Detection Sensor	Not Full	Full
6140 4	Traili	ng Edge Detection: Shift	Paper not detected * 1	Paper detected* 1
6140 5	Staple Exit Sensor		Paper not detected	Paper detected
61406	Shift HP Sensor		Not HP	HP
61407	Shift Exit Sensor		Paper not detected	Paper detected
61408	Exit (Guide Plate HP Sensor	Not HP	HP
6140 9	Pape	r Detection Sensor: Staple	Paper not detected	Paper detected
6140 10	Pape	r Detection Sensor: Shift	Paper not detected	Paper detected
6140 11	Pape	r Full Sensor: 2000-Sheet	Not Full	Full
6140 12	Oscil	lating Back Roller HP Sensor	Not HP	HP
6140 13	Jogg	er HP Sensor	Not HP	HP

6140 14	Exit Junction Gate HP Sensor	HP	Not HP	
6140 15	Staple Tray Paper Sensor	Paper not detected	Paper detected	
6140 16	Staple Moving HP Sensor	Not HP	HP	
6140 17	Skew HP Sensor	Not HP	HP	
6140 18	Limit SW	Not Limit	Limit	
6140 19	DOOR SW	Closed	Open	
6140 20	Stapler 1 Rotation	Not HP	HP	
6140 21	Staple Detection	Staple not detected	Staple detected	
6140 22	Staple Leading Edge Detection	Staple not detected	Staple detected	
6140 23	Punch Moving HP Sensor	Not HP	HP	
6140 24	Punch Registration HP Sensor	Not HP	HP	
6140 25	Punch Registratioin Detection Sensor	Paper not detected	Paper detected	
6140 26	Punch Chad Full Sensor	Not Full	Full	
6140 27	Punch HP	Not HP	HP	
6140 28	Punch Selection DIPSW 1	See *1		
6140 29	Punch Selection DIPSW 2	See	*]	
6140 30	Stack Junction Gate Open/Closed HP Sensor	Not HP	HP	
6140 31	Leading Edge Detection Sensor	Paper not detected	Paper detected	
6140 32	Drive Roller HP Sensor	Not HP	HP	
6140 33	Arrival Sensor	Paper not detected	Paper detected	
6140 34	Rear Edge Fence HP Sensor	Not HP	HP	
6140 35	Folder Cam HP Sensor	Not HP	HP	
6140 36	Folder Plate HP Sensor	Not HP	НР	
6140 37	Folder Pass Sensor	Paper not detected	Paper detected	
6140 38	Saddle Full Sensor: Front	Paper not detected*2	Paper detected*2	
6140 38	Saddle Full Sensor: Front	Paper not detected*2	Paper detected*2	

6140 39	Saddle Full Sensor: Rear	Paper not detected*2	Paper detected*2
6140 40	Saddle Stitch Stapler 1 Rotation: Front	Not HP	HP
6140 41	Saddle Stitch Detection: Front	Staple not detected	Staple detected
6140 42	Saddle Stitch Leading Edge Detection: Front	Staple not detected	Staple detected
6140 43	Saddle Stitch Stapler 1 Rotation: Rear	Not HP	HP
6140 44	Saddle Stitch Detection: Rear	Staple not detected	Staple detected
6140 45	Saddle Stitch Leading Edge Detection: Rear	Staple not detected	Staple detected
6140 46	Full Sensor: 3000-Sheet	Not Full	Full

* 1: Combination of DIP SW 1 and SW 2

DIP SW 1	DIP SW 2	Punch Type
0	0	Japan
1	0	Europe
0	1	North America
1	1	North Europe

 $^{^*}$ 2: Please refer to "Lower Tray (B804 Only)" in the Service Manual for the "2000/3000 (Booklet) Finisher".

1000-Sheet Finisher (B408)

4120	Describition	Read	ling
6139	Description	0	1
6139 1	Entrance Sensor	Paper detected	Paper not detected
6139 2	Shift Exit Sensor (Lower Tray Exit Sensor)	Paper not detected	Paper detected

61393	Staple Entrance Sensor (Stapler Tray Entrance Sensor)	Paper detected	Paper not detected
6139 4	Staple Moving HP Sensor (Stapler HP Sensor)	Not home position	Home position
6139 5	Jogger HP Sensor (Jogger Fence HP Sensor)	Not home position	Home position
61396	Stack Feed-out Belt HP Sensor	Home position	Not home position
61397	Staple Tray Paper Sensor	Paper not detected	Paper detected
61398	Staple Rotation Sensor (Staple Rotation HP Sensor)	Not home position	Home position
61399	Staple Sensor	Staple detected	Staple not detected
6139 10	Staple READY Detection	Staple detected	Staple not detected
6139 11	Exit Guide Plate HP (Exit Guide Plate HP Sensor)	Not home position	Home position
6139 12	Shift HP Sensor	Not home position	Home position
6139 13	Paper Sensor (Stack Height Sensor)	Output tray not detected	Output tray detected
6139 14	Tray Lower Sensor (Lower Tray Lower Limit Sensor)	Lower limit	Not lower limit
6139 15	Proof Full Sensor (Paper Limit Sensor)	Not full	Full

Bridge Unit (D386)/ Side Tray (D542)

6150 Description	Desariation	Read	ling
	0	1	
6150 1	Bridge/Left: Exit Sensor	Paper detected	Paper not detected
61502	Bridge/Left: Feed Sensor	Paper detected	Paper not detected

61503	Bridge/Left: Set Detection	Set	Not set
6150 4	Bridge/Left: Exit Cover Detection	Closed	Open
6150 5	Bridge/Left: Feed Cover Detection	Closed	Open

Internal Shift Tray (D388)

6152 Description	Danadakan	Reading 0 1	
	Description	0	1
6152 2	Shift: Position Sensor	Tray position: Front	Tray position: Rear

1 Bin Tray (D536)

6154 Description	Description	Reading 0 1	
	0	1	
61541	1 bin: Set Detection	Set	Not set
61542	1 bin: Paper Sensor	Paper detected	Paper not detected

Two-Tray PFU (D537)/ LCIT 2000 (D538)/ LCIT 1200 (D539)

(1/0	D	Reading	
6160	Description	0	1
61601	Bank: Tray3: Feed Sensor	Paper not detected	Paper detected
61602	Bank: Tray4: Feed Sensor	Paper not detected	Paper detected
61603	Bank: Tray5: Feed Sensor	Paper not detected	Paper detected
61604	Bank: Tray3: Relay Sensor	Paper not detected	Paper detected
61605	Bank: Tray4: Relay Sensor	Paper not detected	Paper detected
61606	Bank: Tray5: Relay Sensor	Paper not detected	Paper detected
61607	Bank: Feed Cover Detection	Closed	Open

6160 11	Bank: Palau: Paper Supply Switch	Closed	Open	
6160 12	Bank: Palau: Slide Switch	Closed	Open	

Output Check Table

Copier

5804	Display	Description
5804 3	Drum/Dev Motor: K: HighSpeed	Drum/Development Drive Motor-K: High Speed
5804 4	Drum/Dev Motor: K: MiddleSpeed	Drum/Development Drive Motor-K: Middle Speed
5804 5	Drum/Dev Motor: K: LowSpeed	Drum/Development Drive Motor-M: Low Speed
5804 10	Drum/Dev Motor: M: HighSpeed	Drum/Development Drive Motor- C: High Speed
5804 11	Drum/Dev Motor: M: MiddleSpeed	Drum/Development Drive Motor-Y: Middle Speed
5804 12	Drum/Dev Motor: M: LowSpeed	Drum/Development Drive Motor-Y: Low Speed
5804 17	Drum/Dev Motor: C: HighSpeed	Drum/Development Drive Motor- C: High Speed
5804 18	Drum/Dev Motor: C: MiddleSpeed	Drum/Development Drive Motor-Y: Middle Speed
5804 19	Drum/Dev Motor: C: LowSpeed	Drum/Development Drive Motor-Y: Low Speed
5804 24	Drum/Dev Motor: Y: HighSpeed	Drum/Development Drive Motor- C: High Speed
5804 25	Drum/Dev Motor: Y: MiddleSpeed	Drum/Development Drive Motor-Y: Middle Speed

5804 26	Drum/Dev Motor: Y: LowSpeed	Drum/Development Drive Motor-Y: Low Speed
5804 31	Fusing Exit Motor: HighSpeed	Fusing/Paper Exit Motor: High Speed
5804 32	Fusing Exit Motor: MiddleSpeed	Fusing/Paper Exit Motor: Middle Speed
5804 33	Fusing Exit Motor: LowSpeed	Fusing/Paper Exit Motor: Low Speed
5804 35	Fusing Exit Motor: LLowSpeed	Fusing/Paper Exit Motor: LLow Speed
5804 37	Toner Relay Motor	Toner Transport Motor
5804 40	Image Transfer Motor: HighSpeed	ITB Drive Motor: High Speed
5804 41	Image Transfer Motor: MiddleSpeed	ITB Drive Motor: Middle Speed
5804 42	Image Transfer Motor: LowSpeed	ITB Drive Motor: Low Speed
5804 50	Feed Motor: HighSpeed	Paper Feed Motor: High Speed
5804 51	Feed Motor: IncreaseSpeed	Paper Feed Motor: Increase Speed
5804 52	Feed Motor: MiddleSpeed	Paper Feed Motor: Middle Speed
5804 53	Feed Motor: MiddleIncreaseSpeed	Paper Feed Motor: Middle Increase Speed
5804 54	Feed Motor: LowSpeed	Paper Feed Motor: Low Speed
5804 55	Feed Motor: LowInceraseSpeed	Paper Feed Motor: Low Incerase Speed
5804 60	Regist Motor: HighSpeed	Registration Motor: High Speed
5804 61	Regist Motor: MiddleSpeed	Registration Motor: Middle Speed
5804 62	Regist Motor: LowSpeed	Registration Motor: Low Speed
5804 67	Duplex Feed M:CW:HighSpeed	Duplex/By-pass Motor: CW: High Speed
5804 68	Duplex Feed M:CW:MiddleSpeed	Duplex/By-pass Motor: CW: Middle Speed
5804 69	Duplex Feed Motor: CW: LowSpeed	Duplex/By-pass Motor: CW: Low Speed
5804 74	Duplex Feed M:CCW:HighSpeed	Duplex/By-pass Motor: CCW: High Speed

5804 75 D	Duplex Feed M:CCW:MiddleSpeed	Duplex/By-pass Motor: CCW: Middle Speed
5804 <i>7</i> 6	Duplex Feed Motor: CCW: LowSpeed	Duplex/By-pass Motor: CCW: Low Speed
5804 81 D	Duplex Reverse M:CW:HighSpeed	Duplex Inverter Motor: CW: High Speed
5804 82 D	Duplex Reverse M:CW:MiddleSpeed	Duplex Inverter Motor: CW: Middle Speed
5804 83 D	Duplex Reverse Motor: CW: LowSpeed	Duplex Inverter Motor: CW: Low Speed
5804 88 D	Duplex Reverse M:CCW:HighSpeed	Duplex Inverter Motor: CCW: High Speed
5804 89 D	Duplex Reverse M:CCW:MiddleSpeed	Duplex Inverter Motor: CCW: Middle Speed
5804 90 D	Duplex Reverse Motor: CCW: LowSpeed	Duplex Inverter Motor: CCW: Low Speed
5804 95	TB Contact Motor	Image Transfer Belt Contact Motor
5804 96 P	Paper Transfer Contact Motor	Paper Transfer Contact Motor
5804 97 1	l st Tray Lift Motor: Up	Tray Lift Motor 1: Lift Up
5804 98 1	l st Tray Lift Motor: Down	Tray Lift Motor 1: Lift Down
5804 99 2	2nd Tray Lift Motor: Up	Tray Lift Motor 2: Lift Up
5804 100 2	2nd Tray Lift Motor: Down	Tray Lift Motor 2: Lift Down
5804 102 F	Fusing Pressue Release Motor	Pressure Roller Contact Motor
5804 104 P	Polygon Moter: LL	Polygon Motor: LL
5804 105 P	Polygon Moter: L	Polygon Motor: L
5804 107 P	Polygon Moter: HH	Polygon Motor: HH
5804 110 A	Air Flow Fan: Front	Ventilation Fan - Front
5804 111 A	Air Flow Fan:Rear	Ventilation Fan - Rear
5804 112 F	Fusing Fan:H	Fusing Fan: High Speed

5804 113	Fusing Fan:L	Fusing Fan: Low Speed
5804 114	PSU Cooling Fan	PSU Fan 1: High Speed
5804 115	2nd Duct Fan: H	Duct Fan 2: High Speed
5804 117	3rd Duct Fan: H	Duct Fan 3: High Speed
5804 119	Paper Exit Fan:H	Paper Exit Fan: High Speed
5804 121	Fusing Coil Fan	IH Coil Fan
5804 122	IH Power Supply Cooling Fan	IH Inverter Fan
5804 126	Development Clutch: Bk	Development Clutch-K
5804 127	Development Clutch: M	Development Clutch-M
5804 128	Development Clutch: C	Development Clutch-C
5804 129	Development Clutch: Y	Development Clutch-Y
5804 130	Toner Bottle Clutch: Bk	Toner Bottle Clutch-K
5804 131	Toner Bottle Clutch: M	Toner Bottle Clutch-M
5804 132	Toner Bottle Clutch: C	Toner Bottle Clutch-C
5804 133	Toner Bottle Clutch:Y	Toner Bottle Clutch-Y
5804 134	Toner Supply Pump: Bk	Toner Supply Clutch: Bk
5804 135	Toner Supply Pump: M	Toner Supply Clutch: M
5804 136	Toner Supply Pump: C	Toner Supply Clutch: C
5804 137	Toner Supply Pump: Y	Toner Supply Clutch: Y
5804 138	1st Paper Feed Clutch	Paper Feed Clutch 1
5804 139	2nd Paper Feed Clutch	Paper Feed Clutch 2
5804 140	Bypass Feed Clutch	By-pass Feed Clutch
5804 141	Bypass Pickup Solenoid	Bypass Pickup Solenoid
5804 143	TD Sensor Shutter Solenoid	ID Sensor Shutter Solenoid
5804 144	Exit Junction Solenoid	Junction Gate 1 Solenoid
5804 145	1st Feed Pickup Solenoid	1st Pickup Solenoid

5804 146	2st Feed Pickup Solenoid	2nd Pickup Solenoid
5804 161	PCL: Bk	
5804 162	PCL: M	
5804 163	PCL: C	
5804 164	PCL: Y	
5804 166	HST Sensor:Bk	TD Sensor:Bk
5804 167	HST Sensor: M	TD Sensor: M
5804 168	HST Sensor: C	TD Sensor: C
5804 169	HST Sensor: Y	TD Sensor: Y
5804 170	Toner End Sensor: Bk	Toner End Sensor: Bk
5804 171	Toner End Sensor: M	Toner End Sensor: M
5804 172	Toner End Sensor: C	Toner End Sensor: C
5804 173	Toner End Sensor: Y	Toner End Sensor: Y
5804 174	TM Sensor: Front	ID Sensor: Front
5804 175	TM Sensor: Center	ID Sensor: Center
5804 176	TM Sensor: Rear	ID Sensor: Rear
5804 177	TM Sensor: M	ID Sensor: M
5804 178	TM Sensor: C	ID Sensor: C
5804 179	TM Sensor: Y	ID Sensor: Y
5804 181	PP:Charge AC:Y:HighSpeed	-
5804 182	PP:Charge AC:Y:MiddleSpeed	-
5804 183	PP:Charge AC:Y:LowSpeed	-
5804 186	PP:Development:K	-
5804 187	PP:Development:M	-
5804 188	PP:Development:C	-
5804 189	PP:Development:Y	-

5804 190	PP:Separation	-
5804 192	RFID ON/OFF: K	-
5804 193	RFID ON/OFF: Y	-
5804 194	RFID ON/OFF: C	-
5804 195	RFID ON/OFF: M	-
5804 196	RFID COM ON:K	-
5804 197	RFID COM ON: Y	-
5804 198	RFID COM ON: C	-
5804 199	RFID COM ON: M	-
5804 202	Scanner Lamp	-
5804 216	LD1: K	-
5804 217	LD2: K	-
5804 218	LD1: M	-
5804 219	LD2: M	-
5804 220	LD1: C	-
5804 221	LD2: C	-
5804 222	LD1: Y	-
5804 223	LD2: Y	-
5804 224	PP:ITB:K	PP: Image Transfer Roller: K
5804 225	PP:ITB:M	PP: Image Transfer Roller: M
5804 226	PP:ITB:C	PP: Image Transfer Roller: C
5804 227	PP:ITB:Y	PP: Image Transfer Roller: Y
5804 228	PP:PTR:+	PP: Paper Transfer Roller:+
5804 229	PP:PTR:-	PP: Paper Transfer Roller:-
5804 231	HVPS: ChargeDC: K	-
5804 232	HVPS: ChargeDC: M	-

5804 233	HVPS: ChargeDC: C	-
5804 234	HVPS: ChargeDC: Y	-
5804 237	PP:Charge AC:K:HighSpeed	-
5804 238	PP:Charge AC:K:MiddleSpeed	-
5804 239	HVPS: ChargeAC: K: LowSpeed	-
5804 244	PP:Charge AC:M:HighSpeed	-
5804 245	PP:Charge AC:M:MiddleSpeed	-
5804 246	HVPS: ChargeAC: M: LowSpeed	-
5804 251	PP:Charge AC:C:HighSpeed	-
5804 252	PP:Charge AC:C:MiddleSpeed	-
5804 253	HVPS: ChargeAC: C: LowSpeed	-

ARDF (D540)

6008	Display	Description
6008 1	Pick-Up Motor Forward	
6008 2	Pick-Up Motor Reverse	
6008 3	Feed Motor Forward	Feed Motor-Forward rotation
6008 4	Feed Motor Reverse	Feed Motor-Reverse rotation
6008 5	Relay Motor Forward	Transport Motor- Forward rotation
6008 7	Inverter Motor Reverse	Transport Motor- Forward rotation
6008 8	Inverter Motor Reverse	-
6008 11	Inverter Solenoid	-
6008 12	Stamp	Stamp Solenoid
6008 13	Fan Motor	-
6008 14	Feed Clutch	-

6008 15 Feed Solenoid	-
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1000-Sheet Finisher (B408)

6144	Display	Description
6144 1	Relay Up Motor	Upper Transport Motor
6144 2	Relay Down Motor	Lower Transport Motor
61443	Exit Motor	-
61444	Proof Junction Gate SOL	Tray Junction Gate Solenoid
61445	Tray Up Motor	Lower Tray Lift Motor
61446	Jogger Motor	Jogger Fence Motor
61447	Staple Moving Motor	Stapler Motor
61448	Staple Motor	Stapler Hammer
61449	Staple Junction Gate SOL	Stapler Junction Gate Solenoid
6144 10	Positioning Roller Solenoid	Positioning Roller Solenoid
6144 11	Stack Feed-out Motor	-
6144 12	Shift Motor	-
6144 13	Exit Guide Plate Motor	-

2000/3000-Sheet (Booklet) Finisher (B804/B805)

6145	Display	Description
6145 1	Entrance Motor	Finisher Entrance Motor
6145 2	Upper Feed Motor	Upper Transport Motor
6145 3	Lower Feed Motor	Lower Transport Motor
6145 4	Exit Motor	Upper/Proof Tray Exit Motor
6145 5	Knock Roller Motor	Clamp Roller Retraction Motor

6145 6	Shift Motor	Shift Roller Motor
61457	Exit Guide Plate Open/Close Motor	Exit Guide Plate Motor
6145 8	Tray Lift Motor	Upper Tray Lift Motor
6145 9	Oscillating Back Roller Motor	Stacking Sponge Roller Motor
6145 10	Jogger Motor	Jogger Fence Motor
6145 11	Stack Feed-out Motor	Feed Out Belt Motor
6145 12	Staple Moving Motor	Corner Stapler Movement Motor
6145 13	Staple Skew Motor	Corner Stapler Rotation Motor
6145 14	Staple Motor	Corner Stapler EH530
6145 15	Upper Junction Gate Solenoid	Proof Junction Gate Solenoid
6145 16	Lower Junction Gate Solenoid	Stapling Tray Junction Gate Solenoid
6145 17	Knock Solenoid	Stapling Edge Pressure Plate Solenoid
6145 18	Trailing Edge Hold Solenoid	Positioning Roller Solenoid
6145 19	Saddle Stitch Hold Solonoid	Booklet Pressure Roller Solenoid
6145 20	Stack Junction Gate Open/Close Motor	Stack Junction Gate Motor
6145 21	Trailing Edge Fence Moving Motor	Fold Unit Bottom Fence Lift Motor
6145 22	Saddle Stitch Staple Motor: Front	Booklet Stapler EH185R: Front
6145 23	Saddle Stitch Staple Motor: Rear	Booklet Stapler EH185R: Rear
6145 24	Folder Plate Motor	Fold Plate Motor
6145 25	Folder Roller Motor	Fold Roller Motor
6145 26	Drive Roller Oscillating Motor	Positioning Roller Motor
6145 27	Punch Motor	Punch Drive Motor
6145 28	Punch Moving Motor	Punch Movement Motor
6145 29	Punch Registration Detection Motor	Paper Position Sensor Slide Motor

Bridge Unit (D386)/ Side Tray (D542)

6151	Display	Description	
6151 1	Bridge/Left: Feed Motor: Current Selection	Bridge: Feed Motor: Current switching signal	
61512	Bridge/Left: Feed Motor:Reset	Bridge: Feed Motor:Reset	
61513	Bridge/Left: Feed Motor:Enable	Bridge: Feed Motor:Enable	
61516	Bridge/Left: Feed Motor: High Speed	Bridge: Feed Motor: High Speed	
61517	Bridge/Left: Feed Motor: Middle Speed	Bridge: Feed Motor: Middle Speed	
61518	Bridge/Left: Feed Motor: Low Speed	Bridge: Feed Motor: Low Speed	
6151 11	Bridge/Left: Junction Solenoid	Bridge: Junction Solenoid	

Shift Tray (D388)

6153	Display	Description
6153 1	Shift Tray: Motor	-

1 Bin Tray (D536)

6155	Display	Description
6155 1	1 bin: Junction Solenoid	-

Two-Tray PFU (D537)/ LCIT 2000 (D538)/ LCIT 1200 (D539)

6161	Display	Description
6161 5	Bank1: Feed Motor:300mm/s	Feed Motor:High Speed (D537/D538/D387)
61616	Bank1: Feed Motor:265mm/s	Feed Motor: Increase Speed (D537/D538/D387)

61618	Bank1: Feed Motor:230mm/s	Feed Motor: Middle Speed (D537/D538/D387)	
61619	Bank1: Feed Motor:215mm/s	Feed Motor: Low Speed (D537/D538/D387)	
6161 10	Bank1: Feed Motor:205mm/s	Feed Motor:Low Increase Speed (D537/ D538/D387)	
6161 15	Bank2: Feed Motor:300mm/s	Feed Motor:High Speed (D537)	
6161 16	Bank2: Feed Motor:265mm/s	Feed Motor: Increase Speed (D537)	
6161 18	Bank2: Feed Motor:230mm/s	Feed Motor: Middle Speed (D537)	
6161 19	Bank2: Feed Motor:215mm/s	Feed Motor: Low Speed (D537)	
6161 20	Bank2: Feed Motor:205mm/s	Feed Motor: Low Increase Speed (D537)	
6161 30	Bank:Tray3: PU Solenoid	Pick-up Solenoid (D537/ D538)	
616131	Bank:Tray4: PU Solenoid	Pick-up Solenoid (D537/ D539)	
6161 32	Bank:Tray5: PU Solenoid	Pick-up Solenoid (D539)	
6161 35	Bank:Tray3: Feed Clutch	Pick-up Solenoid (D537/ D538)	
6161 36	Bank:Tray4: Feed Clutch	Pick-up Solenoid (D537/ D539)	
6161 37	Bank:Tray5: Feed Clutch	Pick-up Solenoid (D539)	

Printer Service Mode

SP1-XXX (Service Mode)

1001	Bit Switch	
------	------------	--

001	Bit Swi	tch 1	0	1
	bit 0	DFU	-	-
	bit 1	DFU	-	-
	bit 2	DFU	-	-
	bit 3	No I/O Timeout	0: Disable	1: Enable
Enable: The MFP I/O Timeout setting will have no effect. I/O Timeouts will r			ts will never occur.	
	bit 4	SD Card Save Mode	0: Disable	1: Enable
Enable: Print jobs will be saved to an SD Card in the GW SD slot ("" "Cunction" in "System Maintenance Reference" section of the Field Servi				
	bit 5	DFU	-	-
	bit 6	DFU	-	-
	bit 7	[RPCS,PCL]: Printable area frame border	0: Disable	1: Enable
		Enable: The machine prints all RPCS and PCL jobs w printable area.	ith a border on	the edges of the

1001 Bit Switch

002	Bit Switch 2		0	1
	bit 0	DFU	-	-
	bit 1	DFU	-	-
	bit 2	Applying a collation Type	Shift Collate	Normal Collate
		A collation type (shift or normal) will be applied to all jobs that do not already have a 'Collate Type' configured.		
		↓ Note		
		• If #5-0 is enabled, this Bit Switch has no effect.		
	bit 3	[PCL5e/c,PS]: PDL Auto Switching	0: Enable	1: Disable
		Disable: The MFPs ability to change the PDL process	or mid-job.	
		Some host systems submit jobs that contain both PS ar is disabled, these jobs will not be printed properly.	nd PCL5e/c. If /	Auto PDL switching
	bit 4	DFU	-	-
	bit 5	DFU	-	-
	bit 6	DFU	-	-
	bit 7	DFU	-	-

1001	Bit Switch
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003	Bit Swi	tch 3	0	1
	bit 0	DFU	-	-
	bit 1	DFU	-	-
	bit 2	[PCL5e/c]: Legacy HP compatibility	0: Disable	1: Enable
		Enable: Uses the same left margin as older HP mode In other words, the left margin defined in the job (usual to " <esc>*r1A"</esc>		
	bit 3	DFU	-	-
	bit 4	DFU	-	-
	bit 5	DFU	-	-
	bit 6	DFU	-	-
	bit 7	DFU	-	-

1001	Bit Switch		
004	Bit Switch 4 DFU	-	-

1001	Bit Switch
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005	Bit Swit	rch 5	0	1			
		Show "Collate Type", "Staple Type" and "Punch Type" buttons on the operation panel.	Disable	Enable			
	bit 0	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 the function, the settings will appear u	ınder:				
		"User Tools > Printer Features > System"					
	bit 1	DFU	-	-			
	bit 2	DFU	-	-			
	bit 3	[PS] PS Criteria	Pattern3	Pattern 1			
		Change the number of PS criterion used by the PS interpreter to determine whether a job is PS data or not.					
		Pattern1: A small number of PS tags and headers					
	bit 4	Increase max number of the stored jobs to 1000 jobs.	Disable (100)	Enable (1000)			
		Enable: Changes the maximum number of jobs that can be stored on the HDD via Job Type settings to 1000. The default is 100.					
	bit 5	Face-up output	Disable	Enable			
		Enable: All print jobs will be output face-up in the destination tray.					
	bit 6	DFU	-	-			
	bit 7	DFU	-	-			
1001 Bit Switch							
	DII SWIICII						
006	Bit Swit	rch 6 DFU	-	-			

Bit Switch

Bit Switch 7 **DFU**

1001

1001	Bit Switch				
008	Bit Switch 8		0	1	
	bit 0	DFU	-	-	
	bit 1	DFU	-	-	
	bit 2	DFU	-	-	
	bit 3	[PCL,PS]: Allow BW jobs to print without requiring User Code	Disable	Enable	
		Enable: BW jobs submitted without a user code will be printed even if use authentication is enabled. • Note • Color jobs will not be printed without a valid user code.			
	bit 4	I DFU -			
	bit 5	DFU	-	-	
	bit 6	[PS]: Orientation Auto Detect Function	Enable	Disable	
	Disable: Automatically chooses page orientations of PostScript jobs (Lar Portrait) based on the content printed on the page.		(Landscape or		
	bit 7 [PDF]: Orientation Auto Detect Function Enable		Enable	Disable	
Automatically chooses page orientations of PDF jobs (Landscape or the content printed on the page.			Portrait) based on		

1003	[Clear Setting]
1003 1	Initialize Printer System
	Initializes settings in the "System" menu of the user mode.
1003 3	Delete Program

	1004	[Print Summary]
	1004 1	Print Summary
		Prints the service summary sheet (a summary of all the controller settings).

1005	1005 [Display Version]	
1005 1	Disp. Version	
	Displays the version of the controller firmware.	

1006	[Sample/Locked Print]	*CTL	0: Linked, 1: On
1006 1	enabled or disabled in accord	ance with	er. When you select "0," the document server is Copy Service Mode SP5-967. When you select ardless of Copy Service Mode SP5-967.

	[Data Recall]			
1101	Recalls a set of gamma settings. This can be either a) the factory setting, b) the previous setting, or c) the current setting.			
11011	Factory			
1101 2	Previous	* CTI		
11013	Current	*CTL		
11014	ACC	-		

1102	[Resolution Setting]
	Selects the printing mode (resolution) for the printer gamma adjustment.
1102 1	2400x600 Photo , 1800x600 Photo, 600 x 600 Photo, 2400x600 Text, 1800x600, Text, 600x600 Text

1103	[Test Page]
	Prints the test page to check the color balance before and after the gamma adjustment.
1103 1	Color Gray Scale
1103 2	Color Pattern

1	1104	[Gamma Adjustment]	
l	104	Adjusts the printer gamma for the mode selected in the "Mode Selection" menu.	

11041	Black: Highlight		
11042	Black: Shadow		
11043	Black: Middle		
11044	Black: IDmax		
110421	Cyan: Highlight		
1104 22	Cyan: Shadow		
1104 23	Cyan: Middle		
1104 24	Cyan: IDmax	*CTL	[0 to 20 / 15 / 1 /stop]
110441	Magenta: Highlight	- CIL	[0 to 30 / 15 / 1/step]
1104 42	Magenta: Shadow		
1104 43	Magenta: Middle		
1104 44	Magenta: IDmax		
110461	Yellow: Highlight		
1104 62	Yellow: Shadow		
1104 63	Yellow: Middle		
1104 64	Yellow: IDmax		

	[Save Tone Control Value]
1105	Stores the print gamma adjusted with the "Gamma Adj." menu item as the current setting. Before the machine stores the new "current setting", it moves the data currently stored as the "current setting" to the "previous setting" memory storage location.
1105 1	Save Tone Control Value

1106	[Toner Limit]			
	Adjusts the maximum toner amount for image development.			
1106 1	Toner Limit Value	*CTL	[100 to 400 / 260 / 1 %/step]	

Scanner SP Mode

SP1-xxx (System and Others)

1004	[Compression Type]				
1004	Selects the compression type for binary picture processing.				
1004 1	Compression Type	*CTL	[1 to 3 / 1 / 1/step] 1: MH, 2: MR, 3: MMR		

1005	[Erase margin]			
	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.			
1005 1	Range from 0 to 5 mm	*CTL	[0 to 5 / 0 / 1 mm/step]	

1009	[Remote scan disable]	*CTL	[0 or 1 / 0 / -] 0: enable, 1: disable
1009 1 Enable or disable remote scan.			

1010	[Non Display Clear Light PDF]	*CTL	[0 or 1 / 0 / -] 0: Display, 1: No display
1010 1 Enable or disable remote scan.			

SP2-XXX (Scanning-image quality)

		[Compression Level (Gray-scale)]
2	2021	Selects the compression ratio for grayscale processing mode (JPEG) for the three settings that can be selected at the operation panel.

2021 1	Level 3 (Middle Image Quality)		[5 to 95 / 40 / 1 /step]
2021 2	Level 2 (High Image Quality)		[5 to 95 / 50 / 1 /step]
2021 3	Level 4 (Low Image Quality)	*CTL	[5 to 95 / 30 / 1 /step]
2021 4	Level 1 (Highest Image Quality)		[5 to 95 / 60 / 1 /step]
2021 5	Level 5 (Lowest Image Quality)		[5 to 95 / 20 / 1 /step]

	[Compression ratio of ClearLight PDF]				
2024	Selects the compression ratio for clearlight PDF for the two settings that can be selected at the operation panel.				
2024 1	Compression Ratio (Normal image)	*CTL	[5 to 95 / 25 / 1 /step]		
2024 2	Compression Ratio (High comp image)	CIL	[5 to 95 / 20 / 1 /step]		

Firmware Update

To update the firmware for this machine, you must have the new version of the firmware downloaded onto an SD (Secure Digital) Card. The SD Card is inserted into SD Card Slot 2 on the left rear side of the controller box.

Type of Firmware

There are several types of firmware as shown below.

Type of firmware	Function	Location of firmware	Message shown
Engine	Printer engine control	BICU Flash ROM	Engine
System/Copy Application	Operating system	Flash ROM on the controller board	System/Copy
Lcdc	Panel control	LCDC	Lcdc
ADF	ADF control	ADF Main Control Board	ADF
NetworkSupport		Controller Board	NetworkSupport
Language 1		LCDC	Language 1
Language 2		LCDC	Language2
RPCS		Controller Board	RPCS
MediaPrint:JPEG/TIFF		Controller Board	MediaPrint:JPEG/ TIFF
FONT		Controller Board	FONT
FONT1		Controller Board	FONT1
NetworkDocBox		Controller Board	NetworkDocBox
Printer		Controller Board	Printer
Scanner		Controller Board	Scanner
Websupport		Controller Board	Websupport
WebUapl		Controller Board	WebUapl

Before You Begin

An SD card is a precision device. Always observe the following precautions when you handle SD cards:

- Always switch the machine off before you insert an SD card. Never insert the SD card into the slot with the power on.
- Do not remove the SD card from the service slot after the power has been switched on.
- Never switch the machine off while the firmware is downloading from the SD card.
- Keep SD cards in a safe location where they are not exposed to high temperature, high humidity, or exposure to direct sunlight.
- Always handle SD cards with care. Do not bend or scratch them. Do not let the SD card get exposed
 to shock or vibration.
- Make sure that the write protection of an SD card is unlocked when you download an application to
 it. If not, downloading fails and a download error (e.g. Error Code 44) occurs during a firmware
 upgrade.

Keep the following points in mind when you use the firmware update software:

- "Upload" means to send data from the machine to the SD card. "Download" means to send data from
 the SD card to the machine.
- To select an item on the LCD, touch the appropriate button on the soft touch-screen of the LCD, or, press the appropriate number key on the 10-key pad of the operation panel. For example, when "Exit (0)" shows on the screen you can touch the Exit button on the screen, or, press the "0" button on the operation panel of the copier.
- Make sure that the machine is disconnected from the network to prevent a print job for arriving while
 the firmware update is in progress before you start the firmware update procedure.

Updating Firmware

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 "D086" folder onto the card.

If the card already contains folders up to "D086", copy the necessary firmware files (e.g. D086xxxx.fwu) into this folder.



 Do not put multiple machine firmware programs on the same SD card. Copy the only model firmware you want.

Updating Procedure

- 1. Turn the main power switch off.
- 2. Remove the slot cover (F x 1).
- 3. Insert the SD card into SD Card Slot 2. Make sure the label on the SD card faces the front side of the machine.
- 4. Slowly push the SD card into the slot so it locks in place. You will hear it click. Make sure the SD card locks in place.



- To remove the SD, push it in to unlock the spring lock. Then release it so it pops out of the slot.
- 5. Disconnect the network cable from the copier if the machine is connected to a network.
- 6. Switch the main power switch on. After about 45 seconds, the initial version update screen appears on the LCD in English.
- 7. On the screen, touch the button or press the corresponding number key on the operation panel to select the item in the menu that you want to update.

ROM/NEW	What it means
ROM:	Tells you the number of the module and name of the version currently installed. The first line is the module number, the second line the version name.
NEW:	Tells you the number of the module and name version on the SD card. The first line is the module number, the second line the version name.



- Controller, engine and operation panel firmware cannot be updated at the same time. It is recommended to update firmware modules one by one.
- 8. Touch "UpDate (#)" (or ⁽⁺⁾) to start the update.



- The progress bar does not show for the operation panel firmware after you touch "OpPanel".
 The power on key flashes on and off at 0.5 s intervals when the LCDC firmware is updating. The power key flashes on and off at 3 s intervals when the update is finished.
- 9. The "Update is Done" message appears on the operation panel after completing the updating. The message differs depending on the firmware that has been updated.
- 10. Switch the copier main power switch off when you see the "Update is Done" message or follow the procedure that is displayed on the operation panel.
- 11. Press in the SD card to release it. Then remove it from the slot.
- 12. Switch the copier on for normal operation.

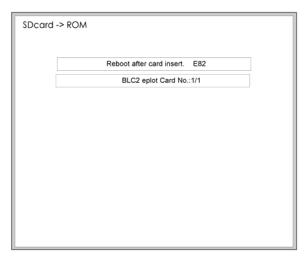
Error Messages

An error message shows in the first line if an error occurs during the download.

The error code consists of the letter "E" and a number. The example above shows error "E24" displayed. For details, refer to the Error Message Table. (IFT "Handling Firmware Update Error")

Firmware Update Error

If a firmware update error occurs, this means the update was cancelled during the update because the module selected for update was not on the SD card.



Recovery after Power Loss

If the ROM update is interrupted as a result of accidental loss of power while the firmware is updating, then the correct operation of the machine cannot be guaranteed after the machine is switched on again. If the ROM update does not complete successfully for any reason, then in order to ensure the correct operation of the machine, the ROM update error will continue to show until the ROM is updated successfully.

In this case, insert the card again and switch on the machine to continue the firmware download automatically from the card without the menu display.

Updating the LCDC for the Operation Panel

Do the following procedure to update the LCDC (LCD Control Board).

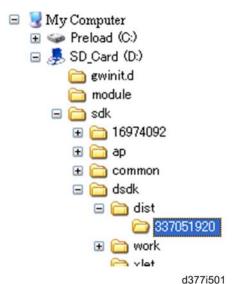
- 1. Turn the copier main switch off.
- 2. Remove the SD slot cover (x 1).
- 3. Insert the SD card into SD Card Slot 2.

- 4. Switch the copier main switch on.
- 5. The initial screen opens in English after about 45 seconds.
- 6. Touch "Ope Panel.xx".
- 7. "xx" differs depending on the destination.
- 8. Touch "UpDate(#) or (#) to start the update.
- 9. Downloading starts after about 9 seconds.
- 10. The operation panel goes off and the main power on key flashes in red at 0.5 s intervals when the data is downloading. The same key starts flashing in green at 1 s intervals when the update is finished.
- 11. Switch the copier main power switch off and remove the SD card. Then switch the copier on.

Update Procedure for App2Me Provider

Follow this procedure to update App 2 Me if a new version is available.

- 1. Push the [User/Tools] key on the operation panel.
- 2. If an administrator setting is registered for the machine, Step 3 and Step 4 are required. Otherwise, skip to step 5.
- 3. Push [Login/Logout] on the operation panel.
- 4. Login with the administrator user name and password.
- 5. Touch "Extended Feature Settings" twice on the LCD.
- 6. Touch each of the applications until the status changes to "Stop".
- 7. Turn the machine off, and then remove the VM Card.

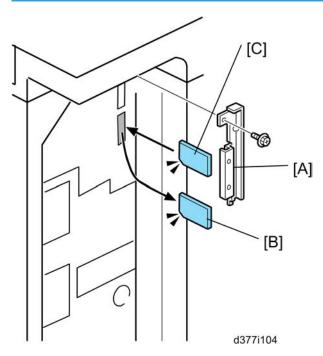


- 8. Prepare the newer App2Me Provider zip file from the Firmware Download Center, and then unzip the zip file. (The folder name is "337051920".)
- 9. Copy the App2Me Provider folder into the specified path for the VM card. The path is: "SD_Card Drive\ sdk\dsdk\dist\337051920"
- 10. Turn the SD card label face to the front of the machine, and then push it slowly into Slot 2 (lower slot) until you hear a click.
- 11. Turn the main power switch on.
- 12. Press [User Tools] on the operation panel.
- 13. Touch the "Extended Feature Settings" button twice.
- 14. Touch the "Extended Feature Info" tab on the LCD.
- 15. Touch the "App2Me" line.
- 16. Set the setting of the "Auto Start" to "On".
- 17. Touch the "Exit" button.
- 18. Exit the [User Tools/Counter] settings.

Mportant (

- App2Me and all other running applications on the VM card must be shut down before removing the VM card in order to update the firmware, back up NVRAM, install the browser unit, or execute application move or undo with SP5873.
- After the VM card is re-inserted, App2Me (and any other VM card applications used by the customer)
 must be switched on after the machine is switched on.

Browser Unit Update Procedure



- 1. Remove the slot cover [A] for SD cards (*\beta x 1).
- 1. Remove the VM card [B] from slot 2.
- 2. Turn the SD-card label face of the browser unit to the front of the machine. Then push it slowly into slot 2 [C] until you hear a click.
- 3. Plug in and turn on the main power switch.
- 4. Push the "User Tools" key.
 - If an administrator setting is registered for the machine, step 5 and 6 are required. Otherwise, skip to the step 7
- 5. Push the "Login/ Logout" key.
- 6. Login with the administrator user name and password.
- 7. Touch "Extended Feature Settings" twice on the LCD.
- 8. Touch "Uninstall" on the LCD.
- 9. Touch the "Browser" line
- 10. Confirmation message appears on the LCD.
- 11. Touch "Yes" to proceed.
- 12. Reconfirmation message appears on the LCD.
- 13. Touch "Yes" to uninstall the browser unit.

- 14. You will see "Uninstalling the extended feature... Please wait.", and then "Completed".
- 15. Touch "Exit" to go back to the setting screen.
- 16. Exit "User/Tools" setting, and then turn off the main power switch.
- 17. Remove the SD card of the browser unit from SD card slot 2.
- 18. Overwrite the updated program in the "sdk" folder of the browser unit application with PC.
- 19. Do the "Installation Procedure" to install the browser unit.

Handling Firmware Update Errors

An error message shows in the first line if an error occurs during a download. The error code consists of the letter "E" and a number ("E20", for example).

Error Message Table

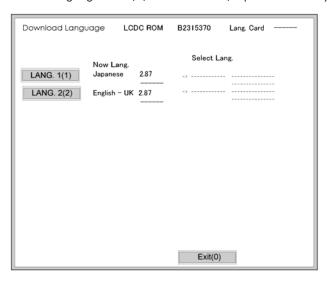
Code	Meaning	Solution
20	Cannot map logical address	Make sure the SD card is inserted correctly.
21	Cannot access memory	HDD connection incorrect or replace hard disks.
22	Cannot decompress compressed data	Incorrect ROM data on the SD card, or data is corrupted.
23	Error occurred when ROM update program started	Controller program abnormal. If the second attempt fails, replace controller board.
24	SD card access error	Make sure SD card inserted correctly, or use another SD card.
30	No HDD available for stamp data download	HDD connection incorrect or replace hard disks.
31	Data incorrect for continuous download	Insert the SD card with the remaining data required for the download, the re-start the procedure.
32	Data incorrect after download interrupted	Execute the recovery procedure for the intended module download, then repeat the installation procedure.
33	Incorrect SD card version	Incorrect ROM data on the SD card, or data is corrupted.
34	Module mismatch - Correct module is not on the SD card)	SD update data is incorrect. Acquire the correct data (Japan, Overseas, OEM, etc.) then install again.

35	Module mismatch – Module on SD card is not for this machine	SD update data is incorrect. The data on the SD card is for another machine. Acquire correct update data then install again.
36	Cannot write module – Cause other than E34, E35	SD update data is incorrect. The data on the SD card is for another machine. Acquire correct update data then install again.
40	Engine module download failed	Replace the update data for the module on the SD card and try again, or replace the BICU board.
42	Operation panel module download failed	Replace the update data for the module on the SD card and try again, or replace the LCDC.
43	Stamp data module download failed	Replace the update data for the module on the SD card and try again, or replace the hard disks.
44	Controller module download failed	Replace the update data for the module on the SD card and tray again, or replace controller board.
50	Electronic confirmation check failed	SD update data is incorrect. The data on the SD card is for another machine. Acquire correct update data then install again.

Installing Another Language

Many languages are available. But you can only switch between two languages at a time. Do the following procedure to select the two languages you want. You can select both of the languages you want from the user interface on the operation panel.

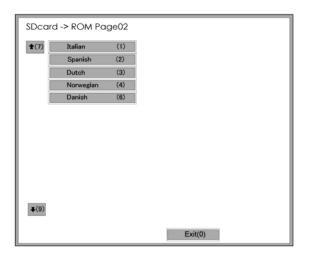
- 1. Switch the copier main power switch off.
- 2. Remove the SD slot cover (* x 1).
- 3. Insert the SD card with the language data into SD Card Slot 2.
- 4. Switch the copier main power switch on. The initial screen opens after about 45 seconds.
- 5. Touch "Language Data (2)" on the screen (or press the "2" key).



6. Touch "LANG. 1(1)" or "LANG. 2(2)"

Key	What it does
LANG. 1(1)	Touch this button on the screen (or press the "1" key on the 10-key pad) to open the next screen so you can select the 1st language.
LANG. 1(2)	Touch this button on the screen (or press the "2" key on the 10-key pad) to open the next screen so you can select the 2nd language.
Exit (O)	Touch this key on the screen (or press the "0" key on the 10-key pad) to quit the update procedure and return to normal screen.

7. Touch "LANG 1(1)" to select the 1st Language. Touch "LANG (2)" to select the 2nd Language.



- 8. Touch the appropriate button on the screen (or press the number on the 10-keypad) to select a language as the 1st (or 2nd) language.
 - If a language is already selected, it will show in reverse.
 - Touching "Exit (0)" returns you to the previous screen.
- 9. If you do not see the language that you want to select, touch " \uparrow (7)" or " \downarrow (9)" on the screen (or press the "7" or "9" key) to show more choices.

The Download Screen opens after you select a language.

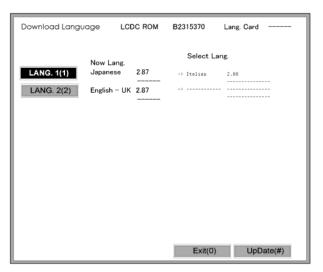
The 1st or 2nd language selected for updating shows.

The following show to right of the selection:

- 1. The first column shows the language currently selected.
- 2. The 2nd column shows the language selected to replace that language.

The example below shows that the download will replace "Japanese" with "Italian" as the 1st language.





10. Touch "Update(#)" on the screen (or press $\textcircled{\tiny{#}}$) to start the download.

Another screen with a progress bar does not show when the language is downloading.

The following occur at the time the language is downloading:

- The operation panel switches off.
- The LED on the power on key flashes rapidly.
- 11. After the message of installation completed has shown on the LCD, switch the copier main power switch off. Then remove the SD card from the slot.
- 12. Switch the copier main power switch on to resume normal operation.

Reboot/System Setting Reset

Software Reset

You can reboot the software with one of the following two procedures:

- 1. Turn the main power switch off and on.
- 2. Press and hold down and together for over 10 seconds. When the machine beeps once, release both buttons. After "Now loading. Please wait" shows for a few seconds, the copy window will open. The machine is ready for normal operation.

System Settings and Copy Setting Reset

System Setting Reset

The system settings in the UP mode can be reset to their defaults. Use the following procedure.

- 1. Press User Tools/Counter 💇
- 2. Hold down @ and then press System Settings.



You must press

first.



- 3. Press yes when the message prompts you to confirm that you want to reset the system settings.
- 4. Press exit when the message tells you that the settings have been reset.

Copier Setting Reset

Use the following procedure to reset the copy settings in the UP mode to their defaults.

- 2. Hold down @ and then press Copier/Document Server Settings.





• You must press # first.



- 3. Press "Yes" when the message prompts you to confirm that you want to reset the Copier Document Server settings.
- 4. Press exit when the message tells you that the settings have been reset.

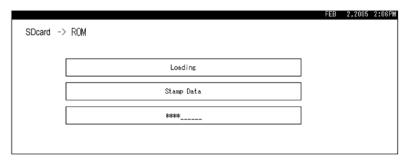
Downloading Stamp Data

The stamp data should be downloaded from the controller firmware to the hard disks at the following times:

• After the hard disks have been replaced.

The print data contains the controller software. Execute SP 5853 to download the fixed stamp data required by the hard disks.

- 1. Enter the SP mode.
- 2. Select SP5853 and then press "EXECUTE". The following screen opens while the stamp data is downloading.



The download is finished when the message prompts you to close.



3. Press the "Exit" button. Then turn the copier off and on again.

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
- Do SP5990-001 (SMC Print) before you switch the machine off. You will need a record of the NVRAM settings if the upload fails.
- 2. Switch the copier main power switch off.
- 3. Remove the SD slot cover (*x 1).
- 4. Insert the SD card into SD card slot 2. Then switch the copier on.
- 5. Execute SP5824-001 (NVRAM Data Upload) and then press the "Execute" key.
- 6. 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

7. 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 down load may fail if the SD card with the NVRAM data is damaged, or if the connection between the controller and BICU 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
- 1. Switch the copier main power switch off.

- 2. Remove the SD slot cover (F x 1).
- 3. Insert the SD card with the NVRAM data into SD Card Slot 2.
- 4. Switch the copier main power switch on.
- 5. Do SP5825-001 (NVRAM Data Download) and press the "Execute" key.



• 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.

 Registration No. User Code E-mail Protection Code Fax Destination Fax Option Group Name Select Title Folder Local Authentication Folder Authentication Account ACL New Document Initial ACL 	Information					
Key Display Key Display	 User Code E-mail Protection Code Fax Destination Fax Option Group Name 	 Folder Local Authentication Folder Authentication Account ACL 				

Download

- 1. Prepare a formatted SD card.
- 2. Make sure that the write-protection on the SD card is off.
- 3. Turn off the main power switch of the main machine.
- 4. Remove the SD slot cover at the left rear side of the machine ($\mathcal{F} \times 1$).
- 5. Install the SD card into the SD card slot 2 (for service use).
- 6. Turn on the main power switch.
- 7. Enter the SP mode.
- 8. Do SP5-846-051 (Backup All Addr Book).
- 9. Exit the SP mode, and then turn off the main power switch.
- 10. Remove the SD card form the SD card slot 2.
- 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 main power switch of the main machine.
- 2. Remove the SD slot cover at the left rear side of the machine (F x 1).
- 3. Install the SD card, which has already been uploaded, into the SD card slot 2.
- 4. Turn on the main power switch.
- 5. Enter the SP mode.
- 6. Do SP5-846-052 (Restore All Addr Book).
- 7. Exit the SP mode, and then turn off the main power switch.
- 8. Remove the SD card form the SD card slot 2.
- 9. Install the SD slot cover.

● Note

- 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.

Using the Debug Log

Overview

This machine provides a Save Debug Log feature that allows the Customer Engineer to save and retrieve error information for analysis.

Every time an error occurs, debug information is recorded in volatile memory. But this information is lost when the machine is switched off and on.

To capture this debug information, the Save Debug Log feature provides two main features:

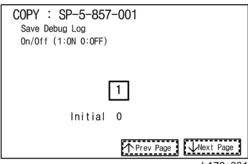
- Switching on the debug feature so error information is saved directly to the HDD for later retrieval.
- Copying the error information from the HDD to an SD card.

Do the following procedure below to set up the machine so the error information is saved automatically to the HDD when a user has problems with the machine. Then ask the user to reproduce the problem.

Switching ON and Setting UP Save Debug Log

The debug information cannot be saved until the "Save Debug Log" function has been switched on and a target has been selected.

- 1. Enter the SP mode and switch the Save Debug Log feature on.
 - Enter the SP mode.
 - Touch "System SP".
 - On the LCD panel, open SP5857.
- 2. Under "5857 Save Debug Log", touch "1 On/Off".

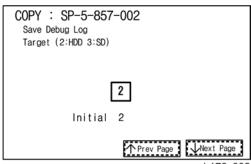


3. On the control panel keypad, press "1". Then press 🖱. This switches the Save Debug Log feature on.





• The default setting is "0" (OFF). This feature must be switched on in order for the debug information to be saved.



b178s002

4. Select the target destination where the debug information will be saved. Under "5857 Save Debug Log", touch "2 Target", enter "2" with the operation panel key to select the hard disk as the target destination. Then press ⁽⁴⁾.



- Select "3 SD Card" to save the debug information directly to the SD card if it is inserted in the service slot.
- Now touch "5858" and specify the events that you want to record in the debug log. SP5858 (Debug Save When) provides the following items for selection.

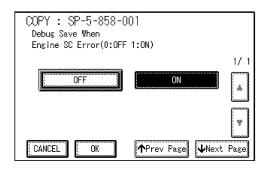
1	Engine SC Error	Saves data when an engine-related SC code is generated.
2	Controller SC Error	Saves debug data when a controller-related SC Code is generated.
3	Any SC Error	Saves data only for the SC code that you specify by entering code number.
4	Jam	Saves data for jams.



• More than one event can be selected.

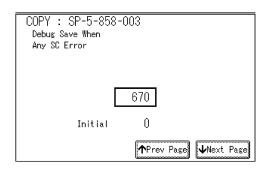
Example 1: To Select Items 1, 2, 4

Touch the appropriate items(s). Press "ON" for each selection. This example shows "Engine SC Error" selected.



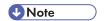
Example 2: To Specify an SC Code

Touch "3 Any SC Error", enter the 3-digit SC code number with the control panel number keys. Then press . This example shows an entry for SC670.



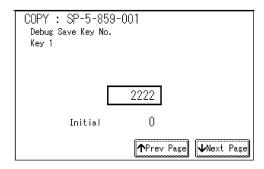


- For details about SC code numbers, please refer to the SC tables in Section 4. "Troubleshooting".
- 6. Select one or more memory modules for reading and recording debug information. Touch "5859".
 Under "5859" press the necessary key item for the module that you want to record.
 Enter the appropriate 4-digit number. Then press ⁽⁴⁾.



• Refer to the two tables below for the 4-digit numbers to enter for each key.

The example below shows "Key 1" with "2222" entered.



The following keys can be set with the corresponding numbers. (The initials in parentheses indicate the names of the modules.)

4-Digit Entries for Keys 1 to 10

Key No.	Сору	Printer	Scanner	Web	
1	2222 (SCS)				
2	14000 (SRM)				
3	256 (IMH)				
4	1000 (ECS)				
5	1025 (MCS)				
6	4848 (COPY)	4400 (GPS)	5375 (Scan)	5682 (NFA)	
7	2224 (BICU)	4500 (PDL)	5682 (NFA)	6600 (WebDB)	
8		4600 (GPS-PM)	3000 (UCS)	3300 (PTS)	
9		2000 (NCS)	2000 (NCS)	6666 (WebSys)	
10		2224 (BICU)	4126 (DCS)	2000 (NCS)	



• The default settings for Keys 1 to 10 are all zero ("0").

Key to Acronyms

Acronym	Meaning	Acronym	Meaning	
ECS	Engine Control Service	NFA	Net File Application	
GPS	GW Print Service PDL		Printer Design Language	
GSP-PM	GW Print Service – Print Module	PTS	Print Server	
IMH	Image Memory Handler	SCS	System Control Service	
MCS	Memory Control Service	SRM	System Resource Management	
NCS	Network Control Service	WebDB	Web Document Box (Document Server)	

 The machine is now set to record the debugging information automatically on the HDD (the target selected with SP5857-002) for the events that you selected with SP5858 and the memory modules selected with SP5859.

Please keep the following important points in mind when you do this setting:

- Note that the number entries for Keys 1 to 5 are the same for the Copy, Printer, Scanner, and Web memory modules.
- The initial settings are all zero.
- These settings remain in effect until you change them. Be sure to check all the settings, especially the settings for Keys 6 to 10. To switch off a key setting, enter a zero for that key.
- You can select any number of keys from 1 to 10 (or all) by entering the corresponding 4-digit numbers from the table.
- You cannot mix settings for the groups (COPY, PRINTER, etc.) for 006 to 010. For example, if you
 want to create a PRINTER debug log you must select the settings from the 9 available selections for
 the "PRINTER" column only.
- One area of the disk is reserved to store the debug log. The size of this area is limited to 4 MB.

Retrieving the Debug Log from the HDD

Retrieve the debug log by copying it from the hard disk to an SD card.

- 1. Insert the SD card into slot 2 (service slot) of the copier.
- 2. Enter the SP mode and execute SP5857-009 (Copy HDD to SD Card (Latest 4 MB)) to write the debugging data to the SD card.
- Use a card reader to copy the file and send it for analysis to your local Ricoh representative by email.
 You can also send the SD card by regular mail if you want.

Recording Errors Manually

SC errors and jams only are recorded to the debug log automatically. Please instruct the user to do the following immediately after occurrence to save the debug data for any other errors that occur while the customer engineer is not on site. Such problems also include a controller or panel freeze.



- You must previously switch on the Save Debug Feature (SP5857-001) and select the hard disk as the save destination (SP5857-002) if you want to use this feature.
- 1. Press (Clear Modes).on the operation panel when the error occurs.
- 2. On the control panel, enter "01". Then hold down for at least 3 seconds until the machine beeps and then release it. This saves the debug log to the hard disk for later retrieval with an SD card by the service representatives.

3. Switch the machine off and on to resume operation.

The debug information for the error is saved on the hard disk. This lets the service representative retrieve it on their next visit by copying it from the HDD to an SD card.

Debug Log Codes

SP5857-015 Copy SD Card-to-SD Card: Any Desired Key

This SP copies the log on an SD card (the file that contains the information written directly from shared memory) to a log specified by key number. The copy operation is executed in the log directory of the SD card inserted in the same slot. (This function does not copy from one slot to another.) Each SD card can hold up to 4 MB of file data. Unique file names are created for the data during the copy operation to prevent overwriting files of the same name. This means that log data from more than one machine can be copied onto the same SD card. This command does not execute if there is no log on the HDD for the name of the specified key.

SP5857-016 Create a File on HDD to Store a Log

This SP creates a 32 MB file to store a log on the HDD. However, this is not a completely empty file. The created file will hold the number "2225" as the SCS key number and other non-volatile information. Even if this SP is not executed, a file is created on the HDD when the first log is stored on the HDD (it takes some time to complete this operation). This creates the possibility that the machine may be switched off and on before the log can be created completely. If you execute this SP to create the log file beforehand, this will greatly reduce the amount of time required to acquire the log information and save onto the HDD. With the file already created on the HDD for the log file, the data only needs to be recorded. A new log file does not need to be created. To create a new log file, do SP5857-011 to delete the debug log data from the HDD. Then do SP5857-016.

SP5857-017 Create a File on SD Card to Store a Log

This SP creates a 4 MB file to store a log on an SD card. However, this is not a completely empty file. The created file will hold the number "2225" as the SCS key number and other non-volatile information. Even if this SP is not executed, a file is created on the SD card when the first log is stored on the SD card (it takes some time to complete this operation). This creates the possibility that the machine may be switched off and on before the log can be created completely. If you execute this SP to create the log file beforehand, this will greatly reduce the amount of time required to acquire the log information and save onto the SD card. With the file already created on the SD card for the log file, the data only needs to be recorded; a new log file does not require creation. To create a new log file, do SP5857-012 to delete the debug log data from the SD card. Then do SP5857-017.

5

Card Save Function

Overview

Card Save:

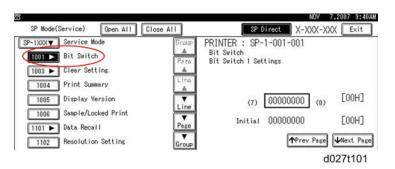
- The Card Save function is used to save print jobs received by the printer on an SD card with no print
 output. Card Save mode is toggled using printer Bit Switch #1 bit number 4. Card Save will remain
 enabled until the SD card becomes full, or until all file names have been used.
- Captures are stored 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:

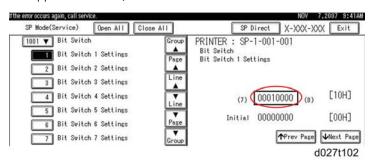
Card Save cannot be used with PJL Status Readback commands. PJL Status Readbacks will not work.
 In addition they will cause the Card Save to fail.

Procedure

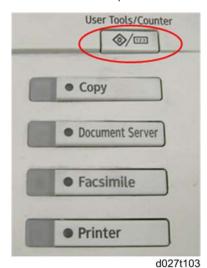
- 1. Turn the main power switch OFF.
- 2. Insert the SD card into slot 2. Then turn the power ON.
- 3. Enter SP mode.
- 4. Select the "Printer Sp".
- 5. Select SP-1001 "Bit Switch".



6. 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 "List/Test Print" menu.

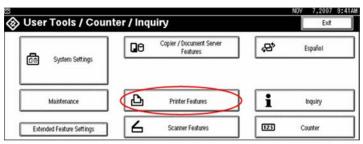


- 7. Press "Exit" to exit SP Mode.
- 8. Press the "User Tools/Counter" button.



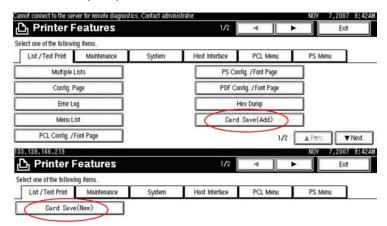
9. Select "Printer Features".





d027t105

 Card Save (Add) and Card Save (New) should be displayed on the screen. Select Card Save (Add) or Card Save (New).



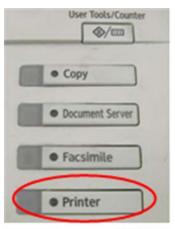
2/2 ▲ Prev. ▼ Next d027t106

11. Press "OK" and then exit the "User Tools/Counter" menu.



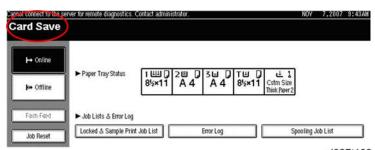
d027t107

12. Press the "Printer" button.



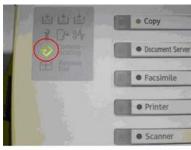
d027t108

13. Card Save should be displayed in the top left of the display panel.



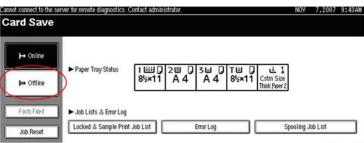
d027t109

14. Send a job to the printer. The Communicating light should start blinking as shown below.



d027t110

- 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 "Offline" and then the "Clear/Stop" button to exit Card Save mode.



d027t111

- 17. Change the Bit Switch Settings back to the default **0000000**. Press the "#" button in the numeric keypad to register the changes.
- 18. Remove the SD card after the main power switch 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.

6. Troubleshooting

SC Tables

Service Call Conditions

Summary

The 'SC Table' section shows the SC codes for controller errors and other errors. The latter (not controller errors) are put into four types. The type is determined by their reset procedures. The table shows the classification of the SC codes.

	Key	Definition	Reset Procedure
Controller errors	CTL	The error has occurred in the controller.	See "Troubleshooting Procedure" in the table.
	A	The error involves the fusing unit. The machine operation is disabled. The user cannot reset the error.	Turn the main switch off and on. Reset the SC (set SP5-810-1). Turn the main switch off and on.
	В	The error involves one or some specific units. The machine operates as usual, excluding the related units.	Turn the operation switch off and on.
Other errors	С	The error is logged. The SC-code history is updated. The machine operates as usual.	The SC will not show. Only the SC history is updated.
	D	The machine operation is disabled. You can reset the machine by turning the operation switch or main switch off and on. If the error occurs again, the same SC code is displayed.	Turn the operation switch or main power switch off and on.

After you turn the main power switch off, wait for one second or more before you turn the main power switch on (IIIT SC 672). All SCs are logged. The print log data (SP5-990-004) in SP mode can check the latest 10 SC codes detected and total counters when the SC code is detected.



• If the problem concerns electrical circuit boards, first disconnect then reconnect the connectors before you replace the PCBs.

• If the problem concerns a motor lock, first check the mechanical load before you replace motors or sensors.

SC Code Classification

The table shows the classification of the SC codes:

Class 1	Section	SC Code	Detailed section
1 VV	Committee	100 -	Scanner
1XX	Scanning	190 -	Unique for a specific model
		200 -	Polygon motor
		220 -	Synchronization control
avv	1	230 -	FGATE signal related
2XX	Laser exposure	240 -	LD control
		280 -	Unique for a specific model
		290 -	Shutter
	Image development 1	300 -	Charge
277		330 -	Drum potential
3XX		350 -	Development
		380 -	Unique for a specific model
		400 -	Image transfer
	Image development 2	420 -	Paper separation
AVV		430 -	Cleaning
4XX		440 -	Around drum
		460 -	Unit
		480 -	Others

Class 1	Section	SC Code	Detailed section
5XX		500 -	Paper feed
	Paper feed / Fusing	515 -	Duplex
		520 -	Paper transport
		530 -	Fan motor
5XX	Dan an faced / Euripe	540 -	Fusing
344	Paper feed / Fusing	560 -	Others
		570 -	Unique for a specific model
		600 -	Electrical counters
		620 -	Mechanical counters
		630 -	Account control
6XX	Communication	640 -	CSS
		650 -	Network
		670 -	Internal data processing
		680 -	Unique for a specific model
		700 -	Original handling
7XX	Peripherals	720 -	Two-tray finisher
		740 -	Booklet finisher
		800 -	Error after ready condition
8XX	Controller	820 -	Diagnostics error
0.00		860 -	Hard disk
		880 -	Unique for a specific model
		900 -	Counter
9XX	Others	920 -	Memory
		990 -	Others

SC1xx: Scanning

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		Exposure lamp error
		The peak white level is less than 64/255 digits (8 bits) when scanning the shading plate.
		Exposure lamp defective
		Lamp stabilizer defective
		Exposure lamp connector defective
101	D	Standard white plate dirty
		Scanner mirror or scanner lens out of position or dirty
		Check and clean the scanner mirror(s) and scanner lens.
		2. Check and clean the shading plate.
		3. Replace the exposure lamp.
		4. Replace the lamp stabilizer.
		5. Replace the scanner mirror(s) or scanner lens.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		Scanner home position error 1
		The scanner home position sensor does not detect the "OFF" condition during operation.
		Scanner motor driver defective
	D	Scanner motor defective
120		Harness between SIO board and scanner motor disconnected
120		Scanner HP sensor defective
		Harness between SIO and HP sensor disconnected
		Check the cable connection between the SIO board and scanner motor.
		2. Check the cable connection between the SIO and HP sensor.
		3. Replace the scanner motor.
		4. Replace the HP sensor.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		Scanner home position error 2
		The scanner home position sensor does not detect the "ON" condition during operation.
		Scanner motor driver defective
		Scanner motor defective
121	D	Harness between SIO board and scanner motor disconnected
121		Scanner HP sensor defective
		Harness between SIO and HP sensor disconnected
		Check the cable connection between the SIO board and scanner motor.
		Check the cable connection between the SIO and HP sensor.
		3. Replace the scanner motor.
		4. Replace the HP sensor.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		Black level detection error
		The black level cannot be adjusted within the target value during the zero clamp.
141	D	Harness disconnected Defective SBU
		Detective SBU
		1. Check the cable connection
		2. Replace the SBU.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		White level detection error
		The white level cannot be adjusted within the target during auto gain control.
		Dirty exposure glass or optics section
		SBU board defective
		Exposure lamp defective
		Lamp stabilizer defective
142	D	Scanner motor defective
		1. Clean the exposure glass, white plate, mirrors, and lens.
		2. Check if the exposure lamp is lit during initialization.
		3. Check the harness connection between SBU and BICU.
		4. Replace the exposure lamp.
		5. Replace the scanner motor.
		6. Replace the SBU board.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	D	SBU communication error
		The SBU connection cannot be detected at power on or recovery from the energy save mode.
		Defective SBU
144		Defective harness
		Defective detection port on the BICU
		1. Replace the harness.
		2. Replace the SBU.
		3. Replace the BICU.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
161	D	IPU error

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		The error result of self-diagnostic by the ASIC on the BICU is detected.
		Defective BICU
001		Defective connection between BICU and SBU
		1. Check the connection between BICU and SBU.
		2. Replace the BICU.
		The machine detects an error during an access to the Ri.
002	D	Defective BICU board
		Replace the BICU board.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
165	D	Copy Data Security Unit error
		The copy data security board is not detected when the copy data security function is set "ON" with the initial setting.
		A device check error occurs when the copy data security function is set "ON" with the initial setting.
		 Incorrect installation of the copy data security board Defective copy data security board
		1. Reinstall the copy data security board.
		2. Replace the copy data security board.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	D	Serial Number Mismatch
		Serial number stored in the memory does not have the correct code.
195		NVRAM defective BICU replaced without original NVRAM
		1. Check the serial number with SP5-811-002.
		2. If the stored serial number is incorrect, contact your supervisor.

No.

Туре

	D	Polygon motor error 1: ON timeout
		The polygon mirror motor does not reach the targeted operating speed within the specified time after turning on or changing speed
		Defective or disconnected harness to polygon motor driver board
202		Defective polygon motor driver board
		Defective polygon motor.
		1. Replace the polygon motor.
		2. Replace the laser optics housing unit.
		3. Replace the harness.
		4. Replace the BICU.

Details (Symptom, Possible Cause, Troubleshooting Procedures)

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	D	Polygon motor error 2: OFF timeout
203		The polygon mirror motor does leave the READY status within 3 seconds after the polygon motor switches off.
		 Disconnected or defective harness to polygon motor driver board Defective polygon motor driver board Defective polygon motor
		Check or replace the harness. Replace the polygon motor.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	D	Polygon motor error 3: XSCRDY signal error
204		The SCRDY_N signal goes HIGH (inactive) while the laser diode is firing.
		Disconnected or defective harness to polygon motor driver board
		Defective polygon motor
		Defective polygon motor driver board
		1. Check or replace the harness.
		2. Replace the polygon motor.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
210	С	Laser synchronizing detection error: end position [K]
211	С	Laser synchronizing detection error: end position [Y]
212	С	Laser synchronizing detection error: end position [M]
213	С	Laser synchronizing detection error: end position [C]
	-	The laser synchronizing detection signal for the end position of LDB [K], [Y], [M], [C] is not detected for one second after the LDB unit turned on when detecting the main scan magnification. • Disconnected or defective harness to synchronizing detector for end position
		 Defective synchronizing detector board Defective LD board or driver Defective BICU
		 Replace the harness of the LD board. Replace the laser optics housing unit. Replace the BICU.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
220	D	Laser synchronizing detection error: start position [K]: LDO
222	D	Laser synchronizing detection error: start position [Y]: LDO
226	D	Laser synchronizing detection error: start position [C]: LDO

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
-	-	The laser synchronizing detection signal for the start position of the LDB [K], [Y], [C] is not output for two seconds after LDB unit turns on while the polygon motor is rotating normally.
		Disconnected cable from the laser synchronizing detection unit or defective connection
		Defective laser synchronizing detector
		Defective LDB
		Defective BICU
		1. Check the connectors.
		2. Replace the laser-synchronizing detector.
		3. Replace the LDB.
		4. Replace the BICU.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	D	FGATE ON error: K
230		The PFGATE ON signal does not assert within 5 seconds after processing the image in normal job or MUSIC for start position [K].
		Defective ASIC (Lupus)
		Poor connection between controller and BICU.
		Defective BICU
		Check the connection between the controller board and the BICU.
		2. Replace the BICU.
		3. Replace the controller board.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	D	FGATE OFF error: K
231		The PFGATE ON signal still asserts within 5 seconds after processing the image in normal job or MUSIC for end position [K].
		The PFGATE ON signal still asserts when the next job starts.
		See SC 230 for troubleshooting details.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
232	D	FGATE ON error: Y
		The PFGATE ON signal does not assert within 5 seconds after processing the image in normal job or MUSIC for start position [Y].
		See SC 230 for troubleshooting details.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	D	FGATE OFF error: Y
233		The PFGATE ON signal still asserts within 5 seconds after processing the image in normal job or MUSIC for end position [Y].
		The PFGATE ON signal still asserts when the next job starts.
		See SC 230 for troubleshooting details.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
234	D	FGATE ON error: M
		The PFGATE ON signal does not assert within 5 seconds after processing the image in normal job or MUSIC for start position [M].
		See SC 230 for troubleshooting details.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
235	D	FGATE OFF error: M
		The PFGATE ON signal still asserts within 5 seconds after processing the image in normal job or MUSIC for end position [M].
		The PFGATE ON signal still asserts when the next job starts.
		See SC 230 for troubleshooting details.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
237	D	FGATE OFF error: C
		The PFGATE ON signal still asserts within 5 seconds after processing the image in normal job or MUSIC for end position [C]. The PFGATE ON signal still asserts when the position starts.
		The PFGATE ON signal still asserts when the next job starts. See SC 230 for troublesheeting details.
		See SC 230 for troubleshooting details.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
240	С	LD error: K
241	С	LD error: Y
242	С	LD error: M
243	С	LD error: C
		The BICU detects LDB error a few times consecutively when LDB unit turns on after LDB initialization.
-	-	Worn-out LD Disconnected or broken harness of the LD 1. Replace the harness of the LD. 2. Replace the laser optics housing unit.
		3. Replace the BICU.

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No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		Line position adjustment (MUSIC) error
		Line position adjustment fails four consecutive times.
		Pattern sampling error (insufficient image density)
	D	Defective ID sensors for the line position adjustment
		Defective image transfer belt unit
		Defective PCDU(s)
285		Defective laser optics housing unit
		Check and reinstall the image transfer belt unit and PCDUs.
		2. Check if each toner bottle has enough toner.
		3. Replace the ID sensor.
		4. Replace the image transfer belt unit.
		5. Replace the PCDU(s).
		6. Replace the laser optics housing unit.

SC3xx: Image Processing – 1

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
312	D	Charge P.P. output error [K]
313	D	Charge P.P. output error [M]
314	D	Charge P.P. output error [C]
315	D	Charge P.P. output error [Y]
		The feedback voltage of the charge AC for each color is 0.3 V or less for 0.2 seconds after the charge AC has turned on.
-	-	 Disconnected or broken harnesses of the HVPS Defective PCDU Defective HVPS 1. Check or replace the harnesses of the HVPS. 2. Reinstall or replace the PCDU. 3. Replace the HVPS.

SC3xx: Image Processing – 2

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
360	D	TD sensor (Vt high) error 1: K
361	D	TD sensor (Vt high) error 1: M
362	D	TD sensor (Vt high) error 1: C
363	D	TD sensor (Vt high) error 1: Y
-	-	 The Vt value of the black, magenta, cyan, or yellow TD sensor exceeds the specified value (default: 4.7V) with SP3020-002 for twenty counts. The [Vt - Vtref] value of the black, magenta, cyan, or yellow TD sensor exceeds the specified value (default: 5.0V) with SP3020-001. Black, magenta, cyan, or yellow TD sensor disconnected Harness between TD sensor and PCDU defective Defective TD sensor.
		 Check the black, magenta, cyan, or yellow TD sensor connector and harness between the TD sensor and PCDU for damage. Check the drawer connector.
		Replace the defective PCDU.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
364	D	TD sensor (Vt low) error 2: K
365	D	TD sensor (Vt low) error 2: M
366	D	TD sensor (Vt low) error 2: C
367	D	TD sensor (Vt low) error 2: Y

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
-	-	The Vt value of the black, magenta, cyan, or yellow TD sensor is below the specified value with SP3020-004 (default: 0.5V) for 10 counts.
		TD sensor harness disconnected, loose, defective
		A drawer connector disconnected, loose, defective
		TD sensor defective
		Check the black, magenta, cyan, or yellow TD sensor connector and harness between the TD sensor and PCDU for damage.
		2. Check the drawer connector.
		3. Replace the defective PCDU.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
372	D	TD sensor adjustment error: K
373	D	TD sensor adjustment error: M
374	D	TD sensor adjustment error: C
375	D	TD sensor adjustment error: Y
		During TD sensor initialization, the output value of the black, magenta, cyan, or yellow TD sensor is not within the range of the specified value with SP3238-001 to -004 (default: $2.5V$) \pm 0.2V
-	-	 Heat seal not removed from a new developer pack TD harness sensor disconnected, loose or defective TD sensor defective Harness between TD sensor and drawer disconnected, defective Remove the heat seal from each PCDU. Replace the defective PCDU.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
380	С	Drum gear position sensor error: K
381	С	Drum gear position sensor error: M
382	С	Drum gear position sensor error: C

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
383	С	Drum gear position sensor error: Y
		The machine does not detect the drum position signal for 3 seconds at the drum phase adjustment.
		Dirty or defective drum gear position sensor
		Clean the drum gear position sensor.
		2. Check the harness connection.
		3. Replace the drum gear position sensor.
		4. Replace the PCDU.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
396	D	Drum/Development motor error: K
397	D	Drum/Development motor error: M
398	D	Drum/Development motor error: C
399	D	Drum/Development motor error: Y
		The machine detects a High signal from the drum/development motor for 2 seconds after the drum/development motor turned on.
-	-	 Overload on the drum/development motor Defective drum/development motor Defective harness Shorted 24 V fuse on the PSU Defective interlock system 1. Check or replace the harness. 2. Replace the drum/development motor. 3. Replace the 24V fuse on the PSU.

SC4xx: Image Processing - 3

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	D	ID sensor adjustment error
		When the Vsg error counter reaches "3", the machine detects "SC400".
		The Vsg error counter counts "1" when the Vsg detected by ID sensor is more than the value (default: 4.5V) specified with SP3324-005 or less than the value (default: 3.5V) specified with SP3324-006.
		Dirty or defective ID sensor
400		Defective ID sensor shutter
400		1. Check the harness of the ID sensor.
		2. Clean or replace the ID sensor.
		Note
		 After replacing the ID sensor, input the ID sensor correction coefficient with SP3362-013 to -018. For details, refer to "ID sensor board" in the Replacement and Adjustment section.
		3. Replace the IOB.
		4. Replace the image transfer belt unit.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
441	D	Image transfer unit motor error
		The motor LOCK signal is not detected for more than two seconds while the motor START signal is on.
		 Motor overload Defective image transfer unit motor
		 Replace the image transfer belt unit. Replace the IOB.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	D	Image transfer belt contact motor error
		The image transfer belt contact sensor does not detect the movement of actuator at the sensor while the polygon motor rotates.
		Dirty image transfer belt contact sensor
442		Defective image transfer belt contact motor
		Disconnected connector of image transfer belt contact sensor or motor
		Disconnected cable
		Replace the image transfer belt contact sensor.
		Replace the image transfer belt contact motor.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
443	С	Image transfer unit error
		Defective encoder sensor Image transfer unit installation error
		Defective image transfer unit motor Check if the image transfer unit is correctly set.
		 Replace the image transfer unit motor. Replace the image transfer unit.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	D	Paper transfer unit contact error
		The paper transfer unit contact sensor does not detect the movement of actuator at the sensor while the polygon motor rotates.
		Defective paper transfer unit contact sensor
		Defective paper transfer unit contact motor
452		Broken +24V fuse on PSU
432		Defective IOB
		Check the connection between the paper transfer unit and PSU.
		2. Replace the paper transfer unit contact sensor.
		3. Replace the paper transfer unit contact motor.
		4. Replace the +24V fuse on the PSU.
		5. Replace the IOB.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	D	Separation power pack output error
		An interrupt checks the status of the power pack every 20 ms. This SC is issued if the BICU detects a short in the power pack 10 times at D(ac).
460		 Damaged insulation on the high-voltage supply cable Damaged insulation around the high-voltage power supply.
		Replace the high-voltage supply cable. Replace the high-voltage power supply unit.
		3. Replace the IOB.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	D	Toner transport motor error
		The LOCK signal is not detected for 2 seconds when the transport motor turns on.
		Toner transport motor overload
		Disconnected or broken harness
		Defective toner transport motor
490		Opened +24V fuse on the PSU
		Defective interlock switch
		1. Check or replace the harness.
		2. Replace the toner transport motor.
		3. Replace the +24V fuse on the PSU.
		4. Replace the interlock switch.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	D	High voltage power: Drum/ development bias output error
		An error signal is detected for 0.2 seconds when charging the drum or development.
		High voltage leak
		Broken harness
491		Defective drum unit or development unit
		Defective high voltage supply unit
		1. Check or replace the harness.
		2. Replace the drum unit or paper transfer unit.
		3. Replace the high voltage supply unit.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	С	High voltage power: Image transfer/ paper transfer bias output error
		An error signal is detected for 0.2 seconds when charging the separation, image transfer bet or paper transfer roller.
492		 High voltage leak Broken harness Defective image transfer belt unit or paper transfer unit Defective high voltage supply unit
		Check or replace the harness. Replace the image transfer belt unit or paper transfer unit.
		3. Replace the high voltage supply unit.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	С	Temperature and humidity sensor error 2
498		• The thermistor output of the temperature sensor was not within the prescribed range (0.2V to 3.5V).
		 The thermistor output of the humidity sensor was not within the prescribed range (0.01V to 2.4V).
		 Temperature and humidity sensor harness disconnected, loose, defective Temperature and humidity sensor defective
		Check the connector and harness. Replace the temperature/humidity sensor.

SC5xx: Paper Feed and Fusing

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
501	В	Paper Tray 1 error
502	В	Paper Tray 2 error

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		When the tray lift motor rotates counterclockwise, (if the upper limit is not detected within 10 seconds), the machine asks the user to reset the tray.
		When the tray lift motor rotates clockwise, (if the upper limit is not detected within 1.5 seconds), the machine asks the user to reset the tray.
		If one of these conditions occurs three consecutive times, the SC is generated.
		Disconnected or defective paper lift sensor
		Disconnected or defective tray lift motor
-	-	Defective bottom plate lift mechanism
		Too much paper in the tray
		Defective IOB
		Check if the paper is not loaded too much.
		2. Check if the bottom plate smoothly moves up and down manually.
		3. Check and/or replace the tray lift motor/ paper lift sensor.
		4. Replace the IOB.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		Tray 3 error (Paper Feed Unit or LCT)
503-0	В	Tray 3 error (Paper Feed Unit or LCT) For the paper feed unit: • When the tray lift motor is turned on, the upper limit is not detected within 10 seconds For the LCT: • SC 503-01 occurs if the upper or lower limit is not detected within 8 seconds when the tray lift motor is turned on to lift or lower the tray. For the paper feed unit: • Defective tray lift motor or connector disconnection • Defective lift sensor or connector disconnection
		For the LCT: Defective stack transport clutch or connector disconnection Defective tray motor or connector disconnection Defective end fence home position sensor or connector disconnection Defective upper limit sensor or connector disconnection Defective tray lift motor or connector disconnection Check the cable connections. Check and/or replace the defective component.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		Tray 3 error (Paper Feed Unit or LCT)
		This SC is generated if the following condition occurs 3 consecutive times.
		For the paper feed unit:
		When the tray lowers, the tray lift sensor does not go off within 1.5 sec.
		For the LCT:
	В	 When the main switch is turned on or when the LCT is set, if the end fence is not in the home position (home position sensor ON), the tray lift motor stops.
503-0		• If the upper limit does not go off for 1.5 seconds even the tray lift motor turns on to lower the tray after the upper limit has been detected at power on.
2		For the paper feed unit:
		Defective tray lift motor or connector disconnection
		Defective lift sensor or connector disconnection
		For the LCT:
		Defective stack transport clutch or connector disconnection
		Defective tray motor or connector disconnection
		Defective end fence home position sensor or connector disconnection
		Check the cable connections.
		2. Check and/or replace the defective component.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		Tray 4 error (Paper Feed Unit or LCT)
504-0	В	For the two-tray paper feed unit When the tray lift motor is turned on, the upper limit is not detected within 10 seconds. If this condition occurs three consecutive times, the SC is generated. For the LCT If the upper or lower limit is not detected within 8 seconds when the tray lift motor is turned on to lift up or lower the tray • Defective tray lift motor or connector disconnection • Defective lift sensor or connector disconnection 1. Check the cable connections. 2. Check and/or replace the defective component.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		Tray 4 error (3 Tray Paper Feed Unit)
		This SC is generated if the following condition occurs 3 consecutive times.
		For the two-tray paper feed unit
	В	When the tray lowers, the tray lift sensor does not go off within 1.5 sec.
		For the LCT
504-0		If the upper limit does not go off for 1.5 seconds even the tray lift motor turns on to lower the tray after the upper limit has been detected at power on.
		Defective tray lift motor or connector disconnection
		Defective lift sensor or connector disconnection
		1. Check the cable connections.
		2. Check and/or replace the defective component.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
505		5th tray lift malfunction (optional LCT)

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
-01	В	 This SC is generated if the following condition occurs: When the tray lift sensor of the LCT 1200-sheet does not go on after the tray lift motor has turned on to lift the paper tray. When the tray lift sensor of the LCT 1200-sheet does not go off after the tray lift motor has turned on to lower the paper tray. When the tray lift sensor of the LCT 1200-sheet does not go on after the pick-up roller solenoid has turned on at power on. Tray lift motor defective or disconnected Tray lift sensor defective or disconnected Check the harness connections.
		2. Replace the tray lift motor.3. Replace the tray lift sensor.Both tray lift sensor and lower limit sensor are turned on at the same time when the
-02	В	 main power is turned on or the right door is closed. Tray lift motor defective or disconnected Tray lift sensor defective or disconnected Lowe limit sensor defective or disconnected 1. Check the harness connections. 2. Replace the tray lift motor. 3. Replace the tray lift sensor. 4. Replace the lower limit sensor.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	D	Fusing fan error
		The IOB does not receive the lock signal 10 seconds after turning on the fusing fan.
530		Defective fusing fan motor or connector disconnection
		Defective IOB
		Check the connector and/or replace the fusing fan motor.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	D	Ventilation fan (at the left side of the machine) motor-front/rear error
		The IOB does not receive the lock signal for 10 seconds after turning on the ventilation fan motor-front/rear.
531		Defective ventilation fan motor-front or rear Defective IOB
		 Replace the ventilation fan (at the left side of the machine) motor-front or rear. Replace the IOB.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	D	IH coil fan error
		The machine does not detect the fan motor lock signal for 10 seconds while the IH coil fan turns on.
532		 Disconnected harness Overload on the IH coil fan motor Defective IH coil fan motor Defective IOB
		 Check or replace the harness. Replace the IH coil fan. Replace the IOB.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	D	IH inverter fan error
		The machine does not detect the fan motor lock signal for 10 seconds while the IH inverter fan turns on.
533		 Disconnected harness Overload on the IH inverter fan motor Defective IH inverter fan motor Defective IOB
		 Check or replace the harness. Replace the IH inverter fan. Replace the IOB.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	D	Second duct fan error
		The machine does not detect the fan motor lock signal for 10 seconds while the second duct fan turns on.
534		 Disconnected harness Overload on the second duct fan motor Defective second duct motor Defective IOB
		 Check or replace the harness. Replace the second duct fan. Replace the IOB.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	D	Paper exit fan error
		The machine does not detect the fan motor lock signal for 10 seconds while the paper exit fan turns on.
		Disconnected harness
535		Overload on the paper exit fan motor
		Defective paper exit motor
		Defective IOB
		1. Check or replace the harness.
		2. Replace the paper exit fan.
		3. Replace the IOB.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
536	D	Third duct fan error
		The motor lock signal error is detected for 10 seconds after the motor lock signal was first detected.
		Defective third duct fan motor
		Disconnected or defective harness
		Defective IOB
		Replace the third duct fan motor.
		2. Check or replace the harness.
		3. Replace the IOB.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
540	D	Fusing/Paper exit motor error
		The IOB does not receive the lock signal 2 seconds after turning on the fusing/paper exit motor.
		Motor overload Defective fusing/paper exit motor
		Check or replace the harness. Replace the fusing/paper exit motor.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
541	A	Heating roller thermopile error
		The temperature detected by the heating roller thermopile does not reach 0°C for 6 seconds.
		 Loose connection of the heating roller thermopile Defective heating roller thermopile Defective thermopile
		 Check if the heating roller thermopile is firmly connected. Replace the heating roller thermopile.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
542	А	Heating roller warm-up error 1
		• The heating roller temperature does not reach 80°C for 20 seconds after the IH inverter turned on.
		The center temperature of the heating roller does not reach the ready temperature for 90 seconds after the IH inverter turned on.
		Dirty or defective thermopile Defective IH coil unit
		Check if the heating roller thermopile is firmly connected.
		2. Replace the thermopile.
		3. Replace the IH coil unit.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	A	Heating roller fusing lamp overheat 1 (software error)
		The temperature detected by the heating roller thermopile stays at 230°C for 1 second.
		Defective PSU
543		Defective IOB
343		Defective BICU
		Related SC code: SC 553
		1. Replace the PSU.
		2. Replace the IOB.
		3. Replace the BICU.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	A	Heating roller fusing lamp overheat 1 (hardware error)
		During stand-by mode or a print job, the temperature detected by the heating roller thermopile reaches 250 °C.
		Defective PSU
		Defective IOB
544		Defective BICU
		Defective fusing control system
		Related SC code: SC 543
		1. Replace the PSU.
		2. Replace the IOB.
		3. Replace the BICU.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
545	А	Heating roller fusing lamp consecutive full power 1
		When the fusing unit is not running in the ready condition, the heating roller fusing lamp keeps on full power for 8 seconds.
		Broken heating roller fusing lamp
		Related SC code: SC 555
		Replace the heating roller fusing lamp.
		2. Replace the PSU.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	D	Zero cross error
547		The zero cross signal is detected three times even though the heater relay is off when turning on the main power.
		 The zero cross signal is not detected for 2 seconds even though the heater relay is on after turning on the main power or closing the front door.
		The detection error occurs twice or more in the 11 zero cross signal detections. This error is defined when the detected zero cross signal is less than 45.
		Defective fusing lamp relay
		Defective fusing lamp relay circuit
		Unstable power supply
		1. Check the power supply source.
		2. Replace the PSU

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
551	A	Heating roller thermistor error
		The temperature at the end of the heating roller measured by the heating roller thermistor does not reach 0°C for 7 seconds.
		Loose connection of pressure roller thermistor Defective heating roller thermistor
		Related SC code: SC 541
		 Check that the heating roller thermistor is firmly connected. Replace the heating roller thermistor.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	A	Heating roller warm-up error 2
		• The heating roller temperature does not reach 80°C for 20 seconds after the IH inverter on.
		The temperature at the end of the heating roller does not reach the ready temperature for 89 seconds after the IH inverter turned on.
552		Defective heating roller thermistor Defective IH inverter
		Related SC code: SC 542
		Check if the heating roller thermistor is firmly connected.
		2. Replace the IH inverter.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	A	Heating roller fusing lamp overheat 2 (software error)
553		The temperature detected by the heating roller thermistor stays at 230°C or more for 1 second.
		Defective PSU
		Defective IOB
		Defective BICU
		1. Replace the PSU.
		2. Replace the IOB.
		3. Replace the BICU.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	A	Heating roller fusing lamp overheat 2 (hardware error)
		The temperature detected by the heating roller thermistor reaches 250°C or more.
		Defective PSU
		Defective IOB
554		Defective BICU
		Defective fusing control system
		1. Replace the PSU.
		2. Replace the IOB.
		3. Replace the BICU.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
555	A	Heating roller lamp consecutive full power 2
		The heating roller-fusing lamp stays ON for 15 seconds or more while the fusing unit is in the ready condition.
		Broken heating roller fusing lamp
		Replace the heating roller fusing lamp.
		2. Replace the PSU.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	С	Zero cross frequency error
557		When the zero cross signal is 66 or more and it is detected 10 times or more in 11 detections, the machine determines that input 60 Hz and SC557 occurs.
		Noise (High frequency)Defective PSU
		Check the power supply source. Replace the PSU.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
559	A	Consecutive fusing jam
		The paper jam counter for the fusing unit reaches 3 times. The paper jam counter is cleared if the paper is fed correctly.
		This SC is activated only when SP1159-001 is set to "1" (default "0").
		Paper jam in the fusing unit.
		Remove the paper that is jammed in the fusing unit. Then make sure that the fusing unit is clean and has no obstacles in the paper feed path.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	A	Pressure roller thermistor error
		The temperature detected by the pressure roller thermistor does not reach 0 °C for 20 seconds.
		Loose connection of the pressure roller thermistor
561		Defective thermopile
		Defective pressure roller thermistor
		Check if the pressure roller thermistor is firmly connected.
		2. Replace the thermopile.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	А	Pressure roller overheat (software error)
563		The temperature detected by the pressure roller thermistor stays at 230°C or more for 1 second.
		Defective PSU
		Defective IOB
		Defective BICU
		1. Replace the PSU.
		2. Replace the IOB.
		3. Replace the BICU.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		Pressure roller overheat (hardware error)
		The temperature detected by the pressure roller thermistor detects 250°C or more.
	A	Defective PSU
		Defective IOB
564		Defective BICU
		Defective fusing control system
		1. Replace the thermistor.
		2. Replace the PSU.
		3. Replace the IOB.
		4. Replace the BICU.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	А	Pressure roller fusing lamp consecutive full power
565		When the fusing unit is not running in the ready condition, the pressure roller fusing lamp keeps ON full power for 300 seconds or more.
		Broken pressure roller fusing lamp Defective pressure roller thermistor
		Replace the pressure roller lamp.
		2. Replace the pressure roller thermistor.
		3. Replace the PSU.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	D	Pressure roller contact sensor error
		Pressure roller contact sensor does not detect the pressure roller position three times.
		Broken or defective pressure roller contact sensor
		Deformed or broken pressure roller contact sensor feeler
569		Defective pressure roller contact motor
		Defective fusing unit
		Check or replace the harness of the pressure roller contact sensor.
		2. Replace the pressure roller contact sensor.
		3. Replace the pressure roller contact motor.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
571	А	Pressure roller thermistor error: Center
		The temperature at the center of the pressure roller measured by the thermistor does not reach 0°C for 37 seconds.
		 Loose connection of the thermistor Defective thermistor
		 Check if the thermistor is firmly connected. Replace the center thermistor.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	D	IH inverter input voltage error
		The IH inverter detects 70 V or less/150 V or more for 10 seconds.
		The IH inverter detects 160 V or less/300 V or more for 10 seconds.
501		Unusual input voltage
581		Defective IH inverter
		Check if the power supply voltage of the customer site is within the proper power voltage range.
		2. Check CN981 on the IH inverter.
		3. Replace the IH inverter.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	D	IH inverter current error at power on
		The output current from the IH inverter does not reach the proper value when the IH inverter turns on.
		Disconnected power input terminal 1 and 2
		Defective IH inverter
582		Defective IH coil unit
		Defective fusing unit
		1. Check the power input terminals 1 and 2.
		2. Replace the IH inverter.
		3. Replace the IH coil unit.
		4. Replace the fusing unit.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	А	IH coil unit full power (1250W) error
		The IH coil unit full power (1250W) continues for 200 seconds or more.
		Defective IH inverter
		Defective BICU
		Defective IOB
585		Broken connection between IH inverter and IOB
303		Defective thermopile
		1. Replace the IH inverter.
		2. Replace the BICU.
		3. Replace the IOB.
		4. Check the connection between IH inverter and IOB.
		5. Replace the thermopile.

SC6xx: Device Communication

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
610	D	Mechanical counter error: K
611	D	Mechanical counter error: FC
-	-	This SC is only for NA models. The machine detects the mechanical counter error when SP5987-001 is set to "1". • Disconnected mechanical counter • Defective mechanical counter Check or replace the mechanical counter.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	D	ARDF communication error
		After the ARDF is detected, the break signal occurs or communication timeout occurs.
		Incorrect installation of ARDF
		ARDF defective
620		BICU board defective
		External noise
		Check the cable connection of the ARDF.
		2. Shut out the external noise.
		3. Replace the ARDF.
		4. Replace the BICU board.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
621	D	Finisher communication error
622	D	Paper tray unit communication error
		While the IOB communicates with an optional unit, an SC code is displayed if one of following conditions occurs.
		The IOB receives the break signal which is generated by the peripherals only just after the main switch is turned on.
	-	When the IOB does not receive an OK signal from a peripheral 100ms after sending a command to it. The IOB resends the command. The IOB does not receive an OK signal after sending the command 3 times.
		Cable problems
-		IOB problems
		BICU problems
		PSU problems in the machine
		Main board problems in the peripherals
		Check if the cables of peripherals are correctly connected.
		2. Replace the PSU if no power is supplied to peripherals.
		3. Replace the IOB or main board of peripherals.
		4. Replace the BICU.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	D	2nd Paper Bank communication error
623		This SC is not issued for this machine. When a communication error signal between the 1st paper bank and 2nd paper bank is received.
		Loose or disconnected connector
		Check the connection between the main machine and paper feed unit.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
632	CTL B	Counter device error 1
		After 3 attempts to send a data frame to the optional counter device via the serial communication line, no ACK signal was received within 100 ms.
		Serial line between the optional counter device, the relay board and copier control board is disconnected or damaged
		Make sure that SP5113 is set to enable the optional counter device.
		Check the connection between the main machine and optional counter device.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
633	CTL B	Counter device error 2
		After communication is established, the controller receives the brake signal from the accounting device.
		Serial line between the optional counter device, the relay board and copier control board is disconnected or damaged
		Make sure that SP5113 is set to enable the optional counter device.
		1. Check if the setting of the SP5113 is correctly set.
		2. Check the connection between the main machine and optional counter device.

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No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	CTL B	Counter device error 4
635		A backup battery error was returned by the counter device.
		Counter device control board defective
		Backup battery of counter device defective
		Replace the counter device.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
636	CTL	SD Card Error
		Expanded authentication module error
-01	D	There is no expanded authentication module in the machine. The SD card or the file of the expanded authentication module is broken. There is no DESS module in the machine. No expanded authentication module Defective SD card No DESS module Install the expanded authentication module. Install the SD card.
		3. Install the DESS module.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	D	Version error
-02		The version of the expanded authentication module is not correct.
		Incorrect module version
		Install the correct file of the expanded authentication module.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
641	CTL D	BICU control data transfer abnormal
		A sampling of the control data sent from the BICU reveals an abnormality.
		Controller board defective
		External noise
		BICU board defective
		1. Replace the controller board.
		2. Replace the BICU.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
650	CTL B	Communication error of the remote service modem (Embedded RCG-M)
	-	Authentication error
		The authentication for the Embedded RCG-M fails at a dial up connection.
-001		 Incorrect SP settings Disconnected telephone line Disconnected modem board
		Check and set the correct user name (SP5816-156) and password (SP5816-157).
	-	Incorrect modem setting
-004		Dial up fails due to the incorrect modem setting.
		Same as -001
		Check and set the correct AT command (SP5819-160).

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	-	Communication line error
-005		The supplied voltage is not sufficient due to the defective communication line or defective connection.
		Same as -001
		Consult with the user's local telephone company.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
651	CTL C	Incorrect dial up connection
		-001: Program parameter error
		-002: Program execution error
		An unexpected error occurs when the modem (Embedded RCG-M) tries to call the center with a dial up connection.
		Caused by a software bug
		No action required because this SC does not interfere with operation of the machine.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
669	D	EEPROM error
		Retry of EEPROM communication fails three times after the machine has detected the EEPROM error.
		Caused by noise
		Turn the main power switch off and on.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
670	CTL D	Engine start up error
		The ready signal from the engine board is not detected.
		Defective BICU.
		Replace the BICU.

	CTL D	Engine board mismatch error
		Engine board and controller mismatch detected.
671		 Wrong engine board installed. Wrong controller board installed. Check the type of engine board and controller board.
		Replace the BICU. Replace the controller board.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	CTL D	Controller-to-operation panel communication error at startup
672		After powering on the machine, the communication circuit between the controller and the operation panel is not opened, or communication with controller is interrupted after a normal startup.
		Controller stall
		Controller board installed incorrectly
		Controller board defective
		Operation panel connector loose or defective
		1. Check the harness connection.
		2. Replace the controller board.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
681	D	 RFID: Communication error Communication error occurs when the RFID starts to communicate with the RFID receptor. Retry of RFID communication fails three times after the machine has detected the RFID communication error. Defective RFID reader and writer Disconnected ASAP I/F No memory chip on the toner cartridge Noise Replace the RFID controller board.
		2. Replace the toner cartridge.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		Memory chip at TD sensor: Communication error
		Retry of memory chip communication fails three times after the machine has detected the memory chip communication error.
		Damaged memory chip data
682	D	Disconnected inter face
		No memory chip on the development unit
		Noise
		1. Replace the PCDU.
		2. Replace the BICU.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
683	В	RFID: Unit check error
		The machine gets RFID communication error even the toner cartridges have not been installed in the machine.
		Caused by noise
		Turn the main power switch off and on.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
687	D	Memory address command error
		The BICU does not receive a memory address command from the controller 120 seconds after paper is in the position for registration.
		 Loose connection Defective controller Defective BICU
		 Check if the controller is firmly connected to the BICU. Replace the controller. Replace the BICU.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		GAVD communication error
		The I2C bus device ID is not identified during initialization.
		 A device-status error occurs during I2C bus communication.
	D	The I2C bus communication is not established due to an error other than a buffer shortage.
690		Loose connection
090		Defective BICU
		Defective LD controller board
		1. Turn the main switch off and on.
		2. Check the cable connection.
		3. Replace the laser optics-housing unit.
		4. Replace the BICU board.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	В	Finisher jogger motor error
721		The jogger fences move out of the home position but the HP sensor output does not change within the specified number of pulses.
		The 1st failure issues an original jam message, and the 2nd failure issues this SC code.
		Jogger HP sensor disconnected, defective
		Jogger motor disconnected, defective
		Jogger motor overloaded due to obstruction
		Finisher main board and jogger motor
		Check the connections and cables for the components mentioned above.
		2. Check for blockages in the jogger motor mechanism.
		3. Replace the jogger HP sensor and/or jogger motor.
		4. Replace the finisher main board.
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No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	В	Stack feed-out motor error
723		The stack feed-out HP sensor does not detect the home position of the stack feed-out belt 3000ms after the stack feed-out belt has moved to its home position.
		The stack feed-out HP sensor does not turn off 200 ms after the stack feed-out belt has moved from its home position.
		The 1st detection failure causes a jam error, and the 2nd failure causes this SC code.
		Defective stack feed-out HP sensor
		Overload on the stack feed-out motor
		Defective stack feed-out motor
		Defective main board
		Disconnected or defective harness

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		 Check the connections and cables for the components mentioned above.
		2. Check for blockages in the stack feed-out motor mechanism.
		3. Replace the stack feed-out HP sensor and/or stack feed-out motor.
		4. Replace the finisher main board.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	В	Finisher exit guide plate motor error
		After moving away from the guide plate position sensor, the exit guide is not detected at the home position within the prescribed time. The 1st detection failure issues a jam error, and the 2nd failure issues this SC code.
		Guide plate motor disconnected, defective
725		Guide plate motor overloaded due to obstruction
		Guide plate position sensor disconnected, defective
		Check the connections and cables for the components mentioned above.
		Check for blockages in the guide plate motor mechanism.
		3. Replace the guide plate position sensor and/or guide plate motor
		4. Replace the finisher main board.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	В	Finisher Tray 1 shift motor error
730		The shift roller HP sensor of the upper tray does not activate within the prescribed time after the shift tray starts to move toward or away from the home position. The 1st detection failure issues a jam error, and the 2nd failure issues this SC code.
		 Shift tray HP sensor of the upper tray disconnected, defective Shift tray motor of the upper tray is disconnected, defective Shift tray motor of the upper tray overloaded due to obstruction
		 Check the connections and cables for the components mentioned above. Check for blockages in shift motor mechanism. Replace the shift tray HP sensor and/or shift motor Replace the finisher main board.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		Finisher corner stapler motor error
		The 1st detection failure issues a jam error, and the 2nd failure issues this SC code. For 1000-sheet (booklet) finisher
		The stapler motor does not switch off within the prescribed time after operating.
740	В	The HP sensor of the staple unit does not detect the home position after the staple unit moves to its home position.
		The HP sensor of the staple unit detects the home position after the staple unit moves from its home position.
		Staple jam
		Motor overload
		Defective stapler motor
		Check the connections and cables for the components mentioned above.
		2. Replace the HP sensor and/or stapler motor
		3. Replace the finisher main board.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	В	Finisher stapler movement motor error
742		For 1000-sheet (booklet) finisher The stapler HP sensor is not activated within the specified time after the stapler motor turned on. (first detection: jam error, consecutive twice detection SC code).
		 Motor overload Loose connection of the stapler home position sensor Loose connection of the stapler movement motor Defective stapler home position sensor Defective stapler movement motor
		 Check the connection of the stapler movement motor. Check the connection of the stapler home position sensor. Replace the stapler home position sensor. Replace the stapler movement motor.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
746	В	 1000-sheet booklet finisher: Stack feed motor error The stack feed HP sensor does not detect "ON" twice (once: jam error) for specified time after the stack feed motor has turned on. The stack feed HP sensor does not detect "OFF" twice (once: jam error) for specified time after the stack feed motor has turned on. Motor overload Loose connection of the stack feed motor Defective stack feed motor 1. Check the connections and cables for the stack feed motor and HP sensor. 2. Check for blockages in the stack feed motor mechanism. 3. Replace the stack feed HP sensor and/or stack feed motor 4. Replace the finisher main board.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
750	В	1000-sheet (booklet) finisher: Tray lift motor error
		Motor overload
		Loose connection of the shift tray motor
		Defective shift tray motor
		Check the connections to the shift tray motor.
		2. Replace the shift tray motor.

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No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
761	В	Finisher folder plate motor error
		The folder plate moves but is not detected at the home position within the specified time. The 1st detection failure issues a jam error, and the 2nd failure issues this SC code.
		 Folder plate HP sensor disconnected, defective Folder plate motor disconnected, defective Folder plate motor overloaded due to obstruction.
		 Check the connections and cables for the folder plate motor and HP sensor. Check for blockages in the folder plate motor mechanism. Replace the folder plate HP sensor and/or folder plate motor Replace the finisher main board.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
763	В	Punch movement motor error
		The punch unit moves but is not detected at the home position within the specified time. The 1st detection failure issues a jam error, and the 2nd failure issues this SC code.
		Motor harness disconnected, loose, defective Defective motor
		Check the connections to the punch movement motor. Defective punch movement motor

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
764	В	Paper position sensor slide motor error
		The paper position sensor moves but is not detected at the home position within the specified time. The 1st detection failure issues a jam error, and the 2nd failure issues this SC code.
		Motor harness disconnected, loose, defective Defective motor
		Check the connections to the paper position sensor slide motor.
		2. Defective paper position sensor slide motor.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
765	В	Paper position sensor slide motor error
		The paper position sensor moves but is not detected at the home position within the specified time. The 1st detection failure issues a jam error, and the 2nd failure issues this SC code.
		Motor harness disconnected, loose, defective Defective motor
		 Check the connections to the paper position sensor slide motor. Defective paper position sensor slide motor.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
766	В	Paper position sensor slide motor error
		The paper position sensor moves but is not detected at the home position within the specified time. The 1st detection failure issues a jam error, and the 2nd failure issues this SC code.
		Motor harness disconnected, loose, defective Defective motor
		Check the connections to the paper position sensor slide motor. Defective paper position sensor slide motor.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
770	В	Shift motor error
		The shift motor HP sensor does not detect any change for 1.86 seconds after the shift motor has turned on at power on or during its operation.
		Defective shift motor Defective shift motor HP sensor
		 Check the connections to the shift motor and the shift motor HP sensor. Defective shift motor or the shift motor HP sensor.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
791	D	Bridge unit error
		The machine recognizes the finisher, but does not recognize the bridge unit.
		Defective connector Broken harness
		Check the connections between the bridge unit and the machine. Install a new bridge unit.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	В	Finisher error
		The machine does not recognize the finisher, but recognizes the bridge unit.
		Defective connector
792		Defective harness
		Incorrect installation
		Check the connections between the finisher and the machine.
		2. Install a new finisher.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
798 -1	В	Upper limit switch error (D372)
		The upper limit switch of the 500-sheet finisher (D372) is pushed due to tray lift error or some problems.
		Upper limit switch pulled up Defective upper limit swtich
		Check the harness. 1. Check for blockage around the upper limit switch. 2. Replace the upper limit switch.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
798 -02	В	Finisher jogger motor error (D372)	
		The jogger fences of the 500-sheet finisher (D372) move out of the home position but the HP sensor output does not change within the specified number of pulses. The 1st failure issues an original jam message, and the 2nd failure issues this SC code.	
		 Jogger HP sensor disconnected, defective Jogger motor disconnected, defective Jogger motor overloaded due to obstruction Finisher main board and jogger motor 	
		 Check or replace the harness. Check for blockages in the jogger motor mechanism. Replace the jogger HP sensor. Replace the jogger motor. Replace the finisher main board. 	

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
		Rear fence motor error (D372)	
		The rear jogger fence motor of the 500-sheet finisher (D372) is not operating.	
798 -03	В	 Rear jogger motor drive is obstructed (jammed paper, paper scraps, etc.) The rear jogger fence motor harness loose or broken Rear jogger fence HP sensor dirty, loose, defective Rear jogger fence motor defective Check or replace the harness. Check for blockages in the rear jogger motor drive mechanism. Replace the rear jogger fence HP sensor. Replace the rear jogger fence motor. 	

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
		Stack feed-out motor error	
		The stack feed-out HP sensor does not detect the home position of the stack feed-out belt for a certain time after the stack feed-out belt has moved to its home position. The stack feed-out HP sensor does not turn off for a certain time after the stack feed-	
		out belt has moved from its home position.	
	В	The 1st detection failure causes a jam error, and the 2nd failure causes this SC code.	
		Defective stack feed-out HP sensor	
798		Overload on the stack feed-out motor	
-04		Defective stack feed-out motor	
		Defective main board	
		Disconnected or defective harness	
		1. Check or replace the harness.	
		Check for blockages in the stack feed-out mechanism.	
		3. Replace the stack feed-out HP sensor.	
		4. Replace the stack feed-out motor.	
		5. Replace the main board.	

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
	В	Positioning roller arm motor error	
		The positioning roller HP sensor does not turn on or off for a certain time at power- on.	
		The positioning roller HP sensor does not turn on or off for a certain time when the positioning roller returns to its home position from the lower position.	
		The 1st detection failure causes a jam error, and the 2nd failure causes this SC code.	
798		Disconnected or defective harness	
-05		Overload on the positioning roller arm motor	
		Defective positioning roller arm motor	
		Defective positioning roller HP sensor	
		1. Check or replace the harness.	
		Check for blockages in the positioning roller arm mechanism.	
		3. Replace the positioning roller arm motor.	
		4. Replace the positioning roller HP sensor.	

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
	В	Finisher corner stapler motor error	
		The 1st detection failure issues a jam error, and the 2nd failure issues this SC code. For 500-sheet finisher	
		The stapler HP sensor does not detect "ON"/"OFF" signal even the stapler moves from the "OFF"/"ON" position for 0.6 seconds.	
798		The stapler HP sensor does not detect "ON" when a stapling job is commanded or the stapler moves.	
-06		Staple jam	
		Motor overload	
		Defective stapler motor	
		Check the connections and cables for the components mentioned above.	
		2. Replace the HP sensor and/or stapler motor	
		3. Replace the finisher main board.	

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
		Finisher stapler movement motor error	
798 -07	В	 For 500-sheet finisher The stapler HP sensor does not detect "OFF" signal even the stapler moves from the "ON" position for 0.35 seconds. The stapler HP sensor does not detect "ON" signal even the stapler moves from the "OFF" position for 5.5 seconds. Motor overload Loose connection of the stapler home position sensor Loose connection of the stapler movement motor Defective stapler home position sensor Defective stapler movement motor 1. Check the connection of the stapler movement motor. 2. Check the connection of the stapler home position sensor. 3. Replace the stapler home position sensor. 4. Replace the stapler movement motor. 	

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		500-sheet finisher: Tray lift motor error
798 -08	В	Motor overload Loose connection of the shift tray motor Defective shift tray motor 1. Check the connections to the tray lift motor. 2. Replace the tray lift motor.

No.	Type Details (Symptom, Possible Cause, Troubleshooting Procedures)	
	CTL D	Energy saving I/O sub-system error
816		The energy saving I/O sub-system detects an error.
		Controller board defective
		Replace the controller board.

No.	Туре	Details (Symptom, Possible Cause	r, Troubleshooting Procedures)
	CTL C	Fatal kernel error	
819		Due to a control error, a RAM overflow oc of the following messages was displayed o	
[0x5032	2]	HAIC-P2 error	System program defective
[0x5245	5]	vm_pageout: VM is full	Controller board defective
[0x5355]		L2 status time out	Optional board defective
[554C]		USB error	Replace controller firmware

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
820	CTL D	Self-diagnostics error: CPU [XXXX]: Detailed error code
[0612]		Cut-in in ASIC occurs.
		Defective ASIC Defective devices in which ASIC detects cut-in.
		Replace the controller board.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)			
833 CTL		Self-diagnostic error 8: Engine I/F ASIC			
[OF30]		ASIC (Mandolin) for system control could not be detected. After the PCI configuration, the device ID for the ASIC could not be checked.			
[OF31]		Replace the BICU.			
[OF41]		 ASIC (Mandolin) for system control could not be detected. After the PCI configuration, the device ID for the ASIC could not be checked. 			
		Replace the BICU			
		Could not initialize or read the bus connection.			
[50B1]		Check for loose connections at the mother board.			
		Replace the mother board			
		Value of the SSCG register is incorrect.			
[50B2]		Check for loose connections at the mother board.			
		Replace the mother board			

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
851	CTL B	IEEE1394 interface error
		The 1394 interface is unusable.
		Defective IEEE1394 Defective controller.
		1. Turn the main switch off and on.
		2. Replace the IEEE1394 interface board.
		3. Replace the controller.

	No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	853	CTL B	Wireless LAN card not detected
			The wireless LAN card is not detected before communication is established, though the wireless LAN board is detected.
			Loose connection
			Check the connection.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
854	CTL B	Wireless LAN/Bluetooth card not detected
		The wireless LAN/Bluetooth card is not detected after communication is established, but the wireless LAN board is detected.
		Loose connection
		Check the connection.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		Wireless LAN/Bluetooth card error
		An error is detected in the wireless LAN/Bluetooth card.
855	CTL	Loose connection
856	В	Defective wireless LAN/Bluetooth card
		1. Check the connection.
		2. Replace the wireless LAN/Bluetooth card.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	CTL B	USB interface error
857		The USB interface cannot be used due to a driver error.
		Defective USB driver Loose connection
		Check the connection. Replace the controller board.

No.	Туре		Details (Symptom, Possible Cause, Troubleshooting Procedures)	
	CTL C	HDD E	ncryption unit error 1	
858		A serious error occurs when data is encrypted to update an encryption key with the HDD encryption unit.		
		[0]	Encryption key acquisition error: The controller fails to get a new encryption key.	
			Defective controller board Replace the controller board.	
		[1]	Encryption key setting for HDD error: The controller fails to copy a new encryption key to the HDD.	
		[1]	Defective SATA chip on the controller board Replace the controller board.	

No.	Туре		Details (Symptom, Possible Cause, Troubleshooting Procedures)		
		[2]	NVRAM data encryption error 1: An error occurs while the NVRAM data is encrypted.		
			Defective NVRAM on the controller board Replace the NVRAM.		
		[0.0]	NVRAM data encryption error 2: An error occurs before the NVRAM data is encrypted.		
		[30]	Defective controller board Replace the controller board.		
		[31]	Other error: A serious error occurs while the data is encrypted. • Same as SC991		

No.	Туре		Details (Symptom, Possible Cause, Troubleshooting Procedures)			
	CTL C	HDD Encryption unit error 2				
			us error occurs when the HDD data is encrypted to update an encryption key e HDD encryption unit.			
		[8]	HDD check error: The HDD is not correctly installed.			
			No HDD installed Unformatted HDD			
			The encryption key on the controller is different from the one on the HDD			
859			Install the HDD correctly. Initialize the HDD.			
		[9]	Power failure during the data encryption: The data encryption (NVRAM and HDD) has not been completed.			
			Power failure during the data encryption Initialize the HDD.			
		[10]	Data read/write error: The DMAC error is detected twice or more.			
			Same as SC863			

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
	CTL B	HDD: Initialization error	
860		The controller detects that the hard disk fails.	
		HDD not initialized Defective HDD	
		 Reformat the HDD. Replace the HDD. 	

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
		HDD: Read error	
	CTL D	The data stored in the HDD cannot be read correctly.	
863		Defective HDD Defective controller	
		Replace the HDD. Replace the controller.	

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)	
	CTL D	HDD: CRC error	
864		While reading data from the HDD or storing data in the HDD, data transmission fails.	
		Defective HDD	
		Replace the HDD.	

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
865	CTL D	HDD: Access error
		An error is detected while operating the HDD.
		Defective HDD
		Replace the HDD.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	CTL B	SD card authentication error
866		A correct license is not found in the SD card.
		SD-card data is corrupted.
		Store correct data in the SD card.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	CTL D	SD card error
867		The SD card is ejected from the slot.
007		1. Install the SD card.
		2. Turn the main switch off and on.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
868	CTL D	SD card access error • -13 to -3: File system error • Other number: Device error An error report is sent from the SD card reader. • An error is detected in the SD card. 1. For a file system error, format the SD card on your PC. 2. For a device error, turn the mains switch off and on. 3. Replace the SD card. 4. Replace the controller.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		Address book error
		An error is detected in the data copied to the address book over a network.
870	CTL B	 Defective software program Defective HDD Incorrect path to the server 1. Initialize the address book data (SP5-846-050). 2. Initialize the user information (SP5-832-006). 3. Replace the HDD.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	CTL B	HDD mail data error
		An error is detected in the HDD at machine initialization.
		Defective HDD
872		Power failure during an access to the HDD
		1. Turn the main switch off and on.
		2. Initialize the HDD partition (SP5-832-007).
		3. Replace the HDD.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		HDD mail transfer error
		An error is detected in the HDD at machine initialization.
873	CTL B	Defective HDD
		Power failure during an access to the HDD
		1. Initialize the HDD partition (SP5-832-008).
		2. Replace the HDD.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	CTL D	Delete All error 1: HDD
874		An error is detected while all of the HDD or NVRAM are formatted physically by the Data Overwrite Security Unit (D377).
		 Data Overwrite Security Unit (SD card) not installed Defective HDD
		Install the Data Overwrite Security Unit (D377). Replace the HDD.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	CTL D	Delete All error 2: Data area
875		An error is detected while all of the HDD or NVRAM are formatted logically by the Data Overwrite Security Unit (D377).
		The logical format for the HDD fails.
		Turn the main switch off/on and try the operation again

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	CTL D	Log Data Error
876		An error was detected in the handling of the log data at power on or during machine operation. This can be caused by switching the machine off while it is operating.
		Log Data Error 1
	-001	Damaged log data file in the HDD
		Initialize the HDD with SP5832-004.
	-002	Log Data Error 2
		An encryption module not installed
		 Disable the log encryption setting with SP9730-004 ("0" is off.) Install the DESS module.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		Log Data Error 3
	-003	Invalid log encryption key due to defective NVRAM data
	-003	1. Initialize the HDD with SP5832-004.
		2. Disable the log encryption setting with SP9730-004 ("0" is off.)
		Log Data Error 4
	-004	Unusual log encryption function due to defective NVRAM data
		Initialize the HDD with SP5832-004.
		Log Data Error 5
	-005	Installed NVRAM or HDD which is used in another machine
	000	1. Reinstall the previous NVRAM or HDD.
		2. Initialize the HDD with SP5832-004.
	-099	Log Data Error 99
		Other than the above causes
		Ask your supervisor.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	CTL D	HDD Data Overwrite Security SD card error
877		The 'all delete' function cannot be executed but the Data Overwrite Security Unit (D377) is installed and activated.
		Defective SD card (D377)SD card (D377) not installed
		 Replace the NVRAM and then install the new SD card (D377). Check and reinstall the SD card (D377).

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	CTL D	TPM system authentication error
878		The system firmware is not authenticated by TPM (security chip).
		Incorrect updating for the system firmware
		Defective flash ROM on the controller board
		Replace the controller board.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	CTL D	File format converter error
880		The file format converter does not respond.
		Defective file format converter
		Replace the file format converter.

SC9xx: Miscellaneous

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	CTL D	Electric counter error
		Abnormal data in the counters.
900		Defective NVRAM
		Defective controller
		Check the connection between the NVRAM and controller.
		2. Replace the NVRAM.
		3. Replace the controller.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
910		External Controller Error 1
911		External Controller Error 2
912	CTL D	External Controller Error 3
913		External Controller Error 4
914		External Controller Error 5
-	-	The external controller alerted the machine about an error.
-	-	Please refer to the instructions for the external controller (application).

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
919	CTL D	External Controller Error 6
		While EAC (External Application Converter), the conversion module, was operating normally, the receipt of a power line interrupt signal from the FLUTE serial driver was detected, or BREAK signal from the other station was detected.
		Power outage at the EFI controller
		EFI controller was rebooted
		Connection to EFI controller loose

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	CTL D	Printer application error
		An error is detected in the printer application program.
000		Defective software
920		Unexpected hardware resource (e.g., memory shortage)
		Software defective; switch off/on, or change the controller firmware if the problem is not solved
		2. Insufficient memory

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	CTL D	Printer font error
921		A necessary font is not found in the SD card.
		 A necessary font is not found in the SD card. The SD card data is corrupted.
		· ·
		Check that the SD card has the correct data.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	CTL D	Software performance error
		The software makes an unexpected operation.
		Defective software
		Defective controller
990		Software error
		1. Turn the main switch off and on.
		2. Reinstall the controller and/or engine main firmware.
		Note
		See Note 1 at the end of the SC table.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	CTL C	Software continuity error
991		The software has attempted to perform an unexpected operation. However, unlike SC 990, the object of the error is continuity of the software.
		Software program error Internal parameter incorrect, insufficient working memory.
		This SC is not displayed on the LCD (logging only).

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
	CTL C	Operation panel management records exceeded
994		An error occurred because the number of records exceeded the limit for images managed in the service layer of the firmware. This can occur if there if there are too many application screens open on the operation panel.
		No action required because this SC does not interfere with operation of the machine.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
995	D	CPM setting error
		Defective BICU NVRAM Replacement error
	-001	 Install the previous NVRAM. Input the serial number with SP5811-004, and turn the main power switch off/on.
		Defective NVRAM Defective controller
	-002	 Update the controller firmware. Install a new NVRAM, and turn off and on the main power switch after SC995-002 has occurred.
	-003	Incorrect type controller installed Defective controller
		1. Replace the controller with the correct type.
	-004	Incorrect model controller installed.
		1. Replace the controller with the correct model.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
997	CTL B	Application function selection error The application selected by the operation panel key does not start or ends abnormally. Software (including the software configuration) defective
		 An option required by the application (RAM, DIMM, board) is not installed Nesting of the fax group addresses is too complicated
		Check the devices necessary for the application program. If necessary devices have not been installed, install them.
		2. Check that application programs are correctly configured.
		3. For a fax operation problem, simplify the nesting of the fax group addresses.
		Take necessary countermeasures specific to the application program. If the logs can be displayed on the operation panel, see the logs.

No.	Туре	Details (Symptom, Possible Cause, Troubleshooting Procedures)
		Application start error
		No applications start within 60 seconds after the power is turned on.
		Loose connection of RAM-DIMM, ROM-DIMM
		Defective controller
998	CTL	Software problem
	D	1. Check the setting of SP5875-001. If the setting is set to "1 (OFF)", change it to "0 (OFF)".
		2. Check if the RAM-DIMM and ROM-DIMM are correctly connected.
		3. Reinstall the controller system firmware.
		4. Replace the controller.

Note 1

If a problem always occurs in a specific condition (for example. printer driver setting, image file), the problem may be caused by a software error. In this case, the following data and information needs to be sent back to your product specialist. Please understand that it may take some time to get a reply on how to solve the problem, because in some cases the design staff in Japan must analyze the data.

- Symptom / Possible Causes / Action taken
- Summary sheet (SP mode "Printer SP", SP1-004 [Print Summary])

- SMC All (SP5-990-001)
- SMC Logging (SP5-990-004)
- Printer driver settings used when the problem occurs
- All data displayed on the screen (SC code, error code, and program address where the problem is logged.)
- Image file which causes the problem, if possible

Process Control Error Conditions

Developer Initialization Result

SP-3-014-001 (Developer Initialization Result)

No.	Result	Description	Possible Causes/Action
1	Successfully completed	Developer initialization is successfully completed.	-
2	Forced termination	Developer initialization was forcibly terminated.	 A cover was opened or the main switch was turned off during the initialization. Do the developer initialization again when done in SP mode. Reinstall the engine main firmware if the result is the same. Turn the main switch off and on when done at unit replacement.
6	Vt error	Vt is more than 0.7V when Vcnt is 4.3V.	Make sure that the heat seal on the development unit is not removed. Defective TD sensor
7	Vcnt error 1	Vcnt is less than 4.7V when Vcnt is Vt target ±0.2V.	Defective TD sensor Vt target settings are not correct. Toner density error
8	Vcnt error 2	Vt is more than 0.7V when Vcnt is 4.3V and Vcnt is less than 4.7V when Vcnt is Vt target ±0.2V.	 Make sure that the heat seal on the development unit is not removed. Defective TD sensor
9	Vcnt error 3	Vcnt is less than 4.7V.	 Make sure that the heat seal on the development unit is not removed Defective TD sensor Vt target settings are not correct. Toner density error



■ Note

• 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 Self-check Result)

No.	Result	Description	Possible Causes/Action
11	Successfully completed	Process control self-check successfully completed.	Check the Vsg adjustment. See the "Vsg Adjustment Result" following this table.
41	Vt error	Vt maximum or minimum error is detected.	Defective development unit Vt maximum error and an image is faint: 1. Replace the toner supply pump unit. Vt maximum error and an image is O.K: 1. Replace the development unit. 2. Replace the IOB board. Vt minimum error: 1. Replace the development unit. 2. Replace the IOB board.
53	ID sensor coefficient (K5) detection error	Not enough data can be sampled.	 Solid image is not sufficient density: Retry the process control. Replace the ID sensors. Replace the IOB board. Solid image is O.K. Replace the ID sensors. Replace the IOB board. ID sensor is dirty: Clean the ID sensors. Retry the process control.

No.	Result	Description	Possible Causes/Action
54	ID sensor coefficient (K5) maximum/ minimum error	When the K5 is more than the value of SP3-362-003 or less than the value of SP3-362-004, the error 54 is displayed.	 ID sensor pattern density is too high or low. ID sensor or shutter is defective. Same as 53
55	Gamma error: Maximum	Gamma is out of range. 5.0 < Gamma	 ID sensor pattern density is too high. Hardware defective. Same as 53
56	Gamma error: Minimum	Gamma is out of range. Gamma < 0.15	 ID sensor pattern density is too low. Hardware defective. Same as 53 Replace the toner supply pump unit.
57	Vk error: Maximum	Vk is out of range. 150 < Vk	 ID sensor pattern density is too low. Hardware defective. Same as 53
58	Vk error: Minimum	Vk is out of range. Vk < -150	 ID sensor pattern density is too high. Background dirty Hardware defective Same as 53
59	Sampling data error during gamma correction	Not enough data can be sampled during the gamma correction.	 ID sensor pattern density is too high or low. Hardware defective Same as 53
99	Unexpected error	Process control fails.	Power Failure Check the power source.

Vsg Adjustment Result

SP3-325-001 to -010 (Vsg Adjustment Result)

No.	Result	Description	Possible Causes/Action
1	O.K	Vsg adjustment is correctly done.	-
2	ID sensor adjustment error	Vsg cannot be adjusted within 4.0 ±0.5V.	 Dirty ID sensor (toner, dust, or foreign material) Dirty transfer belt Scratched image transfer belt Defective ID sensor Poor connection Defective IOB Clean the ID sensor. Check the belt cleaning. Clean or replace the transfer belt. Replace the image transfer belt. Replace the ID sensor. Check the connection. Replace the IOB board.
3	ID sensor output error	ID sensor output is more than "Voffset Threshold" (SP3-32 4-004)	 Defective ID sensor Poor connection Defective IOB Replace the ID sensor. Check the connection. Replace the IOB board.
9	Vsg Adjustment error	Vsg adjustment has not been completed.	Other cases Retry 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).

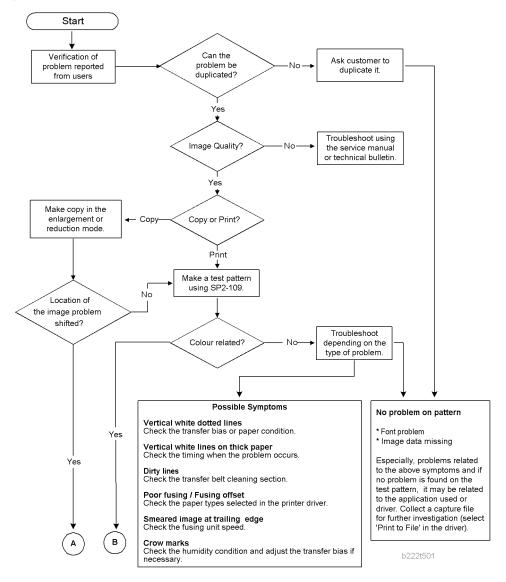
No.	Result	Description	Note
0	Not done	Line position adjustment has not been done.	-
1	Completed successfully	Line position adjustment has correctly been done,	-
2	Cannot detect patterns	ID sensors have not detected the patterns for line position adjustment.	See Note
3	Fewer lines on the pattern than the target	The patterns, which ID sensors have detected, are not enough for line position adjustment.	See Note
4	More lines on the pattern than the target	Not used in this machine.	-
5	Out of the adjustment range	ID sensors have correctly detected the patterns for line position adjustment, but a shift of patterns is out of adjustable range.	See Note
6-9	Not used	-	-

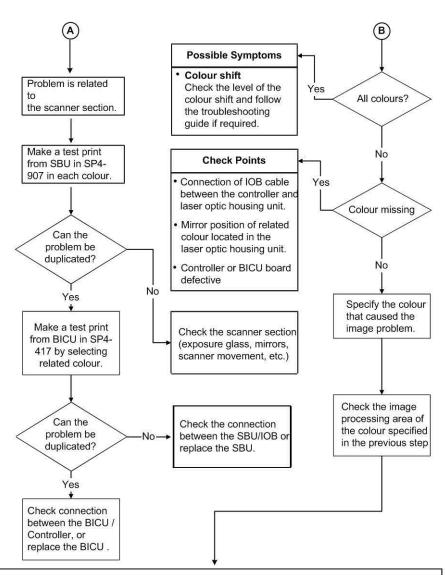


• For details, see the "Troubleshooting Guide - Line Position Adjustment" section.

Image Quality

The following work-flow shows the basic troubleshooting steps for the image quality problems on this product.





Considerable Symptoms

Toner blasting

Check which colour is blasting and adjust the toner limit or transfer bias.

Image density change

Check when the problem is reported and follow the necessary steps.

Dirty Background

Check in which condition the problem is reported, and follow the required procedure.

Colour vertical bands/lines/dirty background

Check the OPC drum and/or development unit.

· Colour shift

Check the level of the colour shift and follow the troubleshooting guide if required.

Colour lines/bands/dirty background

When the PCU/development unit is close to its life end, the developer or the cleaning blade of the PCU wears out, causing vertical colour lines, bands, or dirty background. Check the related colour unit and replace it if necessary.

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Line Position Adjustment

When there are color registration errors on the output, do the line position adjustment as follows.



• Use A3/DLT size paper for this adjustment.

Test

- 1. Do SP2-111-003 (Mode c: rough adjustment).
- 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 A3/DLT paper on the by-pass tray.



- When you print a test pattern, use the by-pass 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 density	 Defective laser optics housing unit shutter Defective image processing unit Low density of test pattern Defective BICU Replace the shutter motor. Replace the high voltage power supply unit. Do the forced process control (SP3-011-001) or supply some toner (SP3-015-xxx). Replace the BICU.
Normal image, but with color registration errors	 Defective ID sensor shutter Defective ID sensor Defective BICU Replace the ID sensor shutter solenoid. Replace the ID sensor. Replace the BICU.

• Result: "1" in SP2-194-007

• One of results: "5" (Out of adjustable range) in SP2-194-010, -011, -012.

Test pattern check	Possible cause/Countermeasure
The main scan registrations of M, C, Y are shifted by more than ±15 mm from the main scan registration of K.	 Defective laser optics housing unit Defective BICU Replace the laser optics housing unit. Replace the BICU.
The sub scan registrations of M, C, Y are shifted by more than ±20 mm from the sub scan registration of K.	 Defective image transfer belt Defective drive units Defective BICU Replace the image transfer belt. Replace the drum motor. Replace the BICU.

Test pattern check	Possible cause/Countermeasure
The main scan registration is shifted by more than ±0.66 mm, but only at the central area of the image on the output.	 Defective ID sensor at center Deformed center area on the image transfer belt Defective BICU Replace the ID sensor. Replace the image transfer belt. Replace the BICU.
The skew for M, C, Y is more than ±0.75 mm from the main scan registration of K	 Defective PCDU Defective laser optics housing unit Defective BICU Reinstall or replace the PCDU. Replace the laser optics housing unit. Replace the BICU.
Others	 Skew correction upper limit error Defective BICU Defective laser optics housing unit Replace the BICU. Replace the laser optics housing unit.

• Result: "1" in SP2-194-007

• Result: "0" in SP2-194-010, -011, -012.

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

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.
	Do the forced process control (SP3-011-001) or supply some toner (SP3-015-xxx).
	4. Replace the BICU.
Normal image, but with color	Defective ID sensor shutter
registration errors	Defective ID sensor
	Defective BICU
	1. Replace the ID sensor shutter solenoid.
	2. Replace the ID sensor.
	3. Replace the BICU.

- 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 (SP3-015-xxx).
The main scan registrations of M, C, Y are shifted by more than ±1.4 mm from the main scan registration of K.	 No defective component Defective laser optics housing unit Defective BICU Do SP2-111-003 again. Replace the laser optics housing unit. Replace the BICU.

Test pattern check	Possible cause/Countermeasure
The sub scan registrations of M, C, Y are shifted by more than ±1.4mm from the sub scan registration of K.	 No defective component Defective image transfer belt Defective drive units 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 ±0.66 mm, but only at the central area of the image on the output.	 Defective ID sensor at center Deformed center area on the image transfer belt Defective BICU Replace the ID sensor. Replace the image transfer belt. Replace the BICU.
The skew for M, C, Y is more than ± 0.75 mm from the main scan registration of K. – at the end of the scan line?	 Defective PCDU Defective laser optics housing unit Defective BICU Reinstall or replace the PCDU. Replace the laser optics housing unit. Replace the BICU.
Others	 Skew correction upper limit error Defective BICU Defective laser optics housing unit Replace the BICU. Replace the laser optics housing unit.

- Result: "0" in SP2-194-007
- Result: No color registration errors in SP2-194-010, -011, -012

Test pattern check	Possible cause/Countermeasure
The main scan registration of K is shifted.	 Abnormal SP setting value of main scan: K Adjust the value with SP2-101-001.
The main scan length of K is shifted.	Abnormal SP setting value of main scan length detection: K Adjust the value with SP2-185-001.

- Result: "0" in SP2-194-007
- Result: Color registration errors in SP2-194-010, -011, -012

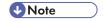
Test pattern check	Possible cause/Countermeasure
Low image density on the output	• Low pattern density Do the forced process control (SP3-011-001) or supply some toner (SP3-015-xxx).
The main scan registration is shifted, but only at the central area of the image on the output.	 Defective ID sensor at center Deformed center area on the image transfer belt Defective BICU Replace the ID sensor. Replace the image transfer belt. Replace the BICU.
The main scan registrations of M, C, Y are shifted.	 Defective laser optics housing unit Defective ID sensor Defective BICU Incorrect SP value Replace the laser optics housing unit. Replace the ID sensor. Replace the BICU. Adjust the value with SP2-182-004 to -021.

Test pattern check	Possible cause/Countermeasure
The sub scan registrations of M, C, Y	Defective image transfer belt
are shifted.	Defective drive units
	Defective ID sensor
	Defective BICU
	Incorrect SP value
	 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 is different.	Defective PCDU
	Defective laser optics housing unit
	Defective IOB
	1. Reinstall or replace the PCDU.
	2. Replace the laser optics housing unit.
	3. Replace the IOB.
The sub scan lines are shifted. Shifted	Defective PCDU
lines appear cyclically.	Defective drive unit
	Drum phase adjustment error
	 Do SP1-902-001 (Drum phase adjustment); see Replacement and Adjustment – Drive Unit – Gear Unit for details.
	2. Reinstall or replace the PCDU.
	3. Check or replace the drive unit.

Stain on the Outputs

If a stain appears at the edge of the output, do the following procedure.

1. Execute the fusing cleaning mode with SP1123-002.

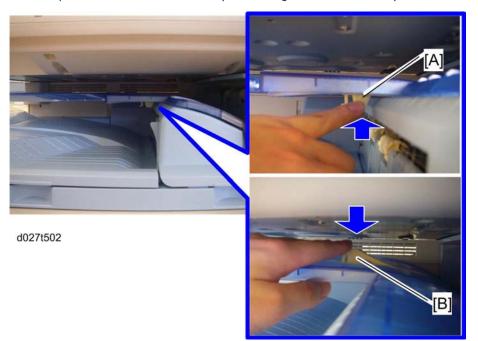


• It takes 160 seconds to complete the fusing cleaning mode.

2. Make a sample copy, and then check if a stain appears on the output.

Stack Problem in the 1-Bin Tray

If a stack problem occurs on the 1-bin tray, raise the guide on the 1-bin tray.



If a stack problem occurs;

• Push the guide to lift the guide [A].

If another type or size of paper is used;

• Press down the guide [B].

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

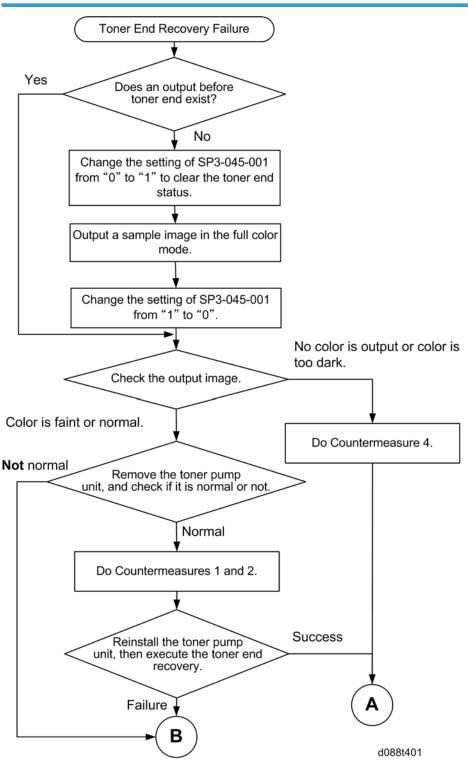
- Colored spots at 47-mm intervals: Development roller
- Abnormal image at 51-mm intervals: ITB drive or bias roller
- Abnormal image at 85-mm intervals: Paper transfer roller
- Colored spots at 119-mm intervals: Drum
- Abnormal image at 101-mm intervals: Fusing unit (Pressure roller)
- Abnormal image at 107-mm intervals: Fusing unit (Heating roller)

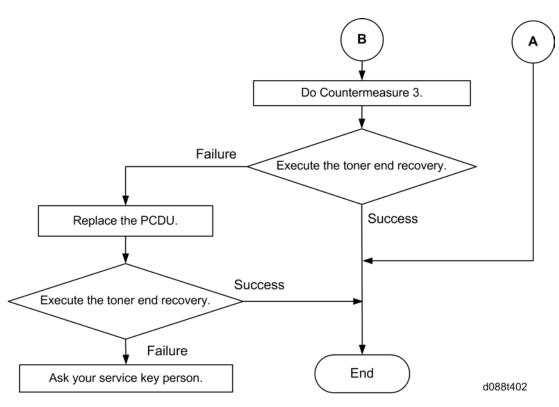
Toner End Recovery Error

If the toner end message on the LCD is displayed in the following conditions, there are some possible causes. Check the machine referring to the flow chart for the toner end recovery error.

- After a new toner bottle has been installed in the machine
- When a displayed color toner bottle still has toner inside

Flow Chart for the Toner End Recovery Error





Countermeasure 1

- 1. Check if the toner supply tube is bent or disconnected.
- 1. Straighten the toner supply tube or connect it correctly.

Countermeasure 2

- 1. Remove the target color toner bottle.
- 1. Disconnect the toner supply tube from the toner pump unit.
- 2. Remove the blocked toner in the toner supply tube with a vacuum cleaner.

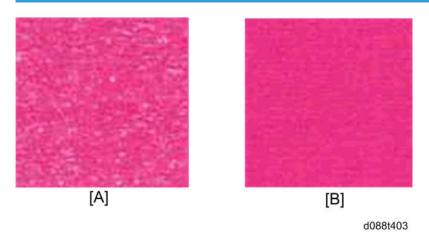
Countermeasure 3

• Replace the toner pump unit (pr p.214).

Countermeasure 4

• Replace the PCDU (** p.205).

Solid Image or Halftone Image Error



The toner density of a solid image or halftone image may not be uniform ([A]: problem output, [B]: normal output) if a large amount of sheets is printed at low coverage. If this occurs, follow the countermeasure below.

Recovery Procedure

- 1. Enter the SP mode.
- 1. Set SP3-044-xxx (Toner Supply Type) to "1: PID (Vref Fixed)".
 - Chose a target color SP number from -001 (Bk), -002 (Magenta), -003 (Cyan), and -004 (Yellow).
- 2. Set SP3-222-xxx (Vtref: Display/Set) to "4V".
 - Chose a target color SP number from -001 (Bk), -002 (Magenta), -003 (Cyan), and -004 (Yellow).
- 3. Set SP2-109-003 (Test Pattern; Pattern Selection) to "23: Full Dot Pattern".
- 4. Set SP2-109-005 (Test Pattern; Color Selection) to "1: All Color (black)", "2: Magenta", "3: Cyan", or "4: Yellow".
 - Chose a target color selection number.
- 5. Press "Copy Window" on the LCD.
- Copy 20 sheets for A4 size or 30 sheets for A3 size, and then check the setting of SP3-222-xxx (Vtref: Display/Set).
 - If the setting of this SP is more than 4V, go to next step. If not, copy again until the setting of this SP is more than 4V.
- 7. Return the setting of SP3-044-xxx (Toner Supply Type) to "4: MBD (Vref_Control)".
 - Return the setting of the SP which you have changed in step 2 before.

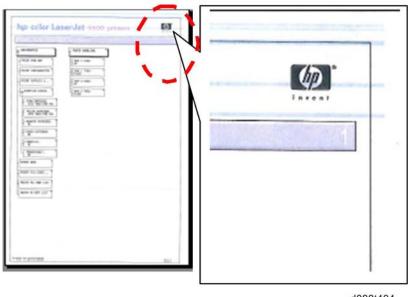
- 8. Execute SP3-015-xxx (Forced Toner Supply: Execute) twice.
 - Chose a target color SP number from -003 (Bk), -004 (Magenta), -005 (Cyan) and -006 (Yellow).
- 9. Execute the SP3-011-002 (Process Cont. Manual Execution; Density Adjustment).

Problem Prevention Procedure

• Set the setting of SP3-516-025 (Refresh Mode; Job End Area Coefficient) to "0.5".

Faulty Cleaning

Black or color lines (2-3mm)



d088t404

Possible Cause:

Wear of the cleaning blade at a specific point by image creation in the same place many times.

Solution:

Replace the drum unit.

Band Image Between 20mm and 30mm



d088t405

Possible Cause:

Developer wear with time

Solution:

Replace the developer or the development unit.

Jam Detection

Paper 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.

Jam Codes and Display Codes

SP7-504 shows how many jams occurred at each location.

Jam Code SP	Display	Description	LCD Display
75043	Tray 1: ON	Paper is not fed from tray 1.	Α
7504 4	Tray 2: ON	Paper is not fed from tray 2.	А
7504 5	Tray 3: ON	Paper is not fed from tray 3 (LCT).	Υ
7504 6	Tray 4: ON	Paper is not fed from tray 4.	Υ
75047	LCT: ON	Paper is not fed from LCT.	U
75048	Bypass: ON	Paper is not fed from the by-pass tray.	А
7504 9	Duplex: ON	Paper is jammed at the duplex unit.	Z
7504 10	-	-	-
7504 11	Vertical Transport 1: ON	Vertical transport sensor 1 does not detect paper from tray 1.	А

Jam Code SP	Display	Description	LCD Display
7504 12	Vertical Transport 2: ON	Vertical transport sensor 2 does not detect paper from tray 2.	А
7504 13	Bank Transport 1	Vertical transport sensor 1 or relay sensor does not detect paper from tray 3 (LCT).	Y
7504 15	-	-	-
7504 16	-	-	-
7504 17	Registration: ON	Registration sensor does not detect paper.	В
7504 18	Fusing Entrance: ON	Fusing entrance sensor does not detect paper.	В
7504 19	Fusing Exit: ON	Fusing exit sensor does not detect paper.	В
7504 20	Paper Exit: ON	Paper exit sensor does not detect paper.	С
7504 21	Relay Exit: ON	Tray exit sensor (bridge unit) does not detect paper.	D
7504 22	Relay Transport: ON	Relay sensor (bridge unit) does not detect paper.	D
7504 23	-	-	-
7504 24	Junction Gate Feed: ON	Junction gate jam sensor does not detect paper.	С
7504 25	Duplex Exit: ON	Duplex exit sensor does not detect paper.	Z
7504 26	Duplex Entrance: ON (In)	Duplex entrance sensor does not detect paper.	Z
7504 27	Duplex Entrance: ON (Out)	Duplex entrance sensor does not detect paper again after paper has passed this sensor.	Z
7504 28	-	-	-
7504 51	SEF Sensor 1	Vertical transport sensor 1 does not turn off.	А
7504 52	SEF Sensor 2	Vertical transport sensor 2 does not turn off.	Α
7504 53	Bank SEF Sensor 1	Vertical transport sensor or relay sensor 1 does not turn off.	Y
7504 54	Bank SEF Sensor 2	Vertical transport sensor 2 does not turn off.	Y

Jam Code SP	Display	Description	LCD Display
7504 55	-	-	-
7504 56	-	-	-
7504 57	Regist Sensor	Registration sensor does not turn off.	В
7504 58	LCT Sensor	LCT sensor does not turn off.	U
7504 59		-	-
7504 60	Exit Sensor	Paper exit sensor does not turn off.	С
7504 61	Relay Exit Sensor	Tray exit sensor (bridge unit) does not turn off.	D
7504 62	Relay Sensor	Relay sensor (bridge unit) does not turn off.	D
7504 63	-	-	-
7504 64	Junction Gate Feed: OFF	Junction gate jam sensor does not turn off.	С
7504 65	Duplex Exit Sensor	Duplex exit sensor does not turn off.	Z
7504 66	Duplex Entrance: OFF (In)	Duplex entrance sensor does not turn off.	Z
7504 67	Duplex Entrance: OFF (Out)	Duplex entrance sensor does not turn off after paper has passed this sensor.	Z
7504 68	-	-	-
7504 100	Finisher Entrance (B408)	Paper does not reach to the entrance sensor or stay at the entrance sensor.	R1-R2
7504 101	Finisher Shift Tray Exit (B408)	Paper does not reach to the lower tray exit sensor or stay at the lower tray exit sensor.	R1-R2
7504 102	Finisher Staple (B408)	Paper does not reach to the staple tray entrance sensor or stay at the staple tray entrance sensor.	R3-R5
7504 103	Finisher Exit (B408)	Lower tray exit sensor does not detect paper after the stack feed-out belt has fed paper. Lower tray exit sensor still detects paper after the stack feed-out belt has returned to the home	R3-R5
7504 104	-	position.	-

Jam Code SP	Display	Description	LCD Display
7504 105	Finisher Tray Lift Motor (B408)	Stack height sensor does not detect paper after the lower tray has lifted up. Stack height sensor still detects paper after the lower tray has lifted down.	R1-R2
7504 106	Finisher Jogger Motor (B408)	Jogger fence HP sensor does not turn off after the jogger fence has moved from its home position. Jogger fence HP sensor does not turn on after the jogger fence has returned to its home position.	R3-R5
7504 107	Finisher Shift Motor (B408)	Shift roller HP sensor does not turn off after the shift roller has moved from its home position. Shift roller HP sensor does not turn on after the shift roller has returned to its home position.	R1-R2
7504 108	Finisher Staple Motor (B408)	Stapler HP sensor does not turn off after the stapler has moved from its home position. Stapler HP sensor does not turn on after the stapler has returned to its home position.	R3-R5
7504 109	Finisher Exit Motor (B408)	Stack feed-out belt HP sensor does not turn off after the stack feed-out belt has moved from its home position. Stack feed-out belt HP sensor does not turn on after the stack feed-out belt has returned to its home position.	R3-R5
7504 191	Finisher Entrance: EUP (B804/B805)	Paper does not reach the finisher entrance sensor or stays at the finisher entrance sensor.	R1-R4
7504 192	Finisher Proof Exit: EUP (B804/B805)	Paper does not reach the proof tray exit sensor or stays at the proof tray exit sensor.	R1-R4
7504 193	Finisher Shift Tray Exit: EUP (B804/B805)	Paper does not reach the upper tray exit sensor or stays at the upper tray exit sensor.	R1-R4

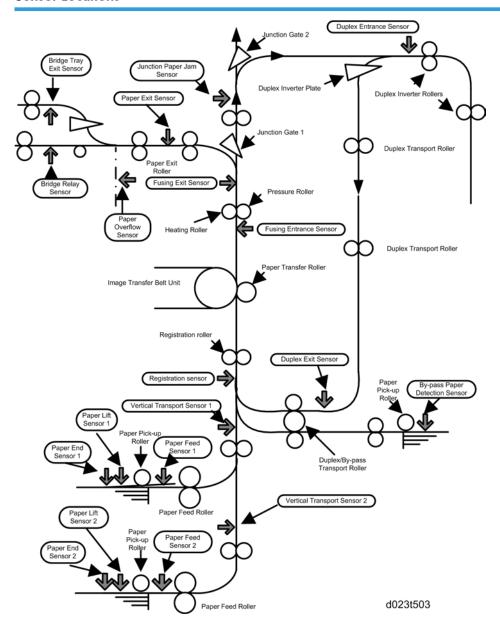
Jam Code SP	Display	Description	LCD Display
7504 194	Finisher Stapler Exit: EUP (B804/B805)	Stapling tray paper sensor does not turn on after the finisher entrance sensor has turned on. Stapling tray paper sensor does not turn off after it has turned on.	R5-R7
7504 195	Finisher Exit: EUP (B804/ B805)	Upper tray exit sensor does not turn on while the stack feed-out belt is turned on. Upper tray exit sensor does not turn off after the stack feed-out belt has returned to its home position.	R8-R12
7504 196	-	-	-
7504 197	-	-	-
7504 198	Finisher Folder: EUP (B804 only)	Fold bottom fence HP sensor does not turn on after the fold roller motor has stopped. Fold unit exit sensor does not turn on after the fold rollers have stopped. Fold unit exit sensor does not turn off after the fold rollers have stopped.	R8-R12
7504 199	Finisher Tray Motor: EUP (B804/B805)	Upper tray limit sensor does not turn on after the upper tray has lifted up. Upper tray limit sensor does not turn off after the upper tray has moved down.	R1-R4
7504 200	Finisher Jogger Motor: EUP (B804/B805)	Jogger fence HP sensor does not turn on/off after the jogger motor has turned on. Stack feed out belt HP sensor does not turn on/off after the feed out belt motor has turned on.	R8-R12
7504 201	Finisher Shift Motor: EUP (B804/B805)	Shift roller HP sensor does not turn on/off after the shift roller motor has turned on. Exit guide plate HP sensor does not turn on/off after the exit guide plate motor has turned on. Stacking roller HP sensor does not turn on/off after the stacking sponge roller motor has turned on.	R1-R4

Jam Code SP	Display	Description	LCD Display
7504 202	Finisher Staple Moving Motor: EUP (B804/ B805)	inflied off.	
7504 203	Finisher Staple Motor: EUP (B804/B805)	Corner stapler does not finish stapling after a specified time. Booklet stapler does not finish stapling after a specified time.	R8-R12
7504 204	Finisher Folder Motor: EUP (B804 only)	Fold plate HP sensor does not turn on/off after the fold plate motor has turned on. Clamp roller HP sensor does not turn on/off after the clamp roller retraction motor has turned on. Fold bottom fence HP sensor does not turn on/off after the fold unit bottom fence lift motor has turned on. Stack junction gate HP sensor does not turn on/off after the stack junction gate motor has turned on.	R8-R12
7504 205	-	-	-
7504 206	Finisher Punch Motor: EUP (B804/B805)	Punch encoder sensor does not turn on/off after the punch drive motor has turned on. Punch movement HP sensor does not turn on/off after the punch movement motor has turned on. Paper position slide HP sensor does not turn on/off after the paper position sensor slide motor has turned on.	R1-R4

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
132	A3 SEF	172	HLT SEF
133	A4 SEF	255	Others
134	A5 SEF	-	-

Sensor Locations



Electrical Component Defects

Sensors



• The CN numbers in the following table are the connector numbers on the IOB.

No.	Sensor Name/ Sensor Board Name	Activ e	CN	Condition	Symptom
				Open	"Open Cover" is displayed.
SW1	Right Door Open Switch	L	CN204/1	Shorted	"Open cover" cannot be detected.
				Open	"Open Cover" is displayed.
S9	Duplex Door	L	CN232/B9	Shorted	"Open cover" cannot be detected.
	ID Sensor: M	А	CN211/	Open/	
	TO CONSCIT. TVI	, ,	7, 11	Shorted	
	ID Sensor: C	A	CN211/	Open/	SC400
			8, 12	Shorted	
	ID Sensor: Y	Α	CN211/	Open/	
S1			9, 13	Shorted	
	ID Sensor: Front	A	CN211/1	Open/	SC258
			,	Shorted	
	ID Sensor: Center and K	А	CN211/2	Open/ Shorted	SC400 / SC258
				Open/	
	ID Sensor: Rear	Α	CN211/3	Shorted	SC258
S12	Danishashi an Camara		CN1224/A2	Open	Jam A (Jam8, 17)
312	Registration Sensor	L	CN224/A2	Shorted	Jam A, B (Jam1)

No.	Sensor Name/ Sensor Board Name	Activ e	CN	Condition	Symptom
S28	Drum Gear Position Sensor-K	Н	CN222/A2	Open/ Shorted	SC380/SC396
\$29	Drum Gear Position Sensor-M	Н	CN222/ A5	Open/ Shorted	SC381/SC397
\$30	Drum Gear Position Sensor-C	Н	CN222/ A8	Open/ Shorted	SC382/SC398
S31	Drum Gear Position Sensor-Y	Н	CN222/A11	Open/ Shorted	SC383/SC399
S24	Toner End Sensor - K		CN207/A1 CN207/B9		Toner end cannot be detected.
\$25 \$26 \$27	Toner End Sensor - Y Toner End Sensor - C Toner End Sensor - M	L	CN207/ B12 CN207/ B15	Shorted	Toner end is detected when there is enough toner.
\$32	Image Transfer Belt Rotation Sensor	H/L	CN208/11	Open/ Shorted	SC443
S18	Vertical Transport Sensor	L	CN1020 /A7	Open	Jam A (Jam3, 11)
318	1	L	CN230/A7	Shorted	Jam A, B (Jam1)
S21	Paper End		CN230/	Open	Paper end is not detected when there is no paper in the paper tray.
S24	Sensor 1, 2	L	A10, B10	Shorted	Paper end is detected when there is paper in the paper tray.
\$20 \$23	Paper Lift Sensor 1, 2	Н	CN230/ A13, B13	Open/ Shorted	SC501, SC502
S21	Vertical Transport Sensor	L	CN1220 /P7	Open	Jam A (Jam4, 12)
321	2	L	CN230/B7	Shorted	Jam A, B (Jam1)

No.	Sensor Name/ Sensor Board Name	Activ e	CN	Condition	Symptom	
S14 S15	Tray 1 Paper Height Sensor 1, 2	L	CN224/ B2, B5	Open/ Shorted	Remaining paper volume on the LCD is wrong.	
S16 S17	Tray 2 Paper Height Sensor 1, 2	L	CN224/ B10, B13	Open/ Shorted	Remaining paper volume on the LCD is wrong.	
SW4	Tray 1 Set Switch	L	CN224/A9	Open	Tray 1 is not detected when tray 1 is set.	
3774	ridy i ser swiich		CINZZ4/A/	Shorted	Tray 1 is detected when tray 1 is not set.	
S11	By-pass Paper Size Sensor	L	CN232/ B16, B17, B19, B20	Open/ Shorted	Paper size error	
SW2	By-pass Paper Detection	L	CN232/ A15	Open	Paper on the by-pass tray is not detected when paper is set.	
3442	Sensor	L		Shorted	Paper on the by-pass tray is detected when paper is not set.	
S10	By-pass Paper Length	L	CN232/	Open	Paper size error	
310	Sensor	<u> </u>	B12	Shorted	ruper size error	
S8	Fusing Entrance Sensor	L	CN232/B6	Open	Jam C (Jam 18)	
30	Tosing Emidice Sensor	L	CIN232/ BO	Shorted	Jam C (Jam 1)	
S6	Duplex Entrance Sensor	L	CN232/A8	Open	Jam Z (Jam 26/27)	
30	Duplex Enfrance Sensor	L	CN232/ A6	Shorted	Jam Z (Jam 1)	
S <i>7</i>	Duploy Evit Sansar		CN232/	Open	Jam Z (Jam 25)	
J/	Duplex Exit Sensor	L	A11	Shorted	Jam Z (Jam 1)	
\$35	TD Sensor - K	А	CN227/A7	Open/ Shorted	SC372	

No.	Sensor Name/ Sensor Board Name	Activ e	CN	Condition	Symptom
\$36	TD Sensor - M	Α	CN227/ A15	Open/ Shorted	SC373
S37	TD Sensor - C	Α	CN227/B7	Open/ Shorted	SC374
S38	TD Sensor - Y	Α	CN227/ B15	Open/ Shorted	SC375
S4	Fusing Exit Sensor	L	CN204/12	Open	Jam C (Jam 19)
34	Tusing Exil Sensor	L	CIN204/ 12	Shorted	Jam C (Jam 1)
		Н	CN224/A5	Open	Waste toner near full indicated when it is not near full.
S13	Waste Toner Sensor			Shorted	Waste toner near full cannot be detected when the waste toner bottle is nearly full.
SW4	Waste Toner Bottle Set Switch	L	6110011117	Open	Waste toner bottle is not detected when the waste toner bottle is set.
3004			CN224/A7	Shorted	Waste toner bottle is detected when the waste toner bottle is not set.
SW6	Tray 2 Paper Size Switch	L	CN224/ A11, A12, A13, A15	Open/ Shorted	Paper size error
					SC498
\$33	Temperature/ Humidity Sensor	A	CN231/ 25, 27	Open/ Shorted	Printed image has some problems such as rough image, dirty background, weak image or poor fusing.

No.	Sensor Name/ Sensor Board Name	Activ e	CN	Condition	Symptom
S34	Thermopile	А	CN209/16	Open/ Shorted	SC541
TH2	Thermistor - Heating Roller	А	CN212/22	Open/ Shorted	SC551
THI	Thermistor - Pressure Roller	А	CN212/18	Open/ Shorted	SC561
S3	Danar Evit Sanaar	L	CN204/9	Open	Jam C (Jam 20)
33	Paper Exit Sensor	L	CIN204/ 9	Shorted	Jam C (Jam 1)
\$5	Danier Overflow Server		CN204/15	Open	Paper overflow message is not displayed when the paper overflow condition still remains.
33	Paper Overflow Sensor	L	CIN204/ 13	Shorted	Paper overflow message is displayed when the paper overflow condition does not remain.
C 41	Original Width Sensor 1	А	CN313/14 SIO	Open/ Shorted	Original paper size cannot be detected.
S41	Original Width Sensor 2	А	CN313/11 SIO	Open/ Shorted	Original paper size cannot be detected.
C 4 0	Original Length Sensor 1	А	CN313/8 SIO	Open/ Shorted	Original paper size cannot be detected.
S42	Original Length Sensor 2	А	CN313/5 SIO	Open/ Shorted	Original paper size cannot be detected.
\$43	Original Length Sensor 3	А	CN313/2 SIO	Open/ Shorted	Original paper size cannot be detected.
520	C LID C	11	CN318/2	Open	SC120
S39	Scanner HP Sensor	Н	SIO	Shorted	SC121

No.	Sensor Name/ Sensor Board Name	Activ e	CN	Condition	Symptom
S40	Platen Cover Sensor	L	CN318/5 SIO	Open/ Shorted	Platen cover open cannot be detected.
S2	Junction Paper Jam Sensor	L	CN204/6	Open/ Shorted	Jam C (Jam 24/64)

Blown Fuse Conditions

Power Supply Unit

-	Rating		
Fuse	115V	220V - 240V	Symptom when turning on the main switch
FU1	15A/125V	8A/250V	No response. (5V power to the PSU is not supplied.)
FU2	10A/125V	6.3A/250V	No response. (5V power to the BICU and controller is not supplied.)
FU3	2A/250V	1A/250V	5V power to the scanner heater and tray heater is not supplied.
FU4	1A/250V	1A/250V	5V power to the SIO and heater is not supplied.
FU5	5A/250V	5A/250V	5V power to the IOB not supplied.
FU6	2A/250V	2A/125V	5VS power to the BICU not supplied.
FU7	10A/125V	10A/125V	24VS power to the IOB not supplied.
FU8	10A/125V	10A/125V	24VS power to the IOB not supplied.
FU9	6.3A/125V	6.3A/125V	24V power to the IOB not supplied.
FU10	6.3A/125V	6.3A/125V	24V power to the SIO not supplied.
FU11	6.3A/125V	6.3A/125V	24V power to the BICU and MB not supplied.
FU12	6.3A/125V	6.3A/125V	24V power to the PFU or LCT not supplied.
FU13	6.3A/125V	6.3A/125V	24V power to the finisher not supplied.

Euro	Rating		Committee to the major of the major of the	
Fuse	115V 220V - 240V		Symptom when turning on the main switch	
FU14	5A/250V	5A/250V	5V power to the BICU not supplied.	

IH Inverter

E	Fuse Rating 115V 220V - 240V		Comments on the section of the section of the
ruse			Symptom when turning on the main switch
FU1	15A/125V	8A/250V	15V power to the IH coil unit is not supplied. SC689 occurs.
FU2	115°C		No response
FU3	115°C		No response
FU4	1A/250V		15V power to the IH coil unit is not supplied. SC689 occurs.

ACAUTION

• For continued protection against risk of fire, replace only with same type and rating of fuse.

6

Scanner Test Mode

SBU Test Mode

Output the SBU test pattern with SP4-807-001 to make sure the scanner SBU control operates correctly. The SBU test pattern prints out after you have set the SP mode settings and pressed the start key.

- The CCD on the SBU board may be defective if the copy is abnormal and the SBU test pattern is normal.
- The followings can be the cause if the copy is normal and the SBU test pattern is abnormal:
 - The harness may not be correctly connected between the SBU and the BICU.
 - The BICU or SBU board may be defective.

7. Energy Saving

Energy Save

Energy Saver Modes

Customers should use energy saver modes properly, to save energy and protect the environment.

Power Consump. Warm-up Operation Mode Ready Mode Panel Off Mode Energy Low Power Mode saving!! Off/Sleep Mode

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 240 min., the grey area will disappear, and no energy is saved before 240 min. expires.

Timer Settings

The user can set these timers with User Tools (System settings > Timer setting)

- Panel off timer (10 sec 240 min): Panel Off Mode. Default setting: 60 sec.
- Energy saver timer (1 240 min): Low Power Mode. Default setting: 15 min.
- Auto off timer (1 240 min): Off/Sleep Mode. Default setting: 30 min.

Normally, Panel Off timer < Energy Saver timer < Auto Off timer. But, for example, if Auto Off timer < or = Panel Off timer and Energy Saver timer, the machine goes immediately to Off mode when the Auto Off timer expires. It skips the Panel Off and Energy Saver modes.

Example

• Panel off: 1 min.

- ۸ . ۵
- Low power: 15 min.
- Auto Off: 1 min.
- The machine goes to Off mode after 1 minute. Panel Off and Low Power modes are not used.

Return to Stand-by Mode

Low Power Mode

The recovery time depends on the model and the region.

• 10 to 15.7 sec.

Off/Sleep Mode

Recovery time.

• 15 sec.

Recommendation

We recommend that the default settings 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.
- If it is necessary to change the settings, please try to make sure that the Auto Off timer is not too long.
 Try with a shorter setting first, such as 30 min., then go to a longer one (such as 60 min.) if the customer is not satisfied.
- If the timers are all set to the maximum value, the machine will not begin saving energy until 240 minutes has expired after the last job. This means that after the customer has finished using the machine for the day, energy will be consumed that could otherwise be saved.
- If you change the settings, the energy consumed can be measured using SP8941, as explained below.

Energy Save Effectiveness

SP 8941 (Machine Status) keeps a record of the amount of time that the machine spends in each mode.

- 8941-001: Operating mode
- 8941-002: Standby mode
- 8941-003: Panel off mode
- 8941-004: Low power mode
- 8941-005: Off/sleep mode

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 customers 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 SP8941 001 to 005.
- At the end of the measurement period, read the values of SP8941 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)

Here is an example calculation.

Machine Condition	SP8941: Machine Status	Time at Start (min.)	Time at End (min.)	Running time (hour) (2-1)/ 60 = 3	Power consumption Spec. (W)	Power consumption (KWH) ($3x4$)/1000 = 5
Operating	001: Operatin g Time	21089.0	21386.0	5.0	1081.8	5.35
② Stand by (Ready)	002: Standby Time	306163.0	308046.0	31.4	214.0	6.72
③ Energy save (Panel off)	003: Energy Save Time	71386.0	<i>75</i> 111.0	62.1	214.0	13.29
4) Low power	004: Low Power Time	154084.0	156340.0	37.6	146.0	5.49
⑤ Off/Sleep	005: Off Mode Time	508776.0	520377.0	193.4	7.0	1.35
Total ⑥						32.20

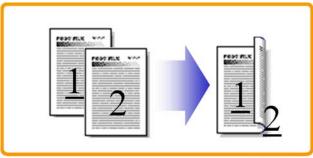
Paper Save

Effectiveness of Duplex/Combine Function

Duplexing and the combine functions reduce the amount of paper used. This means that less energy overall is used for paper production, which improves the environment.

1. Duplex:

Reduce paper volume in half!



d062d102

2. Combine mode:

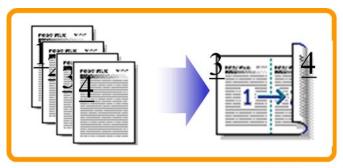
Reduce paper volume in half!



d062d100

3. Duplex + Combine:

Using both features together can further reduce paper volume by 3/4!



d062d101

To check the paper consumption, look at the total counter and the duplex counter.

The total counter counts all pages printed.

- For one duplex page, the total counter goes up by 2.
- For a duplex job of a three-page original, the total counter goes up by 3.

The duplex counter counts pages that have images on both sides.

- For one duplex page, the duplex counter goes up by 1.
- For a duplex job of a three-page original, the duplex counter will only increase by 1, even though
 two sheets are used.

How to calculate the paper reduction ratio

How to calculate the paper reduction ratio, when compared with Single-sided copying, with no 2-in-1 combine mode

Paper reduction ratio (%) = Number of sheets reduced: A/Number of printed original images: B x 100

- Number of sheets reduced: A
 - = Output pages in duplex mode/2 + Number of pages in Single-sided with combine mode + Number of pages in Duplex with combine mode x 3/2

$$A = ((2) + (3) + (4))/2 + (5) + (6) \times 3/2$$

- Number of printed original images: B
 - = Total counter6 + Number of pages in Single-sided with combine mode + Number of pages in Duplex with combine mode

$$B = (1) + (5) + (6)$$

- (1) Total counter: SP 8581 001 (pages)
- (2) Single-sided with duplex mode: SP 8421 001 (pages)
- (3) Double-sided with duplex mode: SP 8421 002 (pages)
- (4) Book with duplex mode: SP 8421 003 (pages)
- (5) Single-sided with combine mode: SP 8421 004 (pages)

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• (6) Duplex with combine mode: SP 8421 005 (pages)

Model AT-C2.5 Machine Code: D086/D087

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1. Appendix: Specifications

General Specifications

Main Frame

Configuration:	Desktop
Print Process:	Laser beam scanning & Dry electrostatic transfer system 4 drums tandem method
Number of scans:	1
Resolution:	Scan: 600 dpi Print: 600 dpi
Gradation:	Scan: 600dpi / 10bits/pixel Print: 600dpi / 4 bits/pixel
Original type:	Sheets, book, objects
Maximum original size:	A3/11" x 17"
Original reference position:	Left rear corner, ad hoc lists

C2.5a: 30 cpm (color/black & white) C2.5b: 35 cpm (color/black & white) Thick 1 (169 g/m² or less) C2.5a: 17.5 cpm (color/black & white) C2.5b 17.5 cpm (color/black & white) Thick 2 (220 g/m² or less) C2.5a: 17.5 cpm (color/black & white) C2.5b 17.5 cpm (color/black & white) Thick 3 (256 g/m² or less) C2.5a: 17.5 cpm (color/black & white) Thick 4 (300 g/m² or less) C2.5b 17.5 cpm (color/black & white) Thick 4 (300 g/m² or less) C2.5a: 15 cpm (color/black & white) from By-pass C2.5b: 15 cpm (color/black & white) from By-pass C4.5b: 15 cpm (color/black & white) from By-pass C5.5b: 15 cpm (color/black & white) from By-pass C6.5a: 17.5 cpm (color/black & white)	
C2.5b: 35 cpm (color/black & white) Thick 1 (169 g/m² or less) C2.5a: 17.5 cpm (color/black & white) C2.5b 17.5 cpm (color/black & white) Thick 2 (220 g/m² or less) C2.5a: 17.5 cpm (color/black & white) C2.5b 17.5 cpm (color/black & white) Thick 3 (256 g/m² or less) C2.5a: 17.5 cpm (color/black & white) C2.5b 17.5 cpm (color/black & white) C2.5b 17.5 cpm (color/black & white) Thick 4 (300 g/m² or less) C2.5a: 15 cpm (color/black & white) from By-pass C2.5b: 15 cpm (color/black & white) from By-pass C4.5b: 15 cpm (color/black & white) from By-pass C4.5b: 15 cpm (color/black & white) from By-pass	
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Thick 3 (256 g/m² or less) C2.5a: 17.5 cpm (color/black & white) C2.5b 17.5 cpm (color/black & white) Thick 4 (300 g/m² or less) C2.5a: 15 cpm (color/black & white) from By-pass C2.5b: 15 cpm (color/black & white) from By-pass OHP, Glossy (1200 dpi)	
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Thick 4 (300 g/m² or less) C2.5a: 15 cpm (color/black & white) from By-pass C2.5b: 15 cpm (color/black & white) from By-pass OHP, Glossy (1200 dpi)	
C2.5a: 15 cpm (color/black & white) from By-pass C2.5b: 15 cpm (color/black & white) from By-pass OHP, Glossy (1200 dpi)	
C2.5b: 15 cpm (color/black & white) from By-pass OHP, Glossy (1200 dpi)	
OHP, Glossy (1200 dpi)	
C2.5a: 17.5 cpm (color/black & white)	
C2.5b 17.5 cpm (color/black & white)	
C2.5a/b	
First copy (normal mode): Color: 8 seconds or less (A4/LT LEF)	
Black & white: 5 seconds or less (A4/LT LEF)	
Warm-up time: 26 seconds or less (23°C)	
Standard tray: 550 sheets x 2 + 100	
By-pass tray: 100 sheets (Normal), 40 sheets (Thick 1: 106 - 169g/r 20 sheets (Thick 2/3: 170 - 256 g/m²), 35 sheets (Postcard)	n ²),
(80 g/m², 20 lb) Optional paper feed tray: 550 sheets x 2	
2000-sheet LCT: 2000 sheets	
1200-sheet LCT: 1200 sheets	

	(Refer to "Supported Paper Sizes".)				
	-	Minimum	Maximum		
	Tray 1	A4/8.5" x 11" (LEF)			
	Tray 2	A5 (LEF)/ 8.5" x 11"	A3/11" x 17"		
Print Paper Size:	By-pass	90 x 148 mm	305 x 600 mm		
	Optional Tray	A5 (LEF)/ 8.5" x 11"	A3/11" x 17"		
	2000-sheet LCT	A4/8.5" x 11" (LEF)			
	1200-sheet LCT	B5 (LEF)/ 257 x 182mm	A4 (LEF)/ 297 x 210mm		
	Standard tray: 60 to 256 g/m ² (16 to 68 lb.)				
Printing Paper Weight:	Optional paper tray: 60 to 256 g/m ² (16 to 68 lb.) By-pass tray: 60 to 300 g/m ² (16 to 79.8 lb.)				
riming raper weighi.	Duplex unit: 60 to 169 g/m ² (16 to 45 lb.) LCT 1200: 60 to 216 g/m ² (10 to 571lb)				
	Standard exit tray: 500 sheets or more (face down)*1				
	Shift Tray: 250 sheets (80 g/m²)				
	1-bin Tray: 125 (80 g/m²)				
Output Paper Capacity:	500-sheet finisher 500 (80 g/m²)				
	1000-sheet finisher: 250 + 1000 sheets (80 g/m ²)				
	1000-sheet booklet finisher: 100 + 1000 sheets (80 g/m²)				
	* 1: T6200, A4 LEF				
Continuous copy:	Up to 999 sheets				

	Arbitrary: From 25 to 400% (1% step)				
	Fixed:				
	North Ame	erica	Europe		
	25%		25%		
	50%		50%		
	65%		61%		
	73%		71%		
7	78%		82%		
Zoom:	85%		87%		
	93%		93%		
	100%		100%		
	121%		115%		
	129%			122%	
	155%			141%	
	200%			200%	
	400%		400%		
Memory:	Standard: 1.5 GB				
Power Source:	120 V, 60 Hz: More than 12A (for North America)				
rower source:	220 V – 240 V, 50/60 Hz: More than 8A (for Europe/ASIA)			Europe/ASIA)	
	-	120V		220 - 240V	
Power Consumption:	Maximum	1584 W or le	ess	1700 W or less	
Tower Consumption.	Energy Saver (Sleep Mode)	2.0 W or les	SS S	2.0 W or less	

Noise Emission: (Sound Power Level)	Model	State	Mainframe	Complete system (* 1)
		Standby	40 dB(A) or Less	44 dB(A) or Less
	C2.5a	Operating -	B/W: 66.5 dB(A) or Less	-
		Operating	Color: 67.0 dB(A) or Less	(*1) 44 dB(A)
		Standby	40 dB(A) or Less	
	C2.5b	On continue	B/W: 68.3 dB(A) or Less	-
		Operating	Color: 68.5 dB(A) or Less	

(* 1) The complete system consists of mainframe, ARDF, finisher, and LCT.

The above measurements were made in accordance with Ricoh standard methodology.

Dimensions (W \times D \times H):

Copier: $670 \times 671 \times 760 \text{ mm} (26.4" \times 26.4" \times 29.9")$

Copier + PFU or LCT: 670 x 671 x 1020 mm (26.4" x 26.4" x 40.2")

Weight: Less than 120 kg (265 lb.) [with ARDF excluding toner]

Printer

	PCL 6/5c
	RPCS (Refined Printing Command Stream)
	Adobe PostScript 3 (optional)
Printer Languages:	PDF Direct (optional)
	IPDS (optional)
	PictBridge (optional)
	MediaPrint: JPEG/TIFF (optional)

	PCL 5c:
Resolution and	300 x 300 dpi : Available only in B/W mode
	600 x 600 dpi : Fast (1 bit), Standard (2 bits), Fine (4 bits)
	PCL 6:
	600 x 600 dpi : Fast (1 bit), Standard (2 bits), Fine (4 bits) / 1200 x 1200 dpi
Gradation:	RPCS:
	600 x 600 dpi, 1,800 x 600 dpi*, 9600 dpi x 600 dpi*
	*1,800 x 600 dpi = 600 x 600 dpi (2 bits)
	*9600 dpi x 600 dpi * = 600 x 600 dpi (4 bits)
	PS3:
	600 x 600 dpi : Fast (1 bit), Standard (2 bits), Fine (4 bits)
	C2.5a:
	30 ppm in Plain/Middle Thick mode
Duintin a on a de	17.5 ppm in Thick/OHP mode (depending on paper type)
Printing speed:	C2.5b:
	35 ppm in Plain/Middle Thick mode
	17.5 ppm in Thick/OHP mode (depending on paper type)
	PCL 6/5c (Standard):
	45 Compatible fonts
Resident Fonts:	13 International fonts
	1 Bitmap font
	Adobe PostScript 3 (Optional):
	136 fonts (24 Type 2 fonts, 112 Type 14 fonts)
	IPDS (Optional):
	108 fonts

	USB2.0 Type A and Type B: Standard
	USB Host (PictBridge): Optional
	Ethernet (100 Base-TX/10 Base-T): Standard
Host Interfaces:	Gigabit Ethernet (1000 Base-T): Optional
	IEEE1284 parallel x 1: Optional
	IEEE802.11a/g (Wireless LAN): Optional
	Bluetooth (Wireless): Optional
Network Protocols:	TCP/IP (IPv4, IPv6), IPX/SPX, AppleTalk (Auto Switching)

Scanner

Standard Scanner Resolution:	Main scan/Sub scan 600 dpi
Available scanning Resolution Range:	Twain Mode: 100 to 1200 dpi Delivery Mode: 100/200/300/400/600 dpi
Grayscales:	1 bit or 8 bits/pixel each for RGB
Scanning Throughput (ARDF mode):	Scan to E-mail / Folder: BW: 51 ipm (A4LEF / BW Text (Print) / 200dpi / Compression: On (MH)) FC: 51 ipm (A4LEF / FC Text / Photo / 200dpi / Compression: Standard)
Interface:	Ethernet (100 Base-TX/10 Base-T/1000 Base-T for TCP/IP), Wireless LAN, GigaEthernet
Compression Method:	B&W: TIFF (MH, MR, MMR) Gray Scale, Full Color: JPEG

Supported Paper Sizes

Paper Feed

North America

BT: By-pass Tray, T1: Tray 1, T2/3/4: Tray 2/3/4, LCT 2000: Large Capacity Tray: 2000-sheet, LCT 1200: Large Capacity Tray: 1200-sheet, DU: Duplex Unit

Paper	Size (W x L)	ВТ	TI	T2/3/	LCT 2000	LCT 1200	DU
A3 W	12" x 18"	М	-	-	-	-	-
A3 SEF	297 x 420mm	М	-	М	-	-	М
A4 SEF	210 x 297mm	М	-	Α	-	-	М
A4 LEF	297 x 210mm	М	S	М	S	S	М
A5 SEF	148 x 210mm	М	-	-	-	-	-
A5 LEF	210 x 148mm	М	S	Α	-	-	М
A6 SEF	105 x 148mm	М	-	-	-	-	-
B4 SEF	257 x 364mm	М	-	М	-	-	М
B5 SEF	182 x 257mm	М	-	Α	-	-	М
B5 LEF	257 x 182mm	М	S	М	-	S	М
B6 SEF	128 x 182mm	М	-	-	-	-	-
Ledger	11" x 17"	Α	-	Α	-	-	М
Letter SEF	8.5" x 11"	Α	-	Α	-	-	М
Letter LEF	11" x 8.5"	Α	М	А	М	М	М
Legal SEF	8.5" x 14"	М	-	Α	-	-	М
Government Legal SEF	8.25" x 14"	М	-	М	-	-	М
Half Letter SEF	5.5" x 8.5"	А	-	-	-	-	-

Paper	Size (W x L)	ВТ	TI	T2/3/	LCT 2000	LCT 1200	DU
Executive SEF	7.25" x 10.5"	М	-	М	-	-	М
Executive LEF	10.5" x 7.25"	М	-	Α	-	-	М
F SEF	8" x 13"	М	-	М	-	-	М
Foolscap SEF	8.5" x 13"	М	-	М	-	-	М
	8.25" x 13"	М	-	М	-	-	М
F 1: CFF	11" x 15"	М	-	М	-	-	М
Folio SEF	10" x 14"	М	-	М	-	-	М
	8" x 10"	М	-	М	-	-	М
8K	267 x 390mm	М	-	М	-	-	М
16K SEF	195 x 267mm	М	-	М	-	-	М
16K LEF	267 x 195mm	М	-	М	-	-	М
Custom		М	-	М	-	-	-
Com 10 Env.	4.125" x 9.5"	М	-	-	-	-	-
Monarch Env.	3.875" x 7.5"	М	-	-	-	-	-
C6 Env.	114 x 162mm	М	-	-	-	-	-
C5 Env.	162 x 229mm	М	-	-	-	-	-
DL Env.	110 x 220mm	М	-	-	-	-	-

Remarks:

А	Supported: the sensor detects the paper size.
М	Supported: the user specifies the paper size.
S	Supported: depends on a technician adjustment
-	Not supported

Europe/ Asia

BT: By-pass Tray, T1: Tray 1, T2/3/4: Tray 2/3/4, LCT 2000: Large Capacity Tray: 2000-sheet, LCT 1200: Large Capacity Tray: 1200-sheet, DU: Duplex Unit

Paper	Size (W x L)	ВТ	T1	T2/3/ 4	LCT 2000	LCT 1200	DU
A3 W	12" x 18"	М	-	-	-	-	-
A3 SEF	297 x 420mm	Α	-	Α	-	-	М
A4 SEF	210 x 297mm	А	-	Α	-	-	М
A4 LEF	297 x 210mm	А	М	Α	М	S	М
A5 SEF	148 x 210mm	А	-	-	-	-	-
A5 LEF	210 x 148mm	А	S	А	-	-	М
A6 SEF	105 x 148mm	А	-	-	-	-	-
B4 SEF	257 x 364mm	М	-	Α	-	-	М
B5 SEF	182 x 257mm	М	-	Α	-	-	М
B5 LEF	257 x 182mm	М	S	Α	-	S	М
B6 SEF	128 x 182mm	М	-	-	-	-	-
Ledger	11" x 1 <i>7</i> "	М	-	М	-	-	М
Letter SEF	8.5" x 11"	М	-	Α	-	-	М
Letter LEF	11" x 8.5"	М	S	М	S	S	М
Legal SEF	8.5" x 14"	М	-	М	-	-	М
Government Legal SEF	8.25" x 14"	М	-	М	-	-	М
Half Letter SEF	5.5" x 8.5"	М	-	-	-	-	-
Executive SEF	7.25" x 10.5"	М	-	М	-	-	М
Executive LEF	10.5" x 7.25"	М	-	М	-	-	М
F SEF	8" x 13"	М	-	М	-	-	М
Foolscap SEF	8.5" x 13"	М	-	М	-	-	М

Paper	Size (W x L)	ВТ	T1	T2/3/	LCT 2000	LCT 1200	DU
	8.25" x 13"	М	-	М	-	-	М
F 1: CFF	11" x 15"	М	-	М	-	-	М
Folio SEF	10" x 14"	М	-	М	-	-	М
	8" x 10"	М	-	М	-	-	М
8K	267 x 390mm	М	-	М	-	-	М
16K SEF	195 x 267mm	М	-	М	-	-	М
16K LEF	267 x 195mm	М	-	М	-	-	М
Custom		М	-	М	-	-	-
Com 10 Env.	4.125" x 9.5"	М	-	-	-	-	-
Monarch Env.	3.875" x 7.5"	М	-	-	-	-	-
C6 Env.	114 x 162mm	М	-	-	-	-	-
C5 Env.	162 x 229mm	М	-	-	-	-	-
DL Env.	110 x 220mm	М	-	-	-	-	-

Remarks:

А	Supported: the sensor detects the paper size.
М	Supported: the user specifies the paper size.
S	Supported: depends on a technician adjustment
-	Not supported

Paper Exit

1000-Sheet Booklet Finisher

MF: Main Frame, Prf: Proof, Clr: Clear, Shf: Shift, Stp: Staple, SS: Saddle Stitch, 2/3 P: 2/3 Holes Punch, 4 P: 4 Holes Punch, N4P: North Europe 4 Holes Punch

D	C: /// 1)	A A E	1000-sheet booklet finisher								
Paper	Size (W x L)	MF	Prf	Clr	Shf	Stp	SS	2/3 P	4 P	N4P	
A3 W	12" x 18"	Υ	Υ	Υ	-	-	-	Y	Υ	Υ	
A3 SEF	297 x 420 mm	Υ	Υ	Υ	Υ	30	30	Y	Υ	Υ	
A4 SEF	210 x 297 mm	Υ	Υ	Υ	Υ	50	50	-	-	Υ	
A4 LEF	297 x 210 mm	Υ	Υ	Υ	Υ	50	50	Y	Υ	Υ	
A5 SEF	148 x 210 mm	Υ	Υ	Υ	Υ	-	-	-	-	Υ	
A5 LEF	210 x 148 mm	Υ	Υ	Υ	Υ	-	-	-	-	Υ	
A6 SEF	105 x 148 mm	Υ	Υ	Υ	-	-	-	-	-	-	
B4 SEF	257 x 364 mm	Υ	Υ	Υ	Υ	30	30	Y	Υ	Y	
B5 SEF	182 x 257 mm	Υ	Υ	Υ	Υ	50	50	-	-	Υ	
B5 LEF	257 x 182 mm	Υ	Υ	Υ	Υ	50	50	Y	Υ	Y	
B6 SEF	128 x 182 mm	Υ	Υ	Υ	-	-	-	-	-	Υ	
Ledger	11" x 17"	Υ	Υ	Υ	Υ	30	30	Y	Υ	Υ	
Letter SEF	8.5" x 11"	Υ	Υ	Υ	Υ	50	50	-	-	Υ	
Letter LEF	11" x 8.5"	Υ	Υ	Υ	Υ	50	-	Y	Υ	Υ	
Legal SEF	8.5" x 14"	Υ	Υ	Υ	Υ	30	30	-	-	Υ	
Government Legal SEF	8.25" x 14"	Υ	Υ	Y	Y	30	30	Y	Y	Y	
Half Letter SEF	5.5" x 8.5"	Υ	Υ	Υ	Υ	-	-	-	-	Υ	
Executive SEF	7.25" x 10.5"	Υ	Υ	Υ	Υ	50	-	-	-	Υ	
Executive LEF	10.5" x 7.25"	Υ	Υ	Υ	Υ	50	-	Y	Υ	Υ	
F SEF	8" x 13"	Υ	Υ	Υ	Υ	30	-	-	-	Υ	
Foolscap SEF	8.5" x 13"	Υ	Υ	Υ	Υ	30	-	-	-	Υ	

D	C: /\/ 1\	AAE			1000	bookl	booklet finisher			
Paper	Size (W x L)	MF	Prf	Clr	Shf	Stp	SS	2/3 P	4 P	N4P
	8.25" x 13"	Υ	Υ	Υ	Y	30	-	-	-	Υ
Folio SEF	11" x 15"	Υ	Υ	Υ	Y	30	-	Y	Υ	Υ
FOIIO SEF	10" x 14"	Υ	Υ	Υ	Y	30	-	Y	-	Υ
	8" x 10"	Υ	Υ	Υ	Υ	30	-	-	-	Υ
8K	267 x 390 mm	Υ	Υ	Υ	Υ	30	-	Y	Υ	Υ
16K SEF	195 x 267 mm	Υ	Υ	Υ	Υ	50	-	-	-	Υ
16K LEF	267 x 195 mm	Υ	Υ	Υ	Υ	50	-	Y	Υ	Υ
Custom		Υ	Υ	Υ	-	-	-	-	-	-
Com 10 Env.	4.125" x 9.5"	Υ	Υ	-	-	-	-	-	-	-
Monarch Env.	3.875" x 7.5"	Υ	Υ	-	-	-	-	-	-	-
C6 Env.	114 x 162 mm	Υ	Υ	Υ	-	-	-	-	-	-
C5 Env.	162 x 229 mm	Υ	Υ	Υ	-	-	-	-	-	-
DL Env.	110 x 220 mm	Y	Υ	Y	-	-	-	-	-	-

Remarks:

Y	Supported
30	Output up to 30 sheets
50	Output up to 50 sheets
-	Not supported

1000-Sheet Finisher and 500-Sheet Finisher

MF: Main Frame, Prf: Proof, Clr: Clear, Shf: Shift, Stp: Staple

	Size	1.45	10)00-sh	eet finis	her	500-	sheet fi	nisher	1.00	ol it.
Paper	(W x L)	MF	Prf	Clr	Shf	Stp	Clr	Shf	Stp	1-Bin	Shift
A3 W	12" x 18"	Υ	Υ	Υ	-	-	-	-	-	-	Υ
A3 SEF	297 x 420 mm	Y	Υ	Υ	Y	30	Y	Y	30	Y	Y
A4 SEF	210 x 297 mm	Y	Υ	Υ	Y	50	Y	Y	50	Y	Y
A4 LEF	297 x 210 mm	Y	Y	Y	Y	50	Y	Y	50	Y	Y
A5 SEF	148 x 210 mm	Y	Y	Y	Y	-	Y	Y	-	Y	Y
A5 LEF	210 x 148 mm	Υ	Υ	Y	Y	-	Y	Y	-	Y	Y
A6 SEF	105 x 148 mm	Y	-	-	-	-	Y	-	-	-	Y
B4 SEF	257 x 364 mm	Y	Υ	Υ	Y	30	Y	Y	30	Y	Y
B5 SEF	182 x 257 mm	Υ	Υ	Υ	Y	50	Y	Y	50	Y	Y
B5 LEF	257 x 182 mm	Y	Υ	Y	Y	50	Y	Y	50	Y	Y
B6 SEF	128 x 182 mm	Y	Υ	-	-	-	Y	-	-	Y	Y
Ledger	11" x 17"	Υ	Υ	Υ	Y	30	Υ	Υ	30	Υ	Υ
Letter SEF	8.5" x 11"	Υ	Υ	Υ	Υ	50	Υ	Υ	50	Y	Y
Letter LEF	11" x 8.5"	Υ	Υ	Υ	Y	50	Υ	Y	50	Y	Y
Legal SEF	8.5" x 14"	Υ	Υ	Υ	Y	30	Υ	Y	30	Y	Y
Government Legal SEF	8.25" x 14"	Υ	Y	Y	Y	-	Y	Y	30	Y	Y

	Size		10)00-sh	eet finis	her	500-sheet finisher		1.0.	ol it	
Paper	(W x L)	MF	Prf	Clr	Shf	Stp	Clr	Shf	Stp	1-Bin	Shift
Half Letter SEF	5.5" x 8.5"	Y	Υ	Υ	Υ	-	Υ	Υ	-	Y	Y
Executive SEF	7.25" x 10.5"	Y	Υ	Υ	Y	50	Y	Y	50	Y	Y
Executive LEF	10.5" x 7.25"	Y	Υ	Υ	Y	50	Y	Y	50	Y	Y
F SEF	8" x 13"	Υ	Υ	Υ	Y	30	Υ	Y	30	Y	Y
Foolscap SEF	8.5" x 13"	Υ	Υ	Υ	Υ	30	Υ	Υ	30	Y	Y
	8.25" x 13"	Y	Υ	Υ	Y	30	Υ	Υ	30	Y	Y
Folio SEF	11" x 15"	Υ	Υ	Υ	Υ	30	Υ	Υ	30	Y	Y
	10" x 14"	Υ	Υ	Υ	Υ	30	Υ	Υ	30	Y	Y
	8" x 10"	Υ	Υ	Υ	Υ	30	Υ	Υ	30	Y	Y
8K	267 x 390 mm	Y	Υ	Υ	Y	30	Υ	Y	30	Y	Y
16K SEF	195 x 267 mm	Y	Υ	Υ	Υ	50	Υ	Υ	50	Y	Y
16K LEF	267 x 195 mm	Y	Υ	Υ	Y	50	Υ	Υ	50	Y	Y
Custom		Υ	Υ	-	-	-	-	-	-	-	Y
Com 10 Env.	4.125" x 9.5"	Y	-	-	-	-	Υ	Υ	-	Y	Y
Monarch Env.	3.875" x 7.5"	Υ	-	-	-	-	-	-	-	Y	Y
C6 Env.	114 x 162 mm	Y	Υ	-	-	-	-	-	-	Y	Y
C5 Env.	162 x 229 mm	Y	Υ	-	-	-	-	-	-	Y	Y

Size		MF	1000-sheet finisher				500-sheet finisher			1 D:-	Shift
Paper	(W x L)	IVIE	Prf	Clr	Shf	Stp	Clr	Shf	Stp	1-Bin	Shill
DL Env.	110 x 220 mm	Y	Y	-	-	-	-	-	-	Y	Y

Remarks:

Y	Supported
30	Output up to 30 sheets
50	Output up to 50 sheets
-	Not supported

Platen/ARDF Original Size Detection

Size	Platen	ARDF	Platen	ARDF
(width x length) [mm]	Inches	Inches	Metric	Metric
A3 (297 x 420) L	-	Y	Y*3	Y
B4 (257 x 364) L	-	-	Y*3	Y
A4 (210 x 297) L	Y*1	Y	Y*3	Y
A4 (297 x 210) S	γ*3	Y	γ*3	Y
B5 (182 x 257) L	-	-	γ*3	Y
B5 (257 x 182) S	-	-	Y*3	Y
A5 (148 x 210) L	-	-	_*1	Y
A5 (210 x 148) S	-	-	_*1	Y
B6 (128 x 182) L	-	-	-	-
B6 (182 x 128) S	-	-	-	-
11" x 17" (DLT)	Y	Y*2	-	Y*2
11" x 15"	-	γ*2	-	-

^{* 1:} Use SP4-303 to detect original sizes as A5 lengthwise/HLT when the message "Can-t detect original size" shows.

^{*2:} The machine can detect the paper size depending on the setting of SP6-016-1.

^{*3:} The machine can detect the paper size depending on the setting of SP4-305-1.

^{*4:} The machine can detect the paper size depending on the setting of SP5-126-1.

Software Accessories

The printer drivers and utility software are provided as following two CD-ROMs

- 1: Printer Drivers and Utilities CD-ROM
- 2: Scanner/PostScript® Drivers and Utilities CD-ROM.

An auto-run installer lets you to select the components you want to install.

Printer Drivers

Printer Language	Windows 2000, XP, Server 2003, Vista, Server 2008, 7	MacOS8.6 to 9.x, MacOSX10.1 or later
PCL5c / PCL6	Yes	No
PS3	Yes	Yes
RPCS	No	No



- The PCL5c/6 and PS3 drivers are provided on the printer drivers CD-ROM
- The PS3 drivers are all genuine Adobe PS drivers, except for Windows 2000/XP/2003/Vista/7.
 Windows 2000 uses Microsoft PS. A PPD file for each operating system is provided with the driver.
- The PPD installer for Macintosh supports Mac OS X 10.1 or later versions.
- 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. (These require the optional fax unit.)

Scanner and LAN Fax drivers

Printer Language	Windows 2000, XP, Server 2003, Vista, 7	MacOS8.6 to 9.x, MacOSX10.1 or later
Network TWAIN	Yes	No
LAN-FAX	Yes	No

- UNote
 - The Network TWAIN and LAN Fax drivers are provided on the scanner drivers CD-ROM.
 - This software lets you fax documents directly form your PC. Address Book Editor and Cover Sheet Editor are to be installed as well. (These require the optional fax unit.)

Utility Software

Software	Description
Font Manager (2000/XP/Server 2003/7)	A font management utility with screen fonts for the printer This is provided on the printer drivers CD-ROM
Smart Device Monitor for Admin (2000/XP/Server 2003/Vista/7)	A printer management utility for network administrators. NIB setup utilities are also available. This is provided on the printer drivers CD-ROM
DeskTopBinder – SmartDeviceMonitor for Client (2000/XP/Server 2003/ Vista/7)	A printer management utility for client users. A utility for peer-to-peer printing over a NetBEUI or TCP/IP network. A peer-to-peer print utility over a TCP/IP network. This provides the parallel printing and recovery printing features. This is provided on the printer drivers CD-ROM
Printer Utility for Mac (Mac)	A utility for peer-to-peer printing over a NetBEUI or TCP This software provides several convenient functions for printing from Macintosh clients. This is provided on the scanner drivers CD-ROM
DeskTopBinder Lite (2000/XP/Server 2003/7)	DeskTopBinder Lite itself can be used as personal document management software and can manage both image data converted from paper documents and application files saved in each client's PC. This is provided on the scanner drivers CD-ROM

Optional Equipment

ARDF (D541)

5	1				
D C: 04/:-1:	S:	Size	A3 to A5	5, DLT to HLT	
	Simplex	Weight	40 to 12	28 g/m² (10 to 34 lb.)	
Paper Size/Weight:		Size	A3 to A5, DLT to HLT		
	Duplex	Weight	52 to 105 g/m ² (14 to 28 lb.)		
Table Capacity:	50 sheets (80 g/m ² , 20	lb)		
Original Standard Position:	Rear left co	rner			
Separation:	Feed belt a	nd separation	roller		
Original Transport:	Roller transport				
Original Feed Order:	From the top original				
	Сору	-		32 to 200 %	
Supported Magnification Ratios:	_	Color		32.6 to 200 %	
	Fax	Black & white 48.9 to 200 %		48.9 to 200 %	
Power Source:	DC 24V, 5	5V from the scanner unit			
Power Consumption:	50 W or less				
Dimensions (W × D × H) :	550 mm x	491 mm x 120 mm (21.7" x 19.3" x 4.7")			
Weight:	10 kg (22 lb.)				

Paper Feed Unit (D537)

Paper Feed System:	FRR
Paper Height Detection:	5 steps (100%, 70%, 30%, 10% (Near end), and Empty)
Capacity:	500 sheets x 2 trays
Paper Weight:	60 to 256 g/m² (16 to 68 lb.)

Paper Size:	A3 SEF to A5, DLT SEF to HLT
Power Source:	DC 24V, 5V (from the main frame)
Power Consumption:	Less than 60 W (Max.)/ Less than 35 W (Ave,)
Dimensions (W x D x H):	580 mm x 620 mm x 260 mm (22.8" x 24.4" x 10.2")
Weight:	26 kg (57.3 lb.)

LCT 2000-sheet (D538)

Paper Size:	A4 LEF/LT LEF
Paper Weight:	60 g/m² to 256 g/m² (16 lb. to 68 lb.)
Tray Capacity:	2,000 sheets (80 g/m², 20lb.)
Remaining Paper Detection:	5 steps (100%, 70%, 30%, 10%, Empty): Right Tray 4 steps (100%, 70%, 30%, Empty): Left Tray
Power Source:	DC 24 V, 5 V (from copier/printer)
Power Consumption:	55 W (Max.)/30 W (Ave.)
Weight:	26 kg (57.3 lb.)
Size (W x D x H):	580 mm x 620 mm x 260 mm (22.8" x 24.4" x 10.2")

LCT 1200-sheet (D539)

Paper Size:	A4 LEF/ LT LEF/ B5 LEF
Paper Weight:	60 g/m ² to 216 g/m ² (16 lb to 57 lb.)
Tray Capacity:	1,200 sheets (80 g/m², 20lb)
Remaining Paper Detection:	5 steps (100%, 75%, 30%, 10%, End)
Power Source:	24 Vdc, 5 Vdc (from copier/printer)
Power Consumption:	55 W (Max)/ 25 W (Ave.)
Weight:	14 kg (30.8 lb.)

	348 mm x 540 mm x 290 mm	
Size (W x D x H):	(13.7" x 21.3" x 11.4")	

1000-Sheet Booklet Finisher & Punch Unit (B793)

	No punch mode:
	A3/11" x 17" to A5/8.5" x 5.5" (LEF)
	Punch mode:
	2 holes: A3/11" x 17" to B6/5.5" x 8.5" (SEF) or A4/8.5" x 11" to A5/8.5" x 5.5" (LEF) 3 holes:
Print Paper Size:	A3, B4, 11" x 17" (SEF) or A4, B5, 8.5" x 11" (LEF)
	4 holes (Europe):
	A3, B4, 11" x 17" (SEF) or A4, B5, 8.5" x 11" (LEF)
	4 holes (North Europe):
	A3/11" x 17" to B6/5.5" x 8.5" (SEF)
	Staple mode:
	A3/11" x 17" to B5/8.5" x 11"
	No punch mode:
	52 to 256 g/m ² (14 to 68 lb.) (Shift tray)
	52 to 105 g/m² (14 to 28 lb.) (Proof tray)
D 14/: 1.	Punch mode:
Paper Weight:	52 to 163 g/m² (14 to 43 lb.)
	Staple mode:
	64 to 90 g/m² (17 to 24 lb.)
	Label/Thick paper/OHP cannot be stapled
	[Proof tray]
	100 sheets: A4, 8.5" x 11" or less
T. 0	50 sheets: B4, 8.5" x 14" or more
Tray Capacity:	[Shift tray]
	1000 sheets: A4, 8.5" x 11" (LEF) or smaller
	500 sheets: B4, 8.5" x 14" or larger

Staple capacity:	Single size: 50 sheets: A4, 8.5" x 11" or smaller 30 sheets: B4, 8.5" x 14" or larger		
Staple position:	3 positions 1-staple: 2 positions (Top Left, Top Right) 2-staples: 1 positions		
Staple replenishment:	Cartridge (5000 staples)		
Power consumption:	60 W		
Dimensions (W x D x H):	535 mm x 600 mm x 930 mm (21.1" x 23.6" x 36.6")		
\\\/-:\.	Without punch unit:	48 kg (105.8 lb.)	
Weight	With punch unit:	50 Kg (110.3 lb.)	

1000-Sheet Finisher (B408)

Upper Tray

Paper Size:	A3 to A6 11" x 17" to 5.5" x 8.5"
Paper Weight:	60 to 157 g/m² (16 to 42 lb.)
	250 sheets (A4 LEF/8.5" x 11" SEF or smaller)
Paper Capacity:	50 sheets (A4, 8.5" x 11" or smaller)
	30 sheets (B4, 8.5" x 14" or larger)

Lower Tray

	No staple mode: A3 to B5, DLT to HLT
Paper Size:	Staple mode:
	A3, B4, A4, B5, DLT to LT

Paper Weight:	No staple mode: 60 to 157 g/m² (16 to 42 lb) Staple mode: 64 to 90 g/m² (17 to 24 lb)			
Stapler Capacity:	30 sheets (A3, B4, DLT, LG) 50 sheets (A4, B5 LEF, LT)			
	No staple mode: 1,000 sheets (A4/LT or smaller: 80 g/m², 20 lb.) 500 sheets (A3, B4, DLT, LG: 80 g/m², 20 lb.) Staple mode: (80 g/m², 20 lb., number of sets)			
	Set Size	24.0	10 to 50	-
Paper Capacity:	Size	2 to 9	10 to 30	31 to 50
	A4/LT LEF B5 LEF	100	100 to 20	100 to 20
	A4/LT SEF	100	50 to 10	50 to 10
	A3, B4, DLT, LG	50	50 to 10	-
Staple positions:	1 Staple: 2 positions (Front, Rear) 2 Staples: 2 positions (Upper, Left)			
Staple Replenishment:	Cartridge (5,000 staples/cartridge)			
Power Source:	DC 24 V, 5 V (from the copier/printer)			
Power Consumption:	50 W			
Weight:	25 kg (55.2 lbs)			
Dimensions (W x D x H):	527 x 520 x 790 mm (20.8" x 20.5" x 31.1")			

500-Sheet Finisher (D372)

Paper Size:	A3 to B6 (SEF)
Paper Weight:	52 to 128 g/m² (14 to 34 lb.)
Tray Capacity:	500 sheets: A4, LT or smaller
Tray Capacity.	250 sheets: B4, LG or larger

Staple capacity:	30 sheets (A3, B4, DLT, LG) 50 sheets (A4, LT or smaller)
Staple position:	3 positions 1-staple: 2 positions (Top right-oblique, Top left-oblique) 2-staples: 1 positions (Left)
Staple replenishment:	Cartridge (5000 staples)

500-Sheet Finisher

T C . I	77 /		
Target Line Speed	77 mm/sec. to 205 mm/sec		
Target CPM	35 cpm		
	12"x18", A3 SEF to A6 S	SEF, DLT to HLT SEF	
Face-down Output Size	Shift sizes: A3 SEF to B5	SEF	
	A5, B6, A6 SEF labels po	ossible	
D. TI.I	52 g/m² (45 K) to 157 g	g/m² (135 K)	
Paper Thickness	Up to 253 g/m 2 (220K)	without shift	
Stapling			
Stack Height for Stapling	50 sheets: A4, LT and sm	aller	
Stack Height for Stapling	30 sheets: B4, LG and la	rger	
Size	A3 SEF to B5 SEF (can be	e mixed if same wic	lth)
Stack Thickness	$64g/m^2$ (45 K) to 157 g	/m (135 K)	
Campling Desiring	Front/Oblique: 1, Front/	Parallel: 1	
Stapling Positions	Rear/Oblique: 1, Rear/Parallel: 1, 2 locations		
Output Tray Capacity			
Non-staple Mode	de 500 sheets: A4, LT and smaller		
Staple Mode	250 sheets: B4, LG and larger Stack Size (Stapling)	Stacks	Size

2 to 9 Sheets	55 to 46	- A4, B5, LT LEF
10 to 50 Sheets	45 to 10	
2 to 9 Sheets	55 to 27	AA DE IT CEE
10 to 50 Sheets	25 to 8	- A4, B5, LT SEF
2 to 9 Sheets	55 to 27	A2 D4 DIT IC
10 to 30 Sheets	25 to 8	A3, B4, DLT, LG
Non-Stapling Mode	Vertical: 15 mm	or less
	Horizontal: 15 r	mm or less
2 mm		
3 mm		
396 x 551 x 276 mm (15.6 x 21.7 x 10.9 in.)		
12 kg (26.4 lb)		
	10 to 50 Sheets 2 to 9 Sheets 10 to 50 Sheets 2 to 9 Sheets 10 to 30 Sheets Non-Stapling Mode 2 mm 3 mm 396 x 551 x 276 mm (10 to 50 Sheets

Bridge Unit (D386)

	Standard sizes
	A6 SEF to A3, HLT to DLT
Paper Size:	Non-standard sizes
	Width: 90 to 305 mm
	Length: 148 to 600 mm
Paper Weight:	52 g/m ² to 256 g/m ² , 16 lb. to 68 lb.
Paper Capacity:	125 sheets (80 g/m ² , 20 lb.): B4 or larger 250 sheets (80 g/m ² , 20 lb.): A4 or smaller
Power Source:	DC 24 V, 5 V (form the copier/printer)
Dimensions (W x D x H):	415 mm x 412 mm x 111 mm (16.3" x 16.2" x 4.4")
Weight	5 kg (11 lb.)

Shift Tray (D388)

Paper Capacity:	250 sheet (A4/ $8_{1/2}$ " x $11_{1/2}$ " or smaller: $80g/m^2/20$ lbs) 125 sheet (B4 $8_{1/2}$ " x $11_{1/2}$ " or larger: $80g/m^2/20$ lbs)
Paper Size:	Standard sizes A6 SEF to A3, HLT to DLT Non-standard sizes Width: 90 to 305 mm Length: 148 to 600 mm
Paper Weight:	52-256 g/m ² / 14 - 68 lbs
Power Consumption:	Max 10W (Power is supplied from the mainframe.)
Dimension (W x D x H):	423 mm x 468 mm x 114 mm (16.7" x 18.4" x 4.5")
Weight:	Approx. 2kg (4.4lbs)

1-bin Tray Unit (D536)

Paper Size:	Standard Size: A3 /DLT to A5/ HLT SEF			
Paper Weight:	60 to 169 g/m², 16 to 45 lb.			
Tray Capacity:	125 sheets (80 g/m², 20 lb., A4)			
Power Source:	DC 24 V, 5 V (from the copier)			
Power Consumption:	Less than 1 W			
Weight:	1.7 kg			
Size (W x D x H):	565 mm x 410 mm x 115 mm (22.2" x 16.1" x 4.5")			

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2. Appendix: Preventive Maintenance Tables

Maintenance Tables

Preventive Maintenance Items

Chart: A4 (LT)/5%

Mode: 3 copies / original (prints/job)

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

Mainframe

Item	150K	200K	300K	450K	EM	Remarks
Scanner		,	,			
Reflector		С				Optics cloth
1 st/2nd/3rd mirrors		С				Optics cloth
Front and Rear Rails		С				Dry cloth
Exposure Glass		С			С	Dry cloth; alcohol
ADF Exposure Glass		С			С	Dry cloth; alcohol
APS Sensor		С				Dry cloth
PCDU						
Dev. Unit-K					R: 600K	
Dev. Unit- C, M, Y					R	
Drum Unit-K,		R				
Drum Unit-C, M, Y					R	

ltem	150K	200K	300K	450K	EM	Remarks
Developer-K			R			
Developer-C, M, Y					R	
Transfer	ı	1		ı	ı	
Image Transfer Belt- cleaning Unit		R				
Image Transfer Belt Unit					R: 600K	
Paper Transfer Roller Unit			R			
Toner Collection Bottle	R: 150K					
Fusing						
Heating Roller			R			
-Bearing			R/L			S552R
Pressure Roller			R			
-Bearing			R/L			S552R
Entrance guide plate			С			
Exit guide plate			С			
Exit separate plate			С			
Thermopile			С			Cotton swab with alcohol
Paper Path						
Registration Roller					С	Damp cloth
Registration Sensor					С	Dry cloth
Vertical Transport Roller					С	Damp cloth
Vertical Transport Sensor					С	Dry cloth
Paper Feed Sensor					С	Dry cloth
Pick-up Belt					С	Dry cloth

ltem	150K	200K	300K	450K	EM	Remarks
Feed Roller					С	Dry cloth
Separation Roller					С	Dry cloth
Fusing Entrance Sensor					С	Dry cloth
Fusing Exit Sensor					С	Dry cloth
Paper Dust Container	С				С	
Duplex Unit	1	1				
Inverter Roller					С	Damp cloth
Transport Roller					С	Damp cloth
Duplex Entrance Sensor					С	Dry cloth
Duplex Exit Sensor					С	Dry cloth
Miscellaneous			,			
Ozone Filter		R				
Exhaust Filter		R				
Dust Glass					С	
ID Sensor					С	Blower Brush

^{* 1:} Clean this thermistor only when it gets paper dust.

ARDF (D541)

ltem	120K	EM	Remarks
Sensors		С	Blower brush
Platen Sheet Cover		С	Damp cloth; alcohol (Replace if required.)
White Plate		С	Dry or damp cloth
Drive Gear		L	Grease G501
Transport Roller		С	Damp cloth; alcohol

ltem	120K	EM	Remarks
Exit Roller		С	Damp cloth; alcohol
Inverter Roller		С	Damp cloth; alcohol
Idle Rollers		С	Damp cloth; alcohol

Two-tray Paper Feed Unit (D537)

ltem	EM	Remarks
Feed Roller	С	Dry cloth
Separation Roller	С	Dry cloth
Pick-up Belt	С	Dry cloth
Paper Feed Sensor	С	Dry cloth
Relay Sensor	С	Dry cloth
Relay Roller	С	Damp cloth
Bottom Plate Pad	С	Damp cloth

1200-sheet LCT (D539)

Item	EM	Remarks
Feed Roller	С	Dry cloth
Separation Roller	С	Dry cloth
Pick-up Roller	С	Dry cloth
Paper Feed Sensor	С	Dry cloth
Relay Sensor	С	Dry cloth
Relay Roller	С	Damp cloth
Bottom Plate Pad	С	Damp cloth

2000-sheet LCT (D538)

ltem	EM	Remarks
Feed Roller	С	Dry cloth
Separation Roller	С	Dry cloth
Pick-up Belt	С	Dry cloth
Paper Feed Sensor	С	Dry cloth
Relay Sensor	С	Dry cloth
Relay Roller	С	Damp cloth
Bottom Plate Pad	С	Damp cloth

1000-Sheet Booklet Finisher (B793)

Items	EM	Remarks
Rollers	С	Damp cloth
Discharge Brush	С	Dry cloth
Sensors	С	Blower brush

1000-Sheet Booklet Finisher Punch Kit (B807)

Items	EM	Remarks
Punch Chads	С	Discard chads.

1000-Sheet Finisher (B408)

Items	EM	Remarks
Rollers	С	Damp cloth
Discharge Brush	С	Dry cloth
Sensors	С	Blower brush

1 Bin Tray (D536)

Items	EM	Remarks
Rollers	С	Damp cloth
Tray	С	Damp cloth
Sensor	С	Blower brush
Bearing	С	S552R

Bridge Unit (D386)

Items	EM	Remarks
Rollers	С	Damp cloth

Shift Tray (D388)

Items	EM	Remarks
Tray	С	Damp cloth

One-tray Paper Feed Unit (D387)

ltem	EM	Remarks
Feed Roller	С	Dry cloth
Separation Roller	С	Dry cloth
Pick-up Roller	С	Dry cloth
Paper Feed Sensor	С	Dry cloth
Relay Sensor	С	Dry cloth
Relay Roller	С	Damp cloth
Bottom Plate Pad	С	Damp cloth

Side Tray (D542)

Items	EM	Remarks
Rollers	С	Damp cloth
Sensors	С	Blower brush

Others 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, P/J, and C/O). So, these parts are categorized not as PM parts but as yield parts (EM parts).

Mainframe

ltem	120K	240K	480K	600K	Remarks
Dev. Unit-C, M, Y			R		
Developer- C, M, Y		R			
ITB Unit				R	

ARDF

ltem	80K	120K	240K	Remarks
Pick-up Roller	R			Number of originals
Feed Belt	R			Number of originals
Separation Roller	R			Number of originals

3. Appendix: SP Mode Tables

System SP1-xxx

SP1-XXX (Feed)

1001	[Leading Edge Registration] Leading Edge Registration Adjustment (Tray Location, Paper Type, Color Mode), Paper Type -> Plain, Thick 1 or Thick 2 Adjusts the leading edge registration by changing the registration motor operation timing		
	for each mode.	I	
002	Tray: Plain	*ENG	
003	Tray: Middle Thick	*ENG	
004	Tray: Thick 1	*ENG	
005	Tray: Thick 2	*ENG	
007	By-pass: Plain	*ENG	[-9 to 9 / 0.0 / 0.1 mm/step]
008	By-pass: Middle Thick	*ENG	
009	By-pass: Thick 1	*ENG	
010	By-pass: Thick 2	*ENG	
011	By-pass: Thick 3	*ENG	

013	Duplex: Plain	*ENG	
014	Duplex: Middle Thick	*ENG	
015	Duplex: Thick 1	*ENG	
016	Tray: Thick 3	*ENG	
017	Tray: Plain:1200	*ENG	
018	Tray: Middle Thick:1200	*ENG	
019	Tray: Thick 1:1200	*ENG	[-9 to 9 / 0.0 / 0.1 mm/step]
020	By-pass: Plain: 1200	*ENG	
021	By-pass: Middle Thick:1200	*ENG	
022	By-pass: Thick 1:1200	*ENG	
023	Duplex: Plain:1200	*ENG	
024	Duplex: Middle Thick: 1200	*ENG	
025	Duplex: Thick 1:1200	*ENG	

	[Side to Side Reg.] Side-to-Side Registration Adjustment			
1002	Adjusts the side-to-side registration by changing the laser main scan start position for each mode.			
001	By-pass Table	*ENG		
002	Paper Tray 1	*ENG		
003	Paper Tray 2	*ENG		
004	Paper Tray 3	*ENG	[-4 to 4 / 0.0 / 0.1 mm/step]	
005	Paper Tray 4	*ENG	[-4 10 4 / 0.0 / 0.1 mm/step]	
006	Duplex	*ENG		
007	Paper Tray 5	*ENG		
008	Large Capacity Tray	*ENG		

	[Paper Buckle] Paper Buckle Adjustr	ment			
1003	(Tray Location, Paper Type), Paper Type: N: Normal, TH: Thick				
1000	Adjusts the amount of paper buckle timing.	at the regis	stration roller by changing the paper feed		
002	Paper Tray 1: Plain	*ENG	[-9 to 5 / -2 / 1 mm/step]		
003	Tray 1: Middle Thick	*ENG	[-9 to 5 / -1 / 1 mm/step]		
004	Paper Tray 1: Thick 1	*ENG	[0, 5 / 2 / 1 /]		
007	Paper Tray2/3/4/5/LCT: Plain	*ENG	[-9 to 5 / -2 / 1 mm/step]		
008	Tray 2/3/4/5/LCT: Middle Thick	*ENG	[-9 to 5 / -1 / 1 mm/step]		
009	Paper Tray2/3/4/5/LCT: Thick 1	*ENG	[-9 to 5 / -2 / 1 mm/step]		
012	By-pass: Plain	*ENG	[0 + 5 / 0 / 1 / +]		
013	By-pass: Middle Thick	*ENG	[-9 to 5 / 0 / 1 mm/step]		
014	By-pass: Thick 1	*ENG	[-9 to 5 / -2 / 1 mm/step]		
018	Duplex: Plain	*ENG	[0 + 5 / 0 / 1 /-+]		
019	Duplex: Middle Thick	*ENG	[-9 to 5 / 0 / 1 mm/step]		
020	Duplex: Thick 1	*ENG	[-9 to 5 / -2 / 1 mm/step]		
021	Paper Tray 1: Plain: 1200	*ENG			
022	Tray1: Middle Thick: 1200	*ENG			
023	Tray 2/3/4/5LCT: Plain: 1200	*ENG	[0 + 5 / 0 /] /]		
024	Tray 2/3/4/5LCT: Mid: 1200	*ENG	[-9 to 5 / 0 / 1 mm/step]		
025	By-pass: Plain: 1200	*ENG			
026	By-pass: Middle Thick: 1200	*ENG			
030	Duplex: Plain: 1200	*ENG	[0 + 5 / 0 / 1 / +]		
031	Duplex: Middle Thick: 1200	*ENG	[-9 to 5 / 0 / 1 mm/step]		

1007	[By-Pass Size Detection] By-Pass Size Detection Display
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	001	LG	*ENG	[0 or 1 / 0 / 1] 0: OFF, 1: ON	
00		Enables or disables the automatic paper size detection function of the by-pass tray.			
		This SP determines what paper size the machine detects if the detected size is less than 8.5".			
0: OFF (Letter/SEF), 1: ON (Legal/SEF)					

1101	[Reload Permit Setting]				
1101	Specifies the settings of the reload permit for cold temperature in color mode.				
001	Pre-rotation Start Temp.	*ENG	[0 to 200 / 0 / 1 deg/step]		
001	Specifies the pre-rotation start	temperatur	e.		
002	Reload Target Temp.:Center	*ENG	[120 to 180 / 150 / 1 deg/step]		
002	Specifies the reload target tem	perature of	the heating roller.		
003	Reload Target Temp.:Press	*ENG	[0 to 200 / 120 / 1 deg/step]		
003	Specifies the reload target tem	perature of	the pressure roller.		
	Temp.:Delta:Cold:Center	*ENG	[0 to 200 / 5 / 1 deg/step]		
004	Specifies the temperature correction of the heating roller (center) when the fusing unit is determined as cold state.				
	Temp.:Delta:Cold:End	*ENG	[40 to 200 / 100 / 1 deg/step]		
005	Specifies the temperature correction of the heating roller (end) when the fusing unit is determined as cold state.				
	Temp.:Delta:Cold:Press	*ENG	[0 to 200 / 65 / 1 deg/step]		
006	Specifies the temperature correction of the pressure roller when the fusing unit is determined as cold state.				
	Time:Cold	*ENG	[0 to 100 / 30 / 1 sec/step]		
007	Specifies the threshold time for the fusiing reload when the fusing unit is determined as cold state.				
	Temp.:Delta:Warm:Center	*ENG	[0 to 200 / 5 / 1 deg/step]		
800	Specifies the temperature correction of the heating roller (center) when the fusing unit is determined as warm state.				

	Temp.:Delta:Warm:End	*ENG	[40 to 200 / 100 / 1 deg/step]		
009	Specifies the temperature correction of the heating roller (end) when the fusing unit is determined as warm state.				
	Temp.:Delta:Warm:Press	*ENG	[0 to 200 / 65 / 1 deg/step]		
010	Specifies the temperature corre	ection of the	e pressure roller when the fusing unit is determined		
	Time:Warm	*ENG	[0 to 100 / 30 / 1 sec/step]		
011	Specifies the threshold time for state.	the fusing r	reload when the fusing unit is determined as warr		
	Temp.:Delta:Hot:Center	*ENG	[0 to 200 / 5 / 1 deg/step]		
012	Specifies the temperature corredetermined as hot state.	ection of the	e heating roller (center) when the fusing unit is		
	Temp.:Delta:Hot:End	*ENG	[40 to 200 / 100 / 1 deg/step]		
013	Specifies the temperature correction of the heating roller (end) when the fusing unit is determined as hot state.				
	Temp.:Delta:Hot:Press	*ENG	[0 to 200 / 65 / 1 deg/step]		
014	Specifies the temperature correction of the pressure roller when the fusing unit is determined as hot state.				
	Time:Hot	*ENG	[0 to 100 / 30 / 1 sec/step]		
015	Specifies the threshold time for the fusing reload when the fusing unit is determined as hot state.				
	Temp.:Delta:Cold:BW:Center	*ENG	[0 to 200 / 15 / 1 deg/step]		
016	Specifies the temperature correction of the heating roller (center) in the black and white mode when the fusing unit is determined as cold state.				
	Temp.:Delta:Cold:BW:End	*ENG	[40 to 200 / 100 / 1 deg/step]		
Specifies the temperature co			e heating roller (end) in the black and white moc state.		
	Temp.Delta:Cold:BW:Press	*ENG	[0 to 200 / 70 / 1 deg/step]		
018	Specifies the temperature correction of the pressure roller in the black and white mode when the fusing unit is determined as cold state.				

	Time:Cold:BW	*ENG	[0 to 100 / 30 / 1 sec/step]		
019	Specifies the threshold time for the fusing reload in black and white mode when the fusing unit is determined as cold state.				
020	Temp.:Delta:Cold:BW2:Cent	*ENG	[0 to 200 / 15 / 1 deg/step]		
020	Specifies the temperature correction of the heating roller (center) in the black and white mode when the fusing unit is determined as warm state.				
	Temp.:Delta:Cold:BW2:End	*ENG	[40 to 200 / 100 / 1 deg/step]		
021	Specifies the temperature correction of the heating roller (end) in the black and white mode when the fusing unit is determined as warm state.				
	Temp.Delta:Cold:BW2:Press	*ENG	[0 to 200 / 100 / 1 deg/step]		
022	Specifies the temperature correction of the pressure roller in the black and white mode when the fusing unit is determined as warm state.				
	Time:Cold:BW2	*ENG	[0 to 100 / 30 / 1 sec/step]		
023	Specifies the threshold time for the fusing reload in black and white mode when the fusing unit is determined as warm state.				

1102	[Feed Permit Setting]					
1102	Specified the settings of the paper feeding timing.					
	Temp.:Lower Delta:Center	*ENG	[0 to 200 / 15 / 1 deg/step]			
001	Specifies the subtractive temperature of the heating roller (center) for the paper feed permission.					
002	Temp.:Lower Delta:End	*ENG	[0 to 200 / 100 / 1 deg/step]			
002	Specifies the subtractive temperature of the heating roller (end) for the paper feed permission.					
	Temp.:Upper Delta:Center	*ENG	[0 to 200 / 100 / 1 deg/step]			
003	Specifies the additional temperature of the heating roller (center) for the paper feed permission.					
00.4	Temp.:Upper Delta:End	*ENG	[0 to 200 / 100 / 1 deg/step]			
004	Specifies the additional temperature of the heating roller (end) for the paper feed permission.					

005	Temp.:Lower Delta:Press	*ENG	[0 to 200 / 100 / 1 deg/step]		
005	Specifies the subtractive temperature of the pressure roller for the paper feed permission.				
006	Rotation Time	*ENG	[0 to 100 / 0 / 1 sec/step]		
000	Specifies the threshold time of t	he pre-roto	ation for the paper feed permission.		
007	Temp.:Lower Delta:Center:Sp.1	*ENG	[0 to 200 / 5 / 1 deg/step]		
800	Temp.:Lower Delta:End:Sp.1	*ENG	[0 to 200 / 100 / 1 deg/step]		
009	Temp.:Upper Delta:Center:Sp.1	*ENG	[0 to 200 / 100 / 1 deg/step]		
010	Temp.:Upper Delta:End:Sp. 1	*ENG	[0 to 200 / 100 / 1 deg/step]		
011	Temp.:Lower Delta:Press:Sp.1	*ENG	[0 to 200 / 60 / 1 deg/step]		
012	Rotation Time:Sp.1	*ENG	[0 to 200 / 0 / 1 sec/step]		
013	Temp.:Lower Delta:Center:Sp.2	*ENG	[0 to 200 / 5 / 1 deg/step]		
014	Temp.:Lower Delta:End:Sp.2	*ENG	[0 to 200 / 100 / 1 deg/step]		
015	Temp.:Upper Delta:Center:Sp.2	*ENG	[0 to 200 / 15 / 1 deg/step]		
016	Temp.:Upper Delta:End:Sp.2	*ENG	[0 to 200 / 100 / 1 deg/step]		
017	Temp.:Lower Delta:Press:Sp.2	*ENG	[0 to 200 / 100 / 1 deg/step]		
018	Rotation Time:Sp2	*ENG	[0 to 100 / 0 / 1 sec/step]		
019	Feed Permit Time	*ENG	[0 to 200 / 120 / 1 sec/step]		

1105	[Print Target Temp]		
	(Printing Mode, Roller Type, [Color], Simplex/Duplex) Roller Type -> Center and Ends: Heating roller, Pressure -> Pressure roller Paper Type -> Plain, Thin, Thick, OHP, Middle Thick, Special		
001	Plain 1:FC:Center	*ENG	[120 to 200 / 155 / 1 deg/step]
001	Specifies the heating roller target temperature for the ready condition in full color printing.		

	Plain 1:FC:Press	*ENG	[100 to 200 / 120 / 1 deg/step]		
002			ature for the ready condition in full color printing		
	Plain1:BW:Center	*ENG	[120 to 200 / 145 / 1 deg/step]		
003					
		get temperc	ature for the ready condition in BW printing.		
004	Plain 1:BW:Press	*ENG	[100 to 200 / 120 / 1 deg/step]		
	Specifies the pressure roller tar	get temper	ature for the ready condition in BW printing.		
005	Plain2:FC:Center	*ENG	[120 to 200 / 160 / 1 deg/step]		
003	Specifies the heating roller targ	get tempero	ature for the ready condition in full color printing.		
006	Plain2:FC:Press	*ENG	[100 to 200 / 120 / 1 deg/step]		
000	Specifies the pressure roller target temperature for the ready condition in full coloe printing.				
007	Plain2:BW:Center	*ENG	[120 to 200 / 150 / 1 deg/step]		
007	Specifies the heating roller targ	get tempero	ature for the ready condition in BW printing.		
000	Plain2:BW:Press	*ENG	[100 to 200 / 120 / 1 deg/step]		
008	Specifies the pressure roller target temperature for the ready condition in BW printing.				
009	Thin:FC:Center	*ENG	[120 to 200 / 150 / 1 deg/step]		
010	Thin:FC:Press	*ENG	[100 to 200 / 120 / 1 deg/step]		
011	Thin:BW:Center	*ENG	[120 to 200 / 140 / 1 deg/step]		
012	Thin:BW:Press	*ENG	[100 to 200 / 120 / 1 deg/step]		
013	M-thick:FC:Center	*ENG	[120 to 200 / 165 / 1 deg/step]		
014	M-thick:FC:Press	*ENG	[100 to 200 / 120 / 1 deg/step]		
015	M-thick:BW:Center	*ENG	[120 to 200 / 155 / 1 deg/step]		
016	M-thick:BW:Press	*ENG	[100 to 200 / 120 / 1 deg/step]		
017	Thick1:FC:Center	*ENG	[120 to 200 / 155 / 1 deg/step]		
018	Thick 1:FC:Press	*ENG	[100 to 200 / 120 / 1 deg/step]		
019	Thick1:BW:Center	*ENG	[120 to 200 / 145 / 1 deg/step]		
020	Thick 1:BW:Press	*ENG	[100 to 200 / 120 / 1 deg/step]		
			3. 1.		

021	Thick2:FC:Center	*ENG	[120 to 200 / 165 / 1 deg/step]
022	Thick2:FC:Press	*ENG	[100 to 200 / 120 / 1 deg/step]
023	Thick2:BW:Center	*ENG	[120 to 200 / 155 / 1 deg/step]
024	Thick2:BW:Press	*ENG	[100 to 200 / 120 / 1 deg/step]
025	Thick3:FC:Center	*ENG	[120 to 200 / 170 / 1 deg/step]
025	Thick3:FC:Press	*ENG	[100 to 200 / 120 / 1 deg/step]
027	Thick3:BW:Center	*ENG	[120 to 200 / 160 / 1 deg/step]
028	Thick3:BW:Press	*ENG	[100 to 200 / 120 / 1 deg/step]
029	Special 1:FC:Center	*ENG	[120 to 200 / 160 / 1 deg/step]
030	Special 1:FC:Press	*ENG	[100 to 200 / 120 / 1 deg/step]
031	Special1:BW:Center	*ENG	[120 to 200 / 150 / 1 deg/step]
032	Special 1:BW:Press	*ENG	[100 to 200 / 120 / 1 deg/step]
033	Special2:FC:Center	*ENG	[120 to 200 / 155 / 1 deg/step]
034	Special2:FC:Press	*ENG	[100 to 200 / 120 / 1 deg/step]
035	Special2:BW:Center	*ENG	[120 to 200 / 145 / 1 deg/step]
036	Special2:BW:Press	*ENG	[100 to 200 / 120 / 1 deg/step]
037	Special3:FC:Center	*ENG	[120 to 200 / 165 / 1 deg/step]
038	Special3:FC:Press	*ENG	[100 to 200 / 120 / 1 deg/step]
039	Special3:BW:Center	*ENG	[120 to 200 / 155 / 1 deg/step]
040	Special3:BW:Press	*ENG	[100 to 200 / 120 / 1 deg/step]
041	Envelop:Center	*ENG	[120 to 200 / 180 / 1 deg/step]
042	Envelop:Press	*ENG	[100 to 200 / 120 / 1 deg/step]
101	Plain 1:FC:Center:Low Speed	*ENG	[120 to 200 / 135 / 1 deg/step]
102	Plain 1:FC:Press:Low Speed	*ENG	[100 to 200 / 120 / 1 deg/step]
103	Plain 1:BW:Center:Low Speed	*ENG	[120 to 200 / 135 / 1 deg/step]

123	Special2:BW:Center:Low Speed	*ENG	[120 to 200 / 145 / 1 deg/step]
124	Special2:BW:Press:Low Speed	*ENG	[100 to 200 / 120 / 1 deg/step]
125	Plain 1:Glossy:Center	*ENG	[120 to 200 / 140 / 1 deg/step]
126	Plain 1:Glossy:Press	*ENG	[100 to 200 / 120 / 1 deg/step]
127	Plain2:Glossy:Center	*ENG	[120 to 200 / 145 / 1 deg/step]
128	Plain2:Glossy:Press	*ENG	[100 to 200 / 120 / 1 deg/step]
129	M-thick:Glossy:Center	*ENG	[120 to 200 / 150 / 1 deg/step]
130	M-thick:Glossy:Press	*ENG	[100 to 200 / 120 / 1 deg/step]
131	OHP:Center	*ENG	[120 to 200 / 150 / 1 deg/step]
132	OHP:Press	*ENG	[100 to 200 / 120 / 1 deg/step]
133	Envelop:Center:Low Speed	*ENG	[120 to 200 / 170 / 1 deg/step]
134	Envelop:Press:Low Speed	*ENG	[100 to 200 / 120 / 1 deg/step]
135	Thin:FC:Center:Low Speed	*ENG	[120 to 200 / 135 / 1 deg/step]
136	Thin:FC:Press:Low Speed	*ENG	[100 to 200 / 120 / 1 deg/step]
137	Thin:BW:Center:Low Speed	*ENG	[120 to 200 / 130 / 1 deg/step]
138	Thin:BW:Press:Low Speed	*ENG	[100 to 200 / 120 / 1 deg/step]
139	Thick4:FC:Center	*ENG	[120 to 200 / 175 / 1 deg/step]
140	Thick4:FC:Press	*ENG	[100 to 200 / 120 / 1 deg/step]
141	Thick4:BW:Center	*ENG	[120 to 200 / 165 / 1 deg/step]
142	Thick4:BW:Press	*ENG	[100 to 200 / 120 / 1 deg/step]

1106	[Fusing Temp. Display]		
001	Center	-	[-10 to 250 / - / 1 deg/step]
002	End	-	Displays the temperature of the heating roller.

003	Pressure	-	[-10 to 250 / - / 1 deg/step]
004	Pressure End	-	Displays the temperature of the heating roller.

1107	[Standby Target Temp. Setting]				
	Standby Heater Off Time	*ENG	[0 to 100 / 15 / 1 sec/step]		
001	Specifies the time that the fusing heater turns off after the fusing unit temperature has reached its target temperature.				
000	Stanby/Preheat1: Press	*ENG	[0 to 125 / 90 / 1 deg/step]		
002	Specifies the temperature of the pressure roller for the ready or energy save 1 mode.				
004	Preheat2:Press	*ENG	[0 to 125 / 90 / 1 deg/step]		
004	Specifies the temperature of the pressure roller for the energy save 2 mode.				
006	Low Power:Press	*ENG	[0 to 125 / 60 / 1 deg/step]		
000	Specifies the temperature of the pressure roller for the low power mode.				
007	Print Ready:Center	*ENG	[120 to 180 / 150 / 1 deg/step]		
007	Specifies the temperature of the heating roller for the print ready condition.				
000	Print Ready:Press	*ENG	[100 to 200 / 120 / 1 deg/step]		
008	Specifies the temperature of the pressure roller for the print ready condition.				

1108	[After Reload/Job Target Temp.]			
001	Center	*ENG	[120 to 180 / 150 / 1 deg/step]	
001	Specifies the temperature of the heating roller after re-load or job.			
002	Press	*ENG	[100 to 200 / 120 / 1 deg/step]	
002	Specifies the temperature of the pressure roller after re-load or job.			

1111	[Environment Correction:Fusing]		
	Temp.: Threshold: Low	*ENG	[0 to 100 / 17 / 1 deg/step]
001	Specifies the threshold temperature for low temperature. If the fusing temperature is 17°C or less, the machine executes the fusing mode for low temperature.		

	Temp.: Threshold: High	*ENG	[0 to 100 / 30 / 1 deg/step]		
002	Sepcifies the threshold temperature for high temperature. If the fusing temperature is 30°C or more, the machine executes the fusing mode for high temperature.				
	Low Temp. Correction	*ENG	[0 to 15 / 5 / 1 deg/step]		
003	Specifies the additional temperature for the target temperature. If the fusing temperature is in low temperature condition, this temperature is added to the taraget temperature.				
	High Temp. Correction	*ENG	[0 to 15 / 0 / 1 deg/step]		
004	Specifies the additional temperature for the target temperature. If the fusing temperature is in high temperature condition, this temperature is added to the taraget temperature.				
005	Job Low Temp. Correction	*ENG	[0 to 100 / 5 / 0.1 deg/step]		
006	Job High Temp. Correction	*ENG	[0 to 100 / 0 / 0.1 deg/step]		
007	Job Low Temp. Correction:Sp.	*ENG	[0 to 100 / 10 / 0.1 deg/step]		
008	Job High Temp. Correction:Sp.	*ENG	[0 to 100 / 0 / 0.1 deg/step]		

1112	[Repeat Temperature Correction]				
	Control Time 1	*ENG	[0 to 300 / 100 / 1 sec/step]		
001	Specifies the threshold time for entering the repeat temperature correction mode after the first sheet of paper has reached to the registration roller.				
	Control Time 2	*ENG	[0 to 300 / 300 / 1 sec/step]		
002	Specifies the threshold time for entering the repeat temperature correction mode after the control time 1 (specified with SP1112-001) has elapsed.				
	Temp.:Plain:Center:1	*ENG	[-15 to 15 / 0 / 0.1 deg/step]		
003	Specifies the correction temperature of the heating roller for plain paper when the operation time of the machine is in the interval between control time 1 and control time 2.				
	Temp.:Plain:Press:1	*ENG	[-10 to 10 / 0 / 0.1 deg/step]		
004	Specifies the correction temperature of the pressure roller for plain paper when the operation time of the machine is in the interval between control time 1 and control time 2.				

	Temp.:Plain:Center:2	*ENG	[-15 to 15 / -5 / 0.1 deg/step]		
005	Specifies the correction temperature of the heating roller for plain paper when the operation time of the machine is more than control time 2.				
	Temp.:Plain:Press:2	*ENG	[-10 to 10 / 0 / 0.1 deg/step]		
006	Specifies the correction temperature of the pressure roller for plain paper when the operation time of the machine is more than control time 2.				
	Temp.:M-thick:Center:1	*ENG	[-15 to 15 / -5 / 0.1 deg/step]		
007	Specifies the correction temperature of the heating roller for middle thick paper when the operation time of the machine is in the interval between control time 1 and control time 2.				
	Temp.:M-thick:Press:1	*ENG	[-10 to 10 / 0 / 0.1 deg/step]		
008	Specifies the correction temperature of the pressure roller for middle thick paper when the operation time of the machine is in the interval between control time 1 and control time 2.				
	Temp.:M-thick:Center:2	*ENG	[-15 to 15 / -5 / 0.1 deg/step]		
009	Specifies the correction temperature of the heating roller for middle thick paper when the operation time of the machine is more than control time 2.				
	Temp.:M-thick:Press:2	*ENG	[-10 to 10 / 0 / 0.1 deg/step]		
010	Specifies the correction temperature of the pressure roller for middle thick paper when the operation time of the machine is more than control time 2.				
	Temp.:Others:Center:1	*ENG	[-15 to 15 / 0 / 0.1 deg/step]		
011	Specifies the correction temperature of the heating roller for paper type other than plain and middle thick paper when the operation time of the machine is in the interval between control time 1 and control time 2.				
	Temp.:Others:Press: 1	*ENG	[-10 to 10 / 0 / 0.1 deg/step]		
012	Specifies the correction temperature of the pressure roller for other than palin and middle thick paper when the operation time of the machine is in the interval between control time 1 and control time 2.				
	[Image Processing Temp. Correct]				
	Temp.:Plain:Center: Level 1	*ENG	[-20 to 20 / 0 / 0.1 deg/step]		
013	Specifies the correction temperature for the level 1 of the job image control in black and white printing mode.				

	Temp.:Plain:Center: Level2	*ENG	[-20 to 20 / 0 / 0.1 deg/step]
014	Specifies the correction tempe white printing mode.	rature for t	he level 2 of the job image control in black and

113	[Curl Correction]				
	Execute Pattern	*ENG	[0 to 2 / 0 / 1 /step] 0: Off, 1: On (No Decurl), 2: On		
001	Selects the curl correction type				
	0: The curl correction is not do	ne.			
	1: The curl correction is done of	only when	paper is fed to the 1 bin tray.		
	2: The curl correction is always	done.			
002	Humidity:Threshold:M-humid	*ENG	[0 to 100 / 1 / 1 %/step]		
002	Specifies the threshold betwee	n low and	middle humidity.		
000	Humidity:Threshold:H-humid	*ENG	[0 to 100 / 65 / 1 %/step]		
003	Specifies the threshold between middle and high humidity.				
004	Permit Temp.:Delta:Press:M- humid	*ENG	[0 to 200 / 60 / 1 deg/step]		
	Specifies the threshold temperature for the curl control in middle humidity.				
005	Permit Temp.:Delta:Press:H- humid	*ENG	[0 to 200 / 50 / 1 deg/step]		
	Specifies the threshold temperature for the curl control in high humidity.				
006	Permit Temp.:Delta:Press:M- humid:No Decurl	*ENG	[0 to 200 / 50 / 1 deg/step]		
	Specifies the threshold temperature for the no curl control in middle humidity.				
007	Permit Temp.:Delta:Press:H- humid:No Decurl	*ENG	[0 to 200 / 40 / 1 deg/step]		
	Specifies the threshold temperature for the no curl control in high humidity.				

	CPM:M-humid	*ENG	[0 to 100 / 80 / 1 %/step]			
800	Specifies the CPM ratio of the decurl control against to the normal operation in middle humidity.					
009	CPM:H-humid	*ENG	[0 to 100 / 65 / 1 %/step]			
009	Specifies the CPM ratio of the decurl control against to the normal operation in high humidity.					
	CPM:M-humid:No Decurl	*ENG	[0 to 100 / 80 / 1 %/step]			
010	Specifies the CPM ratio against of the no decurl control to the normal operation in middle humidity.					
	CPM:H-humid:No Decurl	*ENG	[0 to 100 / 65 / 1 %/step]			
011	Specifies the CPM ratio against of the no decurl control to the normal operation in high humidity.					

1114	[Heat Storage Status]				
001	Temp.:Threshold:Press	*ENG	[0 to 200 / 80 / 1 deg/step]		
001	Specifies the threshold temperature of the pressure roller for the heat storage status.				
Temp.:Threshold:Atmospher e *ENG [0 to 200 / 60 / 1 deg/step]		[0 to 200 / 60 / 1 deg/step]			
	Specifies the threshold temperature inside the machine for the heat storage feedback control.				

	1115	[Target Temp. Correction]				
	001	Temp.:Delta:End	*ENG	[-100 to 100 / 0 / 1 deg/step]		
Specifies the different temperature between end and center of the		en end and center of the heating roller.				

1116	[Heat Storage FB Control]				
001	Execution mode Selects the heat storage FB co	*ENG	[0 to 2 / 1 / 1 /step] 0: OFF, 1: ON (BW), 2: ON (BW/FC)		
011	Time Out Specifies the no-entry time for		[0 to 500 / 5 / 1 sec/step] rorage FB control after the LD units have fired.		

021	Delay:Standard Speed:FC:1	*ENG	[0 to 20,000 / 3500 / 1 msec/step]		
022	Delay:Standard Speed:BW:	*ENG	[0 to 20,000 / 1400 / 1 msec/step]		
031	Delay:Standard Speed:FC:2	*ENG	[0 to 20,000 / 3500 / 1 msec/step]		
032	Delay:Standard Speed:BW: 2	*ENG	[0 to 20,000 / 1400 / 1 msec/step]		
0.41	Press Reference Temp.	*ENG	[0 to 200 / 80 / 1 deg/step]		
041	Specifies the standard temper	e pressure roller during the heat storage FB control.			
042	Temp. Correction Lower Limit	*ENG	[-30 to 0 / -2 / 1 deg/step]		
042	Specifies the lower llimit temperature for the heat storage FB control.				
043	Temp. Correction Upper Limit	*ENG	[0 to 30 / 0 / 1 deg/step]		
043	Specifies the upper llimit temperature for the heat storage FB control.				
051	Paper Thickness Coefficient:Plain1	*ENG	[0 to 100 / 20 / 1 /step]		
	Specifies the additional temperatreu to the heat strage FB control for plain paper 1.				
052	Paper Thickness Coefficient:Plain2	*ENG	[0 to 100 / 20 / 1 /step]		
	Specifies the additional temperatreu to the heat strage FB control for plain paper 2.				

1121	[Switch:Rotation Start/Stop]			
	Time:After Reload	*ENG	[0 to 100 / 60 / 1 sec/step]	
001	r lamp after the fusing temperature has reached			
	Time:After Recovery	*ENG	[0 to 100 / 15 / 1 sec/step]	
002	Specifies the ON time of the protection that the target temperature.	ressure role	r lamp after the fusing temperature has reached	
002	Time:After Job	*ENG	[0 to 100 / 0 / 1 sec/step]	
003	Specifies the ON time of the pr	ressure role	r lamp after the paper feeding has finished.	

	Press Temp.:After Reload	*ENG	[0 to 160 / 160 / 1 deg/step]		
004	Specifies the target temperature of the pressure roller center area after the fusing temperature has reached the reload temperature.				
	End Uniform Start Temp.:B4	*ENG	[0 to 250 / 200 / 1 deg/step]		
005	Specifies the target temperature has finished.	e of the pre	essure roller end arear after the B4 paper feeding		
	End Uniform Start Temp.:A4	*ENG	[0 to 250 / 185 / 1 deg/step]		
006	Specifies the target temperature of the pressure roller end arear after the A4 paper feeding has finished.				
	End Uniform Start Temp.:A5	*ENG	[0 to 250 / 170 / 1 deg/step]		
007	Specifies the target temperature of the pressure roller end arear after the A5 paper feeding has finished.				
000	Overshoot Prevent Temp.	*ENG	[0 to 250 / 220 / 1 deg/step]		
800	Specifies the temperature of the heating roller for the overshoot prevention.				
000	Overshoot Prevent Time	*ENG	[0 to 100 / 10 / 1 sec/step]		
009	Specifies the interval of the fusing unit rotation for the overshoot prevention.				

1122	[Standby Rotation Setting] DFU				
001	Rotation Interval	*ENG	[0 to 240 / 60 / 1 min/step]		
001	Specifies the rotation interval of the fusing unit in the stand-by mode.				
000	Rotation Time	*ENG	[0 to 60 / 0.7 / 0.1 sec/step]		
002	Specifies the rotation time of the fusing unit in the stand-by mode.				

1124	[CPM Down Setting]				
1124	Specifies the settings for the CPM down mode.				
	Low:Down Temp.	*ENG	[-50 to 0 / -20 / 1 deg/step]		
001	Specifies the CPM down threshold temperature for the low temperature condition. If the fusing temperature decreases -20°C (adjustable) below the target temperature, the machine enters the CPM down mode.				

	Lough Tomp	*ENG	[-50 to 0 / -15 / 1 deg/step]		
	Low:Up Temp.		5. 1.		
002	·		ture for the low temperature condition. If the fus a) below the target temperature, the machine en		
000	Low:1st CPM	*ENG	[10 to 100 / 80 / 5 %/step]		
003	Specifies the 1st CPM down ro	ıtion again	st the normal CPM in the low temperature conditi		
004	Low :2nd CPM	*ENG	[10 to 100 / 65 / 5 %/step]		
004	Specifies the 2nd CPM down re	ation agair	nst the normal CPM in the low temperature condit		
005	Low :3rd CPM	*ENG	[10 to 100 / 50 / 5 %/step]		
005	Specifies the 3rd CPM down ro	ation again	st the normal CPM in the low temperature conditi		
006	High:1st CPM	*ENG	[10 to 100 / 75 / 5 %/step]		
000	Specifies the 1st CPM down ra	tion agains	st the normal CPM in the high temperature conditi		
007	High:2nd CPM	*ENG	[10 to 100 / 50 / 5 %/step]		
007	Specifies the 3rd CPM down ration against the normal CPM in the high temperature condition.				
000	High:3rd CPM	*ENG	[10 to 100 / 25 / 5 %/step]		
800	Specifies the 1st CPM down ra	tion agains	st the normal CPM in the high temperature conditi		
009	High: 1 st CPM Down Temp.:A3	*ENG	[100 to 250 / 230 / 1 deg/step]		
	Specifies the heating roller temperature for 1st CPM down of A3 paper size.				
010	High:2nd CPM Down Temp.:A3	*ENG	[100 to 250 / 233 / 1 deg/step]		
	Specifies the heating roller ter	nperature f	for 2nd CPM down of A3 paper size.		
011	High:3rd CPM Down Temp.:A3	*ENG	[100 to 250 / 235 / 1 deg/step]		
	Specifies the heating roller ter	nperature f	for 3rd CPM down of A3 paper size.		
012	High: 1 st CPM Down Temp.:A4	*ENG	[100 to 250 / 180 / 1 deg/step]		
	Specifies the heating roller ter	nperature f	for 1st CPM down of A4 paper size.		

013	High:2nd CPM Down Temp.:A4	*ENG	[100 to 250 / 183 / 1 deg/step]		
	Specifies the heating roller temperature for 2nd CPM down of A4 paper size.				
014	High:3rd CPM Down Temp.:A4	*ENG	[100 to 250 / 185 / 1 deg/step]		
	Specifies the heating roller ten	nperature f	for 3rd CPM down of A4 paper size.		
015	High: 1 st CPM Down Temp.:B5:Press	*ENG	[100 to 250 / 175 / 1 deg/step]		
	Specifies the pressure roller te	mperature	for 1st CPM down of B5 paper size.		
016	High:2nd CPM Down Temp.:B5:Press	*ENG	[100 to 250 / 180 / 1 deg/step]		
	Specifies the pressure roller te	mperature	for 2nd CPM down of B5 paper size.		
017	High:3rd CPM Down Temp.:B5:Press	*ENG	[100 to 250 / 185 / 1 deg/step]		
	Specifies the pressure roller temperature for 3rd CPM down of B5 paper size.				
018	High: 1 st CPM Down Temp.:A5:Press	*ENG	[100 to 250 / 180 / 1 deg/step]		
	Specifies the pressure roller te	mperature	for 1st CPM down of A5 paper size.		
019	High:2nd CPM Down Temp.:A5:Press	*ENG	[100 to 250 / 185 / 1 deg/step]		
	Specifies the pressure roller temperature for 2nd CPM down of A5 paper size.				
020	High:3rd CPM Down Temp.:A5:Press	*ENG	[100 to 250 / 190 / 1 deg/step]		
	Specifies the pressure roller temperature for 3rd CPM down of A5 paper size.				
021	High: 1 st CPM Down Temp.:A6:Press	*ENG	[100 to 250 / 160 / 1 deg/step]		
	Specifies the pressure roller temperature for 1st CPM down of A6 paper size.				
022	High:2nd CPM Down Temp.:A6:Press	*ENG	[100 to 250 / 165 / 1 deg/step]		
	Specifies the pressure roller te	mperature	for 2nd CPM down of A6 paper size.		
	·				

023	High:3rd CPM Down Temp.:A6:Press	*ENG	[100 to 250 / 170 / 1 deg/step]		
	Specifies the pressure roller temperature for 3rd CPM down of A6 paper size.				
024	Judging Interval	*ENG	[0 to 250 / 5 / 1 sec/step]		
024	Specifies the interval for CPM down judgement.				

1131	[Continues Print Mode Switch]			
001	Feed Permit Condition	*ENG	[0 to 2 / 0 / 1 /step] 0: Productivity priority 1: Fusing quality priority 1 2: Fusing quality priority 2	
	Selects the paper feed permission type.			

1132	[Maximum Duty Switch]		
001	Control Method Switch	*ENG	[0 to 2 / 0 / 1 /step] 0: Fixed Duty, 1: Power Control

1141	[Fusing SC Issue Time Info]		
001	SC Number	*ENG	Displays the issued SC number.
002	SC Cause	*ENG	[0 to 9 / - / 1/step]
101	Htg Roller:Ctr Diff1	*ENG	[0 to 260 / - / 1 deg/step]
102	Htg Rolloer:Ctr Det1	*ENG	Displays the temperature at the center of
103	Htg Roller:Ctr Corr1	*ENG	the heating roller when an SC was issued.
104	Htg Roller:End Diff1	*ENG	[0 to 260 / - / 1 deg/step]
105	Htg Roller:End Det1	*ENG	Displays the temperature at the end of the
106	Htg Roller:End Corr1	*ENG	heating roller when an SC was issued.
107	Press Roller Temp Value 1	*ENG	[0 to 260 / - / 1 deg/step] Displays the temperature at the pressure roller when an SC was issued.

151	Htg Roller:Ctr Diff2	*ENG	
152	Htg Rolloer:Ctr Det2	*ENG	[0 to 260 / - / 1 deg/step]
153	Htg Roller:Ctr Corr2	*ENG	
154	Htg Roller:End Diff2	*ENG	
155	Htg Roller:End Det2	*ENG	[0 to 260 / - / 1 deg/step]
156	Htg Roller:End Corr2	*ENG	
157	Press Roller Temp Value2	*ENG	[0 to 260 / - / 1 deg/step]
201	Htg Roller:Ctr Diff3	*ENG	
202	Htg Rolloer:Ctr Det3	*ENG	[0 to 260 / - / 1 deg/step]
203	Htg Roller:Ctr Corr3	*ENG	
204	Htg Roller:End Diff3	*ENG	
205	Htg Roller:End Det3	*ENG	[0 to 260 / - / 1 deg/step]
206	Htg Roller:End Corr3	*ENG	
207	Press Roller Temp Value3	*ENG	[0 to 260 / - / 1 deg/step]

1142	[Fusing Jam Detection]				
	SC Display	*ENG	[0 or 1 / 0 / -]		
001	Enables or disables the fusing consecutive jam (three times) SC detection.				
	0: No detection, 1: Detection				

1151	[Pressure Setting]		
	Pressure Change ON/OFF	*ENG	[0 or 1 / 1 / -]
001	Enables or disables the pressure switch 0: OFF , 1: ON	ning contro	l for the fusing unit.
000	Pressure Position 1	*ENG	[0 to 10,000 / 420 / 10 msec/step]
002	Specifies the rotation time of the pressu	re roller co	ontact motor for the pressure position 1.

003	Pressure Position2	*ENG	[0 to 10,000 / 660 / 10 msec/step]
003	Specifies the rotation time of the pressu	re roller co	ontact motor for the pressure position 2.
004	Pressure Position3	*ENG	[0 to 10,000 / 2130 / 10 msec/step]
004	Specifies the rotation time of the pressu	re roller co	ontact motor for the pressure position 3.
	Depressure Position	*ENG	[0 to 10,000 / 220 / 10 msec/step]
005	Specifies the rotation time of the pressu pressure).	re roller co	ntact motor for the depression position (no
	Shift Time	*ENG	[0 to 3600 / 5 / 1 sec/step]
010		-	If the machine does not get any jobs for , the machine depresses the fusing unit.
101	Pressure:Plain 1/2	*ENG	[0 to 3 / 3 / 1 /step]
	Sets the default pressure position of the	fusing uni	t for each paper type in normal speed.
	0: Depression position (no pressure)		
	1: Position 1 (less pressure)		
	2: Position 2		
	3: Position 3 (strongest pressure)		
102	Pressure:Thin	*ENG	[0 to 3 / 3 / 1 /step]
103	Pressure:M-thick	*ENG	[0 to 3 / 3 / 1 /step]
104	Pressure:Thick 1	*ENG	[0 to 3 / 3 / 1 /step]
105	Pressure:Thick2	*ENG	[0 to 3 / 3 / 1 /step]
106	Pressure:Thick3	*ENG	[0 to 3 / 3 / 1 /step]
107	Pressure:Special 1	*ENG	[0 to 3 / 3 / 1 /step]
108	Pressure:Special2	*ENG	[0 to 3 / 3 / 1 /step]
109	Pressure:Special3	*ENG	[0 to 3 / 3 / 1 /step]
110	Pressure:Envelope	*ENG	[0 to 3 / 1 / 1 /step]
151	Pressure:Plain 1/2:Low Speed	*ENG	[0 to 3 / 3 / 1 /step]

	Sets the default pressure position of the fusing unit for each paper type in low speed.				
	0: Depression position (no pressure)				
	1: Position 1 (less pressure)				
	2: Position 2				
	3: Position 3 (strongest pressure)				
152	Pressure:M-thick:Low Speed	*ENG	[0 to 3 / 3 / 1 /step]		
153	Pressure:Thick1:Low Speed	*ENG	[0 to 3 / 3 / 1 /step]		
154	Pressure:Special 1:Low Speed	*ENG	[0 to 3 / 3 / 1 /step]		
155	Pressure:Special2:Low Speed	*ENG	[0 to 3 / 3 / 1 /step]		
156	Pressure:Plain 1/2:Glossy	*ENG	[0 to 3 / 3 / 1 /step]		
157	Pressure:M-thick:Glossy	*ENG	[0 to 3 / 3 / 1 /step]		
158	Pressure:OHP	*ENG	[0 to 3 / 3 / 1 /step]		
159	Pressure:Envelope:Low Speed	*ENG	[0 to 3 / 1 / 1 /step]		
160	Pressure:Thin:Low Speed	*ENG	[0 to 3 / 3 / 1 /step]		
	Pressure:Thick4	*ENG	[0 to 3 / 3 / 1 /step]		
	Sets the default pressure position of the	fusing uni	t for thick 4 paper.		
161	0: Depression position (no pressure)				
101	1: Position 1 (less pressure)				
	2: Position 2				
	3: Position 3 (strongest pressure)				
001	Filler Edge Detection Counter	ENG	[0 to 9,000,000 / - / 1 /step]		
201	Displays the detection time for the edge	e of the pre	essure roller actuator.		

1152	[Fusing Nip Band Check]			
001	Execute - [0 or 1 / 0 / 1]			
	•		een heating roller and pressure roller. g is not good, replace the pressure roller or install	

002	Pre-Idling Time	*ENG	[0 to 255 / 240 / 1 sec/step]	
002	Specifies the fusing rotation time before executing SP1109-001.			
003	Stop Time	* ENG	[5 to 30 / 20 / 1 sec/step]	
003	Specifies the time for measuring the nip.			
00.4	Pressure Position	* ENG	[1 to 3 / 3 / 1]	
004	Specifies the pressure position for measuring the nip.			

1153	[Fuser Cleaning]		
001	Compulsion execution	-	Execute the fusing cleaning mode.
	Operation interval	*ENG	[1 to 300 / 0 / 1 K/step]
Adjusts the execution interval for the fusing cleaning mode. 1K= 100 sheets			g cleaning mode.
000	Control Temp.	*ENG	[0 to 200 / 180 / 1°C/step]
Specifies the heating roller temperatur		perature fo	or the fusing cleaning mode.
004	Page Count	*ENG	[1 to 300000 / - / 1 page/step]
004	Displays the page counter for the fusing cleaning mode.		

1801	[Motor Speed Adj.] FA		
001	Registration:Plain:Low	*ENG	[-2 to 2 / -1.1 / 0.1 %/step]
002	Registration:Plain:High	*ENG	[-2 to 2 / -0.1 / 0.1 %/step]
003	Registration:Middle Thick:Low	*ENG	[-2 to 2 / -1.1 / 0.1 %/step]
004	Registration:Middle Thick:Mid	*ENG	[-2 to 2 / -0.1 / 0.1 %/step]
005	Registration:Middle Thick:High	*ENG	[-2 to 2 / -0.1 / 0.1 %/ step]
006	Registration:Thick 1:Low	*ENG	[-2 to 2 / -1.1 / 0.1 %/step]
007	Registration:Thick1:Mid	*ENG	[-2 to 2 / -0.1 / 0.1 %/step]
008	Registration:Thick 2:Low	*ENG	[-2 to 2 / -1.1 / 0.1 %/step]
009	Registration:Thick 3:Low	*ENG	[-2 10 2 / -1.1 / 0.1 / ₀ / step]

010	Duplex CW:Plane:Low	*ENG	
011	Duplex CW:Normal:High	*ENG	
012	Duplex CW:Middle Thick:Low	*ENG	
013	Duplex CW:Middle Thick:Mid	*ENG	
014	Duplex CW:Middle Thick:High	*ENG	[-4 to 4 / 0.0 / 0.1 %/step]
015	Duplex CW:Thick1:Low	*ENG	
016	Duplex CW:Thick1:Mid	*ENG	
017	Duplex CW:Thick2:Low	*ENG	
018	Duplex CW:Thick3:Low	*ENG	
019	Duplex CCW:Normal:High	*ENG	
020	Duplex CCW:Middle Thick:Mid	*ENG	[4. 4 / 0.0 / 0.1 0/ / .]
021	Duplex CCW:Middle Thick:high	*ENG	[-4 to 4 / 0.0 / 0.1 %/step]
023	Duplex CCW:Thick1:Mid	*ENG	
024	Reverse CW:Normal:High	*ENG	[-4 to 4 / -0.5 / 0.1%/step]
025	Reverse CW:Middle Thick:Mid	*ENG	[-4 to 4 / 0 / 0.1 %/step]
026	Reverse CW:Middle Thick:High	*ENG	[-4 to 4 / -0.5 / 0.1%/step]
028	Reverse CW:Thick 1:Mid	*ENG	
029	Reverse CCW:Normal:High	*ENG	
030	Reverse CCW:Middle Thick:Mid	*ENG	[-4 to 4 / 0 / 0.1 %/step]
031	Reverse CCW:Middle Thick:High	*ENG	
033	Reverse CCW:Thick1:Mid	*ENG	
034	Feed:Plain:Low	*ENG	[-2 to 2 / -1.1 / 0.1 %/step]
035	Feed:Plain:High	*ENG	[-2 to 2 / -0.1 / 0.1 %/step]
036	Feed:Middle thick:Low	*ENG	[-2 to 2 / -1.1 / 0.1 %/step]
037	Feed:Middle thick:Mid	*ENG	[0,0/01/01%/:]
038	Feed:Middle thick:High	*ENG	[-2 to 2 / -0.1 / 0.1 %/step]
	. sea.madie illiek.i ligii		

039	Feed:Thick 1:Low	*ENG	[-2 to 2 / -1.1 / 0.1 %/step]
040	Feed:Thick 1:Mid	*ENG	[-2 to 2 / - 0.1 / 0.1 %/step]
041	Feed:Thick 2:Low	*ENG	[24. 2 / 11 / 019 / 4]
042	Feed:Thick 3:Low	*ENG	[-2 to 2 / -1.1 / 0.1 %/step]
043	Bridge Motor:Low	*ENG	
044	Bridge Motor:Mid	*ENG	[-4 to 4 / 0 / 0.1 %/step]
045	Bridge Motor:High	*ENG	
060	KOpcDevMot:High	*ENG	
061	KOpcDevMot:Mid	*ENG	[-4 to 4 / -0.6 / 0.01 %/step]
062	KOpcDevMot:Low	*ENG	
063	MOpcDevMot:High	*ENG	[-10 to 10 / 0 / 1 step/step]
064	MOpcDevMot:Mid	*ENG	[-9 to 9 / 0 / 1 step/step]
065	MOpcDevMot:Low	*ENG	[-14 to 14 / 0 / 1 step/step]
066	COpcDevMot:High	*ENG	[-10 to 10 / 0 / 1 step/step]
067	COpcDevMot:Mid	*ENG	[-9 to 9 / 0 / 1 step/step]
068	COpcDevMot:Low	*ENG	[-14 to 14 / 0 / 1 step/step]
069	YOpcDevMot:High	*ENG	[-10 to 10 / 0 / 1 step/step]
070	YOpcDevMot:Mid	*ENG	[-9 to 9 / 0 / 1 step/step]
071	YOpcDevMot:Low	*ENG	[-14 to 14 / 0 / 1 step/step]
072	Fusing: High	*ENG	[-4 to 4 / 1.9 / 0.01 %/step]
073	Fusing: Mid	*ENG	[-4 to 4 / 1.4 / 0.01 %/step]
074	Fusing: Low	*ENG	[-4 to 4 / 1.7 / 0.01 %/step]
075	TransferMot:High	*ENG	
076	TransferMot:Mid	*ENG	[-4 to 4 / -0.2 / 0.01 %/step]
077	TransferMot:Low	*ENG	
078	TonerMot	*ENG	[-30 to 30 / 10 / 5 %/step]
			- , , , , , ,

079	Fusing Exit Motor: 1200	*ENG	[-4 to 4 / 2.1 / 0.01 %/step]
100	Drum Adjust	*ENG	[0 or 1 / 1 / 1] 0: Off, 1: On
	Enables or disables the drum amplitud	e adjustme	ent.
101	MOpcDevMot:High	*ENG	
102	COpcDevMot:High	*ENG	[-7 to 7 / 0 / 1 step/step]
103	YOpcDevMot:High	*ENG	
104	MOpcDevMot:Mid	*ENG	
105	COpcDevMot:Mid	*ENG	[-7 to 7 / 0 / 1 step/step]
106	YOpcDevMot:Mid	*ENG	
107	MOpcDevMot:Low	*ENG	
108	COpcDevMot:Low	*ENG	[-14 to 14 / 0 / 1 step/step]
109	YOpcDevMot:Low	*ENG	
110	MOpcDevMot:1200	*ENG	
111	COpcDevMot:1200	*ENG	[-7 to 7 / 0 / 1 step/step]
112	YOpcDevMot:1200	*ENG	
120	Long:Registration:Plain:High	*ENG	[-2 to 2 / -0.1 / 0.1 %/step]
121	Long:Registration:Plain:Low	*ENG	[-2 to 2 / -1.1 / 0.1 %/step]
122	Long:Registration:Middle Thick:High	*ENG	
123	Long:Registration:Middle Thick:Middle	*ENG	[-2 to 2 / -0.1 / 0.1 %/step]
124	Long:Registration:Middle Thick:Low	*ENG	[-2 to 2 / -1.1 / 0.1 %/step]
125	Long:Registration:Thick 1:Middle	*ENG	[-2 to 2 / -1 / 0.1 %/step]
126	Long:Registration:Thick 1:Low	*ENG	[-2 to 2 / -1.1 / 0.1 %/step]
127	Long:Registration:Thick 2:Low	*ENG	[-2 to 2 / -1.1 / 0.1 %/step]
128	Long:Registration:Thick 3:Low	*ENG	[-2 to 2 / -1.1 / 0.1 %/step]

129	Long:Fusing:Plain:High	*ENG	[-4 to 4 / 1.9 / 0.01 %/step]
130	Long:Fusing:Plain:Low	*ENG	[-4 to 4 / 2.1 / 0.01 %/step]
131	Long:Fusing:Middle Thick:High	*ENG	[-4 to 4 / 1.9 / 0.01 %/step]
132	Long:Fusing:Middle Thick:Middle	*ENG	[-4 to 4 / 1.4 / 0.01 %/step]
133	Long:Fusing:Middle Thick:Low	*ENG	[-4 to 4 / 2.1 / 0.01 %/step]
134	Long:Fusing:Thick 1:Middle	*ENG	[-4 to 4 / 2.0 / 0.01 %/step]
135	Long:Fusing:Thick 1:Low	*ENG	[-4 to 4 / 1.7 / 0.01 %/step]
136	Long:Fusing:Thick 2:Low	*ENG	[-4 to 4 / 1.7 / 0.01 %/step]
137	Long:Fusing:Thick 3:Low	*ENG	[-4 to 4 / 1.7 / 0.01 %/step]

1902	[Amplitude Control]		
001	Execute	-	Execute drum phase adjustment.
002	Result	*ENG	[0 to 3 / 0 / 1] Displays the result of drum phase adjustment. 0: Successfully done 2: Sampling failure 3: Insufficient detection number
003	Auto Execution	*ENG	[0 or 1 / 1 / -] Turns the automatic drum phase adjustment on or off. 0: Off, 1: On

1907	[Paper Feed Timing Adj.] DFU		
002	Feed Solenoid ON: Plain	*ENG	[35 to 85 / 60 / 5 %/step]

003	Feed Clutch OFF: Plain	*ENG	
004	Feed Clutch ON: Plain	*ENG	
005	Inverter Stop Position	*ENG	[-10 to 10 / 0 / 1 mm/step]
006	Reverse Stop Position	*ENG	
007	Re-Feed Stop Position S Size	*ENG	
008	By-pass Solenoid OFF	*ENG	[0 to 40 / 0 / 1 mm/step]
009	By-pass Solenoid Re-ON	*ENG	[0 or 1 / 1 / -]
010	By-pass Feed Clutch ON	*ENG	[-10 to 10 / 0 / 1 mm/step]
012	Feed Solenoid ON: Thick	*ENG	[-10 to 40 / 0 / 2.5 mm/step]
013	Feed Clutch OFF: Thick	*ENG	
014	Feed Clutch ON: Thick	*ENG	[-10 to 10 / 0 / 1 mm/step]
015	Re-Feed Stop Position	*ENG	

[LCT Feed Timing Adj.] DFU		
Bridge Junction Gate Sol-ON	*ENG	
Bridge Junction Gate Sol-OFF	*ENG	
1 Bin Junction Gate Sol-ON	*ENG	
1 Bin Junction Gate Sol-OFF	*ENG	[104-10 / 0 / 1 /]
Junction Gate SOL1:ON:Plain	*ENG	[-10 to 10 / 0 / 1 mm/step]
Junction Gate SOL1:ON:Thick	*ENG	
Junction Gate SOL1:OFF:Plain	*ENG	
Junction Gate SOL1:OFF:Thick	*ENG	
	Bridge Junction Gate Sol-ON Bridge Junction Gate Sol-OFF 1 Bin Junction Gate Sol-ON 1 Bin Junction Gate Sol-OFF Junction Gate SOL1:ON:Plain Junction Gate SOL1:ON:Thick Junction Gate SOL1:OFF:Plain	Bridge Junction Gate Sol-ON *ENG Bridge Junction Gate Sol-OFF *ENG 1 Bin Junction Gate Sol-ON *ENG 1 Bin Junction Gate Sol-OFF *ENG Junction Gate SOL1:ON:Plain *ENG Junction Gate SOL1:ON:Thick *ENG Junction Gate SOL1:OFF:Plain *ENG

1050	[Fan Cooling Time Set]
1950	Adjust the rotation time for each fan motor after a job end.

002	Fusing Exit Fan	*ENG	
006	Main Suction Fan	*ENG	
007	Paper Exit Fan	*ENG	
008	PSU Fan	*ENG	[0, 100 / 0 / 0 1 : / ,]
009	Fusing IH Coil Fan	*ENG	[0 to 120 / 0 / 0.1 min./step]
010	IH Power Supply Fan	*ENG	
011	Second Duct Fan	*ENG	
012	Third Duct Fan	*ENG	

1951	[Fan Start Time Set]				
1931	Adjust the start time for each fan motor after a job end.				
002	Fusing Exit Fan	*ENG	[0 to 900 / 0 / 1 sec/step]		
006	Main Suction Fan	*ENG	[0 to 900 / 120 / 1 sec/step]		
007	Paper Exit Fan	*ENG	[0 to 900 / 0 / 1 sec/step]		
800	PSU Fan	*ENG	[0 to 900 / 120 / 1 sec/step]		
009	Fusing IH Coil Fan	*ENG			
010	IH Power Supply Fan	*ENG	[0 to 900 / 0 / 1 sec/step]		
011	Second Duct Fan	*ENG			
012	Third Duct Fan	*ENG			

1952	[Fan Control Off Mode Time Set]		
001	-	*ENG	[0 to 60 / 10 / 1 min./step]

1953	[Extra Fan Control]				
001	Extra Fan Cooling State	*ENG	[0 or 1 / 0 / 1 /step] 0: Off, 1: On		
	Displays the extra fan cooling is On or Off.				

002	Extra Fan Cooling: Time: Threshold	*ENG	[0 to 180 / C2.5a: 110, C2.5b: 100 / 1 min./ step]		
	Specifies the judgement time fo	r entering t	he extra fan rotation mode.		
003	Extra Fan Cooling: Rotat: Threshold	*ENG	[0 to 999999999 / 0 / 1 mm/step]		
003	Specifies the threshold rotation of the black development unit for entering the extra fan rotation mode.				
004	Extra Fan Cooling: Start Date	*ENG	Displays the execution time and date of the extra fan cooling.		
005	Extra Fan Cooling Time	*ENG	[0 to 120 / 30 / 0.1 min./step:		
003	Specifies the execution time for the extra fan cooling.				

[Extra Fan Control]			
1934	Specifies the execution time of the extra fan rotaion mode for each fan motor.		
002	Fan Cooling Time:Fusing Exit Fan:Initial	*ENG	[0 to 120 / 0 / 0.1 min./step]
006	Fan Cooling Time:Main Suction Fan:Initial	*ENG	[0 to 120 / 0 / 0.1 min./step]
007	Fan Cooling Time:Paper Exit Fan:Initial	*ENG	[0 to 120 / 0 / 0.1 min./step]
008	Fan Cooling Time:PSU Fan:Initial	*ENG	[0 to 120 / 0 / 0.1 min./step]
009	Fan Cooling Time:Fusing IH Coil Fan:Initial	*ENG	[0 to 120 / 0 / 0.1 min./step]
010	Fan Cooling Time:IH Power Supply Fan:Initial	*ENG	[0 to 120 / 0 / 0.1 min./step]
011	Fan Cooling Time:Second Duct Fan:Initial	*ENG	[0 to 120 / 0 / 0.1 min./step]
012	Fan Cooling Time:Third Duct Fan:Initial	*ENG	[0 to 120 / 0 / 0.1 min./step]

System SP2-xxx

SP2-XXX (Drum)

	[Charge DC Voltage] Charge Roller DC Voltage Adjustment				
2225	(Paper Type, Process Speed, Color)				
2005 Paper Type -> Plain, Thick 1, Thick 2					
	Plain: High speed, Thick 1: Middle speed, Thick 2&FINE: Low speed				
	Adjusts the DC component of t	he charge ı	roller bias in the various print modes.		
	Charge bias (DC component) is automatically adjusted during process control; therefore, adjusting these settings does not effect while process control mode (SP3-041-1 Default: ON) is activated. When deactivating process control mode with SP3-041-1, the values in these SP modes are used for printing.				
001	Plain: Bk	*ENG			
002	Plain: M	*ENG			
003	Plain: C	*ENG			
004	Plain: Y	*ENG			
005	Thick 1: Bk	*ENG			
006	Thick 1: M	*ENG	[0.1.1000 / 400 / 10. V/.t]		
007	Thick 1: C	*ENG	[0 to 1000 / 690 / 10 –V/step]		
800	Thick 1: Y	*ENG			
009	Thick 2&FINE: Bk	*ENG			
010	Thick 2&FINE: M	*ENG			
011	Thick 2&FINE: C	*ENG			
012	Thick 2&FINE: Y	*ENG			
	[Charge DC: Correction]				
013	PCU:Plain	*ENG	[-100 to 100 / -29 / 1 -V/step]		
014	PCU:Thick 1	*ENG	[-100 to 100 / -28 / 1 -V/step]		

015	PCU:Thick 2&FINE	*ENG	[-100 to 100 / -28 / 1 -V/step]
016	HVP:Plain	*ENG	[-100 to 100 / 20 / 1 -V/step]
017	HVP:Thick 1	*ENG	[-100 to 100 / 20 / 1 -V/step]
018	HVP: Thick 2&FINE	*ENG	[-100 to 100 / 29 / 1 -V/step]

	[Charge AC Voltage] Charge Roller AC Voltage Adjustment					
	(Paper Type, Process Speed, Color)					
	Paper Type -> Plain, Thick 1, 1	hick 2				
2006	Plain: High speed, Thick 1: Mic	ddle spee	d, Thick 2&FINE: Low speed			
	Adjusts the AC component of the	ne charge	roller bias in the various print modes.			
			by environment correction (SP2-007-xxx to only when SP2-012-1 is set to "1: manual control".			
001	Plain: Bk	*ENG	[0 to 3 / 1.9 / 0.01 KV/step]			
002	Plain: M	*ENG	[0 to 3 / 2.2 / 0.01 KV/step]			
003	Plain: C	*ENG	[0 to 3 / 2.2 / 0.01 KV/step]			
004	Plain: Y	*ENG	[0 to 3 / 2.2 / 0.01 KV/step]			
005	Thick 1: Bk	*ENG	[0 to 3 / 1.9 / 0.01 KV/step]			
006	Thick 1: M	*ENG	[0 to 3 / 2.2 / 0.01 KV/step]			
007	Thick 1: C	*ENG	[0 to 3 / 2.2 / 0.01 KV/step]			
800	Thick 1: Y	*ENG	[0 to 3 / 2.2 / 0.01 KV/step]			
009	Thick 2&FINE: Bk	*ENG	[0 to 3 / 1.9 / 0.01 KV/step]			
010	Thick 2&FINE: M	*ENG	[0 to 3 / 2.2 / 0.01 KV/step]			
011	Thick 2&FINE: C	*ENG	[0 to 3 / 2.2 / 0.01 KV/step]			
012	Thick 2&FINE: Y	*ENG	[0 to 3 / 2.2 / 0.01 KV/step]			

2007	[Charge AC Current: LL] Charge Roller AC Current Adjustment for LL (Color)				
2007			harge roller for LL environment (Low temperature		
001	Environmental Target: Bk	*ENG	[0 to 3 / 0.68 / 0.01 mA/step]		
002	Environmental Target: M	*ENG			
003	Environmental Target: C	*ENG	[0 to 3 / 0.83 / 0.01 mA/step]		
004	Environmental Target: Y	*ENG			

2008	[Charge AC Current: ML] Charge Roller AC Current Adjustment for MM (Color)				
2000	Displays/sets the AC current targ temperature and Low humidity). [charge roller for ML environment (Meddle			
001	Environmental Target: Bk	*ENG	[0 to 3 / 0.7 / 0.01 mA/step]		
002	Environmental Target: M	*ENG			
003	Environmental Target: C	*ENG	[0 to 3 / 0.87 / 0.01 mA/step]		
004	Environmental Target: Y	*ENG			

2009	[Charge AC Current: MM] Charge Roller AC Current Adjustment for MM (Color)					
2007	Displays/sets the AC current target of the charge roller for MM environment (Middle temperature and Middle humidity). DFU					
001	Environmental Target: Bk	*ENG	[0 to 3 / 0.73 / 0.01 mA/step]			
002	Environmental Target: M	*ENG				
003	003 Environmental Target: C *		[0 to 3 / 0.89 / 0.01 mA/step]			
004	Environmental Target: Y	*ENG				

2010	[Charge AC Current: MH] Charge Roller AC Current Adjustment for MH (Color)				
2010	Displays/sets the AC current targ temperature and High humidity).	charge roller for MH environment (Middle			
001	Environmental Target: Bk	*ENG	[0 to 3 / 0.74 / 0.01 mA/step]		
002	Environmental Target: M	*ENG [0 to 3 / 0.89 / 0.01 r			
003	Environmental Target: C		[0 to 3 / 0.89 / 0.01 mA/step]		
004	Environmental Target: Y	*ENG			

2011	[Charge AC Current: HH] Charge Roller AC Current Adjustment for HH (Color)				
2011	Displays/sets the AC current target of the charge roller for HH environment (High temperature and High humidity). DFU				
001	Environmental Target: Bk	*ENG	[0 to 3 / 0.74 / 0.01 mA/step]		
002	Environmental Target: M	*ENG			
003	Environmental Target: C	*ENG	[0 to 3 / 0.87 / 0.01 mA/step]		
004	Environmental Target: Y	*ENG			

2012	[Charge Output Control]		
001	AC Voltage	*ENG	Selects the AC voltage control type. [0 or 1 / 0 / 1 /step] 0: Process control 1: Manual control (AC voltages are decided with SP2006.)

nental Correction: PCU]

001	Current Environmental: Display	*ENG	Displays the environmental condition, which is measured in absolute humidity. [1 to 5 / - / 1 / step] 1: LL (LL <= 4.3 g/m³) 2: ML (4.3 < ML <= 11.3 g/m³) 3: MM (11.3 < MM <= 18.0 g/m³) 4: MH (18.0 < MH <= 24.0 g/m³) 5: HH (24.0 g/m³ < HH)
002	Forced Setting	*ENG	Selects the environmental condition manually. [0 to 5 / 0 / 1 /step] 0: The environmental condition is determined automatically. 1: LL, 2: ML, 3: MM, 4: MH, 5: HH
003	Absolute Humidity: Threshold	*ENG	Changes the humidity threshold between LL and ML. [0 to 100 / 3.0 / 0.01 g/m³/step]
004	Absolute Humidity: Threshold 2	*ENG	Changes the humidity threshold between ML and MM. [0 to 100 / 8.0 / 0.01 g/m ³ /step]
005	Absolute Humidity: Threshold	*ENG	Changes the humidity threshold between MM and MH. [0 to 100 / 15.0 / 0.01 g/m³/step]
006	Absolute Humidity: Threshold	*ENG	Changes the humidity threshold between MH and HH. [0 to 100 / 15.0 / 0.01 g/m ³ /step]
007	Current Temp.: Display	*ENG	Displays the current temperature. [0 to 100 / 0 / 1 deg/step]
008	Current Relative Humidity: Display	*ENG	Displays the current relative humidity. [0 to 100 / 0 / 1%RH/step]
009	Current Absolute Humidity: Display	*ENG	Displays the absolute humidity. [0 to 100 / 0 / 0.01 g/m ³ /step]

010	Previous Environmental: Display	*ENG	Displays the previous environmental condition, which is measured in absolute humidity. [1 to 5 / - / 1 /step] 1: LL, 2: ML, 3: MM, 4: MH, 5: HH
011	Previous Temp.: Display	*ENG	Displays the previous temperature. [0 to 100 / 0 / 1 deg/step]
012	Previous Relative Humidity: Display	*ENG	Displays the previous relative humidity. [0 to 100 / 0 / 1%RH/step]
013	Previous Absolute Humidity: Display	*ENG	Displays the previous absolute humidity. [0 to 100 / 0 / 0.01 g/m ³ /step]

2014	[Charge AC Control: Setting] DFU			
2014	Specifies the charge AC control interval or thresholod for each condition.			
001	Exec Interval: Power ON	*ENG	[0.4-2000 / 500 / 1 /]	
002	Exec Interval: Print	*ENG	[0 to 2000 / 500 / 1 page/step]	
003	Page Interval	*ENG	[0 to 500 / 10 / 5 page/step]	
004	Temperature	*ENG	[0 to 99 / 99 / 1 deg/step]	
005	Relative Humidity	*ENG	[0 to 99 / 50 / 1 %RH/step]	
006	Absolute Humidity	*ENG	[0 to 99 / 12 / 1 g/m ³ /step]	
007	Temp Threshold M	*ENG	[0 to 99 / 5 / 1 deg/step]	
008	RH Threshold M	*ENG	[0 to 99 / 25 / 1 %RH/step]	
009	AH Threshold M	*ENG	[0 to 99 / 6 / 1 g/m ³ /step]	
010	Temp Threshold S	*ENG	[0 to 20 / 1 / 0.1 deg/step]	
011	RH Threshold S	*ENG	[0 to 50 / 5 / 1 %RH/step]	
012	AH Threshold S	*ENG	[0 to 20 / 1 / 0.1 g/m ³ /step]	
013	Non-use Time	*ENG	[0 to 1440 / 360 / 10 min/step]	

2015 [Charge AC Control:Result]

001	Bk	*ENG	[0 to 9 / 0 / 1 /step]
002	М	*ENG	0: Success
003	С	*ENG	Out of tolerance range Out of adjustable range
004	Υ	*ENG	3: Adjustment incompleted

	[Color Registration Correction] FA			
2101	These values are the parameters for the automatic line position adjustment and are adjust at the factory. However, you must input a value for SP2101-001 after replacing the last optics housing unit. For details, see "Laser Optics Housing Unit" in the "Replacement and Adjustment" section. The value should be provided with the new laser optics housing units.			
001	Main Dot: Bk	*ENG		
002	Main Dot: Ma	*ENG	[510 to 511 / 0 / 1 dot/storn]	
003	Main Dot: Cy	*ENG	[-512 to 511 / 0 / 1 dot/step]	
004	Main Dot: Ye	*ENG		
005	Sub Line: Bk	*ENG		
006	Sub Line: Ma	*ENG	[16204 to 16202 / 0 / 1 line /stem]	
007	Sub Line: Cy	*ENG	[-16384 to 16383 / 0 / 1 line/step]	
008	Sub Line: Ye	*ENG		

2102 [Magnification Adjustment] DFU	
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001 Main Mag.: High Speed: Bk *ENG 002 Main Mag.: Medium Speed: Bk *ENG	
002 Main Mag.: Medium Speed: Bk *ENG	
003 Main Mag.: Low Speed: Bk *ENG	
004 Main Mag.: High Speed: M *ENG	
005 Main Mag.: Medium Speed: M *ENG	
006 Main Mag.: Low Speed: M *ENG These are results of the length adjustment.	main scan
007 Main Mag.: High Speed: C *ENG [0 to 560 / 280 / 1 /	step]
008 Main Mag.: Medium Speed: C *ENG	
009 Main Mag.: Low Speed: C *ENG	
010 Main Mag.: High Speed: Y *ENG	
011 Main Mag.: Medium Speed: Y *ENG	
012 Main Mag.: Low Speed: Y *ENG	
013 Offset: Mag Bk1-2 *ENG	
014 Offset: Mag M1-2 *ENG	uuh dat/star 1
015 Offset: Mag C1-2 *ENG [-256 to 255 / 0 / 1 s	enn-aoi/ sieb]
016 Offset: Mag Y1-2 *ENG	

2103	[Erase Margin Adjustment] (Area, Paper Size)			
	Adjusts the erase margin by deleting image data at the margins.			
001	Lead Edge Width	*ENG	[0.4-0.0 / 4.2 / 0.1 /-+]	
002	Trail. Edge Width	*ENG	[0 to 9.9 / 4.2 / 0.1 mm/step]	
003	Left	*ENG	[0+00/2/01/	
004	Right	*ENG	[0 to 9.9 / 2 / 0.1 mm/step]	
006	Duplex Trail. L Size	*ENG	[0 to 4 / 0 / 0.1 mm/step]	
007	Duplex Trail. M Size	*ENG	[0 to 4 / 0 / 0.1 mm/step]	
008	Duplex Trail. S Size	*ENG	[0 to 4 / 0 / 0.1 mm/step]	

009	Duplex Left Edge	*ENG	[0 to 1.5 / 0.3 / 0.1 mm/step]
010	Duplex Right Edge	*ENG	[0 10 1.5 / 0.3 / 0.1 mm/siep]
011	Duplex Trail. L Size:Thick	*ENG	[0 to 4 / 1 / 0.1 mm/step]
012	Duplex Trail. M Size:Thick	*ENG	[0 to 4 / 0.8 / 0.1 mm/step]
013	Duplex Trail. S Size:Thick	*ENG	[0 to 4 / 0.6 / 0.1 mm/step]
014	Duplex Left Edge:Thick	*ENG	[0.4-1.5 / 0.2 / 0.1 /]
015	Duplex Right Edge:Thick	*ENG	[0 to 1.5 / 0.3 / 0.1 mm/step]

2105	[LD Power Adj.] (Process Speed, Color)			
	Adjusts the LD power of each color for each process speed.			
	Each LD power setting is decided by process control.			
001	High Speed: Bk	*ENG	[50 to 120 / 100 / 1%/step]	
002	High Speed: Ma	*ENG	Decreasing a value makes lines thinner on the	
003	High Speed: Cy	*ENG	output. Increasing a value makes lines thicker on the	
004	High Speed: Ye	*ENG	output.	
005	Middle Speed: Bk	*ENG	[50 to 120 / 100 / 1%/step]	
006	Middle Speed: Ma	*ENG	Decreasing a value makes lines thinner on the	
007	Middle Speed: Cy	*ENG	output. Increasing a value makes lines thicker on the	
800	Middle Speed: Ye	*ENG	output.	
009	Low Speed: Bk	*ENG	[50 to 120 / 100 / 1%/step]	
010	Low Speed: Ma	*ENG	Decreasing a value makes lines thinner on the	
011	Low Speed: Cy	*ENG	output. Increasing a value makes lines thicker on the	
012	Low Speed: Ye	*ENG	output.	

2106	[Polygon Rotation Time]	
	Adjusts the time of the polygon motor rotation. DFU	

001	Warming-Up	*ENG	[0 to 60 / 10 / 1 sec/step]
002	Job End	*ENG	[0 10 00 / 10 / 1 sec/ siep]

2107	[Image Parameter]				
2107	DFU				
001	Image Gamma Flag	*ENG	[0 1 / 1 / 1 /]		
002	Shading Correction Flag	*ENG	[0 or 1 / 1 / 1 /step]		

2109	[Test Pattern]			
2109	Generates the test pattern using	g "COPY Wir	ndow" tab in the LCD.	
003	Pattern Selection	-	[0 to 23 / 0 / 1/step]	
	0 None		11. Independent Pattern (1 dot)	
	1: Vertical Line (1dot)		12. Independent Pattern (2dot)	
	2: Vertical Line (2dot)		13. Independent Pattern (4dot)	
	3: Horizontal (1dot)		14. Trimming Area	
	4: Horizontal (2dot)		16: Hound's Tooth Check (Horizontal)	
	5: Grid Vertical Line		17: Band (Horizontal)	
	6: Grid Horizontal Line 7: Grid pattern Small		18: Band (Vertical)	
			19: Checker Flag Pattern	
	8: Grid pattern Large		20: Grayscale Vertical Margin	
	9: Argyle Pattern Small 10: Argyle Pattern Large		21: Grayscale Horizontal Margin	
			23: Full Dot Pattern	
			Specifies the color for the test pattern.	
005	Color Selection	-	[1 to 4 / 1 / 1/step]	
			1: All colors, 2: Magenta, 3: Yellow, 4: Cyan	
006	Density: Bk	-	Specifies the color density for the test pattern.	
007	Density: Ma	-	[0 to 15 / 15 / 1 /step]	
008	Density: Cy	-	0: Lightest density	
009	Density: Ye	-	15: Darkest density	

2111	[Forced Line Position Adj.]		
001	Mode a	-	Executes the fine line position adjustment twice. If this SP is not completed (NG is displayed), do SP2111-003 first and then try this SP again.
002	Mode b	-	Executes the fine line position adjustment once. If this SP is not completed, do SP2111-003 first and then try this SP again.
003	Mode c	-	Executes the rough line position adjustment once. After doing this SP, make sure to execute SP2111-001 or -002. Otherwise, the line position adjustment is not perfectly done.

2112	[TM/ID Sensor Check] ID Sensor Check FA		
001	Execute		This SP is used to check the ID sensors at the factory. The results of this SP are displayed in SP2140 to SP2145.

	[Skew Adjustment]			
2117	Specifies a skew adjustment value for the skew motor M, C or Y. These SPs must be used when a new laser optics housing unit is installed or when SC285 occurs. For details, see "Laser Optics Housing Unit" in the "Replacement and Adjustment" section.			
001	Pulse: M	*ENG		
002	Pulse: C	*ENG	[-100 to 100 / 0 / 1 pulse/step]	
003	Pulse: Y	*ENG		

2118	[Skew Adjustment]		
001	Execute: M	*ENG	Changes the current skew adjustment values to the
002	Execute: C	*ENG	values specified with SP2117. These SPs must be used when a new laser optics
003	Execute: Y	*ENG	housing unit is installed or when SC285 occurs. For details, see "Laser Optics Housing Unit" in the "Replacement and Adjustment" section.

2119	[Skew Adjustment Display]			
2119	Displays the current skew adjustment value for each skew motor.			
001	М	*ENG		
002	С	*ENG	[-50 to 50 / 0 / 1 pulse/step]	
003	Υ	*ENG		

2120	[Thick Paper Skew Adj] Not used			
2120	Selects the skew adjustment for thick paper.			
001	On/Off	*ENG	[0 or 1 / 1 / 1 /step] 0: Off, 1: On	

	[ID Sensor Check Result] DFU				
2140	Displays the results of the ID sensor check.				
	Bk, M, C, Y: ID sensors for the process control				
	Front, Center, Rear: ID sensors for the automatic line position adjustment				
001	Bk	*ENG			
002	М	*ENG			
003	С	*ENG			
004	Υ	*ENG	[0 to 1024 / 0 / 1/step]		
005	Front	*ENG			
006	Center	*ENG			
007	Rear	*ENG			

	[ID Sensor Check Result: Ave.] DFU
2141	Displays the average result values of the ID sensor check.
	Bk, M, C, Y: ID sensors for the process control
	Front, Center, Rear: ID sensors for the automatic line position adjustment

001	Bk	*ENG	
002	М	*ENG	
003	С	*ENG	
004	Υ	*ENG	[0 to 5.5 / 0 / 0.01V/step]
005	Front	*ENG	
006	Center	*ENG	
007	Rear	*ENG	

	[ID Sensor Check Result] DFU				
2142	Displays the maximum result values of the ID sensor check.				
	Bk, M, C, Y: ID sensors for the	process contr	rol		
Front, Center, Rear: ID sensors for the a		for the autom	natic line position adjustment		
001	Maximum: Bk	*ENG			
002	Maximum: M	*ENG			
003	Maximum: C	*ENG			
004	Maximum: Y	*ENG	[0 to 5.5 / 0 / 0.01V/step]		
005	Maximum: Front	*ENG			
006	Maximum: Center	*ENG			
007	Maximum: Rear	*ENG			

		[ID Sensor Check Result] DFU	
Displays the minimum result values of the ID sensor Bk, M, C, Y: ID sensors for the process control		Displays the minimum result values of the ID sensor check.	
		Bk, M, C, Y: ID sensors for the process control	
		Front, Center, Rear: ID sensors for the automatic line position adjustment	

001	Minimum: Bk	*ENG	
002	Minimum: M	*ENG	
003	Minimum: C	*ENG	
004	Minimum: Y	*ENG	[0 to 5.5 / 0 / 0.01V/step]
005	Minimum: Front	*ENG	
006	Minimum: Center	*ENG	
007	Minimum: Rear	*ENG	

	[ID Sensor Check Result] DFU				
2144	Displays the maximum result 2 values of the ID sensor check.				
	Bk, M, C, Y: ID sensors for the	process contr	rol		
	Front, Center, Rear: ID sensors	for the autom	natic line position adjustment		
001	Maximum 2: Bk	*ENG			
002	Maximum 2: M	*ENG			
003	Maximum 2: C	*ENG			
004	Maximum 2: Y	*ENG	[0 to 5.5 / 0 / 0.01V/step]		
005	Maximum 2: Front	*ENG			
006	Maximum 2: Center	*ENG			
007	Maximum 2: Rear	*ENG			

		[ID Sensor Check Result] DFU
2145	2145	Displays the minimum result 2 values of the ID sensor check.
		Bk, M, C, Y: ID sensors for the process control
		Front, Center, Rear: ID sensors for the automatic line position adjustment

001	Minimum 2: Bk	*ENG	
002	Minimum 2: M	*ENG	
003	Minimum 2: C	*ENG	
004	Minimum 2: Y	*ENG	[0 to 5.5 / 0 / 0.01V/step]
005	Minimum 2: Front	*ENG	
006	Minimum 2: Center	*ENG	
007	Minimum 2: Rear	*ENG	

	[Area Mag. Correction] LD Pulse Area Correction (Color, Area) FA				
2150	Adjusts the magnification for each area. The main scan (297 mm) is divided into 8 areas. Area 1 is at the front side of the machine (left side of the image) and area 8 is at the rear side of the machine (right side of the image).				
	Decreasing a value makes the image shift to the left side on the print.				
	Increasing a value makes the	e image sh	ift to the right side on the print.		
	1 pulse = 1/16 dot				
027	Area O: Bk	*ENG	[-256 to 255 / 0 / 1 sub-dot/step]		
028	Area 1: Bk	*ENG			
029	Area 2: Bk	*ENG			
030	Area 3: Bk	*ENG			
031	Area 4: Bk	*ENG	Adjusts the area magnification for LD 0.		
032	Area 5: Bk	*ENG	[-256 to 255 / 0 / 1 sub-dot/step]		
033	Area 6: Bk	*ENG			
034	Area 7: Bk	*ENG			
035	Area 8: Bk	*ENG			
036	Area 9: Bk	*ENG			
037	Area 10: Bk	*ENG	National		
038	Area 11: Bk	*ENG	Not used		
039	Area 12: Bk	*ENG			

079	Area 0: Ma	*ENG	Not used
080	Area 1: Ma	*ENG	Adjusts the area magnification for LD 0. [-255to 255 / 0 / 1 sub-dot/step]
081	Area 2: Ma	*ENG	
082	Area 3: Ma	*ENG	
083	Area 4: Ma	*ENG	
084	Area 5: Ma	*ENG	[-256to 255 / 0 / 1 sub-dot/step]
085	Area 6: Ma	*ENG	
086	Area 7: Ma	*ENG	
087	Area 8: Ma	*ENG	
088	Area 9: Ma	*ENG	
089	Area 10: Ma	*ENG	
090	Area 11: Ma	*ENG	Not used
091	Area 12: Ma	*ENG	
131	Area 0: Cy	*ENG	Not used
132	Area 1: Cy	*ENG	
133	Area 2: Cy	*ENG	
134	Area 3: Cy	*ENG	
135	Area 4: Cy	*ENG	Adjusts the area magnification for LD 0.
136	Area 5: Cy	*ENG	[-256 to 255 / 0 / 1 sub-dot/step]
137	Area 6: Cy	*ENG	
138	Area 7: Cy	*ENG	
139	Area 8: Cy	*ENG	

140	Area 9: Cy	*ENG	
141	Area 10: Cy	*ENG	Not used
142	Area 11: Cy	*ENG	Not used
143	Area 12: Cy	*ENG	
183	Area 0: Ye	*ENG	Not used
184	Area 1: Ye	*ENG	
185	Area 2: Ye	*ENG	
186	Area 3: Ye	*ENG	
187	Area 4: Ye	*ENG	Adjusts the area magnification for LD 0.
188	Area 5: Ye	*ENG	[-256 to 255 / 0 / 1 sub-dot/step]
189	Area 6: Ye	*ENG	
190	Area 7: Ye	*ENG	
191	Area 8: Ye	*ENG	
192	Area 9: Ye	*ENG	
193	Area 10: Ye	*ENG	Not used
194	Area 11: Ye	*ENG	INOLUSEA
195	Area 12: Ye	*ENG	

2152	[Area Shad. Correct. Setting] FA
	Adjusts the area correction value for each LD power.
	The main scan is divided into 16 areas. However, the image areas are limited from area 1 to area 14.
	For BK and Magenta, area 1 is at the rear side of the machine (left side of the image) and area 14 is at the front side of the machine (right side of the image).
	For Cyan and Yellow, area 1 is at the front side of the machine (right side of the image) and area 14 is at the rear side of the machine (left side of the image).

001	Area O: Bk	*ENG	
002	Area 1: Bk	*ENG	This is for the synchronizing detection board. [50 to 150 / 100 / 1 %/step]
003	Area 2: Bk	*ENG	
004	Area 3: Bk	*ENG	
005	Area 4: Bk	*ENG	
006	Area 5: Bk	*ENG	
007	Area 6: Bk	*ENG	
008	Area 7: Bk	*ENG	
009	Area 8: Bk	*ENG	
010	Area 9: Bk	*ENG	
011	Area 10: Bk	*ENG	
012	Area 11: Bk	*ENG	
013	Area 12: Bk	*ENG	
014	Area 13: Bk	*ENG	
015	Area 14: Bk	*ENG	
016	Area 15: Bk	*ENG	This is out of the image area. [50 to 150 / 100 / 1 %/step]
033	Area 0: M	*ENG	This is for the synchronizing detection board.
			t.

034	Area 1: M	*ENG	
035	Area 2: M	*ENG	G G G G G G G G G G G G G G G G G G G
036	Area 3: M	*ENG	
037	Area 4: M	*ENG	
038	Area 5: M	*ENG	
039	Area 6: M	*ENG	G G G G G G G G G G G G G G G G G G G
040	Area 7: M	*ENG	
041	Area 8: M	*ENG	
042	Area 9: M	*ENG	
043	Area 10: M	*ENG	
044	Area 11: M	*ENG	
045	Area 12: M	*ENG	
046	Area 13: M	*ENG	
047	Area 14: M	*ENG	
048	Area 15: M	*ENG	
065	Area 0: C	*ENG	,

066	Area 1: C	*ENG			
067	Area 2: C	*ENG			
068	Area 3: C	*ENG	[50 to 150 / 100 / 1 %/step]		
069	Area 4: C	*ENG	[50 to 150 / 100 / 1 %/step]		
070	Area 5: C	*ENG			
071	Area 6: C	*ENG			
072	Area 7: C	*ENG	[50 to 150 / 100 / 1 %/step]		
073	Area 8: C	*ENG			
074	Area 9: C	*ENG			
075	Area 10: C	*ENG			
076	Area 11: C	*ENG			
077	Area 12: C	*ENG			
078	Area 13: C	*ENG			
079	Area 14: C	*ENG			
080	Area 15: C	*ENG	This is out of the image area. [50 to 150 / 100 / 1 %/step]		
097	Area 0: Y	*ENG	This is for the synchronizing detection board. [50 to 150 / 100 / 1 %/step]		

098	Area 1: Y	*ENG	
099	Area 2: Y	*ENG	[50 to 150 / 100 / 1 %/step]
100	Area 3: Y	*ENG	
101	Area 4: Y	*ENG	
102	Area 5: Y	*ENG	
103	Area 6: Y	*ENG	
104	Area 7: Y	*ENG	
105	Area 8: Y	*ENG	
106	Area 9: Y	*ENG	
107	Area 10: Y	*ENG	
108	Area 11: Y	*ENG	
109	Area 12: Y	*ENG	
110	Area 13: Y	*ENG	
111	Area 14: Y	*ENG	
112	Area 15: Y	*ENG	This is out of the image area.

0140	[Vertical Line Width] DFU		
2160	Adjusts the width of the vertica	*ENG [10 to 15 / 13 / 1 /step] *ENG *ENG	
001	600dpi:Bk	*ENG	[10 to 15 / 13 / 1 /step]
002	600dpi:Ma	*ENG	
003	600dpi:Cy	*ENG	
004	600dpi:Ye	*ENG	
005	1200dpi:Bk	*ENG	[10 to 15 / 15 / 1 /step]
006	1200dpi:Ma	*ENG	
007	1200dpi:Cy	*ENG	
008	1200dpi:Ye	*ENG	

2180	[Line Position Adj. Setting Clea	r]	
001	Color Regist.	-	
002	Main Scan Length Detection	-	
003	MUSIC Result	-	DFU
004	Area Magnification Correction	-	

2181	[Line Position Adj. Result]		
	Displays the values for each corr	ection.	
	 "Paper Int. Mag: Subdot" in sheets of paper. 	dicates the	magnification correction value between two
	"Mag.Cor. Subdot" indicate	s the magr	aification correction value.
	• "M. Scan Erro." indicates the	e shift corre	ection value in the main scan direction.
	"S. Scan Erro." Indicates the shift correction value in the sub scan direction.		
	"M. Cor.: Dot" indicates the dot correction value in the main scan direction.		
	• "M. Cor.: Subdot" indicates	the sub do	t correction value in the main scan direction.
	Bk: Black, M: Magenta, C:	Cyan, Y: Y	ellow
001	1 Paper Int. Mag: Subdot: Bk *ENG [-32768 to 32767 / 0 / 1 pulse/step]		
002	002 Mag.Cor. Subdot: Bk *ENG	[-32768 to 32767 / 0 / 1 pulse/step]	
003	003 Skew: M *ENG [-5000 to 5000 / 0 /		[-5000 to 5000 / 0 / 0.001 um/step]
005	M. Scan Erro.: Left: M	*ENG	
006	M. Scan Erro.: Center: M	*ENG	
007	M. Scan Erro.: Right: M	*ENG	[5000 to 5000 / 0 / 0 001 / to]
008	S. Scan Erro.: Left: M	*ENG	[-5000 to 5000 / 0 / 0.001 um/step]
009	S. Scan Erro.: Center: M	*ENG	
010	S. Scan Erro.: Right: M	*ENG	
011	M. Cor.: Dot: M	*ENG	[-512 to 511 / 0 / 1 dot/step]
012	M. Cor.: Subdot: M	*ENG	[-15 to 15 / 0 / 1 pulse/step]

013	Paper Int. Mag: Subdot: M	*ENG	
014	Mag.Cor. Subdot: M	*ENG	[007/0, 007/7 /0 /1
015	M. Left Mag.: Subdot: M	*ENG	[-32768 to 32767 / 0 / 1 pulse/step]
016	M. Right Mag.: Subdot: M	*ENG	
017	S. Cor.: 600 Line: M	*ENG	[-16384 to 16383 / 0 / 1 line/step]
018	S. Cor.: 600 Sub: M	*ENG	[-1 to 1 / 0 / 0.001 line/step]
019	S. Cor.: 1200 Line: M	*ENG	[-16384 to 16383 / 0 / 1 line/step]
020	S. Cor.: 1200 Sub: M	*ENG	[-1 to 1 / 0 / 0.001 line/step]
021	Skew: C	*ENG	[-5000 to 5000 / 0 / 0.001 um/step]
023	M. Scan Erro.: Left: C	*ENG	
024	M. Scan Erro.: Center: C	*ENG	[-5000 to 5000 / 0 / 0.001 um/step]
025	M. Scan Erro.: Right: C	*ENG	
026	S. Scan Erro.: Left: C	*ENG	
027	S. Scan Erro.: Center: C	*ENG	[-5000 to 5000 / 0 / 0.001 um/step]
028	S. Scan Erro.: Right: C	*ENG	
029	M. Cor.: Dot: C	*ENG	[-512 to 511 / 0 / 1 dot/step]
030	M. Cor.: Subdot: C	*ENG	[-15 to 15 / 0 / 1 pulse/step]
031	Paper Int. Mag: Subdot: C	*ENG	
032	Mag.Cor. Subdot: C	*ENG	[22749 to 22747 / 0 / 1 mulas /stan]
033	M. Left Mag.: Subdot: C	*ENG	[-32768 to 32767 / 0 / 1 pulse/step]
034	M. Right Mag.: Subdot: C	*ENG	
035	S. Cor.: 600 Line: C	*ENG	[-16384 to 16383 / 0 / 1 line/step]
036	S. Cor.: 600 Sub: C	*ENG	[-1 to 1 / 0 / 0.001 line/step]
037	S. Cor.: 1200 Line: C	*ENG	[-16384 to 16383 / 0 / 1 line/step]
038	S. Cor.: 1200 Sub: C	*ENG	[-1 to 1 / 0 / 0.001 line/step]
	~	-	

039	Skew: Y	*ENG	[-5000 to 5000 / 0 / 0.001 um/step] [-512 to 511 / 0 / 1 dot/step] [-15 to 15 / 0 / 1 pulse/step] [-32768 to 32767 / 0 / 1 pulse/step]
041	M. Scan Erro.: Left: Y	*ENG	
042	M. Scan Erro.: Center: Y	*ENG	
043	M. Scan Erro.: Right: Y	*ENG	[-5000 to 5000 / 0 / 0.001 um/step]
044	S. Scan Erro.: Left: Y	*ENG	
045	S. Scan Erro.: Center: Y	*ENG	
046	S. Scan Erro.: Right: Y	*ENG	[-512 to 511 / 0 / 1 dot/step]
047	M. Cor.: Dot: Y	*ENG	[-512 to 511 / 0 / 1 dot/step]
048	M. Cor.: Subdot: Y	*ENG	[-15 to 15 / 0 / 1 pulse/step]
049	Paper Int. Mag: Subdot: Y	*ENG	[-512 to 511 / 0 / 1 dot/step] [-15 to 15 / 0 / 1 pulse/step]
050	Mag.Cor. Subdot: Y	*ENG	
051	M. Left Mag.: Subdot: Y	*ENG	
052	M. Right Mag.: Subdot: Y	*ENG	
053	S. Cor.: 600 Line: Y	*ENG	[-16384 to 16383 / 0 / 1 line/step]
054	S. Cor.: 600 Sub: Y	*ENG	[-1 to 1 / 0 / 0.001 line/step]
055	S. Cor.: 1200 Line: Y	*ENG	[-16384 to 16383 / 0 / 1 line/step]
056	S. Cor.: 1200 Sub: Y	*ENG	[-1 to 1 / 0 / 0.001 line/step]

	[Line Position Adj. Offset]
2182	(Color) M. Scan: Main scan, S. Scan: Sub-scan
	High: 154 mm/sec, Medium: 111 mm/sec, Low: 77 mm/sec

001	M Magnification	*ENG	Adjusts the line position manually.
002	C Magnification	*ENG	[-1 to 1 / 0 / 0.001%/step]
003	Y Magnification	*ENG	When line shifts are not corrected by the automatic line position adjustment, do this SP. Increasing a value reduces the image in the main scan direction.
			Decreasing a value enlarges the image in the main scan direction.
004	M. Scan: High: Dot: M	*ENG	[-512 to 511 / 0 / 1 dot/step]
005	M. Scan: High: Subdot: M	*ENG	[-15 to 15 / 0 / 1 pulse/step]
006	M. Scan: Medium: Dot: M	*ENG	[-512 to 511 / 0 / 1 dot/step]
007	M. Scan: Medium: Subdot: M	*ENG	[-15 to 15 / 0 / 1 pulse/step]
800	M. Scan: Low: Dot: M	*ENG	[-512 to 511 / 0 / 1 dot/step]
009	M. Scan: Low: Subdot: M	*ENG	[-15 to 15 / 0 / 1 pulse/step]
010	M. Scan: High: Dot: C	*ENG	[-512 to 511 / 0 / 1 dot/step]
011	M. Scan: High: Subdot: C	*ENG	[-15 to 15 / 0 / 1 pulse/step]
012	M. Scan: Medium: Dot: C	*ENG	[-512 to 511 / 0 / 1 dot/step]
013	M. Scan: Medium: Subdot: C	*ENG	[-15 to 15 / 0 / 1 pulse/step]
014	M. Scan: Low: Dot: C	*ENG	[-512 to 511 / 0 / 1 dot/step]
015	M. Scan: Low: Subdot: C	*ENG	[-15 to 15 / 0 / 1 pulse/step]
016	M. Scan: High: Dot: Y	*ENG	[-512 to 511 / 0 / 1 dot/step]
017	M. Scan: High: Subdot: Y	*ENG	[-15 to 15 / 0 / 1 pulse/step]
018	M. Scan: Medium: Dot: Y	*ENG	[-512 to 511 / 0 / 1 dot/step]
019	M. Scan: Medium: Subdot: Y	*ENG	[-15 to 15 / 0 / 1 pulse/step]
020	M. Scan: Low: Dot: Y	*ENG	[-512 to 511 / 0 / 1 dot/step]
021	M. Scan: Low: Subdot: Y	*ENG	[-15 to 15 / 0 / 1 pulse/step]
022	S. Scan: High: Line: M	*ENG	[-16384 to 16383 / 0 / 1 line/step]

023	S. Scan: High: Subline: M	*ENG	[-1 to 1 / 0 / 0.001 /line]
024	S. Scan: Medium: Line: M	*ENG	[-16384 to 16383 / 0 / 1 line/step]
025	S. Scan: Medium: Subline: M	*ENG	[-1 to 1 / 0 / 0.001 /line]
026	S. Scan: Low: Line: M	*ENG	[-16384 to 16383 / 0 / 1 line/step]
027	S. Scan: Low: Subline: M	*ENG	Not used
028	S. Scan: High: Line: C	*ENG	[-16384 to 16383 / 0 / 1 line/step]
029	S. Scan: High: Subline: C	*ENG	[-1 to 1 / 0 / 0.001 /line]
030	S. Scan: Medium: Line: C	*ENG	[-16384 to 16383 / 0 / 1 line/step]
031	S. Scan: Medium: Subline: C	*ENG	[-1 to 1 / 0 / 0.001 /line]
032	S. Scan: Low: Line: C	*ENG	[-16384 to 16383 / 0 / 1 line/step]
033	S. Scan: Low: Subline: C	*ENG	Not used
034	S. Scan: High: Line: Y	*ENG	[-16384 to 16383 / 0 / 1 line/step]
035	S. Scan: High: Subline: Y	*ENG	[-1 to 1 / 0 / 0.001 /line]
036	S. Scan: Medium: Line: Y	*ENG	[-16384 to 16383 / 0 / 1 line/step]
037	S. Scan: Medium: Subline: Y	*ENG	[-1 to 1 / 0 / 0.001 /line]
038	S. Scan: Low: Line: Y	*ENG	[-16384 to 16383 / 0 / 1 line/step]
039	S. Scan: Low: Subline: Y	*ENG	Not used

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001	Execute: High: Bk	-
002	Execute: Medium: Bk	-
003	Execute: Low: Bk	-
004	Execute: High: M	-
005	Execute: Medium: M	-
006	Execute: Low: M	-
007	Execute: High: C	-
008	Execute: Medium: C	-
009	Execute: Low: C	-
010	Execute: High: Y	-
011	Execute: Medium: Y	-
012	Execute: Low: Y	-

Executes the adjustment for the main scan length detection manually.

2184	[Main Scan Length Detection Target] DFU			
001	Execute: Bk	-		
002	Execute: M	-	Executes the target value for the main scan length	
003	Execute: C	-	detection.	
004	Execute: Y	-		

[Main Scan Length Detection Disp.] Displays/adjusts the target value for the main scan magnification correction of the line position adjustment. After replacing the laser optics housing unit, input the standard value for Bk provided with the new unit. For details, see "Laser Optics Housing Unit" in the "Replacement Adjustment" section. It is not necessary to input the values for the other colors; these are automatically adjusted after doing the line position adjustment.

001	Bk	*ENG	
002	М	*ENG	[0.4- 244447 / 240440 / 1 aub. dat/atau]
003	С	*ENG	[0 to 266667 / 249449 / 1 sub-dot/step]
004	Υ	*ENG	

	[Main Scan Length Detection] DFU			
001	Selection Enables or disables the main	*ENG	[0 or 1 / 1 / 1/step] 0: Mag. Correction OFF, 1: Mag. Correction ON	
Paper Interval *ENG [0 to 999 / 1 / 1 sec/step]				

2190	[Line Position Adj.] DFU		
001	Paper Int. Mag.: Subdot: Bk	*ENG	
002	Paper Int. Mag.: Subdot: M	*ENG	[0 or 1 / 1 / 1/step]
003	Paper Int. Mag.: Subdot: C	*ENG	[O or 1 / 1 / 1/step]
004	Paper Int. Mag.: Subdot: Y	*ENG	
005	M. Scan Mag.: Subdot: M	*ENG	[0 or 1 / 1 / 1/step]
006	M. Scan Mag.: Subdot: C	*ENG	0: Disable correction,
007	M. Scan Mag.: Subdot: Y	*ENG	1: Enable correction
800	Area Mag.: Subdot: M	*ENG	
009	Area Mag.: Subdot: C	*ENG	[0 or 1 / 1 / 1/step]
010	Area Mag.: Subdot: Y	*ENG	
012	Detection Error Level	*ENG	[-3500 to 3500 / 0 / 1 µm/step]

2191	[MUSIC Coefficient Setting] Line Position Adjustment: Coefficient Setting DFU			
	2191	ch 0: ID sensor at rear, ch 1: ID sensor at center, ch 2: ID sensor at front		

001	ch 0: Filter: Front: a1	*ENG	[-131071 to 131071 / 125869 / 1 bit/step]
002	ch 0: Filter: Front: a2	*ENG	[-131071 to 131071 / -60488 / 1 bit/step]
003	ch 0: Filter: Front: b0	*ENG	[-131071 to 131071 / 39 / 1 bit/step]
004	ch 0: Filter: Front: b1	*ENG	[-131071 to 131071 / 77 / 1 bit/step]
005	ch 0: Filter: Front: b2	*ENG	[-131071 to 131071 / 39 / 1 bit/step]
006	ch 0: Filter: Rear: a1	*ENG	[-131071 to 131071 / 128596 / 1 bit/step]
007	ch 0: Filter: Rear: a2	*ENG	[-131071 to 131071 / -63398 / 1 bit/step]
008	ch 0: Filter: Rear: b0	*ENG	[-131071 to 131071 / 84 / 1 bit/step]
009	ch 0: Filter: Rear: b1	*ENG	[-131071 to 131071 / 168 / 1 bit/step]
010	ch 0: Filter: Rear: b2	*ENG	[-131071 to 131071 / 84 / 1 bit/step]
011	ch 1: Filter: Front: a1	*ENG	[-131071 to 131071 / 125869 / 1 bit/step]
012	ch 1: Filter: Front: a2	*ENG	[-131071 to 131071 / -60488 / 1 bit/step]
013	ch 1: Filter: Front: b0	*ENG	[-131071 to 131071 / 39 / 1 bit/step]
014	ch 1: Filter: Front: b1	*ENG	[-131071 to 131071 / 77 / 1 bit/step]
015	ch 1: Filter: Front: b2	*ENG	[-131071 to 131071 / 39 / 1 bit/step]
016	ch 1: Filter: Rear: a1	*ENG	[-131071 to 131071 / 128596 / 1 bit/step]
017	ch 1: Filter: Rear: a2	*ENG	[-131071 to 131071 / -63398 / 1 bit/step]
018	ch 1: Filter: Rear: b0	*ENG	[-131071 to 131071 / 84 / 1 bit/step]
019	ch 1: Filter: Rear: b1	*ENG	[-131071 to 131071 / 168 / 1 bit/step]
020	ch 1: Filter: Rear: b2	*ENG	[-131071 to 131071 / 84 / 1 bit/step]
021	ch 2: Filter: Front: a1	*ENG	[-131071 to 131071 / 125869 / 1 bit/step]
022	ch 2: Filter: Front: a2	*ENG	[-131071 to 131071 / -60488 / 1 bit/step]
023	ch 2: Filter: Front: b0	*ENG	[-131071 to 131071 / 39 / 1 bit/step]
024	ch 2: Filter: Front: b1	*ENG	[-131071 to 131071 / 77 / 1 bit/step]
025	ch 2: Filter: Front: b2	*ENG	[-131071 to 131071 / 39 / 1 bit/step]
026	ch 2: Filter: Rear: a1	*ENG	[-131071 to 131071 / 128596 / 1 bit/step]

027	ch 2: Filter: Rear: a2	*ENG	[-131071 to 131071 / -63398 / 1 bit/step]
028	ch 2: Filter: Rear: b0	*ENG	[-131071 to 131071 / 84 / 1 bit/step]
029	ch 2: Filter: Rear: b1	*ENG	[-131071 to 131071 / 168 / 1 bit/step]
030	ch 2: Filter: Rear: b2	*ENG	[-131071 to 131071 / 84 / 1 bit/step]
031	Q Format Selection	*ENG	[0 to 3 / 3 / 1/step]

2192	[MUSIC Threshold Setting] Line Position Adjustment: Threshold Setting DFU ch 0: ID sensor at rear, ch 1: ID sensor at center, ch 2: ID sensor at front			
001	ch 0: 1st	*ENG		
002	ch 0: 2nd	*ENG		
003	ch 0: 3rd	*ENG		
004	ch 0: 4th	*ENG		
005	ch 1: 1st	*ENG		
006	ch 1: 2nd	*ENG	[0.5 to 2./1.0./0.1\//total	
007	ch 1: 3rd	*ENG	[0.5 to 3 / 1.2 / 0.1 V/step]	
800	ch 1: 4th	*ENG		
009	ch 2: 1st	*ENG		
010	ch 2: 2nd	*ENG		
011	ch 2: 3rd	*ENG		
012	ch 2: 4th	*ENG		

	2193	[MUSIC Condition Set] Line Position Adjustment: Condition Setting			
	001	Auto Execution	*ENG	[0 or 1 / 1 / 1] 0: OFF, 1: ON	
Enables/disables the automatic line position adjustment				on adjustment	

	Page: Job End: BW+FC	*ENG	[0 to 999 / 500 / 1 page/step]			
002	Adjusts the threshold of the line job end.	of the line position adjustment for BW and color printing mode after				
003	Page: Job End: FC	*ENG	[0 to 999 / 200 / 1 page/step]			
003	Adjusts the threshold of the line	e position	adjustment for color printing mode after job end.			
	Page: Interrupt: BW+FC	*ENG	[0 to 999 / 200 / 1 page/step]			
004	Adjusts the threshold of the line job.	e position	adjustment for BW and color printing mode during			
005	Page: Interrupt: FC	*ENG	[0 to 999 / 200 / 1 page/step]			
003	Adjusts the threshold of the line	e position	adjustment for color printing mode during jobs.			
	Page: Stand-By: BW	*ENG	[0 to 999 / 100 / 1 page/step]			
006	Adjusts the threshold of the line position adjustment for BW printing mode in stand- The line position adjustment is done when the number of outputs in BW printing mode the value specified with this SP and the condition of SP2-193-008 or SP2-193-0 satisfied.					
	Page: Stand-By: FC	*ENG	[0 to 999 / 100 / 1 page/step]			
007	Adjusts the threshold of the line position adjustment for BW printing mode in stand-by mode. The line position adjustment is done when the number of outputs in color printing mode reaches the value specified with this SP and the condition of SP2-193-008 or SP2-193-009 is satisfied.					
	Temp.	*ENG	[0 to 100 / 5 / 1deg/step]			
008	Adjust the temperature change threshold for the line position adjustment (Mode b: adjustment once). The timing for line position adjustment depends on the combinations of several conditions. Section Descriptions" section.					
	Time	*ENG	[1 to 1440 / 300 / 1 minute/step]			
009			ition adjustment (Mode b: adjustment once). The ads on the combinations of several conditions.			
	Magnification	*ENG	[0 to 1 / 0.1 / 0.01%/step]			
Adjusts the magnification threshold for line position adjustment. If the length of the ma is changed by this amount since the previous MUSIC, then MSUIC is done again.						

	Temp. 2	*ENG	[0 1	ro 100 / 10 / 1 deg/step]	
011	Adjust the temperature change threshold for the line position adjustment (Mode a: adjustment twice). The timing for line position adjustment depends on the combinations of several conditions.				
	Time 2	*ENG	[1 1	to 9999 / 600 / 1 minute/step]	
012	Adjust the time threshold for the line position adjustment (Mode a: adjustment twice). The timing for line position adjustment depends on the combinations of several conditions.				
	Page: Power ON:BW+FC		G	[0 to 999 / 200 / 1 page/step]	
013	Adjusts the threshold for the condition of the line position adjustment for BW and color printing mode. The condition of the line position adjustment is determined for large condition difference and small condition difference when the number of outputs in color printing mode reaches the value specified with this SP and the condition of SP3-510-009 or SP3-510-010 is satisfied. However, it is basically not necessary to adjust this SP.				

2194	[MUSIC Execution Result] Line Position Adjustment: Execution Result			
001	Year	*ENG	[0 to 99 / 0 / 1 year/step]	
001	Displays the year of the last	MUSIC ex	ecution.	
000	Month	*ENG	[1 to 12 / 1 / 1 month/step]	
002	Displays the month of the las	t MUSIC e	execution.	
003	Day	*ENG	[1 to 31 / 1 / 1 day/step]	
003	Displays the date of the last MUSIC execution.			
004	Hour	*ENG	[0 to 23 / 0 / 1 hour/step]	
004	Displays the time (hour) of the last MUSIC execution.			
005	Minute	*ENG	[0 to 59 / 0 / 1 minute/step]	
003	Displays the time (minute) of the last MUSIC execution.			
006	Temperature	*ENG	[0 to 100 / 0 / 1 deg/step]	
000	Displays the temperature of the last MUSIC execution.			
007	Execution Result	*ENG	[O or 1 / 0 / 1 /step] O: Completed successfully, 1: Failed	

008	Number of Execution	*ENG	[0 to 999999 / 0 / 1 times/step]
009	Number of Failure	*ENG	[0 to 999999 / 0 / 1 times/step]
010	Error Result: M	*ENG	[0 to 9 / 0 / 1 /step]
011	Error Result: C	*ENG	0: Not done
	012 Error Result: Y	*ENG	1: Completed successfully
			2: Cannot detect patterns
			3: Fewer lines on the pattern than the target
012			4: Not used
			5: Out of the adjustment range
			6 to 9: Not used

2197	[MUSIC Start Time]				
2197	DFU				
001	MUSIC Start Time (EDT)	*ENG	[10 to 40 / 20 / 10ms/step]		
002	TM Sensor Position	*ENG	[50 to 500 / 105.5 / 0.1 mm/step]		

[Music A/D Interval]			
2198	ADC Trigger Counter		
001	ADC Trigger Counter	*ENG	[7.5 to 20 / 10 / 0.1 µs/step]

2199	[Music Error Time Setting]			
2199	DFU			
001	Error Detection Counter	*ENG	[0.5 to 4 / 2.5 / 0.1 sec /step]	

2220	[Skew Origin Set]				
Executes the skew motor initialization in the laser of		e laser optics unit.			
001	M: Skew Motor	-	-		
002	C: Skew Motor	-	-		
003	Y: Skew Motor	-	-		

	[LD Power] LD Power Control			
2221	Adjusts the fixed LD power for each line speed and color.			
	These SPs are activated only when SP3-041-002 is set to "0".			
	Plain: High speed, Thick 1: Mid	ddle speed	Thick 2&Fine: Low speed	
001	Plain: Bk	*ENG		
002	Plain: M	*ENG		
003	Plain: C	*ENG		
004	Plain: Y	*ENG		
005	Thick 1: Bk	*ENG		
006	Thick 1: M	*ENG	[0 to 200 / 100 / 1%/step]	
007	Thick 1: C	*ENG	Increasing this value makes the image density darker.	
008	Thick 1: Y	*ENG		
009	Thick 2&FINE: Bk	*ENG		
010	Thick 2&FINE: M	*ENG		
011	Thick 2&FINE: C	*ENG		
012	Thick 2&FINE: Y	*ENG		

		[Development DC Vias] Development DC Bias Adjustment				
		Adjusts the development bias.				
2	229	Development bias is automatically adjusted during process control; therefore, adjusting these settings has no effect while Process Control (SP3-041-001 Default: ON) is activated.				
		After deactivating Process Control with SP3-041-001, the values in these SP modes are used for printing.				
		Plain: High speed, Thick 1: Middle speed, Thick 2&Fine: Low speed				

001	Plain: Bk	*ENG	
002	Plain: M	*ENG	
003	Plain: C	*ENG	
004	Plain: Y	*ENG	
005	Thick 1: Bk	*ENG	
006	Thick 1: M	*ENG	[0
007	Thick 1: C	*ENG	וַע
008	Thick 1: Y	*ENG	
009	Thick 2&FINE:Bk	*ENG	
010	Thick 2&FINE:M	*ENG	
011	Thick 2&FINE:C	*ENG	
012	Thick 2&FINE:Y	*ENG	

[0 to 800 / **550** / 10 –V/step]

2241	[Temperature/Humidity: Display]				
2241	Displays the environment temperature and humidity.				
001	Temperature	-	[-1280 to 1270 / - / 0.1deg/step]		
002	Relative Humidity	-	[0 to 1000 / - / 0.1 %RH/step]		
003	Absolute Humidity	-	[0 to 100 / - / 0.01 g/m ³ /step]		

2302	[Environmental Correction: Transfer] Environmental Correction: Image Transfer Belt Unit		
001	Current Environmental Display	-	Displays the current environment condition.

		ĺ	
			Sets the environment condition manually.
			[0 to 6 / 0 / 1 /step]
			0: Automatic environment control
002	Forced Setting	*ENG	1: LL (Low temperature/ Low humidity)
002	Torced Selling	LING	2: ML (Middle temperature/ Low humidity)
			3: MM (Middle temperature/ Middle humidity)
			4: MH (Middle temperature/ High humidity)
			5: HH (High temperature/ High humidity)
	003 Absolute Humidity: *ENG	4-1-	Adjusts the threshold value between LL and ML.
003		*ENG	[0 to 100 / 4 / 0.01 g/m ³ /step]
004	Absolute Humidity:	*5.10	Adjusts the threshold value between ML and MM.
004	Threshold 2	*ENG	[0 to 100 / 8 / 0.01 g/m ³ /step]
	Absolute Humidity:		Adjusts the threshold value between MM and MH.
005	Threshold 3	*ENG	[0 to 100 / 16 / 0.01 g/m ³ /step]
	OO6 Absolute Humidity: *ENG	Adjusts the threshold value between MH and HH.	
006		*ENG	[0 to 100 / 24 / 0.01 g/m ³ /step]
007	T T 1 1 1 1	*F\10	
007	Temp Threshold	*ENG	[-5 to 30 / 5 / 1 deg/step]

2308	[Paper Size Correction]				
2300	Adjusts the threshold value for the paper size correction.				
001	Threshold 1	*ENG	[0 to 350 / 297 / 1 mm/step] Threshold 1 < paper: Paper is detected as "S1" size.		
002	Threshold 2	*ENG	[0 to 350 / 257 / 1 mm/step] Threshold 2 < paper < Threshold 1: Paper is detected as "S2" size.		
003	Threshold 3	*ENG	[0 to 350 / 210 / 1 mm/step] Threshold 3 < paper < Threshold 2: Paper is detected as "S3" size.		

004	Threshold 4	*ENG	[0 to 350 / 148 / 1 mm/step] Threshold 4 < paper < Threshold 3: Paper is detected as "S4" size. Paper < Threshold 4:
			Paper is detected as "S5" size.

2311	[Non Image Area: Bias]				
001	Image Transfer	*ENG	Adjusts the bias of the image transfer belt between images. This value is added to the value of the image transfer belt bias. [10 to 250 / 100 / 5 %/step]		
002	Paper Transfer	*ENG	Adjusts the bias of the paper transfer roller between images. [0 to 2000 / 500 / 1 V/step]		

2326	[Transfer Roller CL: Bias] Transfer Roller Cleaning: Bias Adjustment						
001	Positive	*ENG	[0 to 2100 / 500 / 100 V /step]				
001	Adjusts the positive voltage o	Adjusts the positive voltage of the paper transfer roller for cleaning the paper transfer roller.					
002	Negative	*ENG	[10 to 400 / 100 / 10 %/step]				
002	Adjusts the negative current of the paper transfer roller for cleaning the paper transfer roller.						
	Positive	*ENG	[0 to 2100 / 2000 / 100 V/step]				
003	Adjusts the negative current limit of the paper transfer roller for cleaning the paper transfer roller.						
004	Negative	*ENG	[10 to 400 / 100 / 10 %/step]				

2351	[Common: BW: Bias] Image Transfer Belt: B/W: Bias Adjustment Plain: High speed, Thick 1: Middle speed, Thick 2&Fine: Low speed			
001	ITB unit: Plain	*ENG	[0 to 80 / 25 / 1 µA]	
001	Adjusts the current for the image transfer belt in B/W mode for plain paper.			

	002	ITB unit: Thick 1	*ENG	[0 to 80 / 12 / 1 µA]		
	002	Adjusts the current for the image transfer belt in B/W mode for thick 1 paper.				
	003	ITB unit: Thick 2 & FINE	*ENG	[0 to 80 / 12 / 1 µA]		
		Adjusts the current for the image transfer belt in B/W mode for thick 2 paper or FINE mode.				

2357	[Common: FC: Bias] Image Transfer Belt: Full Color: Bias Adjustment				
	Plain: High speed, Thick 1: Middle speed, Thick 2&Fine: Low speed				
001	ITB unit: Plain: Bk	*ENG	[0 to 80 / 22 / 1 µA]		
001	Adjusts the current for the imag	je transfer l	oelt for Black in full color mode for plain paper.		
002	ITB unit: Plain: M	*ENG	[0 to 80 / 25 / 1 µA]		
002	Adjusts the current for the imag	e transfer b	elt for Magenta in full color mode for plain paper.		
003	ITB unit: Plain: C	*ENG	[0 to 80 / 22 / 1 µA]		
003	Adjusts the current for the imag	je transfer l	oelt for Cyan in full color mode for plain paper.		
004	ITB unit: Plain: Y	*ENG	[0 to 80 / 28 / 1 µA]		
004	Adjusts the current for the image transfer belt for Yellow in full color mode for plain paper.				
005	ITB unit: Thick 1: Bk	*ENG	[0 to 80 / 11 / 1 µA]		
003	Adjusts the current for the image transfer belt for Black in full color mode for thick 1 paper.				
004	ITB unit: Thick 1: M	*ENG	[0 to 80 / 12 / 1 µA]		
006	Adjusts the current for the image transfer belt for Magenta in full color mode for thick 1 paper.				
007	ITB unit: Thick 1: C	*ENG	[0 to 80 / 11 / 1 µA]		
007	Adjusts the current for the image transfer belt for Cyan in full color mode for thick 1 paper.				
008	ITB unit: Thick 1: Y	*ENG	[0 to 80 / 14 / 1 µA]		
008	Adjusts the current for the image transfer belt for Yellow in full color mode for thick 1 paper.				
000	ITB unit: Thick 2 & FINE: Bk	*ENG	[0 to 80 / 11 / 1 µA]		
009	Adjusts the current for the image transfer belt for Black in full color mode for Thick 2 and fine.				

	ITB unit: Thick 2 & FINE: M	*ENG	[0 to 80 / 12 / 1 µA]			
010	Adjusts the current for the image transfer befine.	elt for Mage	nta in full color mode for Thick 2 and			
011	ITB unit: Thick 2 & FINE: C	*ENG	[0 to 80 / 11 / 1 µA]			
011	Adjusts the current for the image transfer belt for Cyan in full color mode for Thick 2 and fine.					
	ITB unit: Thick 2 & FINE: Y	*ENG	[0 to 80 / 14 / 1 µA]			
012	Adjusts the current for the image transfer belt for Yellow in full color mode for Thick 2 and fine.					

2360	[Common: BW Environment Correction Table]				
001	Image Transfer: Plain	*ENG	[] +- 40 /1 /1 /++]		
002	Image Transfer: Thick 1	*ENG	[1 to 60 / 1 / 1 /step]		
004	Image Transfer: Plain: Bk	*ENG	[1 to 60 / 13 / 1 /step]		
005	Image Transfer: Plain: M	*ENG			
006	Image Transfer: Plain: C	*ENG	[1 to 60 / 2 / 1 /step]		
007	Image Transfer: Plain: Y	*ENG			
800	Image Transfer: Thick 1: Bk	*ENG	[1 to 60 / 31 / 1 /step]		
009	Image Transfer: Thick 1: M	*ENG			
010	Image Transfer: Thick 1: C	*ENG	[1 to 60 / 2 / 1 /step]		
011	Image Transfer: Thick 1: Y	*ENG			

	[Plain: Bias]					
2401	Adjusts the DC voltage of the discharge plate for plain paper. Plain: High speed, 1200: Low speed					
001	Separation DC: Plain: 1st Side	*ENG	[0 to 4000 / 0 / 10 –V/step]			
002	Separation DC: Plain: 2nd Side	*ENG	[0 to 4000 / 0 / 10 –V/step]			
003	Separation DC: 1200: 1st Page	*ENG	[0 to 4000 / 0 / 10 –V/step]			
004	Separation DC: 1200: 2nd side	*ENG	[0 to 4000 / 0 / 10 –V/step]			

	[Plain: Bias: BW]				
2403	Adjusts the current for the paper transfer roller for plain paper in black-and-white mode. Plain: High speed, 1200: Low speed				
001	Paper Transfer: Plain: 1 st Side	*ENG			
002	Paper Transfer: Plain: 2nd Side	*ENG	[0 to 250 / 22 / 1 – µA /step]		
003	Paper Transfer: 1200: 1st Side	*ENG	[0 to 250 / 7 / 1 – µA /step]		
004	Paper Transfer: 1200: 2nd side	*ENG	[0 to 250 / 12 / 1 – µA /step]		

	[Plain: Bias: FC]				
2407	Adjusts the current for the paper transfer roller for plain paper in full color mode. Plain: High speed, 1200: Low speed				
001	Paper Transfer: Plain: 1 st Side	*ENG	[0 to 250 / 27 / 1 – µA /step]		
002	Paper Transfer: Plain: 2nd Side	*ENG	[0 to 250 / 33 / 1 – µA /step]		
003	Paper Transfer: 1200: 1st Side	*ENG	[0 to 250 / 10 / 1 – µA /step]		
004	Paper Transfer: 1200: 2nd side	*ENG	[0 to 250 / 12 / 1 – µA /step]		

	[Plain: Paper Size Correction]
2411	Adjusts the size correction coefficient for the paper transfer roller current for each paper size. SP2403 and SP2407 are multiplied by these SP values. Plain: High speed, 1200: Low speed

001	Paper Transfer: Plain : 1st Side: S1	*ENG	
002	Paper Transfer: Plain: 2nd Side: S1	*ENG	[100 to 600 / 100 / 5%/step]
003	Separation DC: 1200: 1st Side	*ENG	S1 size > 297 mm (Paper width)
004	Separation DC: 1200: 2nd Side	*ENG	
005	Paper Transfer: Plain: 1 st Side: S2	*ENG	[100 to 600 / 105 / 5%/step] 297 mm > S2 size > 275 mm (Paper width)
006	Paper Transfer: Plain: 2nd Side: S2	*ENG	[100 to 600 / 120 / 5%/step] 297 mm > S2 size > 275 mm (Paper width)
007	Paper Transfer: 1200: 1st Side: S2	*ENG	[100 to 600 / 120 / 5%/step] 297 mm > S2 size > 275 mm (Paper width)
008	Paper Transfer: 1200: 2nd Side: S2	*ENG	[100 to 600 / 150 / 5%/step]
009	Paper Transfer: Plain: 1 st Side: S3	*ENG	[100 to 600 / 110 / 5%/step] 275 mm > S3 size > 210 mm (Paper width)
010	Paper Transfer: Plain: 2nd Side: S3	*ENG	[100 to 600 / 140 / 5%/step]
011	Paper Transfer: 1200: 1st Side: S3	*ENG	275 mm > S3 size > 210 mm (Paper width)
012	Paper Transfer: 1200: 2nd Side: S3	*ENG	[100 to 600 / 300 / 5%/step]
013	Paper Transfer: Plain: 1 st Side: S4	*ENG	[100 to 600 / 115 / 5%/step] 210 mm > S4 size > 148 mm (Paper width)
014	Paper Transfer: Plain: 2nd Side: S4	*ENG	[100 to 600 / 160 / 5%/step] 210 mm > S4 size > 148 mm (Paper width)
015	Paper Transfer: 1200: 1st Side: S4	*ENG	[100 to 600 / 240 / 5%/step] 210 mm > S4 size > 148 mm (Paper width)

016	Paper Transfer: 1200: 2nd Side: S4	*ENG	[100 to 600 / 340 / 5%/step]
017	Paper Transfer: Plain: 1 st Side: S5	*ENG	[100 to 600 / 120 / 5%/step] 148 mm > S5 size (Paper width)
018	Paper Transfer: Plain: 2nd Side: S5	*ENG	[100 to 600 / 180 / 5%/step] 148 mm > S5 size (Paper width)
019	Paper Transfer: 1200: 1st Side: S5	*ENG	[100 to 600 / 300 / 5%/step] 148 mm > S5 size (Paper width)
020	Paper Transfer: 1200: 2nd Side: S5	*ENG	[100 to 600 / 400 / 5%/step]

	[Plain: Leading Edge Correction] Plain Paper: Leading Edge Correction			
	Adjusts the correction to the paper transfer roller current at the paper leading edge in each mode. SP2403 and SP2407 are multiplied by these SP values.			
2421	Plain: High speed, 1200: Lo	w speed		
	♦ Note			
	The paper leading edg	e area can b	e adjusted with SP2422.	
001	Paper Transfer: Plain: 1st *ENG [0 to 400 /		[0 to 400 / 100 / 5%/step]	
002	Paper Transfer: Plain: 2nd Side	*ENG	[0 to 400 / 100 / 5%/step]	
003	Paper Transfer: 1200: 1st Side	*ENG	[0 to 400 / 100 / 5% /stam]	
004	Paper Transfer: 1200: 2nd side	*ENG	[0 to 400 / 100 / 5%/step]	
2421	Adjusts the correction to the discharge plate current at the paper leading edge in each mode. SP2401 is multiplied by these SPs values.			
005-008	Note			
	The paper leading edge area can be adjusted with SP2422.			

005	Separation DC: Plain: 1st Side	*ENG	
006	Separation DC: Plain: 2nd Side	*ENG	[0.4-400 / 100 / 59/ /-4]
007	Separation DC: 1200: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]
008	Separation DC: 1200: 2nd Side	*ENG	

	[Plain: Switch Timing: Lead. Ed	ge]		
2422	Adjusts the bias/voltage switch timing of the paper transfer roller/discharge plate at the paper leading edge between the erase margin area and the image area.			
	Plain: High speed, 1200: Low speed			
001	Paper Transfer: Plain: 1 st Side	*ENG		
002	Paper Transfer: Plain: 2nd Side	*ENG		
003	Paper Transfer: 1200: 1st Side	*ENG		
004	Paper Transfer: 1200: 2nd side	*ENG	[0.50.40.42	
005	Separation DC: Plain: 1 st Side	*ENG	[0 to 50 / 0 / 2 mm/step]	
006	Separation DC: Plain: 2nd Side	*ENG		
007	Separation DC: 1200: 1st Side	*ENG		
008	Separation DC: 1200: 2nd Side	*ENG		

	[Plain: Trailing Edge Correction] Plain Paper: Trailing Edge Correction						
0.400	Adjusts the correction coefficient to the paper transfer roller current for the paper trailing edge in each mode. SP2403 and SP2407 are multiplied by these SP values.						
2423	Plain: High speed, 1200: Low	Plain: High speed, 1200: Low speed					
	UNote						
	The paper trailing edge a	rea can be a	djusted with SP2424.				
001	Paper Transfer: Plain: 1 st Side	*ENG					
002	Paper Transfer: Plain: 2nd Side	*ENG					
003	Paper Transfer: 1200: 1st Side	*ENG					
004	Paper Transfer: 1200: 2nd side	*ENG	[0 to 400 / 100 / 5%/step]				
005	Separation DC: Plain: 1 st Side	*ENG	[0 10 400 / 100 / 3/6/ siep]				
006	Separation DC: Plain: 2nd Side	*ENG					
007	Separation DC: 1200: 1st Side	*ENG					
008	Separation DC: 1200: 2nd Side	*ENG					

	[Plain: Switch Timing: Trail. Edge]
2424	Adjusts the bias/voltage switch timing of the paper transfer roller/discharge plate at the paper trailing edge between the erase margin area and the image area. Plain: High speed, 1200: Low speed

001	Paper Transfer: Plain: 1st Side	*ENG	
002	Paper Transfer: Plain: 2nd Side	*ENG	[0 to 50 / 0 / 2 mm/step]
003	Paper Transfer: 1200: 1st Side	*ENG	
004	Paper Transfer: 1200: 2nd side	*ENG	
005	Separation DC: Plain: 1st Side	*ENG	
006	Separation DC: Plain: 2nd Side	*ENG	
007	Separation DC: 1200: 1st Side	*ENG	
800	Separation DC: 1200: 2nd Side	*ENG	

2430	[Plain: Environment Correction] DFU Plain: High speed, 1200: Low speed		
001	Separation DC: Plain: 1st Page	*ENG	[1 to 60 / 26 / 1 /step]
002	Separation DC: Plain: 2nd Page	*ENG	[1 to 60 / 32 / 1 /step]
003	Paper Transfer: BW: 1 st Side	*ENG	[1 to 60 / 1 / 1 /step]
004	Paper Transfer: BW: 2nd Side	*ENG	[1 to 60 / 11 / 1 /step]
005	Paper Transfer: FC: 1st Side	*ENG	[1 to 60 / 39 / 1 /step]
006	Paper Transfer: FC: 2nd Side	*ENG	[1 to 60 / 14 / 1 /step]
007	Separation DC: 1200: 1st Page	*ENG	[1 to 60 / 26 / 1 /step]
008	Separation DC: 1200: 2nd side	*ENG	[1 to 60 / 32 / 1 /step]
009	Paper Transfer: 1200: BW: 1st Side	*ENG	[] + 40 / 11 / 1 / +]
010	Paper Transfer: 1200: BW: 2	*ENG	[1 to 60 / 11 / 1 /step]
011	Paper Transfer: 1200: FC: 1st Side	*ENG	[] +- 40 / 40 / 1 /]
012	Paper Transfer: 1200: FC: 2	*ENG	[1 to 60 / 49 / 1 /step]

	[Thin: Bias]	
	2451	Adjusts the DC voltage of the discharge plate for thin paper.
		Plain: High speed, 1200: Low speed

001	Separation DC: Plain: 1st Side	*ENG	[0 to 4000 / 2000 / 10 –V/	
003	Separation DC: 1200: 1st Page	*ENG	step]	

	[Thin: Bias: BW]		
2453	Adjusts the current for the paper transfer roller for thin paper in black-and-white mode. Plain: High speed, 1200: Low speed		
001	Paper Transfer: Plain: 1st Side	*ENG	[0 to 250 / 22 / 1 – µA /step]
003	Paper Transfer: 1200: 1st Side	*ENG	[0 to 250 / 11 / 1 - #A /step]

	[Thin: Bias: FC]			
2457	Adjusts the current for the paper transfer roller for thin paper in full color mode. Plain: High speed, 1200: Low speed			
001	Paper Transfer: Plain: 1st Side	*ENG	[0 to 250 / 30 / 1 – µA /step]	
003	Paper Transfer: 1200: 1st Side	*ENG	[0 to 250 / 15 / 1 – µA /step]	

	[Thin: Paper Size Correction]		
2461	Adjusts the size correction coefficient for the paper transfer roller current for each paper SP2453 and SP2457 are multiplied by these SP values.		
	Plain: High speed		
001	Paper Transfer: Plain: 1st Side: S1	*ENG	[100 to 600 / 100 / 5%/step] S1 size > 297 mm (Paper width)
005	Paper Transfer: Plain: 1st Side: S2	*ENG	[100 to 600 / 120 / 5%/step] 297 mm > S2 size > 275 mm (Paper width)
009	Paper Transfer: Plain: 1st Side: S3	*ENG	[100 to 600 / 140 / 5%/step] 297 mm > S2 size > 275 mm (Paper width)
013	Paper Transfer: Plain: 1st Side: S4	*ENG	[100 to 600 / 160 / 5%/step] 297 mm > S2 size > 275 mm (Pape r width)

017 Paper Transfer: Plain: 1st Side: S5 *ENG [100 to 600 / 180 / 5%/step]	
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	[Thin: Leading Edge Correction] Thin Paper: Leading Edge Correction			
	Adjusts the correction to the paper transfer roller current at the paper leading edge in each mode. SP2453 and SP2457 are multiplied by these SP values.			
2471	Plain: High speed, 1200: Low speed			
	Note			
	The paper leading edge area can be adjusted with SP2472.			
001	Paper Transfer: Plain: 1st Side	*ENG	[0.4-400/100/59//]	
003	Paper Transfer: 1200: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]	
2471	Adjusts the correction to the discharge plate current at the paper leading edge in each mode SP2451 is multiplied by these SP values. • Note			
	The paper leading edge area can be adjusted with SP2472.			
005	Separation DC: Plain: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]	
007	Separation DC: 1200: 1st Side	*ENG	[0 10 400 / 100 / 3 %/ siep]	

	[Thin: Switch Timing: Lead. Edge]		
2472	Adjusts the bias/voltage switch timing of the paper transfer roller/discharge plate at the paper leading edge between the erase margin area and the image area. Plain: High speed, 1200: Low speed,		
001	Paper Transfer: Plain: 1st Side	*ENG	
003	Paper Transfer: 1200: 1st Side	*ENG	[0.4-50 / 0. / 2 /]
005	Separation DC: Plain: 1st Side	*ENG	[0 to 50 / 0 / 2 mm/step]
007	Separation DC: 1200: 1st Side	*ENG	

	[Thin: Trailing Edge Correction] Thin Paper: Trailing Edge Correction			
	Adjusts the correction coefficient to the paper transfer roller current for the paper trailing edge in each mode. SP2453 and SP2457 are multiplied by these SP values.			
2473	Plain: High speed, 1200: Low speed Note			
	The paper trailing edge area can be adjusted with SP2474.			
001	Paper Transfer: Plain: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]	
003	Paper Transfer: 1200: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]	
005	Separation DC: Plain: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]	
007	Separation DC: 1200: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]	

	[Thin: Switch Timing: Trail. Edge]		
2474	Adjusts the bias/voltage switch timing of the paper transfer roller/discharge plate at the paper trailing edge between the erase margin area and the image area. Plain: High speed, 1200: Low speed		
001	Paper Transfer: Plain: 1st Side	*ENG	[0. 50 / 2 / 2 / .]
003	Paper Transfer: 1200: 1st Side	*ENG	[0 to 50 / 0 / 2 mm/step]
005	Separation DC: Plain: 1st Side	*ENG	[0+, 50 / 0 / 1 / +]
007	Separation DC: 1200: 1st Side	*ENG	[0 to 50 / 0 / 1 mm/step]

2480	[Thin: Environment Correction] Plain: High speed, 1200: Low speed		
001	Separation DC: Plain: 1st Side	*ENG	[1 to 60 / 26 / 1 /step]
003	Paper Transfer: Plain: BW: 1st Side	*ENG	[1 to 60 / 11 / 1 /step]
005	Paper Transfer: Plain: FC: 1st Side	*ENG	[1 to 60 / 1 / 1 /step]
007	Separation DC: 1200: 1st Side	*ENG	[1 to 60 / 26 / 1 /step]
009	Paper Transfer: 1200: BW: 1st Side	*ENG	[1 to 60 / 11 / 1 /step]
011	Paper Transfer: 1200: FC: 1st Side	*ENG	[1 to 60 / 1 / 1 /step]

2481	[Glossy: Bias]		
001	Separation DC: Glossy: 1st Side	*ENG	[0 to 4000 / 2000 / 10 –V/step]
001	Adjusts the DC voltage of the discharge plate for glossy paper.		

2482	[Glossy: Bias: BW]			
001	Paper Transfer: Glossy: 1st Side	*ENG	[0 to 250 / 12 / 1 - µA / step]	
001	Adjusts the current for the paper trans	fer roller for glossy paper in black-and-white mode.		

2483	[Glossy: Bias: FC]			
001	Paper Transfer: Glossy: 1st Side	*ENG	[0 to 250 / 15 / 1 – µA /step]	
001	Adjusts the current for the paper trans	sfer roller for glossy paper in full color mode.		

2484	[Glossy: Paper Size Correction]		
001	Paper Transfer: Glossy: 1st Side: S1	*ENG	[100 to 600 / 100 / 5%/step]
005	Paper Transfer: Glossy: 1st Side: S2	*ENG	[100 to 600 / 120 / 5%/step]
009	Paper Transfer: Glossy: 1st Side: S3	*ENG	[100 to 600 / 140 / 5%/step]
013	Paper Transfer: Glossy: 1st Side: S4	*ENG	[100 to 600 / 160 / 5%/step]
017	Paper Transfer: Glossy: 1st Side: S5	*ENG	[100 to 600 / 180 / 5%/step]

2485	[Glossy: Leading Edge Correction]		
001	Paper Transfer: 1st Side	*ENG	[10 to 400 / 100 / 5%/step]
005	Separation DC: 1st Side	*ENG	[10 to 400 / 100 / 5%/step]]

2486	[Glossy: Switch Timing: Lead. Edge]		
001	Paper Transfer: 1st Side	*ENG	[0 to 50 / 0 / 2 mm/step]
005	Separation DC: 1st Side	*ENG	[O IO SO / O / Z mm/step]

2487	[Glossy: Trailing Edge Correction]
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001	Paper Transfer: 1st Side	*ENG	[0 to 400 / 100 / 5 %/step]
005	Separation DC: 1st Side	*ENG	[0 10 400 / 100 / 3 %/ siep]

2488	[Glossy: Switch Timing: Trail. Edge]		
001	Paper Transfer: 1st Side	*ENG	[0 to 50 / 0 / 2 mm/step]
005	Separation DC: 1st Side	*ENG	[O to 30 / O / 2 mm/ step]

2489	[Glossy: Environment Correction]		
001	Separation DC: 1st Side	*ENG	[1 to 60 / 26 / 1 /step]
003	Paper Transfer: BW: 1st Side	*ENG	[1 to 60 / 11 / 1 /step]
005	Paper Transfer: FC: 2nd Side	*ENG	[1 to 60 / 1 / 1 /step]

	[Thick 1: Bias]			
2501	Adjusts the DC voltage of the discharge plate for thick 1 paper. Plain: High speed, 1200: Low speed			
001	Separation DC: Plain: 1st Side	*ENG		
002	Separation DC: Plain: 2nd Side	*ENG	[0 to 4000 / 1000 / 10 -V/step]	
003	Separation DC: 1200: 1st Side	*ENG		

	[Thick 1: Bias: BW]			
Adjusts the current for the paper transfer roller Plain: High speed, 1200: Low speed			hick 1 paper in black-and-white mode.	
001	Paper Transfer: Plain: 1st Side	*ENG	[0+-250/24/1-44/4-4]	
002	Paper Transfer: Plain: 2nd Side	*ENG	[0 to 250 / 24 / 1 – µA /step]	
003	Separation DC: 1200: 1st Side	*ENG	[0 to 250 / 12 / 1 – µA /step]	

	[Thick 1: Bias: FC]
2507	Adjusts the current for the paper transfer roller for thick 1 paper in full color mode.
	Plain: High speed, 1200: Low speed

001	Paper Transfer: Plain: 1st Side	*ENG	[0 to 250 / 30 / 1 – µA /step]	
002	Paper Transfer: Plain: 2nd Side	*ENG	[0 10 230 / 30 / 1 -MA / siep]	
003	Separation DC: 1200: 1st Side	*ENG	[0 to 250 / 15 / 1 –µA /step]	

	Thick 1: Paper Size Correction]			
Adjusts the size correction coefficient for the paper transfer roll SP2502 and SP2507 are multiplied by these SP values.				
	Plain: High speed, 1200: Low speed			
001	Paper Transfer: Plain: 1st Side: S1	*ENG	[100 to 600 / 100 / 5%/step]	
002	Paper Transfer: Plain: 2nd Side: S1	*ENG	S1 size > 297 mm (Paper width)	
003	Paper Transfer: 1200: 1st Side: S1	*ENG	[100 to 600 / 100 / 5%/step] S1 size > 297 mm (Paper width)	
005	Paper Transfer: Plain: 1st Side: S2	*ENG	[100 to 600 / 105 / 5%/step] 297 mm > S2 size > 275 mm (Paper width)	
006	Paper Transfer: Plain: 2nd Side: S2	*ENG	[100 to 600 / 130 / 5%/step] 297 mm > S2 size > 275 mm (Paper width)	
007	Paper Transfer: 1200: 1st Side: S2	*ENG	[100 to 600 / 120 / 5%/step] 297 mm > S2 size > 275 mm (Paper width)	
009	Paper Transfer: Plain: 1st Side: S3	*ENG	[100 to 600 / 110 / 5%/step] 275 mm > S3 size > 210 mm (Paper width)	
010	Paper Transfer: Plain: 2nd Side: S3	*ENG	[100 to 600 / 160 / 5%/step] 275 mm > S3 size > 210 mm (Paper width)	
011	Paper Transfer: 1200: 1st Side: S3	*ENG	[100 to 600 / 140 / 5%/step] 275 mm > S3 size > 210 mm (Paper width)	

013	Paper Transfer: Plain 1: 1st Side: S4	*ENG	[100 to 600 / 115 / 5%/step] 210 mm > S4 size > 148 mm (Paper width)
014	Paper Transfer: Plain: 2nd Side: S4	*ENG	[100 to 600 / 190 / 5%/step] 210 mm > S4 size > 148 mm (Paper width)
015	Paper Transfer: 1200: 1st Side: S4	*ENG	[100 to 600 / 160 / 5%/step] 210 mm > S4 size > 148 mm (Paper width)
017	Paper Transfer: Plain 1: 1st Side: S5	*ENG	[100 to 600 / 120 / 5%/step] 148 mm > S5 size (Paper width)
018	Paper Transfer: Plain: 2nd Side: S5	*ENG	[100 to 600 / 220 / 5%/step] 148 mm > S5 size (Paper width)
019	Paper Transfer: 1200: 1st Side: S5	*ENG	[100 to 600 / 180 / 5%/step] 148 mm > S5 size (Paper width)

	[Thick 1: Leading Edge Correction] Thick 1 Paper: Leading Edge Correction				
0.501	Adjusts the correction to the paper transfer roller current at the paper leading edge in each mode. SP2502 and SP2507 are multiplied by these SP values.				
2521	Thick 1: Middle speed, 1200: Low speed				
	 Note The paper leading edge area can be adjusted with SP2522. 				
001	Paper Transfer: Plain: 1st Side	*ENG	[0.4, 400 / 100 / 59/ / 4]		
002	Paper Transfer: Plain: 2nd Side	*ENG	[0 to 400 / 100 / 5%/step]		
003	Paper Transfer: 1200: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]		
005	Separation DC: Plain: 1st Side	*ENG	[0.1.400/100/59/41]		
006	Separation DC: Plain: 2nd Side	*ENG	[0 to 400 / 100 / 5%/step]		
007	Separation DC: 1200: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]		

	[Thick 1: Switch Timing: Lead. Edge]			
2522	Adjusts the bias/voltage switch timing of the paper transfer roller/discharge plate at paper leading edge between the erase margin area and the image area.			
	Thick 1: Middle speed, 1200: Low speed			
001	Paper Transfer: Thick 1: 1st Side	*ENG	[0.45 50 / 0 / 2 /-4]	
002	Paper Transfer: Thick 1: 2nd Side	*ENG	[0 to 50 / 0 / 2 mm/step]	
005	Separation DC: Thick 1: 1st Side	*ENG	[0.4-50 / 0 / 2 /]	
006	Separation DC: Thick 1: 2nd Side	*ENG	[0 to 50 / 0 / 2 mm/step]	

	[Thick 1: Trailing Edge Correction] Thick 1 Paper: Trailing Edge Correction				
	Adjusts the correction coefficient to the paper transfer roller current for the paper trailing edge in each mode. SP2502 and SP2507 are multiplied by these SP values.				
2523	Thick 1: Middle speed, 1200: Low speed				
	Note				
The paper trailing edge area can be adjusted with SP2524.					
001	Paper Transfer: Plain: 1st Side	*ENG			
002	Paper Transfer: Plain: 2nd Side	*ENG	[0 to 400 / 100 / 5%/step]		
003	Paper Transfer: 1200: 1st Side	*ENG	[0 to 400 / 100 / 3 %/ step]		
005	Paper Transfer: Plain: 1st Side	*ENG			
006	Paper Transfer: Plain: 2nd Side	*ENG	[0 to 400 / 100 / 5% /stan]		
007	Paper Transfer: 1200: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]		

	[Thick 1: Switch Timing: Trail. Edge]
2524	Adjusts the bias/voltage switch timing of the paper transfer roller/discharge plate at the paper trailing edge between the erase margin area and the image area.
	Plain: High speed, 1200: Low speed

001	Paper Transfer: Plain: 1 st Side	*ENG	
002	Paper Transfer: Plain: 2nd Side	*ENG	
003	Paper Transfer: 1200: 1st Side	*ENG	[0 to 50 / 0 / 1 / to]
005	Paper Transfer: Plain: 1st Side	*ENG	[0 to 50 / 0 / 1 mm/step]
006	Paper Transfer: Plain: 2nd Side	*ENG	
007	Paper Transfer: 1200: 1st Side	*ENG	

2530	[Thick 1: Environment Correction] Plain: High speed, 1200: Low speed			
001	Separation DC: Plain: 1st Side	*ENG	[1. (0 (00 (1 (. 1	
002	Separation DC: Plain: 2nd Side	*ENG	[1 to 60 / 22 / 1 /step]	
003	Paper Transfer: Plain: BW: 1st Side	*ENG	[] to 40 / 11 / 1 /ston]	
004	Paper Transfer: Plain: BW:2nd Side	*ENG	[1 to 60 / 11 / 1 /step]	
005	Paper Transfer: Plain: FC: 1st Side	*ENG	[1 to 60 / 1 / 1 /step]	
006	Paper Transfer: Plain: FC:2nd Side	*ENG	[1 to 60 / 11 / 1 /step]	
007	Separation DC: 1200: 1st Side	*ENG	[1 to 60 / 22 / 1 /step]	
009	Paper Transfer: 1200: BW: 1st Side	*ENG	[1 to 60 / 11 / 1 /step]	
011	Paper Transfer: 1200: FC: 1st Side	*ENG	[1 to 60 / 1 / 1 /step]	

2551	[Thick 2: Bias]			
2551	Adjusts the DC voltage of the discharge plate for thick 2 paper.			
001	Separation DC: 1st Side	*ENG	[04000 / 0./10. \//]	
002	Separation DC: 2nd Side	*ENG	[0 to 4000 / 0 / 10 –V/step]	

2553	[Thick 2: Bias: BW]		
2333	Adjusts the current for the paper transfer roller for thick 2 paper in black-and-white mode.		
001	Paper Transfer: 1st Side	*ENG	[0 to 250 / 7 / 1 – µA /step]

002 Paper Transfer: 2nd Side	*ENG	[0 to 250 / 12 / 1 – µA /step]	
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2558	[Thick 2: Bias: FC]			
2336	Adjusts the current for the paper transfer roller for thick 2 paper in full color mode.			
001	Paper Transfer: 1st Side	*ENG	[0 to 250 / 16 / 1 – µA /step]	
002	Paper Transfer: 2nd Side	*ENG	[0 to 250 / 15 / 1 – µA /step]	

	[Thick 2: Paper Size Correction]				
2561	Adjusts the size correction coefficient for the paper transfer roller current for each paper size SP2553 and SP2558 are multiplied by these SP values.				
001	Paper Transfer: 1st Side: S1	*ENG	[100 to 600 / 100 / 5%/step]		
002	Paper Transfer: 2nd Side: S1	*ENG	S1 size > 297 mm (Paper width)		
003	Paper Transfer: 1st Side: S2	*ENG	[100 to 600 / 105 / 5%/step] 297 mm > S2 size > 275 mm (Paper width)		
004	Paper Transfer: 2nd Side: S2	*ENG	[100 to 600 / 160 / 5%/step] 297 mm > S2 size > 275 mm (Paper width)		
005	Paper Transfer: 1st Side: S3	*ENG	[100 to 600 / 110 / 5%/step] 275 mm > S3 size > 210 mm (Paper width)		
006	Paper Transfer: 2nd Side: S3	*ENG	[100 to 600 / 260 / 5%/step] 275 mm > S3 size > 210 mm (Paper width)		
007	Paper Transfer: 1st Side: S4	*ENG	[100 to 600 / 120 / 5%/step] 210 mm > S4 size > 148 mm (Paper width)		
008	Paper Transfer: 2nd Side: S4	*ENG	[100 to 600 / 430 / 5%/step] 210 mm > S4 size > 148 mm (Paper width)		
009	Paper Transfer: 1st Side: S5	*ENG	[100 to 600 / 140 / 5%/step] 148 mm > S5 size (Paper width)		
010	Paper Transfer: 2nd Side: S5	*ENG	[100 to 600 / 600 / 5%/step] 148 mm > S5 size (Paper width)		

	[Thick 2: Leading Edge Correction]	eading Edge Correction] Thick 2 Paper: Leading Edge Correction		
2571	Adjusts the correction to the paper transfer roller current at the paper leading edge in each mode. SP2553 and SP2558 are multiplied by these SP values. ••• Note			
	The paper leading edge area	can be adjus	sted with SP2572.	
001	Paper Transfer: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]	
002	Paper Transfer: 2nd Side	*ENG	[0 10 400 / 100 / 3 % / siep]	
2571	Adjusts the correction to the discharge plate current at the paper leading edge in each mode. SP2551 is multiplied by these SP values. Note The paper leading edge area can be adjusted with SP2572.			
003	Separation DC: 1st Side	*ENG	[0+, 400 / 100 / 59 / +]	
004	Separation DC: 2nd Side	*ENG	[0 to 400 / 100 / 5%/step]	

	[Thick 2: Switch Timing: Lead. Edge] Adjusts the bias/voltage switch timing of the paper transfer roller/discharge plate at the paper leading edge between the erase margin area and the image area.			
2572				
001	Paper Transfer: 1st Side	*ENG		
002	Paper Transfer: 2nd Side	*ENG	[0.4-50./0./2/44]	
003	Separation DC: 1st Side	*ENG	[0 to 50 / 0 / 2mm/step]	
004	Separation DC: 2nd Side	*ENG		

	[Thick 2: Trailing Edge Correction] Thick 2 Paper: Trailing Edge Correction				
2573	Adjusts the correction to the paper transfer roller current for the paper trailing edge in each mode. SP2553 and SP2558 are multiplied by these SP values.				
	₩Note				
	 The paper trailing edge area can be adjusted with SP2574. 				
001	Paper Transfer: 1st Side	*ENG	[0.4-400/100/59//44-1]		
002	Paper Transfer: 2nd Side	*ENG	[0 to 400 / 100 / 5%/step]		

003	Separation DC: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]
004	Separation DC: 2nd Side	*ENG	[0 to 400 / 100 / 5%/step]

	[Thick 2: Switch Trailing Edge Correct			
2574	Adjusts the bias/voltage switch timing of the paper transfer roller/discharge plate at paper trailing edge between the erase margin area and the image area.			
001	Paper Transfer: 1st Side	*ENG		
002	Paper Transfer: 2nd Side	*ENG	[0.4-50 / 0./2 /-+]	
003	Separation DC: 1st Side	*ENG	[0 to 50 / 0 / 2 mm/step]	
004	Separation DC: 2nd Side	*ENG		

2580	[Thick 2 Environment Correction]		
001	Separation DC: 1st Side	*ENG	[1 + 40 / 22 / 1 / +]
002	Separation DC: 2nd Side	*ENG	[1 to 60 / 22 / 1 /step]
003	Paper Transfer: BW: 1st Side	*ENG	[0 to 60 / 11 / 1 /step]
004	Paper Transfer: BW: 2nd Side	*ENG	[0 10 00 / 11 / 1 / siep]
005	Paper Transfer: FC: 1st Side	*ENG	[1 to 60 / 53 / 1 /step]
006	Paper Transfer: FC: 2nd Side	*ENG	[1 to 60 / 11 / 1 /step]

2601	[OHP: Bias]				
2001	Adjusts the DC voltage of the discharge plate for OHP.				
001	Separation DC	*ENG	[0 to 4000 / 0 / 10 –V/step]		

2603	[OHP: Bias: BW]			
2003	Adjusts the current for the paper transfer roller for OHP in black-and-white mode.			
001	Paper Transfer	*ENG	[0 to 250 / 12 / 1 – µA /step]	

2608	[OHP: Bias: FC]				
2000	Adjusts the current for the paper transfer roller for OHP in full color mode.				
001	Paper Transfer	*ENG	[0 to 250 / 15 / 1 – µA /step]		

	[OHP: Paper Size Correction]				
2611	Adjusts the size correction coefficient for the paper transfer roller current for each paper size. SP2603 and SP2608 are multiplied by these SP values.				
001	Paper Transfer: S1	*ENG	[100 to 600 / 100 / 5%/step] S1 size > 297 mm (Paper width)		
002	Paper Transfer: S2	*ENG	[100 to 600 / 140 / 5%/step] 297 mm > S2 size > 275 mm (Paper width)		
003	Paper Transfer: S3	*ENG	[100 to 600 / 200 / 5%/step] 275 mm > S3 size > 210 mm (Paper width)		
004	Paper Transfer: S4	*ENG	[100 to 600 / 260 / 5%/step] 210 mm > S4 size > 148 mm (Paper width)		
005	Paper Transfer: S5	*ENG	[100 to 600 / 330 / 5%/step] 148 mm > S5 size (Paper width)		

	[OHP: Leading Edge Correction] OHP: Leading Edge Correction					
2621	Adjusts the correction to the paper transfer roller current at the paper leading edge in each mode. SP2603 and SP2608 are multiplied by these SP values.					
	₩Note					
	The paper leading edge area can be adjusted with SP2622.					
001	Paper Transfer *ENG [0 to 400 / 100 / 5%/step]					
	Adjusts the correction to the discharge plate current at the paper leading edge in each mode. SP2601 is multiplied by these SP values.					
2621	↓ Note					
	The paper leading edge area can be adjusted with SP2622.					
002	Separation DC *ENG [0 to 400 / 100 / 5%/step]					

	[OHP: Switch Timing: Lead. Edge]			
2622	' '	Ü	the paper transfer roller/ discharge plate at the argin area and the image area.	
001	Paper Transfer	*ENG	[0 +- 50 / 0 / 2 /-+]	
002	Separation DC	*ENG	[0 to 50 / 0 / 2 mm/step]	

	[OHP: Trailing Edge Correction] OHP: Trailing Edge Correction				
2623	r roller current for the paper trailing edge in each				
	Note				
	The paper trailing edge area can be adjusted with SP2624.				
001	Paper Transfer	*ENG	[0 to 400 / 100 / 5%/step]		
002	Separation DC		[0 to 400 / 100 / 5%/step]		

	[OHP: Trailing Edge Correction]			
2624	Adjusts the bias/voltage switch timing of the paper transfer roller/discharge plate at the paper trailing edge between the erase margin area and the image area.			
001	Paper Transfer	*ENG	[-100 to 0 / 0 / 1 mm/step]	
002	Separation DC	*ENG	[0 to 50 / 0 / 2 mm/step]	

2630	[OHP: Environment Correction]				
001	Separation DC	*ENG	[1 to 60 / 22 / 1 /step]		
002	Paper Transfer: BW	*ENG	[1 to 60 / 11 / 1 /step]		
003	Paper Transfer: FC	*ENG	[1 to 60 / 1 / 1 /step]		

2650		[Thick3: Bias]				
	2030	Adjusts the DC voltage of the discharge plate for thick paper 3.				
	001	Separation DC: 1st Side	*ENG	[0 to 4000 / 1000 / 10 –V/step]		
	002	Separation DC: 2nd Side	*ENG	[0 10 4000 / 1000 / 10 - v / step]		

2451	[Thick 3: Bias: BW]				
Adjusts the current for the paper transfer roller for thick paper 3 in black-and					
001	Paper Transfer: 1st Side				
002	Paper Transfer: 2nd Side	*ENG	[0 to 250 / 12 / 1 – µA /step]		

2452	2652	[Thick 3: Bias: FC]				
	2032	Adjusts the current for the paper transfer roller for thick paper 3 in full color mode.				
	001	Paper Transfer: Thick 3: 1st Side *ENG [0 to 250 / 11 / 1 - µA /step]				
	002	Paper Transfer: Thick 3: 2nd Side	*ENG	[0 to 250 / 15 / 1 – µA /step]		

	[Thick 3: Paper Size Correction	ck 3: Paper Size Correction]				
2653	Adjusts the size correction coefficient for the paper transfer roller current for each paper size SP2651 and SP2652 are multiplied by these SP values.					
001	Paper Transfer: Thick 3: 1st Side: S1	*ENG	[100 to 600 / 100 / 5%/step] S1 size > 297 mm (Paper width)			
002	Paper Transfer: Thick 3: 1st Side: S2	*ENG	[100 to 600 / 100 / 5%/step] 297 mm > S2 size > 275 mm (Paper width)			
003	Paper Transfer: Thick 3: 1st Side: S3	*ENG	[100 to 600 / 100 / 5%/step] 275 mm > S3 size > 210 mm (Paper width)			
004	Paper Transfer: Thick 3: 1st Side: S4	*ENG	[100 to 600 / 160 / 5%/step] 210 mm > S4 size > 148 mm (Paper width)			
005	Paper Transfer: Thick 3: 1st Side: S5	*ENG	[100 to 600 / 100 / 5%/step] 148 mm > S5 size (Paper width)			
006	Paper Transfer: Thick 3: 2nd Side: S1	*ENG	[100 to 600 / 260 / 5%/step] S1 size > 297 mm (Paper width)			
007	Paper Transfer: Thick 3: 2nd Side: S2	*ENG	[100 to 600 / 100 / 5%/step] 297 mm > S2 size > 275 mm (Paper width)			
008	Paper Transfer: Thick 3: 2nd Side: S2	*ENG	[100 to 600 / 430 / 5%/step] 275 mm > S3 size > 210 mm (Paper width)			

009	Paper Transfer: Thick 3: 2nd Side: S4	*ENG	[100 to 600 / 100 / 5%/step] 210 mm > S4 size > 148 mm (Paper width)
010	Paper Transfer: Thick 3: 2nd Side: S4	*ENG	[100 to 600 / 600 / 5%/step] 148 mm > S5 size (Paper width)

	[Thick 3: Leading Edge Correction] Thick 3 Paper: Leading Edge Correction				
2654	Adjusts the correction to the paper transfer roller current at the paper leading edge in each mode. SP2651 and SP2652 are multiplied by these SP values. Note				
	The paper leading edge area can be	e adjusted wit	h SP2655.		
001	Paper Transfer: 1st Side	*ENG	[0. 400 / 100 / 50/ / . 1		
002	Separation DC: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]		
2654	Adjusts the correction to the discharge plate current at the paper leading edge in each mode SP2650 is multiplied by these SP values. ••• Note				
	The paper leading edge area can be adjusted with SP2655.				
003	Paper Transfer: 2nd Side	*ENG	[0 to 400 / 100 / 5%/step]		
004	Separation DC: 2nd Side	*ENG	[0 10 400 / 100 / 3 %/ siep]		

	[Thick 3: Switch Timing: Lead. Edge]		
Adjusts the bias/voltage switch timing of the paper transfer roller/disc paper leading edge between the erase margin area and the image are			
001	Paper Transfer: 1st Side	*ENG	
002	Separation DC: 1st Side	*ENG	[04-50/0/2/]
003	Paper Transfer: 2nd Side	*ENG	[0 to 50 / 0 / 2 mm/step]
004	Separation DC: 2nd Side	*ENG	

	[Thick 3: Trailing Edge Correction] Thick 3 Paper: Trailing Edge Correction			
2656	Adjusts the correction to the paper transfer roller current for the paper trailing edge in each mode. SP2651 and SP2652 are multiplied by these SP values.			
	Note			
	 The paper trailing edge area can be adjusted with SP2657. 			
001	Paper Transfer: 1st Side	*ENG		
002	Paper Transfer: 2nd Side	*ENG	[0.4-400/100/59//]	
003	Separation DC: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]	
004	Separation DC: 2nd Side	*ENG		

	[Thick 3: Trailing Edge Correction]		
Adjusts the bias/voltage switch timing of the paper trailing edge between the erase margin			
001	Paper Transfer: 1st Side	*ENG	
002	Paper Transfer: 2nd Side	*ENG	[0+, 50 / 0 / 2 / +]
003	Separation DC: 1st Side	*ENG	[0 to 50 / 0 / 2 mm/step]
004	Separation DC: 2nd Side	*ENG	

	[Thick 3: Environment Correction] Thick 3 Paper: MM Environment Coefficient Adjustment			
2660	Adjusts the environment coefficient for each mode. When the environment is detected as MM, SP2651 and SP2652 are multiplied by these SP values.			
001	Separation DC: 1st Side	*ENG	[1 to 60 / 22 / 1 /step]	
002	Separation DC: 2nd Side	*ENG	[1 10 00 / ZZ / 1 / siep]	
	Adjusts the environment coefficient for each mode. When the environment is detected a MM, SP2650 is multiplied by these SP values.			
003	Paper Transfer: BW: 1st Side	*ENG		
004	Paper Transfer: BW: 2nd Side	*ENG	[1 to 60 / 11 / 1 /step]	
005	Paper Transfer: FC: 1st Side	*ENG	G [1 to 60 / 55 / 1 /step]	

006 Paper Transfer: FC: 2st Side	*ENG	[1 to 60 / 11 / 1 /step]
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2670	[Thick4: Bias]		
20/0	Adjusts the DC voltage of the discharge plate for thick paper 4.		
001	Separation DC: 1st Side	*ENG	[0+- 4000 / 0 / 10) / /+]
002	Separation DC: 2nd Side	*ENG	[0 to 4000 / 0 / 10 -V/step]

2671	[Thick4: Bias: BW]			
2071	Adjusts the current for the paper transfer roller for thick paper 4 in black-and-white mode.			
001	001 Paper Transfer: 1st Side *ENG [0 to 250 / 10 / 1			
002	Paper Transfer: 2nd Side	*ENG	[0 to 250 / 11 / 1 - µA /step]	

2672	[Thick4: Bias: FC]		
2072	Adjusts the current for the paper transfer roller for thick paper 4 in full color mode.		
001	001 Paper Transfer: 1st Side *ENG [0 to 250 / 11 / 1 -		[0 to 250 / 11 / 1 - µA /step]
002	Paper Transfer: 2nd Side	*ENG	[0 to 250 / 15 / 1 - µA / step]

2673	[Thick4: Paper Size Correction]		
	Adjusts the size correction coefficient for the paper transfer roller current for each paper size. SP2671 and SP2672 are multiplied by these SP values.		
001	Paper Transfer: 1st Side: S1	*ENG	[100 to 600 / 100 / 5%/step] S1 size > 297 mm (Paper width)
002	Paper Transfer: 1st Side: S2	*ENG	[100 to 600 / 100 / 5%/step] 297 mm > S2 size > 275 mm (Paper width)
003	Paper Transfer: 1st Side: S3	*ENG	[100 to 600 / 100 / 5%/step] 275 mm > S3 size > 210 mm (Paper width)

004	Paper Transfer: 1st Side: S4	*ENG	[100 to 600 / 160 / 5%/step] 210 mm > S4 size > 148 mm (Paper width)
005	Paper Transfer: 1st Side: S5	*ENG	[100 to 600 / 100 / 5%/step] 148 mm > S5 size (Paper width)
006	Paper Transfer: 2nd Side: S1	*ENG	[100 to 600 / 260 / 5%/step] S1 size > 297 mm (Paper width)
007	Paper Transfer: 2nd Side: S2	*ENG	[100 to 600 / 100 / 5%/step] 297 mm > S2 size > 275 mm (Paper width)
008	Paper Transfer: 2nd Side: S3	*ENG	[100 to 600 / 430 / 5%/step] 275 mm > S3 size > 210 mm (Paper width)
009	Paper Transfer: 2nd Side: S4	*ENG	[100 to 600 / 100 / 5%/step] 210 mm > S4 size > 148 mm (Paper width)
010	Paper Transfer: 2nd Side: S3	*ENG	[100 to 600 / 600 / 5%/step] 148 mm > S5 size (Paper width)

	[Thick 4: Leading Edge Correction] Thick 4 Paper: Leading Edge Correction			
2674	Adjusts the correction to the paper transfer roller current at the paper leading edge in each mode. SP2671 and SP2672 are multiplied by these SP values.			
	U Note			
The paper leading edge area can be adjusted with SP2675.			th SP2675.	
001	Paper Transfer: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]	
002	Separation DC: 1st Side	*ENG	[0 10 400 / 100 / 3 % / siep]	
2674	Adjusts the correction to the discharge plate current at the paper leading edge in each mode. SP2670 is multiplied by these SP values. • Note			
	The paper leading edge area can be adjusted with SP2655.			

003	Paper Transfer: 2nd Side	*ENG	[0 to 400 / 100 / 5%/step]
004	Separation DC: 2nd Side	*ENG	[0 10 400 / 100 / 3 %/ siep]

	[Thick 4: Switch Timing: Lead. Edge]				
2675	Adjusts the bias/voltage switch timing of the paper transfer roller/discharge plate at the paper leading edge between the erase margin area and the image area.				
001	Paper Transfer: 1st Side	*ENG			
002	Separation DC: 1st Side	*ENG	[0.1. 50 / 0 / 2 / 1]		
003	Paper Transfer: 2nd Side	*ENG	[0 to 50 / 0 / 2 mm/step]		
004	Separation DC: 2nd Side	*ENG			

	[Thick 4: Trailing Edge Correction] Thick 4 Paper: Trailing Edge Correction				
2676	Adjusts the correction to the paper transfer roller current for the paper trailing edge in each mode. SP2671 and SP2672 are multiplied by these SP values.				
	Note				
	The paper trailing edge area can be adjusted with SP2677.				
001	Paper Transfer: 1st Side	*ENG			
002	Paper Transfer: 2nd Side	*ENG	[0.4400./100./5%/-4]		
003	Separation DC: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]		
004	Separation DC: 2nd Side	*ENG			

	[Thick 4: Trailing Edge Correction]				
2677	Adjusts the bias/voltage switch timing of the paper transfer roller/discharge plate at the paper trailing edge between the erase margin area and the image area.				
001	Paper Transfer: 1st Side	*ENG			
002	Paper Transfer: 2nd Side	*ENG	[0.45 50 / 0. / 2 /-45]		
003	Separation DC: 1st Side	*ENG	[0 to 50 / 0 / 2 mm/step]		
004	Separation DC: 2nd Side	*ENG			

	[Thick 4: Environment Correction] Thick 4 Paper: MM Environment Coefficient Adjustn				
2680	Adjusts the environment coefficient for each mode. When the environment is detected as MM, SP2671 and SP2672 are multiplied by these SP values.				
001	Separation DC: 1st Side *ENG			[1 + 40 / 22 / 1 / +]	
002	Separation DC: 2nd Side	*	ENG	[1 to 60 / 22 / 1 /step]	
	Adjusts the environment coefficient for each mode. When the environment is detected as MM, SP2670 is multiplied by these SP values.				
003	Paper Transfer: BW: 1st Side		*ENG		
004	Paper Transfer: BW: 2nd Side:		*ENG	[1 to 60 / 11 / 1 /step]	
005	Paper Transfer: FC: 1st Side	per Transfer: FC: 1st Side		[1 to 60 / 55 / 1 /step]	
006	Paper Transfer: FC: 2st Side		*ENG	[1 to 60 / 11 / 1 /step]	

	[Special 1: Bias]			
2751	Adjusts the DC voltage of the discharge plate for special paper 1. Plain: High speed, Thick 1: Middle speed			
001	Separation DC: Plain: 1st Side	*ENG		
002	Separation DC: Plain: 2nd Side	*ENG	[0 to 4000 / 0 / 10 –V/step	
003	Paper Transfer: Thick 1: 1st Side	*ENG		

	[Special 1 : Bias: BW]			
2753	Adjusts the current for the paper transfer roller for special paper 1 in black-and-white mode. P Plain: High speed, Fine: Low speed			
001	Paper Transfer: Plain: 1st Side	*ENG	[0+-250/22/1 4/41	
002	Paper Transfer: Plain: 2nd Side	*ENG	[0 to 250 / 22 / 1 – µA /step]	
003	Paper Transfer: Plain: 1st Side	*ENG	[0 to 250 / 11 / 1 - µA /step]	

	Special 1 : Bias: FC]				
2757	Adjusts the current for the paper transfer roller for special paper 1 in full color mode. Plain: High speed, Fine: Low speed				
001	Paper Transfer: Plain: 1st Side	*ENG	[0 to 250 / 30 / 1 – µA /step]		
002	Paper Transfer: Plain: 2nd Side	*ENG	[0 to 250 / 33 / 1 – µA /step]		
003	Paper Transfer: Plain: 1st Side	*ENG	[0 to 250 / 15 / 1 – µA /step]		

	[Special 1: Paper Size Correction]				
2761	Adjusts the size correction coefficient for the paper transfer roller current for each paper si SP2753 and SP2757 are multiplied by these SP values.				
	Plain: High speed, Fine: Low speed				
001	Paper Transfer: Plain: 1st Side: S1	*ENG	[100 to 600 / 100 / 5%/step]		
002	Paper Transfer: Plain: 2nd Side: S1	*ENG	S1 size > 297 mm (Paper width)		
005	Paper Transfer: Plain: 1st Side: S2	*ENG	[100 to 600 / 120 / 5%/step]		
006	Paper Transfer: Plain: 2nd Side: S2	*ENG	297 mm > S2 size > 275 mm (Paper width)		
009	Paper Transfer: Plain: 1st Side: S3	*ENG	[100 to 600 / 140 / 5%/step]		
010	Paper Transfer: Plain: 2nd Side: S3	*ENG	275 mm > S3 size > 210 mm (Paper width)		
013	Paper Transfer: Plain: 1st Side: S4	*ENG	[100 to 600 / 160 / 5%/step]		
014	Paper Transfer: Plain: 2nd Side: S4	*ENG	210 mm > S4 size > 148 mm (Paper width)		
017	Paper Transfer: Plain: 1st Side: S5	*ENG	[100 to 600 / 180 / 5%/step]		
018	Paper Transfer: Plain: 2nd Side: S5	*ENG	148 mm > S5 size (Paper width)		

	[Special 1: Leading Edge Correction] Special 1 Paper: Leading Edge Correction			
0.771	Adjusts the correction to the paper transfer roller current at the paper leading edge in each mode. SP2753 and SP2757 are multiplied by these SP values.			
2771	Plain: High speed, Fine: Low speed			
	Note			
	The paper leading edge area co	an be adjuste	d with SP2772.	
001	Paper Transfer: Plain: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]	
002	Paper Transfer: Plain: 2nd Side	*ENG	[0 to 400 / 100 / 5%/step]	
003	Paper Transfer: 1200: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]	
	Adjusts the correction to the discharge plate current at the paper leading edge in each mode. SP2751 is multiplied by these SP values.			
2771	Note			
	The paper leading edge area can be adjusted with SP2772.			
005	Separation DC: Plain: 1st Side	*ENG	[0 to 400 / 100 / 5% /stan]	
006	Separation DC: Plain: 2nd Side	*ENG	[0 to 400 / 100 / 5%/step]	
007	Separation DC: 1200: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]	

	[Special 1: Switch Timing: Lead. Edge	ecial 1: Switch Timing: Lead. Edge]			
2772	Adjusts the bias/voltage switch timing of the paper transfer roller/discharge plate at the paper leading edge between the erase margin area and the image area. Plain: High speed, 1200: Low speed				
001	Paper Transfer: Plain: 1st Side	*ENG	[0 to 50 / 0 / 2 mm/step]		
002	Paper Transfer: Plain: 2nd Side	*ENG	[0 10 30 / 0 / 2 mm/ siep]		
003	Paper Transfer: 1200: 1st Side	*ENG	[0 to 50 / 0 / 1 mm/step]		
005	Separation DC: Plain: 1st Side	*ENG			
006	Separation DC: Plain: 2nd Side	*ENG	[0 to 50 / 0 / 2 mm/step]		
007	Separation DC: 1200: 1st Side	*ENG			

	[Special 1: Trailing Edge Correction] Special 1 Paper: Trailing Edge Correction			
0.770	Adjusts the correction to the paper transfer roller current for the paper trailing edge in each mode. SP2753 and SP2757 are multiplied by these SP values.			
2773	Plain: High speed, 1200: Low speed			
Note				
	The paper trailing edge area can be adjusted with SP2774.			
001	Paper Transfer: Plain: 1st Side	*ENG		
002	Paper Transfer: Plain: 2nd Side	*ENG		
003	Paper Transfer: 1200: 1st Side	*ENG	[0.4- 400 / 100 / 59/ /]	
005	Separation DC: Plain: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]	
006	Separation DC: Plain: 2nd Side	*ENG		
007	Separation DC: 1200: 1st Side	*ENG		

	[Special 1: Switch Timing: Trail. Edge] Adjusts the bias/voltage switch timing of the paper transfer roller/discharge plate at the paper trailing edge between the erase margin area and the image area. Plain: High speed, 1200: Low speed			
2774				
001	Paper Transfer: Plain: 1st Side	*ENG		
002	Paper Transfer: Plain: 2nd Side	*ENG		
003	Paper Transfer: 1200: 1st Side	*ENG	[0 to 50 / 0 / 2 mm /ston]	
005	Separation DC: Plain: 1st Side	*ENG	[0 to 50 / 0 / 2 mm/step]	
006	Separation DC: Plain: 2nd Side	*ENG		
007	Separation DC: 1200: 1st Side	*ENG		

2780		[Special 1: Environment Correction] Plain: High speed, 1200: Low speed		
	001	Separation DC: Plain: 1st Side	*ENG	[1 to 60 / 26 / 1 /step]
	002	Separation DC: Plain: 2nd Side	*ENG	[1 to 60 / 32 / 1 /step]

003	Paper Transfer: Plain: BW: 1st Side	*ENG	[] to 40 / 11 / 1 /stop]
004	Paper Transfer: Plain: BW:2nd Side	*ENG	[1 to 60 / 11 / 1 /step]
005	Paper Transfer: Plain: FC: 1st Side	*ENG	[1 to 60 / 1 / 1 /step]
006	Paper Transfer: Plain: FC:2nd Side	*ENG	[1 to 60 / 14 / 1 /step]
007	Separation DC: 1200: 1st Side	*ENG	[1 to 60 / 26 / 1 /step]
009	Paper Transfer: 1200: BW: 1st Side	*ENG	[1 to 60 / 11 / 1 / step]
011	Paper Transfer: 1200: FC: 1st Side	*ENG	[1 to 60 / 1 / 1 /step]

	[Special 2: Bias]		
2801	Adjusts the DC voltage of the discharge plate for special paper 2. Plain: High speed, 1200: Low speed		
001	Separation DC: Plain: 1st Side	*ENG	[0 to 4000 / 0 / 10 –V/step]
002	Separation DC: Plain: 2nd Side	*ENG	[0 to 4000 / 3000 / 10 –V/step]
003	Separation DC: 1200: 1st Side	*ENG	[0 to 4000 / 2000 / 10 –V/step]

	[Special2: Bias: BW]			
2803	Adjusts the current for the paper transfer roller for special paper 2 in black-and-white mode. Plain: High speed, 1200: Low speed			
001	Paper Transfer: Plain: 1st Side	*ENG	[04, 250 / 22 / 1 114 / 4, 11	
002	Paper Transfer: Plain: 2nd Side	*ENG	[0 to 250 / 22 / 1 – µA /step]	
003	Separation DC: 1200: 1st Side	*ENG	[0 to 200 / 11 / 1 - µA / step]	

	[Special2: Bias: FC]			
2807	Adjusts the current for the paper transfer roller for special paper 2 in full color mode. Plain: High speed, Thick 2&Fine: Low speed			
001	Paper Transfer: Plain: 1st Side	*ENG	[0 to 250 / 30 / 1 - µA / step]	
002 Paper Transfer: Plain: 2nd Side *ENG [0 to 2		[0 to 250 / 33 / 1 - µA /step]		
003	Separation DC: 1200: 1st Side	*ENG	[0 to 250 / 15 / 1 - µA /step]	

	[Special2: Paper Size Correction]	[Special2: Paper Size Correction]			
2811	Adjusts the size correction coefficient for the paper transfer roller current for each paper size. SP2803 and SP2807 are multiplied by these SP values.				
001	Paper Transfer: Plain: 1st Side: S1	*ENG	[100 to 600 / 100 / 5%/step]		
002	Paper Transfer: Plain: 2nd Side: S1	*ENG	S1 size > 297 mm (Paper width)		
005	Paper Transfer: Plain: 1st Side: S2	*ENG	[100 to 600 / 120 / 5%/step] 297 mm > S2 size > 275 mm (Paper width)		
006	Paper Transfer: Plain: 2nd Side: S2	*ENG	[100 to 600 / 120 / 5%/step] 297 mm > S2 size > 275 mm (Paper width)		
009	Paper Transfer: Plain: 1st Side: S3	*ENG	[100 to 600 / 140 / 5%/step] 275 mm > S3 size > 210 mm (Paper width)		
010	Paper Transfer: Plain: 2nd Side: S3	*ENG	[100 to 600 / 140 / 5%/step] 275 mm > S3 size > 210 mm (Paper width)		
013	Paper Transfer: Plain: 1st Side: S4	*ENG	[100 to 600 / 160 / 5%/step] 210 mm > S4 size > 148 mm (Paper width)		
014	Paper Transfer: Plain: 2nd Side: S4	*ENG	[100 to 600 / 160 / 5%/step] 210 mm > S4 size > 148 mm (Paper width)		
017	Paper Transfer: Plain: 1st Side: S5	*ENG	[100 to 600 / 180 / 5%/step] 148 mm > S5 size (Paper width)		
018	Paper Transfer: Plain: 2nd Side: S5	*ENG	[100 to 600 / 180 / 5%/step] 148 mm > S5 size (Paper width)		

	[Special 2: Leading Edge Correction] Special 2 Paper: Leading Edge Correction			
0001	Adjusts the correction to the paper transfer roller current at the paper leading edge in each mode. SP2803 and SP2807 are multiplied by these SP values.			
2821	Plain: High speed, 1200: Low speed			
	Note			
	The paper leading edge area can	with SP2822.		
001	001 Paper Transfer: Plain: 1st Side *ENG [0 to 400 / 100 / 5%/ste			
002	Paper Transfer: Plain: 2nd Side	*ENG	[0 to 400 / 100 / 5%/step]	
003	Paper Transfer: 1200: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]	
2821	Adjusts the correction to the discharge plate current at the paper leading edge in each mode. SP2801 is multiplied by these SP values. Note			
	The paper leading edge area can be adjusted with SP2822.			
005 Separation DC: Plain: 1st Side				
006	Separation DC: Plain: 2nd Side	*ENG	[0 to 400 / 100 / 5%/step]	
007	Separation DC: 1200: 1st Side	*ENG		

	[Special 2: Switch Timing: Lead. Edge]		
2822	Adjusts the bias/voltage switch timing a paper leading edge between the erase		
	Plain: High speed, 1200: Low speed		
001	Paper Transfer: Plain: 1st Side	*ENG	
002	Paper Transfer: Plain: 2nd Side	*ENG	
003	Paper Transfer: 1200: 1st Side	*ENG	[04-50/0/2/]
005	Separation DC: Plain: 1st Side	*ENG	[0 to 50 / 0 / 2 mm/step]
006	Separation DC: Plain: 2nd Side	*ENG	
007	Separation DC: 1200: 1st Side	*ENG	

	[Special 2: Trailing Edge Correction] Special 2 Paper: Trailing Edge Correction				
0000	Adjusts the correction to the paper transfer roller current for the paper trailing edge in each mode. SP2803 and SP2807 are multiplied by these SP values.				
2823	Plain: High speed, 1200: Low speed				
	Note				
	The paper trailing edge area can be adjusted with SP2824.				
001	Paper Transfer: Plain: 1st Side	*ENG	[0.1. 400 / 100 / 59/ / 1]		
002	Paper Transfer: Plain: 2nd Side	*ENG	[0 to 400 / 100 / 5%/step]		
003	Paper Transfer: 1200: 1st Side	*ENG			
005	Separation DC: Plain: 1st Side	*ENG	[0. 400 / 100 / 50/ / .]		
006	Separation DC: Plain: 2nd Side	*ENG	[0 to 400 / 100 / 5%/step]		
007	Separation DC: 1200: 1st Side	*ENG			

	[Special 2: Switch Timing: Trail. Edge]				
2824	Adjusts the bias/voltage switch timing of the paper transfer roller/discharge plate at the paper trailing edge between the erase margin area and the image area. Plain: High speed, 1200: Low speed				
001	Paper Transfer: Plain: 1st Side	*ENG			
002	Paper Transfer: Plain: 2nd Side	*ENG			
003	Paper Transfer: 1200: 1st Side	*ENG	[0 to 50 / 0 / 2 mm/step]		
005	Separation DC: Plain: 1st Side	*ENG	[O IO 30 / O / 2 mm/ siep]		
006	Separation DC: Plain: 2nd Side	*ENG			
007	Separation DC: 1200: 1st Side	*ENG			

2830	[Special 2: Environment Correction]		
2630	Plain: High speed, 1200: Low speed		
001	Paper Transfer: Plain: 1st Side	*ENG	[1 to 60 / 26 / 1 /step]
002	Paper Transfer: Plain: 2nd Side	*ENG	[1 to 60 / 32 / 1 /step]

003	Paper Transfer: Plain: BW: 1st Side	*ENG	[1 to 60 / 1 / 1 /step]
004	Paper Transfer: Plain: BW:2nd Side	*ENG	[1 to 60 / 11 / 1 /step]
005	Paper Transfer: Plain: FC: 1st Side	*ENG	[1 to 60 / 1 / 1 /step]
006	Paper Transfer: Plain: FC:2nd Side	*ENG	[1 to 60 / 14 / 1 /step]
007	Paper Transfer: 1200: 1st Side	*ENG	[1 to 60 / 26 / 1 /step]
009	Paper Transfer: 1200: BW: 1st Side	*ENG	[1 to 60 / 11 / 1 /step]
011	Paper Transfer: 1200: FC: 1st Side	*ENG	[1 to 60 / 1 / 1 /step]

	[Special 3: Bias]		
2851	Adjusts the DC voltage of the discharge plate for special paper 3. Plain: High speed, 1200: Low speed		
001	Separation DC: Plain: 1st Side	*ENG	
002	Separation DC: Plain: 2nd Side	*ENG	[0 to 4000 / 0 / 10 –V/step]
003	Separation DC: 1200: 1st Side	*ENG	

	[Special 3: Bias: BW]			
2852	Adjusts the current for the paper transfer roller for special paper 3 in black-and-white mode. Plain: High speed, 1200: Low speed			
001	Paper Transfer: Plain: 1st Side	*ENG	[0.1, 0.50 / 22 / 1, 114 / 1]	
002	Paper Transfer: Plain: 2nd Side	*ENG	[0 to 250 / 22 / 1 – µA /step]	
003	Paper Transfer: 1200: 1st Side	*ENG	[0 to 250 / 11 / 1 – µA /step]	

	[Special 3: Bias: FC]			
2857	Adjusts the current for the paper transfer roller for special paper 3 in full color mode. Plain: High speed, 1200: Low speed			
001	Paper Transfer: Plain: 1st Side	*ENG	[0 to 250 / 30 / 1 – µA /step]	
002	Paper Transfer: Plain: 2nd Side	*ENG	[0 to 250 / 33 / 1 – µA /step]	
003	Paper Transfer: 1200: 1st Side	*ENG	[0 to 250 / 15 / 1 – µA /step]	

	[Special 3: Paper Size Correction]					
2861	Adjusts the size correction coefficient for the paper transfer roller current for each paper SP2852 and SP2857 are multiplied by these SP values.					
001	Paper Transfer: 1st Side: S1	*ENG	[100 to 600 / 100 / 5%/step]			
002	Paper Transfer: 2nd Side: S1	*ENG	S1 size > 297 mm (Paper width)			
005	Paper Transfer: 1st Side: S2	*ENG	[100 to 600 / 120 / 5%/step] 297 mm > S2 size > 275 mm (Paper width)			
006	Paper Transfer: 2nd Side: S2	*ENG	[100 to 600 / 120 / 5%/step] 297 mm > S2 size > 275 mm (Paper width)			
009	Paper Transfer: 1st Side: S3	*ENG	[100 to 600 / 140 / 5%/step] 275 mm > S3 size > 210 mm (Paper width)			
010	Paper Transfer: 2nd Side: S3	*ENG	[100 to 600 / 140 / 5%/step] 275 mm > S3 size > 210 mm (Paper width)			
013	Paper Transfer: 1st Side: S4	*ENG	[100 to 600 / 160 / 5%/step] 210 mm > S4 size > 148 mm (Paper width)			
014	Paper Transfer: 2nd Side: S4	*ENG	[100 to 600 / 160 / 5%/step] 210 mm > S4 size > 148 mm (Paper width)			
017	Paper Transfer: 1st Side: S5	*ENG	[100 to 600 / 180 / 5%/step] 148 mm > S5 size (Paper width)			
018	Paper Transfer: 2nd Side: S5	*ENG	[100 to 600 / 180 / 5%/step] 148 mm > S5 size (Paper width)			

	[Special 3: Leading Edge Correction] Special 3 Paper: Leading Edge Correction				
0071	Adjusts the correction to the paper transfer roller current at the paper leading edge in each mode. SP2852 and SP2857 are multiplied by these SP values.				
2871	Plain: High speed, 1200: Low speed				
	●Note				
	The paper leading edge area can	be adjusted	with SP2872.		
001	Paper Transfer: Plain: 1st Side	*ENG	[0.4- 400 / 100 / 5% / 44-1]		
002	Paper Transfer: Plain: 2nd Side	*ENG	[0 to 400 / 100 / 5%/step]		
003	Paper Transfer: 1200: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]		
005-00	Adjusts the correction to the discharge plate current at the paper leading edge in each mode. SP2851 is multiplied by these SP values.				
8	Note				
	The paper leading edge area can be adjusted with SP2872.				
005	Separation DC: Plain: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]		
006	Separation DC: Plain: 2nd Side	*ENG	[0 10 400 / 100 / 3 %/ siep]		
007	Separation DC: 1200: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]		

	[Special 3: Switch Timing: Lead. Edge]			
2872	Adjusts the bias/voltage switch timing of the paper transfer roller/discharge plate at the paper leading edge between the erase margin area and the image area. Plain: High speed, 1200: Low speed			
001	Paper Transfer: Plain: 1st Side	*ENG	[0 to 50 / 0 / 2 mm/step]	
002	Paper Transfer: Plain: 2nd Side	*ENG		
003	Paper Transfer: 1200: 1st Side	*ENG		
005	Separation DC: Plain: 1st Side	*ENG	[0 to 50 / 0 / 2 mm/step]	
006	Separation DC: Plain: 2nd Side	*ENG		
007	Separation DC: 1200: 1st Page	*ENG	[0 to 50 / 0 / 2 mm/step]	

	[Special 3: Trailing Edge Correction] Special 3 Paper: Trailing Edge Correction			
0070	Adjusts the correction to the paper transfer roller current for the paper trailing edge in each mode. SP2852 and SP2857 are multiplied by these SP values.			
2873	Plain: High speed, 1200: Low speed			
 Note The paper trailing edge area can be adjusted with SP2874. 				
				001
002	Paper Transfer: Plain: 2nd Side	*ENG		
003	Paper Transfer: 1200: 1st Side	*ENG	[0.1.400 / 100 / 59/ /]	
005	Separation DC: Plain: 1st Side	*ENG	[0 to 400 / 100 / 5%/step]	
006	Separation DC: Plain: 2nd Side	*ENG		
007	Separation DC: 1200: 1st Side	*ENG		

	[Special 3: Switch Timing: Trail. Edge]				
2874	Adjusts the bias/voltage switch timing of the paper transfer roller/discharge plate at the paper trailing edge between the erase margin area and the image area. Plain: High speed, 1200: Low speed				
	Train. Trigit speed, 1200. Low speed				
001	Paper Transfer: Plain: 1st Side	*ENG			
002	Paper Transfer: Plain: 2nd Side	*ENG			
003	Paper Transfer: 1200: 1st Side	*ENG	[0.1. 50 / 0 / 2 / 1]		
005	Separation DC: Plain: 1st Side	*ENG	[0 to 50 / 0 / 2 mm/step]		
006	Separation DC: Plain: 2nd Side	*ENG			
007	Separation DC: 1200: 1st Side	*ENG			

2880	[Special 3: Environment Correction] Plain: High speed, 1200: Low speed		
001	Separation DC: Plain: 1st Side	*ENG	[1 to 60 / 26 / 1 /step]
002	Separation DC: Plain: 2nd Side	*ENG	[1 to 60 / 32 / 1 /step]

003	Paper Transfer: Plain: BW: 1st Side	*ENG	[] to 40 / 11 / 1 /sten]	
004	Paper Transfer: Plain: BW:2nd Side	*ENG	[1 to 60 / 11 / 1 /step]	
005	Paper Transfer: Plain: FC: 1st Side	*ENG	[1 to 60 / 1 / 1 /step]	
006	Paper Transfer: Plain: FC:2nd Side	*ENG	[1 to 60 / 11 / 1 /step]	
007	007 Separation DC: 1200: 1st Side		[1 to 60 / 26 / 1 /step]	
009	Paper Transfer: 1200: BW: 1st Side	*ENG	[1 to 60 / 11 / 1 /step]	
011	011 Paper Transfer: 1200: FC: 1st Side		[1 to 60 / 1 / 1 /step]	

	[OPC Drum Brake Time]				
2901	Adjusts the time when the OPC drum motor reverses from normal rotation after job end. DFU Plain: High speed, Thick 1: Middle speed, Thick 2&Fine: Low speed				
001	Plain	*ENG	·		
002	Thick 1	*ENG	[300 to 1500 / 500 / 10 msec/step]		
003	Thick 2 & FINE	*ENG			

2902	[OPC Drum Reverse Time]				
2902	Adjusts the time for how long the OPC drum motor reverses after job end. DFU				
001	All: BW	*ENG	[0 to 200 / 50 / 10 msec/step]		
002	All: FC	*ENG	[0 to 200 / 50 / 10 msec/step]		

	[Image Transfer Roller Brake Time]			
Adjusts the time when the image transfer belt motor reverses from normal rotation end. DFU Plain: High speed, Thick 1: Middle speed, Thick 2&Fine: Low speed			t motor reverses from normal rotation after job	
			hick 2&Fine: Low speed	
003	Plain	*ENG		
004	Thick 1	*ENG	[300 to 1500 / 500 / 10 msec/step]	
005	Thick 2 & FINE	*ENG		

2904	[OPC Drum Reverse Time]			
2904	Adjusts the time for how long the image transfer belt motor reverses after job end. DFU			
003	All	*ENG	[0 to 200 / 40 / 10 msec/step]	

	[Dev Rvs Time] Development Roller Reverse Time			
2905	Specifies the time of the development roller reverse rotation after the development un stopped. The reverse rotation of the development roller is used for removing dust from development roller.			
001	К	*ENG		
002	М	*ENG	[0 to 200 / 90 / 10 mage/ston]	
003	С	*ENG	[0 to 200 / 80 / 10 msec/step]	
004	Υ	*ENG		
	[Dev Rvs Threshold Counter]			
005	All	*ENG	[0 to 400000 / 4000 / 10 mm/step]	
	Specifies the threshold distance for the development roller reverse mode. This sp refers to the counters for SP2905-006 to -009.			
	[Dev Rvs Counter]			
006	К	*ENG		
007	М	*ENG		
008	С	*ENG	[0 to 999999999 / - / 1 mm/step]	
009	Υ	*ENG		

2906	[Phase Angle]				
2900	DFU				
001	Y Drum	*ENG			
002	C Drum	*ENG	[0 to 250 / 0 / 1 dog /stop]		
003	M Drum	*ENG	[0 to 359 / 0 / 1 deg/step]		
004	K Drum	*ENG			

2906	[Amplitude Setting]				
2900	DFU				
006	Y Drum	*ENG			
007	C Drum		[0.4-100/00/01/0-/]		
008	M Drum		[0 to 100 / 0.0 / 0.1 µm/step]		
009	K Drum				

	[ACS Setting (FC to Bk)]			
2907	Adjusts the threshold for moving away the image transfer belt from the color PCDUs. This SP moves the image transfer belt away from the color PCDUs when the number of B/W image printouts reaches the number of sheets specified with this SP after consecutive full color image printouts in the full color mode. If this SP is set to "0", the image transfer belt does not move away.			
001	Continuous Bk Pages	*ENG	[0 to 10 / 0 / 1 sheet/step]	

	[Gain Adjust] Gain Adjustment of Image Transfer Belt Motor DFU				
	0: High speed (Low level)				
2908	1: Middle high speed				
	2: Middle low speed				
3: Low speed (High level)					
001	255 mm/sec	*ENG	[0 1 /0 / 1 /]		
002	230 mm/sec	*ENG	[0 or 1 / 0 / 1/step]		
003	205 mm/sec	*ENG	[0 or 1 / 1 / 1/step]		
004	154 mm/sec	*ENG	[0 or 1 / 2 / 1/step]		
005	77 mm/sec	*ENG	[0 or 1 / 3 / 1/step]		

2911	[Offset Angle] DFU
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001	Y Drum	*ENG	
002	C Drum	*ENG	[04-250 / 0 / 1 day/stan]
003	M Drum	*ENG	[0 to 359 / 0 / 1 deg/step]
004	K Drum	*ENG	

2912	[Offset Amplitude Setting] DFU		
001	Y Drum	*ENG	
002	C Drum	*ENG	[0+-100/00/01/04/01
003	M Drum	*ENG	[0 to 100 / 0.0 / 0.1 µm/step]
004	K Drum	*ENG	

2913	[Drum Control]		
001	Rotation Direction	*ENG	[0 or 1 / 1 / -/step]

2920	[Transfer Motor Control]				
	0: Encorder 1 :FG	*ENG	[0 or 1 / 0 / 1 /step]		
001	Selects the speed control mode for the ITB. If SC443 occurs and machine does not recover, change this setting to "1".				
	SC443 Count	*ENG	[0 to 3 / 0 / 1 /step]		
002	Displays the number of the ITB encodre error. SC443 is displayed if this counter counts to "3".				

	[SecondaryFB: Threshold] Pape	r Transfer Ro	oller Feed-back: Threshold Adjustment
2930	Adjusts the threshold between high resistance (division 1) and low resistance (division 2) the paper transfer roller. This SP affects SP2931 to SP2939.		
001	Voltage *ENG [0 to 7000 / 6000 / 10 -V/step]		[0 to 7000 / 6000 / 10 -V/step]

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001	Additional Time	*ENG	[0 to 10 / 0 / 1 sec/step]
001	Adjusts the additional time for e	ending the mo	achine's process.

2970	[Cleaning After JOB]		
No Refresh *ENG O: No cleaning Specifies the threshold sheets for the cleaning of the paper training mode.	No Refresh	*ENG	[0 to 100 / 50 / 1 /step] 0: No cleaning
	g of the paper transfer roller without the refresh		
002	Refresh	*ENG	[0 or 1 / 1 / 1 /step] 0: No cleaning, 1: Cleaning
000	Cleaning Counter	*ENG	[0 to 9999 / - / 1 page/step]
003	This counter is used for the clea	aning of the p	aper transfer roller.

2971	T1 Non Image Area ON Timing		
001	Standard Speed	*ENG	[-400 to 290 / 0 / 10 msec/step]
001	Adjusts the timing for the non-in	nage area bi	as of the image transfer roller.
002	Medium Speed	*ENG	[-790 to 410 / 0 / 10 msec/step]
003	Low Speed	*ENG	[-790 to 410 / 0 / 10 msec/step]

2972	B/W Image Request Timing		
2972	Adjusts the LD firing timing in b	plack and white mode for each process speed.	
001	Standard Speed	*ENG	[0 to 4000 / 0 / 10 msec/step]
002	Medium Speed	*ENG	[0 to 4000 / 0 / 10 msec/step]
003	Low Speed	*ENG	[0 to 4000 / 0 / 10 msec/step]

2973	Forced Process Down Threshold		
	-	*ENG	[0 to 5000 / 0 / 10 page/step]
OO1 Specifies the threshold pages for the forced processing stop at a continuous prin		processing stop at a continuous printing job.	
	0: No forced processing stop (default)		

2974	OPC PreCharge Time Control		
29/4	Adjusts the pre-charge time of	the drum for each process speed.	
001	Standard Speed	*ENG	[0 to 940 / 90 / 10 msec/step]
002	Medium Speed	*ENG	[0 to 1240 / 90 / 10 msec/step]
003	Low Speed	*ENG	[0 to 2480 / 580 / 10 msec/step]

2980	-		
001	Continuous Job Page	*ENG	[0 to 300 / 100 / 10 page/step]
002	OPC Drum Idling Time BW	*ENG	[0 to 600 / 30 / 10 sec/step]
003	OPC Drum Idling Time FC	*ENG	[0 to 600 / 30 / 10 sec/step]

2990	Print Duty Control				
001	Duty Control State	*ENG	[0 or 1 / 0 / 1 /step] 0: No limit, 1: Limit		
	Limit or does not limit the duty of	control for a c	continuous printing job.		
002	Duty Control Thresh Time	*ENG	[0 to 195 / 100 / 10 min./step]		
002	Specifies the judgment time for the duty control for a continuous printing job.				
	Duty Control Thresh	*ENG	[0 to 999999999 / 0 / 1 mm/step]		
003	Specifies the threshold for the duty control for a continuous printing job. O: No duty control (default)				
004	Forced CPM Down Thresh: No Duty Control	*ENG	[0 to 5000 / 0 / 1 page/step]		
	Specifies the threshold page for the forced processing stop without the duty limit.				
005	Drum Stop Time: No Duty Control	*ENG	[300 to 1500 / 500 / 10 msec/step]		
	Specifies the drum brake time without the duty limit.				

006	ITB Stop Time: No Duty Control	*ENG	[300 to 1500 / 500 / 10 msec/step]			
	Specifies the ITB brake time wit	Specifies the ITB brake time without the duty limit.				
007	Forced CPM Down Thresh: Duty Control	*ENG	[0 to 5000 / 1 / 1 page/step]			
	Specifies the threshold page for the forced processing stop with the duty limit.					
008	Drum Stop Time: Duty Control	*ENG	[300 to 1500 / 1500 / 10 msec/step]			
008	Specifies the drum brake time with the duty limit.					
000	ITB Stop Time: Duty Control	*ENG	[300 to 1500 / 1500 / 10 msec/step]			
009	Specifies the ITB brake time with the duty limit.					
010	Duty Control: Start Time	*ENG	-			
010	Displays the execution time of the duty limit control.					

System SP3-xxx

SP3-XXX (Process)

3011	[Process Cont. Manual Execution]		
001	Normal	-	Executes the normal process control manually (potential control). Check the result with SP3-325-001 and 3-012-001 after executing this SP.
002	Density Adjustment	-	Executes the toner density adjustment manually.
003	Pre-ACC	-	Executes the process control that is normally done before ACC. The type of process control is selected with SP3-041-004.
004	Full MUSIC	-	Executes the process control that is normally done at the same time as MUSIC. This SP does the MUSIC (line position adjustment) twice.
005	Normal MUSIC	-	Executes the process control that is normally done at the same time as MUSIC. This SP does the MUSIC (line position adjustment) once.

		[Process Cont. Check Result] Process Control Self-check Result	
		Displays the result of the latest process control self-check.	
	3012	All colors are displayed. The results are displayed in the order "Y C M K"	
		e.g., 11 (Y) 99 (C) 11 (M) 11 (K): The self-check for Cyan failed but the others were successful.	
		See the "Error Condition Tables" in the Process Control Error section for details.	

001	History: Latest	*ENG	
002	Result: Latest 1	*ENG	
003	Result: Latest 2	*ENG	
004	Result: Latest 3	*ENG	
005	Result: Latest 4	*ENG	[1111] 4- 00000000 / /1/41
006	Result: Latest 5	*ENG	[1111 to 99999999 / - / 1/step]
007	Result: Latest 6	*ENG	
008	Result: Latest 7	*ENG	
009	Result: Latest 8	*ENG	
010	Result: Latest 9	*ENG	

3013	[T Sensor Initial Set: Execution] Developer Initialization Setting		
001	Execution: ALL	-	
002	Execution: COL	-	
003	Execution: Bk	-	
004	Execution: M	-	Executes the developer initialization for each color.
005	Execution: C	-	
006	Execution: Y	-	

3014	[T Sensor Initial Set Result: Display] Developer Initialization Result: Display			
	Display: YCMK	*ENG	[0 to 9999 / - / 1 /step] 1: Success 2 to 9: Failure	
001	Displays the developer initialization result. See section "Developer Initialization Result" in the "Appendix: Process Control Error Conditions" section for details on the meaning of each code.			
	All colors are displayed. Values are displayed in the order Y C M Bk. e.g., 1 (Y) 2 (C) 1 (M) 1 (Bk): Initialization of Cyan failed but the others succeeded.			

3015	[Forced Toner Supply: Execute	d Toner Supply: Execute] Forced Toner Supply ([Color])		
001	Execution: ALL	-		
002	Execution: COL	-		
003	Execution: Bk	-	Executes the manual toner supply to the	
004	Execution: M	-	development unit.	
005	Execution: C	-		
006	Execution: Y	-		

3016	[Forced Toner Supply: Setting] Forced Toner Supply Setting ([Color])				
3010	Specifies the manual toner supply time for each color.				
001	Supply Time: Bk	*ENG			
002	Supply Time: M	*ENG	[0.4-20./4/1/]		
003	Supply Time: C	*ENG	[0 to 30 / 4 / 1 sec/step]		
004	Supply Time: Y	*ENG			

3020	[Vt Limit Error]				
3020	DFU				
001	Delta Vt Threshold	*ENG	[0 to 5 / 5 / 0.01 V/step]		
002	Upper Threshold	*ENG	[0 to 5 / 4.7 / 0.01 V/step]		
003	Threshold Number of Upper counter	*ENG	[0 to 99 / 20 / 1 time/step]		
004	Lower Threshold	*ENG	[0 to 5 / 0.5 / 0.01 V/step]		
005	Number of Lower counter	*ENG	[0 to 99 / 10 / 1 times/step]		

006	Upper Counter: Bk	*ENG	
007	Upper Counter: M	*ENG	
008	Upper Counter: C	*ENG	
009	Upper Counter: Y	*ENG	[0.4-00.40.4]
010	Lower Counter: Bk	*ENG	[0 to 99 / 0 / 1 times/step]
011	Lower Counter: M	*ENG	
012	Lower Counter: C	*ENG	
013	Lower Counter: Y	*ENG	

3021	[TD Sensor Initial Set] Developer Initialization Setting				
3021	Specifies the developer agitation time for each color at the developer initialization. DFU				
001	Agitation Time: Bk	*ENG			
002	Agitation Time: M	*ENG	[0.4-200 / 20 / 1 /]		
003	Agitation Time: C	*ENG	[0 to 200 / 30 / 1 sec/step]		
004	Agitation Time: Y	*ENG			
005-008 Sets the execution flag of the developer initialization for each color.			tialization for each color.		
005	Execution Flag: Bk	*ENG	[0 or 1 / 0 / 1/step]		
006	Execution Flag: M	*ENG	0: Flag OFF, 1: Flag ON		
007	Execution Flag: C	*ENG	This flag is cleared after executing TD sensor		
008	Execution Flag: Y	*ENG	initialization.		
009	Prohibition	*ENG	Enables or disables developer initialization. DFU [0 or 1 / 0 / 1/step] 0: Enable, 1: Disable		

2022	[Toner Replenishment Mode] DFU	
3022	Specifies the toner supply time for each color in the toner supply mode.	

001	Supply Number of times: Bk	*ENG	[0 to 30 / 8 / 1 sec/step]
002	Supply Number of times: M	*ENG	
003	Supply Number of times: C	*ENG	[0 to 30 / 6 / 1 sec/step]
004	Supply Number of times: Y	*ENG	
005-008	Sets the execution flag for the toner supply mode for each color.		
005	Execution Flag: Bk	*ENG	[0 or 1 / 0 / 1/step]
006	Execution Flag: M	*ENG	0: Flag OFF, 1: Flag ON
007	Execution Flag: C	*ENG	This flag is cleared after executing TD sensor
008	Execution Flag: Y	*ENG	initialization.

3041	[Process Control Type]				
001	Voltage Control	*ENG	[0 or 1 / 1 / 1/step] Alphanumeric 0: FIXED (Use the fixed values for the charge DC bias and development DC bias set with SP2-005 and SP2-229.) 1: CONTROL		
	Enables or disables potential control.				
002	LD Power Control	*ENG	[0 or 1 / 1 / 1/step] Alphanumeric 0: FIXED (at the value in SP2221-xxx) 1: CONTROL (adjusted by process control)		
	Selects the LD power control mode.				
003	AutoControl Prohibition Set	*ENG	[0 or 1 / 0 / -] 0: Permit, 1: Forbid		
	Enables or disables the automatic process control prohibition.				

004	Pre-ACC		[0 to 2 / 2 / 1/step] 0: Not Executed 1: Process Control 2: TC Control (TD Adjustment) 3: Not used	
	Selects the process control mode that is done before ACC.			
005	Pattern Calculation Method	*ENG	[0 to 2 / 2 / 1 / step] 0: FIXED 1: INITIALIZED 2: CALCULATED	
	Selects the process control method.			

3043	[TD Adjustment Mode]				
001	Repeat Number: Power ON	*ENG	[0 to 9 / 4 / 1 time/step]		
	Specifies the maximum number of repeats of the toner density adjustment at power on. O: Disabled, 1 to 3: Repeat number, 4: Repeat three times (No consumption mode) 5: Repeat three times (Toner is supplied only when the toner density is too low, and toner is consumed only when the toner density is too dark.) 6 to 9: Disabled				
002	Repeat Number: Initialization	*ENG	[0 to 9 / 3 / 1 time/step]		
	Specifies the maximum number of repeats of the toner density adjustment at the developer initialization. O: Disabled, 1 to 3: Repeat number, 4: Repeat three times (No consumption mode) 5: Repeat three times (Toner is supplied only when the toner density is too low, and toner is consumed only when the toner density is too dark.) 6 to 9: Disabled				

	Repeat Number: Non-use	*ENG	[0 to 9 / 0 / 1 time/step]		
	Specifies the maximum number of repeats	of the toner	density adjustment in stand by mo		
	0: Disabled, 1 to 3: Repeat number,				
003	4: Repeat three times (No consumption m	ode)			
	5: Repeat three times (Toner is supplied o consumed only when the toner density is t	-	toner density is too low, and tone		
	6 to 9: Disabled				
	Repeat Number: ACC	*ENG	[0 to 9 / 3 / 1 time/step]		
	Specifies the maximum number of repeats	of the toner	density adjustment at ACC.		
	0: Disabled, 1 to 3: Repeat number,				
004	4: Repeat three times (No consumption m	ode)			
	5: Repeat three times (Toner is supplied only when the toner density is too low, and toner is				
	consumed only when the toner density is t	oo dark.)			
	6 to 9: Disabled				
005	Repeat Number: Recovery	*ENG	[0 to 9 / 0 / 1 time/step]		
003	Not used				
	Repeat Number: Job End	*ENG	[0 to 9 / 4 / 1 time/step]		
	Specifies the maximum number of repeats of the toner density adjustment at job end.				
	0: Disabled, 1 to 3: Repeat number,				
006	4: Repeat three times (No consumption mode)				
	5: Repeat three times (Toner is supplied only when the toner density is too low, and toner is consumed only when the toner density is too dark.)				
	6 to 9: Disabled				
	Repeat: Interrupt	*ENG	[0 to 9 / 0 / 1 time/step]		
007	Specifies the maximum number of repeats of the toner density adjustment during printing. DFU				
000	Toner Supply Coefficient	*ENG	[0 to 25.5 / 10 / 0.1 sec/step]		
800	Adjusts the time for the toner supply mode when a toner density is detected to be low.				

	Consumption pattern: Bk		*E1	1G	[0 to	255 / 5 / 1 time/step]
009	Specifies the belt mark generating time for checking the black toner density when toner density is detected to be low at the toner density adjustment.					
	Consumption pattern: M *El		*EN	1G	[0 to 2	255 / 5 / 1 time/step]
010	Specifies the belt mark generating density is detected to be low at t	-		-	-	enta toner density when toner
	Consumption pattern: C	*ENG	[0	to 25	5 / 5 /	' 1 time/step]
011	Specifies the belt mark generating is detected to be low at the tone	-		-	cyan to	oner density when toner density
	Consumption pattern: Y	*ENG	[0	to 25	5 / 5 /	' 1 time/step]
012		Specifies the belt mark generating time for checking the yellow toner density when toner density is detected to be low at the toner density adjustment.				
012	T1 Bias: Bk	*ENG	[0	to 80	/ 22 /	′ 1 µA/step]
013	Adjusts the image transfer belt bias for Black.					
014	T2 Bias: M	*ENG	[0	to 80	/ 25 /	/ 1 µA/step]
014	Adjusts the image transfer belt bias for Magenta.					
015	T3 Bias: C	*ENG	[0	to 80	/ 22 /	′ 1 µA/step]
013	Adjusts the image transfer belt bias for Cyan.					
016	T4 Bias: Y	*ENG	[0	to 80	/ 28 /	′ 1 µA/step]
010	Adjusts the image transfer belt bias for Yellow.					
017	Developer Mixing Time	*ENG	[0	to 25	0 / 10	/ 1 sec/step]
017	Specifies the developer mixing ti	me at the	toner	densit	y adjus	tment.
	Consumption Pattern: LD: DUTY:	Bk		* [ENG	[0 to 15 / 15 / 1 /step]
018	Adjusts the LD duty for the toner consumption mode at the toner density adjustment.					
016	In toner consumption mode, toner is discharged when the detected development gamma values (SP3611-001) exceed the target values (SP3611-005) by more than the specified thresholds (SP3239-009).					

	Consumption Pattern: LD: DUTY: M	*ENG	[0 to 15 / 15 / 1 /step]				
	Adjusts the LD duty for the toner consumption mode at the toner density adjustment.						
019	In toner consumption mode, toner is discharged when the detected development gamma values (SP3611-002) exceed the target values (SP3611-006) by more than the specified thresholds (SP3239-009).						
	Consumption Pattern: LD: DUTY: C	*ENG	[0 to 15 / 15 / 1 /step]				
	Adjusts the LD duty for the toner consumption mode at the toner density adjustment.						
020	In toner consumption mode, toner is discharged when the detected development gamma values (SP3611-003) exceed the target values (SP3611-007) by more than the specified thresholds (SP3239-009).						
	Consumption Pattern: LD: DUTY: Y	*ENG	[0 to 15 / 15 / 1 /step]				
	Adjusts the LD duty for the toner consumption mode at the toner density adjustment.						
021	In toner consumption mode, toner is discharged when the detected development gamma values (SP3611-004) exceed the target values (SP3611-008) by more than the specified thresholds (SP3239-009).						

3044	[Toner Supply Type] Toner Supply Type ([Color])			
3044	Selects the toner supply method type.			
001	Bk	*ENG	[0 to 4 / 4 / 1/step] Alphanumeric	
002	М	*ENG	0: FIXED (with the supply rates stored with SP 3401)	
003	С	*ENG	1: PID (Vtref_Fixed) 2: PID (Vtref_Control)	
004	Y	*ENG	3: MBD (Vtref_Fixed) 4: MBD (Vtref_Control)	

3045	[Toner End Detection: Set		
3043	Enables/disables the toner alert display on the LCD.		
001	ON/OFF	*ENG	[0 or 1 / 0 / 1/step] 0: Detect, 1: Not Detect

3101	[Toner End/Near End]				
3101	Displays the amount of each color toner. DFU				
001	Toner Replenishment: Bk	*ENG	[1 to 600 / 450 / 1 g/step]		
002	Toner Replenishment: M	*ENG			
003	Toner Replenishment: C	*ENG	[1 to 600 / 360 / 1 g/step]		
004	Toner Replenishment: Y	*ENG			
005-008	Displays the consumed amount of e	each color	toner.		
005	K Toner Consumption	*ENG			
006	M Toner Consumption	*ENG	[0.4-2000 / 0./0.001/]		
007	C Toner Consumption	*ENG	[0 to 3000 / 0 / 0.001 g/step]		
008	Y Toner Consumption	*ENG			
009-012	Displays the remaining amount of e times of the toner supply pumps.	each color	toner. These are calculated by the operating		
009	K Toner Remaining	*ENG			
010	M Toner Remaining	*ENG	[50000 to 400 / 0 / 0 001 or /storn]		
011	C Toner Remaining	*ENG	[-50000 to 600 / 0 / 0.001 g/step]		
012	Y Toner Remaining	*ENG			
013-016	Adjusts the threshold of toner near end for each color. The toner near end message appears on the LCD when the remaining toner amount reaches this threshold. When one of these SPs (SP3-101-009 to 012 or -032 to -035) reaches this threshold, toner near end is detected.				
013	Near End Threshold: Bk	*ENG	[0 to 600 / 30 / 1 g/step]		
014	Near End Threshold: M	*ENG			
015	Near End Threshold: C	*ENG	[0 to 600 / 25 / 1 g/step]		
016	Near End Threshold: Y	*ENG			
017-020	DFU				

017	Cartridge Error Threshold: Bk	*ENG				
018	Cartridge Error Threshold: M	*ENG	[-50000 to 0 / -50000 / 1 g/step]			
019	Cartridge Error Threshold: C	*ENG	[-500001007 -50000 7 1 g/ siep]			
020	Cartridge Error Threshold: Y	*ENG				
	Delta Vt Threshold	*ENG	[0 to 5 / 0.3 / 0.01 V/step]			
021	This SP is the threshold for toner end. Delta Vt: Vt-Vtref When both this SP and SP3-101-026 occur at same time, toner end is determined.					
022-025	Displays the total delta Vt (Vt-Vtree counting.	f) value for e	each color.These are calculated by pixel			
022	Delta Vt Sum: Bk	*ENG				
023	Delta Vt Sum: M	*ENG	[0.4-455 / 0 / 0.01 \ / /44]			
024	Delta Vt Sum: C	*ENG	[0 to 655 / 0 / 0.01 V/step]			
025	Delta Vt Sum: Y	*ENG				
026	Delta Vt Sum Threshold	*ENG	[0 to 255 / 5 / 1 V/step]			
028-031	Displays the consumed toner amo	unt calculat	ed with the pixel count for each color.			
028	Pixel: Consumption: Bk	*ENG				
029	Pixel: Consumption: M	*ENG	[0 to 3000 / 0 / 0.001 g/step]			
030	Pixel: Consumption: C	*ENG	[0 10 3000 / 0 / 0.001 g/siep]			
031	Pixel: Consumption: Y	*ENG				
032-035	Displays the remaining toner amo	unt for each	color, using pixel count.			
032	Pixel: Remaining : Bk	*ENG				
033	Pixel: Remaining : M	*ENG	[-50000 to 600 / 0 / 0.001 g/step]			
034	Pixel: Remaining : C	*ENG	[30000 10 000 / 0 / 0.001 g/ siep]			
035	Pixel: Remaining : Y	*ENG				
036-039	Adjusts the threshold of toner end	for each co	lor.			

036	End Threshold: Bk	*ENG	
037	End Threshold: M	*ENG	Not used
038	End Threshold: C	*ENG	Not used
039	End Threshold: Y	*ENG	
040-043	Displays the pixel M/A for each	color.	
040	Pixel M/A: Bk	*ENG	
041	Pixel M/A: M	*ENG	[0. 1./04/0001 / 2/. 1
042	Pixel M/A: C	*ENG	[0 to 1 / 0.4 / 0.001 mg/cm ² /step]
043	Pixel M/A: Y	*ENG	
044	Delta Vt Threshold Before Near End	*ENG	Adjusts the delta Vt (Vt – Vtref) of toner end before toner near end is detected. [0 to 5 / 0.5 / 0.01 V/step]
045	Delta Vt Sum Threshold Before Near End	*ENG	Adjusts the total delta Vt (Vt – Vtref) of toner end before toner near end is detected. [0 to 255 / 10 / 1 V/step]
046-049	Displays the latest mohno off time).	
046	Mohno Off Time: Bk	*ENG	
047	Mohno Off Time: M	*ENG	[0.1.0.5555555 / 0./1/4.]
048	Mohno Off Time: C	*ENG	[0 to 0xFFFFFFFF / 0 / 1 sec/step]
049	Mohno Off Time: Y	*ENG	

	[Toner End Recovery]			
3102	Adjusts the number of times toner supply is attempted for each color when the TD sensor continues to detect toner end during toner recovery.			
001	Repeat: Bk	*ENG		
002	Repeat: M	*ENG	[] +- 20 / 5 /] **** /]	
003	Repeat: C	*ENG	[1 to 20 / 5 / 1 time/step]	
004	Repeat: Y	*ENG		

0101	[TE Count m: Display]				
3131	Display the number of toner end detections for each color.				
001	Bk	*ENG			
002	М	*ENG	[0.5.00.40.415		
003	С	*ENG	[0 to 99 / 0 / 1 time/step]		
004	Υ	*ENG			

3201	[TD Sensor: Vt Display]				
3201	Display the current voltage of the TD sensor for each color.				
001	Current: Bk	*ENG			
002	Current: M	*ENG	[0.5.5./001/001//]		
003	Current: C	*ENG	[0 to 5.5 / 0.01 / 0.01 V/step]		
004	Current: Y	*ENG			

	[Vt Shift: Display/Set]			
3211	Adjusts the Vt correction value for each line speed. Thick 1: Middle speed, Thick 2&Fine: Low speed			
001	Thick 1 Shift: Bk	*ENG	[0 to 5 / 0.35 / 0.01 V/step]	
002	Thick 1 Shift: M	*ENG	[0 to 5 / 0.33 / 0.01 V/step]	
003	Thick 1 Shift: C	*ENG	[0 to 5 / 0.28 / 0.01 V/step]	
004	Thick 1 Shift: Y	*ENG	[0 to 5 / 0.29 / 0.01 V/step]	
005	Thick 2 & FINE Shift: Bk	*ENG	[0 to 5 / 0.35 / 0.01 V/step]	
006	Thick 2 & FINE Shift: M	*ENG	[0 to 5 / 0.33 / 0.01 V/step]	
007	Thick 2 & FINE Shift: C	*ENG	[0 to 5 / 0.28 / 0.01 V/step]	
008	Thick 2 & FINE Shift: Y	*ENG	[0 to 5 / 0.29 / 0.01 V/step]	

009	Mid TCShift: Bk	*ENG	
010	Mid TCShift: M	*ENG	[-0.5 to 0.5 / 0 / 0.01 V/step]
011	Mid TCShift: C	*ENG	[-0.3 to 0.3 / 0 / 0.01 v / step]
012	Mid TCShift: Y	*ENG	
013	Low TCShift: Bk	*ENG	
014	Low TCShift: M	*ENG	[-0.5 to 0.5 / 0 / 0.01 V/step]
015	Low TCShift: C	*ENG	[-0.5 to 0.5 / 0 / 0.01 v /step]
016	Low TCShift: Y	*ENG	

	[Vtcnt: Display/Set]				
3221	[Vicini. Dispidy/ Jei]				
	Displays or adjusts the current Vtcnt value for each color.				
001	Current: Bk	*ENG			
002	Current: M	*ENG	[2 to 5 / 3.86 / 0.01 V/step]		
003	Current: C	*ENG	[2 10 3 / 3.00 / 0.01 v /siep]		
004	Current: Y	*ENG			
005-00	Displays or adjusts the Vtcnt value for each color at developer initialization. DFU				
005	Initial: Bk	*ENG			
006	Initial: M	*ENG	[2 to 5 / 3.86 / 0.01 V/step]		
007	Initial: C	*ENG	[2 10 3 / 3.00 / 0.01 v /siep]		
008	Initial: Y	*ENG			

2222	[Vtref: Display/Set]
3222	Displays or adjusts the current Vtref value for each color.

001	Current: Bk	*ENG	
002	Current: M	*ENG	[055/2/001//]
003	Current: C	*ENG	[0 to 5.5 / 3 / 0.01 V/step]
004	Current: Y	*ENG	
005-00	Displays or adjusts the Vtref va	lue for eac	h color at developer initialization. DFU
005	Initial: Bk	*ENG	
006	Initial: M	*ENG	[055/2/00] \/]
007	Initial: C	*ENG	[0 to 5.5 / 3 / 0.01 V/step]
008	Initial: Y	*ENG	
009-01	Displays and adjusts Vtref correction by pixel coverage for each color. DFU		
009	Pixel Correction: Bk	*ENG	
010	Pixel Correction: M	*ENG	[-5 to 5.5 / 0 / 0.01 V/step]
011	Pixel Correction: C	*ENG	[-3 10 3.3 / 0 / 0.01
012	Pixel Correction: Y	*ENG	

2002	[Vtref Upper Lower: Set] DFU		
3223	Adjusts the lower or upper limit value of Vtref for each color.		
001	Lower: Bk	*ENG	
002	Lower: M	*ENG	[0.4-5/2/0.01 \\/.41
003	Lower: C	*ENG	[0 to 5 / 2 / 0.01 V/step]
004	Lower: Y	*ENG	
005	Upper: Bk	*ENG	
006	Upper: M	*ENG	[0 to 5 / 4 / 0.01 V/step]
007	Upper: C	*ENG	[0 10 3 / 4 / 0.01 v/siep]
008	Upper: Y	*ENG	

009	Initial TC	*ENG	Adjusts the initial toner concentration. [1 to 15 / 7 / 0.1 wt%/step]
010	Upper: TC	*ENG	Adjusts the upper limit of the toner concentration. [1 to 15 / 9.5 / 0.1 wt%/step]
011	Lower: TC	*ENG	Adjusts the lower limit of the toner concentration. [1 to 15 / 4 / 0.1 wt%/step]
012	Upper Sensitivity	*ENG	Adjusts the upper limit of the TD sensor sensitivity. [0.2 to 0.5 / 0.44 / 0.001 V/wt% / step]
013	Lower Sensitivity	*ENG	Adjusts the lower limit of the TD sensor sensitivity. [0.2 to 0.5 / 0.209 / 0.001 V/wt% / step]
014	Toner Density Between H and M	*ENG	[1 to 10 / 3.5 / 0.1 wt%/step]
015	Toner Density Between M and L	*ENG	[1 to 10 / 3.5 / 0.1 wt%/step]
016	Upper TC:K	*ENG	
017	Upper TC:M	*ENG	[] to 15 / 0 / 0] wt% /stop]
018	Upper TC:C	*ENG	[1 to 15 / 9 / 0.1 wt%/step]
019	Upper TC:Y	*ENG	

3224	[Vtref Correction: Pixel] DFU				
3224	Adjusts the coefficient of Vtref correction	e coefficient of Vtref correction for each coverage and color.			
001	Low Coverage Coefficient: Bk	*ENG			
002	Low Coverage Coefficient: M	*ENG	[0.4- 5 / 1 / 0.1 /-4]		
003	Low Coverage Coefficient: C	*ENG	[0 to 5 / 1 / 0.1 /step]		
004	Low Coverage Coefficient: Y	*ENG			
005	High Coverage Coefficient: Bk	*ENG	[0 to 5 / 1 / 0.01 V/step]		

006	High Coverage Coefficient: M	*ENG	
007	High Coverage Coefficient: C	*ENG	[0 to 5 / 0.5 / 0.01 V/step]
008	High Coverage Coefficient: Y	*ENG	
009	Low Coverage: Threshold	*ENG	Adjusts the threshold of the low coverage. [0 to 20 / 3 / 0.1 %/step]
010	High Coverage: Threshold	*ENG	Adjusts the threshold of the high coverage. [0 to 100 / 60 / 1 %/step]
011	TC Upper Limit Correction	*ENG	[0 to 5 / 0 / 0.1 wt%/step]
012	Upper Limit TC: Display: Bk	*ENG	
013	Upper Limit TC: Display: M	*ENG	[] to 15 / 10 / 0]t ⁰ / /stam]
014	Upper Limit TC: Display: C	*ENG	[1 to 15 / 10 / 0.1 wt% /step]
015	Upper Limit TC: Display: Y	*ENG	
016	Process Control Execution Threshold	*ENG	[0 to 255 / 50 / 1 time/step]

3230	[Toner Supply MBD] DFU		
001	ADD_TIME	*ENG	[0 to 1000 / 200 / 10 msec./step]
002	ADD:K	*ENG	
003	ADD:C	*ENG	[0 to 2 / 1 / 0.01 /step]
004	ADD:M	*ENG	[0 10 2 / 1 / 0.0 1 / siep]
005	ADD:Y	*ENG	
006	ADD_MidSpd	*ENG	[0.01 to 5 / 1 / 0.01 /step]
007	ADD:LowSpd	*ENG	[0.01 to 5 / 1 / 0.01 /step]
008	MSEC_V	*ENG	[0 to 1 / 0.08 / 0.001 /step]
009	N_Delay	*ENG	[0 to 200 / 27 / 1 /step]

030	PID:I:K	*ENG	
031	PID:I:C	*ENG	[0. 100 /004 /001 /.]
032	PID:I:M	*ENG	[0 to 100 / 0.24 / 0.01 /step]
033	PID:I:Y	*ENG	
034	PID:P:K	*ENG	
035	PID:P:C	*ENG	[0+ 100 / 40 / 0.01 /+++1
036	PID:P:M	*ENG	[0 to 100 / 4.8 / 0.01 /step]
037	PID:P:Y	*ENG	
038	PID_I_MidSpd	*ENG	[0 to 5 / 1 / 0.01 /step]
039	PID:I:LowSpd	*ENG	[0 to 5 / 0.5 / 0.01 /step]
040	PID_P_MidSpd	*ENG	[0 to 5 / 1 / 0.01 /step]
041	PID:P:LowSpd	*ENG	[0 to 5 / 0.5 / 0.01 /step]
060	AWILOW:K	*ENG	
061	AWILOW:C	*ENG	[-1 to 1 / 0.208 / 0.01 /step]
062	AWILOW:M	*ENG	[-1101/ 0.206 / 0.01/siep]
063	AWILOW:Y	*ENG	
064	AWPUP:K	*ENG	
065	AWPUP:C	*ENG	[-1 to 1 / 1 / 0.0001 /step]
066	AWPUP:M	*ENG	[-1101/1/0.0001/siep]
067	AWPUP:Y	*ENG	
068	AWILOW_MidSpd	*ENG	[0 to 100 / 1 / 0.01 /step]
069	AWPUP_MidSpd	*ENG	[0 to 100 / 1 / 0.01 /step]
070	AWILOW:LowSpd	*ENG	[0 to 100 / 2 / 0.01 /step]
071	AWPUP:LowSpd	*ENG	[0 to 100 / 1 / 0.01 /step]
	<u> </u>		

090	SMITH:K	*ENG	
091	SMITH:C	*ENG	[0. 0./010/001/]
092	SMITH:M	*ENG	[0 to 2 / 0.12 / 0.01 /step]
093	SMITH:Y	*ENG	
094	SMITH_MidSpd	*ENG	[0 to 5 / 1 / 0.01 /step]
095	SMITH:LowSpd	*ENG	[0 to 5 / 2 / 0.01 /step]
100	Int_conserve_I_K	*ENG	
101	Int_conserve_I_C	*ENG	[1000 + 1000 / 6 / 0 0001 / +1
102	Int_conserve_I_M	*ENG	[-1000 to 1000 / 0 / 0.0001 /step]
103	Int_conserve_I_Y	*ENG	
110	ANC_ref_conserve_K	*ENG	
111	ANC_ref_conserve_C	*ENG	[1000, 1000 / 6 / 0 0001 / ,]
112	ANC_ref_conserve_M	*ENG	[-1000 to 1000 / 0 / 0.0001 /step]
113	ANC_ref_conserve_Y	*ENG	
120	ANC_A3_K	*ENG	
121	ANC_A3_C	*ENG	[0, 1/000/0001/, 1
122	ANC_A3_M	*ENG	[0 to 1 / 0.08 / 0.001 /step]
123	ANC_A3_Y	*ENG	
124	ANC_A4_K	*ENG	
125	ANC_A4_C	*ENG	[01/0.00/0.001/]
126	ANC_A4_M	*ENG	[0 to 1 / 0.08 / 0.001 /step]
127	ANC_A4_Y	*ENG	
128	ANC_A3_MidSpd	*ENG	[0 to 5 / 1 / 0.01 /step]
129	ANCA4T_MidSpd	*ENG	[0 to 5 / 1 / 0.01 /step]
130	ANC_A3_LowSpd	*ENG	[0 to 1 / 0.62 / 0.001 /step]
131	ANCA4T_LowSpd	*ENG	[0 to 1 / 0.5 / 0.001 /step]

150	AWPNI_K	*ENG	
151	AWPNI_C	*ENG	[10, 10 /00 /0001 /,]
152	AWPNI_M	*ENG	[-10 to 10 / 0.2 / 0.001 /step]
153	AWPNI_Y	*ENG	
154	PID	*ENG	[0 to 5 / 1 / 0.01 /step]
180	ancia_k	*ENG	
181	ANCLA_C	*ENG	[0.1.1.40.12.40.001.4]
182	ANCLA_M	*ENG	[0 to 1 / 0.12 / 0.001 /step]
183	ANCLA_Y	*ENG	
184	anclb_k	*ENG	
185	anclb_c	*ENG	[0 to 1 / 0.15 / 0.001 /step]
186	anclb_m	*ENG	[0 10 1 / 0.13 / 0.001 / siep]
187	anclb_y	*ENG	
188	ANCLA_MidSpd	*ENG	[0 to 5 / 1 / 0.01 /step]
189	ANCLB_MidSpd	*ENG	[0 to 5 / 0.5 / 0.01 /step]
190	ANCLA_LowSpd	*ENG	[0 to 5 / 0.5 / 0.01 /step]
191	ANCLB_LowSpd	*ENG	[0 to 5 / 0.4 / 0.01 /step]
210	PIX_TBL_1	*ENG	
211	PIX_TBL_2	*ENG	
212	PIX_TBL_3	*ENG	[0 to 5 / 1 / 0.01 /step]
213	PIX_TBL_4	*ENG	
214	PIX_TBL_5	*ENG	

PIX_TBL_6	*ENG	
PIX_TBL_7	*ENG	
PIX_TBL_8	*ENG	
PIX_TBL_9	*ENG	[0 to 5 / 1 / 0.01 /step]
PIX_TBL_10	*ENG	
PIX_TBL_11	*ENG	
PIX_TBL_12	*ENG	
PIX_COR_K	*ENG	
PIX_COR_C	*ENG	[0, 5/1/00]/.]
PIX_COR_M	*ENG	[0 to 5 / 1 / 0.01 /step]
PIX_COR_Y	*ENG	
SEL_PIX_AVE	*ENG	[1 to 5 / 2 / 1 /step]
PID_I_LIM 1_Std	*ENG	[0 to 1 / 0.068 / 0.001/step]
PID_I_LIM1_MidSpd	*ENG	[0 to 1 / 0.068 / 0.001/step]
PID_I_LIM1_LowSpd	*ENG	[0 to 1 / 0.036 / 0.001/step]
PID_I_LIM2_Std	*ENG	[0 to 1 / 0.068 / 0.001/step]
PID_I_LIM2_MidSpd	*ENG	[0 to 1 / 0.068 / 0.001/step]
PID_I_LIM2_LowSpd	*ENG	[0 to 1 / 0.036 / 0.001/step]
PID_P_LIM1_Std	*ENG	[0 to 1 / 0.068 / 0.001/step]
PID_ P _LIM1_MidSpd	*ENG	[0 to 1 / 0.068 / 0.001/step]
PID_ P _LIM1_LowSpd	*ENG	[0 to 1 / 0.036 / 0.001/step]
PID_ P _LIM2_Std	*ENG	[0 to 1 / 0.068 / 0.001/step]
PID_ P _LIM2_MidSpd	*ENG	[0 to 1 / 0.068 / 0.001/step]
PID_ P _LIM2_LowSpd	*ENG	[0 to 1 / 0.036 / 0.001/step]
PID_I_STDtoLOW	*ENG	[0 to 5 / 0.5 / 0.01/step]
PID_I_LOWtoSTD	*ENG	[0 to 5 / 2 / 0.01/step]
	PIX_TBL_7 PIX_TBL_8 PIX_TBL_9 PIX_TBL_10 PIX_TBL_11 PIX_TBL_12 PIX_COR_K PIX_COR_C PIX_COR_M PIX_COR_Y SEL_PIX_AVE PID_I_LIM1_Std PID_I_LIM1_LowSpd PID_I_LIM2_Std PID_I_LIM2_Std PID_I_LIM2_MidSpd PID_P_LIM1_Std PID_P_LIM1_Std PID_P_LIM1_Std PID_P_LIM1_Std PID_P_LIM1_Std PID_P_LIM1_Std PID_P_LIM1_Std PID_P_LIM1_LowSpd PID_P_LIM1_LowSpd PID_P_LIM1_LowSpd PID_P_LIM1_LowSpd PID_P_LIM1_LowSpd PID_P_LIM2_Std PID_P_LIM2_Std PID_P_LIM2_Std PID_P_LIM2_Std PID_P_LIM2_LowSpd PID_P_LIM2_LowSpd PID_P_LIM2_LowSpd PID_P_LIM2_LowSpd	PIX_TBL_7 *ENG PIX_TBL_8 *ENG PIX_TBL_9 *ENG PIX_TBL_10 *ENG PIX_TBL_11 *ENG PIX_TBL_12 *ENG PIX_COR_K *ENG PIX_COR_C *ENG PIX_COR_M *ENG PIX_COR_Y *ENG PID_I_LIM1_Std *ENG PID_I_LIM1_Std *ENG PID_I_LIM1_LowSpd *ENG PID_I_LIM2_Std *ENG PID_I_LIM2_MidSpd *ENG PID_P_LIM1_Std *ENG PID_P_LIM1_Std *ENG PID_P_LIM1_Std *ENG PID_P_LIM1_Std *ENG PID_P_LIM1_MidSpd *ENG PID_P_LIM2_Std *ENG PID_P_LIM2_Std *ENG PID_P_LIM2_NidSpd *ENG PID_P_LIM2_NidSpd *ENG PID_P_LIM2_LowSpd *ENG PID_I_STDtoLOW *ENG

245	PID_I_STDtoMID	*ENG	[0 to 5 / 1 / 0.01/step]
246	PID_I_MIDtoSTD	*ENG	[0 to 5 / 1 / 0.01/step]
247	PID_I_MIDtoLOW	*ENG	[0 to 5 / 0.5 / 0.01/step]
248	PID_I_LOWtoMID	*ENG	[0 to 5 / 2 / 0.01/step]

3231	[Toner Supply: Setting] DFU				
3231	r each color.				
001	Conversion Coefficient:Bk	*ENG	[0.5 to 9.99 / 1.66 / 0.01 /step]		
002	Conversion Coefficient: M	*ENG	[0.5 to 9.99 / 1.66 / 0.01 /step]		
003	Conversion Coefficient: C	*ENG	[0.5 to 9.99 / 1.6 / 0.01 /step]		
004	Conversion Coefficient: Y	*ENG	[0.5 to 9.99 / 1.66 / 0.01 /step]		

3232	[Toner Supply Coefficient: Setting] DFU		
001	Vt Proportion: Bk	*ENG	
002	Vt Proportion: M	*ENG	[0 to 2550 / 50 / 1 /stan]
003	Vt Proportion: C	*ENG	[0 to 2550 / 50 / 1 /step]
004	Vt Proportion: Y	*ENG	
005	Pixel Proportion: Bk	*ENG	
006	Pixel Proportion: M	*ENG	[0 to 2.55 / 0.47 / 0.01 /step]
007	Pixel Proportion: C	*ENG	[0 10 2.33 / 0.47 / 0.01 / slep]
008	Pixel Proportion: Y	*ENG	
009	Vt Integral Control: Bk	*ENG	
010	Vt Integral Control: M	*ENG	[0 to 2550 / 500 / 1 /step]
011	Vt Integral Control: C	*ENG	[[0 10 2330 / 300 / 1 / step]
012	Vt Integral Control: Y	*ENG	

013	Vt Sum Times: Bk	*ENG	
014	Vt Sum Times: M	*ENG	[14, 255 / 20 / 15,
015	Vt Sum Times: C	*ENG	[1 to 255 / 20 / 1 time/step]
016	Vt Sum Times: Y	*ENG	

3233	[Pixel Proportion Coefficient 2: Setting] DFU		
001	Correction Coefficient: 1	*ENG	[0 to 2.55 / 1 / 0.01 /step]
002	Correction Coefficient: 2	*ENG	[0 to 2.55 / 0.5 / 0.01 /step]
003	Correction Coefficient: 3	*ENG	[0 to 2.55 / 0 / 0.01 /step]
004	Correction Coefficient: 4	*ENG	[0 to 2.55 / 0.25 / 0.01 /step]
005	Correction Coefficient: 5	*ENG	[0 to 2.55 / 0.5 / 0.01 /step]

3234	[Pixel Proportion Coefficient 3: Setting] DFU		
001	Correction Value 1	*ENG	[-0.1 to 0 / - 0.01 / 0.01 /step]
002	Correction Value 2	*ENG	[0 to 0.1 / 0.01 / 0.01 /step]

3235	[Toner Supply Coefficient: Display] DFU		
001	Pixel Proportion 2: Bk	*ENG	
002	Pixel Proportion 2: M	*ENG	[0 2.55 /1 /0.01 /]
003	Pixel Proportion 2: C	*ENG	[0 to 2.55 / 1 / 0.01 /step]
004	Pixel Proportion 2: Y	*ENG	
005	Pixel Proportion 3: Bk	*ENG	
006	Pixel Proportion 3: M	*ENG	[0.7], 1.2 / 1 / 0.01 / 1
007	Pixel Proportion 3: C	*ENG	[0.7 to 1.3 / 1 / 0.01 /step]
800	Pixel Proportion 3: Y	*ENG	

009	Vt Integral Value: Bk	*ENG	
010	Vt Integral Value: M	*ENG	[-255 to 255 / 0 / 0.01 /step]
011	Vt Integral Value: C	*ENG	[-233 to 233 / 0 / 0.01 / step]
012	Vt Integral Value: Y	*ENG	

[Toner Supply Consumption: Display] DFU			
3230	Displays the toner amount of the latest toner supply for each color.		
001	Latest: Bk	*ENG	
002	Latest: M	*ENG	[0.4,40000 / 0.701 / 4]
003	Latest: C	*ENG	[0 to 40000 / 0 / 0.1 mg/step]
004	Latest: Y	*ENG	

3237	[Developer Mixing Setting] DFU				
3237	Displays the toner amount of the latest toner supply for each color.				
001	Mixing Time	*ENG	[0 to 200 / 5 / 1 sec/step]		

3238	[Vt Target: Setting] DFU					
3236	Displays the Vt target value at developer initialization.					
001	Bk	*ENG				
002	М	*ENG	[0+5/25/0017/]			
003	С	*ENG	[0 to 5 / 2.5 / 0.01 V/step]			
004	Υ	*ENG				

3239	[Vtref Correction: Setting]
3239	Adjusts the parameter for Vtref correction at the process control.

001	(+)Consumption: Bk	*ENG				
002	(+)Consumption: M	*ENG				
003	(+)Consumption: C	*ENG				
004	(+)Consumption: Y	*ENG	[0. 1/005/001//]			
005	(-)Consumption: Bk	*ENG	[0 to 1 / 0.05 / 0.01 V/step]			
006	(-)Consumption: M	*ENG				
007	(-)Consumption: C	*ENG				
008	(-)Consumption: Y	*ENG				
009-012	Threshold for development go	amma rank.				
009	P Rank 1 Threshold	*ENG	[0 to 2 / 0.2 / 0.1 /step]			
010	P Rank 2 Threshold	*ENG	[0 to 2 / 0.05 / 0.1 /step]			
011	P Rank 3 Threshold	*ENG	[-2 to 0 / -0.05 / 0.1 /step]			
012	P Rank 4 Threshold	*ENG	[-2 to 0 / -0.2 / 0.1 /step]			
013-014	Threshold for image density rank on the image transfer belt.					
013	T Rank 1 Threshold	*ENG	[-1 to 0 / -0.2 / 0.01 V/step]			
014	T Rank 2 Threshold	*ENG	[0 to 1 / 0.2 / 0.01 V/step]			

3241	[Background Potential Setting]					
001	Coefficient: Bk	*ENG	These are parameters for calculating the charge			
002	Coefficient: M	*ENG	bias referring to the development bias at process control.			
003	Coefficient: C	*ENG	[-1000 to 1000 / 0 / 1 /step]			
004	Coefficient: Y	*ENG	DC charge bias = Development bias x (1 + 0.001 x these vales) + SP3-241-005 to -008			

005	Offset: Bk	*ENG	These are additional values for calculating the
006	Offset: M	*ENG	charge bias referring to the development bias at process control.
007	Offset: C	*ENG	[0 to 255 / 140 / 1 V/step]
008	Offset: Y	*ENG	DC charge bias = Development bias x (1 + 0.001 x SP3-241-001 to -004) + these values

3242							
3242	Adjusts the coefficient for I	pefficient for LD power control value at the process control.					
001	StdSpd:Coefficient: Bk	*ENG	[-1000 to 1000 / 101 / 1 /step]				
002	StdSpd:Coefficient: M	*ENG	[-1000 to 1000 / 62 / 1 /step]				
003	StdSpd:Coefficient: C	*ENG	[-1000 to 1000 / 99 / 1 /step]				
004	StdSpd:Coefficient: Y	*ENG	[-1000 to 1000 / 74 / 1 /step]				
005	StdSpd:Offset: Bk	*ENG	[-1000 to 1000 / 69 / 1 /step]				
006	StdSpd:Offset: M	*ENG	[-1000 to 1000 / 95 / 1 /step]				
007	StdSpd:Offset: C	*ENG	[-1000 to 1000 / 63 / 1 /step]				
800	StdSpd:Offset: Y	*ENG	[-1000 to 1000 / 82 / 1 /step]				
009	MidSpd:coef:Bk	*ENG	[-1000 to 1000 / 101 / 1 /step]				
010	MidSpd:coef:M	*ENG	[-1000 to 1000 / 62 / 1 /step]				
011	MidSpd:coef:C	*ENG	[-1000 to 1000 / 99 / 1 /step]				
012	MidSpd:coef:Y	*ENG	[-1000 to 1000 / 74 / 1 /step]				
013	MidSpd:offset:Bk	*ENG	[-1000 to 1000 / 69 / 1 /step]				
014	MidSpd:offset:M	*ENG	[-1000 to 1000 / 95 / 1 /step]				
015	MidSpd:offset:C	*ENG	[-1000 to 1000 / 63 / 1 /step]				
016	MidSpd:offset:Y	*ENG	[-1000 to 1000 / 82 / 1 /step]				
017	LowSpd:Coef:Bk	*ENG	[-1000 to 1000 / 81 / 1 /step]				
018	LowSpd:Coef:M	*ENG	[-1000 to 1000 / 61 / 1 /step]				
019	LowSpd:Coef:C	*ENG	[-1000 to 1000 / 86 / 1 /step]				

020	LowSpd:Coef:Y	*ENG	[-1000 to 1000 / 67 / 1 /step]
021	LowSpd:offset:Bk	*ENG	[-1000 to 1000 / 82 / 1 /step]
022	LowSpd:offset:M	*ENG	[-1000 to 1000 / 92 / 1 /step]
023	LowSpd:offset:C	*ENG	[-1000 to 1000 / 68 / 1 /step]
024	LowSpd:offset:Y	*ENG	[-1000 to 1000 / 87 / 1 /step]

3243	[DevBias_SpdCorrectSetting]					
3243	Adjusts the coefficient or offset value for development bias correction for each speed.					
001	MidSpd:Coef:Bk	*ENG				
002	MidSpd:Coef:M	*ENG	[0.5 to 1.5 / 1 / 0.01 / store]			
003	MidSpd:Coef:C	*ENG	[0.5 to 1.5 / 1 / 0.01 /step]			
004	MidSpd:Coef:Y	*ENG				
005	MidSpd:offset:Bk	*ENG				
006	MidSpd:offset:M	*ENG	[-128 to 127 / 0 / 1 V/step]			
007	MidSpd:offset:C	*ENG	[-120 10 127 / 0 / 1 v / siep]			
008	MidSpd:offset:Y	*ENG				
009	LowSpd:Coef:Bk	*ENG	[0.5 to 1.5 / 0.9 / 0.01 /step]			
010	LowSpd:Coef:M	*ENG	[0.5 to 1.5 / 0.91 / 0.01 /step]			
011	LowSpd:Coef:C	*ENG	[0.5 to 1.5 / 0.9 / 0.01 /step]			
012	LowSpd:Coef:Y	*ENG	[0.516 1.5 / 0.9 / 0.01 / step]			
013	LowSpd:offset:Bk	*ENG				
014	LowSpd:offset:M	*ENG	[-128 to 127 / 0 / 1 V/step]			
015	LowSpd:offset:C	*ENG	[-1201012/ / 0 / 1 v/siep]			
016	LowSpd:offset:Y	*ENG				

3251	[Coverage]	
3231	These (-001 to -016) are coefficients for SP3-222-009 to -012.	

001	Latest Pixel: Bk	*E1	٧G				
002	Latest Pixel: M	*E1	٧G	Disp	plays the latest coverage for each color.		
003	Latest Pixel: C	*ENG		[0 to 9999 / 0 / 1 cm ² /step]	o 9999 / 0 / 1 cm ² /step]		
004	Latest Pixel: Y	*E1	٧G				
005-008	. ,	e average coverage of each color for the Vtref correction. " is defined when the number of developed pages does not reach the number ith SP3251-017.					
005	Average S: Bk	*E1	٧G				
006	Average S: M	*E1	٧G	[0.	100 / 5 / 0 01 0/ / 1		
007	Average S: C	*E1	٧G	[O fo	o 100 / 5 / 0.01 %/step]		
008	Average S: Y	*E1	٧G				
009-012	Displays the average coverage of each color for the Vtref correction. "Average M" is defined when the number of developed pages does not reach the number specified with SP3251-018.						
009	Average M: Bk	* E1	٧G				
010	Average M: M	*E1	*ENG		100 / 5 / 001 9/ / 1		
011	Average M: C	*E1	٧G	[0 to 100 / 5 / 0.01 %/step]	5 100 / 3 / 0.01 %/stepj		
012	Average M: Y	*ENG					
013-016		nen the			lor for the Vtref correction. developed pages does not reach the number		
013	Average L: Bk	*E1	٧G				
014	Average L: M	*E1	٧G	[0:	- 100 / 5 / 0 01 % /st1		
015	Average L: C	*ENG		[0 to 100 / 5 / 0.01 %/step]	0 100 / 3 / 0.01 / ₀ /siep]		
016	Average L: Y	*ENG					
017-019	Adjusts the threshold for SP3-251-005 to -016.						
017	Total Page Setting: S		*EN	1G	[1 to 100 / 10 / 1 sheet/step]		

018	Total Page Setting: M	*ENG	[1 to 500 / 10 / 1 sheet/step]		
019	Total Page Setting: L	*ENG	[1 to 999 / 50 / 1 sheet/step]		
020-023	Adjusts the threshold for SP3-2	51-024 to	-027.		
020	Total Page Setting: S2	*ENG	[1 to 100 / 40 / 1 sheet/step]		
021	Total Page Setting: M2	*ENG	[1 to 500 / 10 / 1 sheet/step]		
022	Total Page Setting: L2	*ENG	[1 to 999 / 50 / 1 sheet/step]		
024-027	Displays the latest coverage ratio for each color.				
024	Latest Coverage: Bk	*ENG			
025	Latest Coverage: M	*ENG	[0, 100 / /0019//,]		
026	Latest Coverage: C	*ENG	[0 to 100 / - / 0.01 %/step]		
027	Latest Coverage: Y	*ENG			
000	Displays the threshold of wheth	ner to perfor	m developer churning or not.		
028	DevMix Threshold	*ENG	[0 to 100 / 20 / 1 %/step]		

3311	[ID Sensor Detection Value: Vofset]					
3311	Displays the ID sensor (regular) offset voltage for Vsg adjustments.					
001	Voffset reg: Bk	*ENG	[0 to 5 / 0 / 0.01 V/step]			
002	Voffset reg: M	*ENG				
003	Voffset reg: C	*ENG	[0 to 5.5 / 0 / 0.01 V/step]			
004	Voffset reg: Y	*ENG				
005-007	Displays the ID sensor (diffusion) offset voltage for Vsg adjustments.					
005	Voffset dif: M	*ENG				
006	Voffset dif: C	*ENG	[0 to 5.5 / 0 / 0.01 V/step]			
007	Voffset dif: Y	*ENG				
008-010	Displays the ID sensor offset voltage for Vsg adjustments.					

800	Voffset TM (Front)	*ENG	
009	Voffset TM (Center)	*ENG	[0 to 5.5 / 0 / 0.01 V/step]
010	Voffset TM (Rear)	*ENG	

3321	[Vsg Adjustment: Execution]		
010	P/TM Sensor All	-	Execute the ID sensor initialization setting for all sensors

2222	[Vsg Adjustment Result: Vsg]				
3322	Displays the result value of the Vsg adjustment for each sensor.				
001	Vsg reg: Bk	*ENG			
002	Vsg reg: M	*ENG			
003	Vsg reg: C	*ENG			
004	Vsg reg: Y	*ENG			
005	Vsg dif: M	*ENG	[0 to 5.5 / 0 / 0.01 V/step]		
006	Vsg dif: C		0 10 3.3 / 0 / 0.0 1 v / siep]		
007	Vsg dif: Y	*ENG			
008	Vsg TM (Front)	*ENG			
009	Vsg TM (Center)	*ENG			
010	Vsg TM (Rear)	*ENG			

3323	[Vsg Adjustment Result: Ifsg] DFU		
001	Ifsg: Bk	*ENG	
002	Ifsg: M	*ENG	[0.4-50/0/01-4/-4]
003	Ifsg: C	*ENG	[0 to 50 / 0 / 0.1 mA/step]
004	Ifsg: Y	*ENG	

005	Ifsg TM (Front)	*ENG	
006	Ifsg TM (Center)	*ENG	[0 to 50 / 0 / 0.1 mA/step]
007	Ifsg TM (Rear)	*ENG	

3324	[Vsg Adjustment: Set] DFU		
003	Vofset Error Counter	*ENG	[0 to 99 / 0 / 0.1 time/step]
004	Vofset Threshold	*ENG	[0 to 5 / 1 / 0.01 V/step]
005	Vsg Upper Threshold	*ENG	[0 to 5 / 4.5 / 0.01 V/step]
006	Vsg Lower Threshold	*ENG	[0 to 5 / 3.5 / 0.01 V/step]

	[Vsg Adjustment Result]			
3325	Displays the result of the Vsg adjustment. The displayed numbers mean the result of each sensor (sensor for Front, sensor for Bk, sensor for Cyan, sensor for Center, sensor for Magenta, sensor for Yellow and sensor for Rear).			
001	Latest	*ENG		
002	Latest 1	*ENG		
003	Latest 2	*ENG		
004	Latest 3	*ENG	[111111 to 999999 / 999999 / 1 /step]	
005	Latest 4	*ENG	9: Unexpected error 3: Offset voltage error	
006	Latest 5	*ENG	2: Vsg adjustment value error	
007	Latest 6	*ENG	1: O.K	
008	Latest 7	*ENG		
009	Latest 8	*ENG		
010	Latest 9	*ENG		

3361 [ID Sensor Sensitivity: Display] Not Used	
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001	K2K (Latest)	*ENG	
002	K5K (Latest)	*ENG	
003	K2M (Latest)	*ENG	
004	K5M (Latest)	*ENG	[0 to 5 / - / 0.0001 /step]
005	K2C (Latest)	*ENG	[0 10 3 / - / 0.000 1 / siep]
006	K5C (Latest)	*ENG	
007	K2Y (Latest)	*ENG	
800	K5Y (Latest)	*ENG	

3362 [ID Sensor Sensitivity: Setting] DFU			
001	K2: Upper	*ENG	[0 to 1 / 0.32 / 0.01 /step]
002	K2: Lower	*ENG	[0 to 1 / 0.22 / 0.01 /step]
003	K5: Upper	*ENG	[0 to 10 / 5 / 0.01 /step]
004	K5: Lower	*ENG	[0 to 1 / 0.5 / 0.01 /step]
005	Kn: Lower	*ENG	[0 to 1 / 0.1 / 0.01 /step]
006	Kn: Upper	*ENG	[0 to 1 / 1 / 0.01 /step]
007	K5 Edit Point	*ENG	[0 to 1 / 0.15 / 0.01 /step]
008	K5 Target Voltage	*ENG	[0 to 5 / 1.63 / 0.01 V/step]
009	K5 Approximate Method	*ENG	[0 to 1 / 1 / 1 /step] 0:Linear, 1: Curve
010	K2: Upper/Lower Limit Coefficient 1	*ENG	[0 to 1 / 0 / 0.01 /step]
011	K2: Upper Limit Correction	*ENG	[-0.2 to 0.4 / 0.03 / 0.01 /step]
012	K2: Lower Limit Correction	*ENG	[-0.2 to 0.4 / -0.03 / 0.01 /step]
013	Diffusion Correction: M	*ENG	
014	Diffusion Correction: C	*ENG	[0.75 to 1.35 / 1 / 0.01 /step]
015	Diffusion Correction: Y	*ENG	

016	K2: Check: M	*ENG	
017	K2: Check: C	*ENG	[0 to 1 / 0.25 / 0.001 /step]
018	K2: Check: Y	*ENG	

3363	[ID Pattern Timing Setting] DFU			
001	Scan YCMBk	*ENG	Adjusts the detection timing for the process control pattern. [-500 to 500 / 13.7 / 1 mm/step]	
002	Detection Delay Time	*ENG	Adjusts the timing when the paper transfer unit is kept away from the image transfer belt. [0 to 2500 / 0 / 1 msec/step]	
003	Delay Time	*ENG	Adjusts the processing timing for the process control pattern. [0 to 2500 / 880 / 1 msec/step]	
004	MUSIC Delay Time	*ENG	Adjusts the processing timing for the pattern that is used for the line position adjustment. [-2500 to 2500 / 300 / 1 msec/step]	

3371	[M/A Calculation] DFU		
001	Correction Coefficient: Bk	*ENG	[0.5 to 2.0 / 1 / 0.01 /step]
002	Correction Coefficient: M	*ENG	[0.5 to 2.0 / 1 / 0.01 /step]
003	Correction Coefficient: C	*ENG	[0.5 to 2.0 / 1 / 0.01 /step]
004	Correction Coefficient: Y	*ENG	[0.5 to 2.0 / 1 / 0.01 /step]
005	Correction Coefficient: Bk	*ENG	[0.5 to 2.0 / 1 / 0.01 /step]
006	Correction Coefficient: M	*ENG	[0.5 to 2.0 / 1 / 0.01 /step]
007	Correction Coefficient: C	*ENG	[0.5 to 2.0 / 0.96 / 0.01 /step]
008	Correction Coefficient: Y	*ENG	[0.5 to 2.0 / 1.04 / 0.01 /step]

3401	[Fixed Supply Mode]		
3401	Adjusts the toner supply rate in the fixed toner supply mode.		
001	Fixed Rate: Bk	*ENG	
002	Fixed Rate: M	*ENG	[0 to 100 / 5 / 1 %/step]
003	Fixed Rate: C	*ENG	These SPs are used only when SP3-044 is set to "1".
004	Fixed Rate: Y	*ENG	

2.41.1	[Toner Supply Rate: Display]		
Displays the current toner supply rate.			
001	Latest: Bk	*ENG	
002	Latest: M	*ENG	[0100 / /1.9/ /]
003	Latest: C	*ENG	[0 to 100 / - / 1 %/step]
004	Latest: Y	*ENG	

3421	[Toner Supply Range]		
001	Upper Limit: Bk	*ENG	
002	Upper Limit: M	*ENG	Adjusts the toner supply rate during printing.
003	Upper Limit: C	*ENG	[0 to 100 / 100 / 1%/step]
004	Upper Limit: Y	*ENG	
005	Minimum Supply Time: Bk	*ENG	
006	Minimum Supply Time: M	*ENG	Adjusts the minimum toner supply time.
007	Minimum Supply Time: C	*ENG	[0 to 1000 / 0 / 1 msec/step]
008	Minimum Supply Time: Y	*ENG	

3451	[Toner Supply Carry Over: Display] DFU	
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001	Bk	*ENG	
002	М	*ENG	[0 += 10000 / 0 / 1 ==== /++==]
003	С	*ENG	[0 to 10000 / 0 / 1 msec/step]
004	Υ	*ENG	

3452	[Toner Supply Carry Over: Setting] DFU		
001	Maximum: Bk	*ENG	
002	Maximum: M	*ENG	[0.1.10000 / 1000 / 1 / 1]
003	Maximum: C	*ENG	[0 to 10000 / 1000 / 1 msec/step]
004	Maximum: Y	*ENG	

3501	[Process Control Target M/A]		
3301	Adjusts the target M/A.		
001	Maximum M/A: Bk	*ENG	
002	Maximum M/A: M	*ENG	[0+-1/0444/0001/2/1
003	Maximum M/A: C	*ENG	[0 to 1 / 0.444 / 0.001 mg/cm ² /step]
004	Maximum M/A: Y	*ENG	

3510	[Pixel Adj. Sheet Counter: Display]
3310	Displays the total page counter for each adjustment mode.

001	Potential Control: BW	*ENG	
002	Potential Control: FC	*ENG	
003	Power ON: BW	*ENG	
004	Power ON: FC	*ENG	[0 to 2000 / 0 / 1 mage /sten]
005	MUSIC: BW	*ENG	[0 to 2000 / 0 / 1 page/step]
006	MUSIC: FC	*ENG	
007	Vsg Adj.	*ENG	
008	Charge AC Control	*ENG	
009	MUSIC: Power ON: BW	*ENG	
010	MUSIC: Power ON: FC	*ENG	

3511	[Execution Interval: Setting]				
3311	Adjusts the threshold for each adjustment mode.				
001	Job End: Potential Control: BW	*ENG	[0 to 2000 / 250 / 1 page/step]		
002	Job End: Potential Control: FC	*ENG	[0 to 2000 / 100 / 1 page/step]		
003	Interrupt: Potential Control: BW	*ENG	[0 to 2000 / 500 / 1 page/step]		
004	Interrupt: Potential Control: FC	*ENG	[0 to 2000 / 200 / 1 page/step]		
005	Initial: Potential Control: BW	*ENG	[0 to 2000 / 250 / 1 page/step]		
006	Initial: Potential Control: FC	*ENG	[0 to 2000 / 100 / 1 page/step]		
007	Vsg Adj. Counter	*ENG	[0.4-2000 / 0 / 1 /]		
008	Charge AC Control Counter	*ENG	[0 to 2000 / 0 / 1 page/step]		
019	Environmental Correction	*ENG	[0 or 1 / 1 / 1 /step]		
020	Gamma Correction	*ENG	0: Not Correct (OFF),		
021	Non-use Time Correction	*ENG	1: Correct (ON)		
022	Correction Coefficient 1: JE: BW	*ENG	[0 to 1 / 0.2 / 0.01 page/step]		
023	Correction Coefficient 2: JE: BW	*ENG	[0 to 1 / 1 / 0.01/step]		

024	Correction Coefficient 1: JE: FC	*ENG	[0 to 1 / 0.5 / 0.01/step]
025	Correction Coefficient 2: JE: FC	*ENG	[0 to 1 / 1 / 0.01/step]
026	Correction Coefficient 1: Interrupt: BW	*ENG	[0 to 1 / 0.1 / 0.01/step]
027	Correction Coefficient 2: Interrupt: BW	*ENG	[0 to 1 / 1 / 0.01/step]
028	Correction Coefficient 1: Interrupt: FC	*ENG	[0 to 1 / 0.25 / 0.01/step]
029	Correction Coefficient 2: Interrupt: FC	*ENG	[0 to 1 / 1 / 0.01/step]
030	Max. Number Correction Threshold	*ENG	[0 to 99 / 5 / 1/step]
031	Max. Number Correction Counter	*ENG	[0 to 255 / 0 / 1/step]

3512	[Image Quality Adj.: Interval]			
3312	Adjusts the timing for execution	secution of process control and line position adjustment.		
001	During Job	*ENG	[0 to 100 / 30 / 1 page/step]	
002	During Stand-by	*ENG	[0 to 100 / 10 / 1 minute/step]	

	[PCDU Motor Stop Time: Bk]			
Displays the last time that the PCDU motors stopped.			rs stopped.	
	These are used for process control execution timing.			
001	Year	*ENG	[0 to 99 / 0 / 1/step]	
002	Month	*ENG	[1 to 12 / 1 / 1/step]	
003	Date	*ENG	[1 to 31 / 1 / 1/step]	
004	Hour	*ENG	[0 to 23 / 0 / 1/step]	
005	Minute	*ENG	[0 to 59 / 0 / 1/step]	

	[Environmental Display: Job End]			
3514	Displays the environmental conditions for the last job. These are used for process control execution timing.			
001	Temperature	*ENG	[-1280 to 1270 / - / 0.1°C/step]	
002	Relative Humidity	*ENG	[0 to 1000 / - / 0.1%RH/step]	
003	Absolute Humidity	*ENG	[0 to 1000 / - / 0.1 g/cm ³ /step]	

	[Execution Interval: Display]				
3515	Displays the current interval for process co When the machine calculates the timing fo These are the results after considering all t	or process o	control, it uses a number of conditions.		
001	Job End: Potential Control: BW	*ENG	[0 to 2000 / 500 / 1 page/step]		
002	Job End: Potential Control: FC	*ENG	[0 to 2000 / 200 / 1 page/step]		
003	Interrupt: Potential Control: BW	*ENG	[0 to 2000 / 500 / 1 page/step]		
004	Interrupt: Potential Control: FC	*ENG	[0 to 2000 / 200 / 1 page/step]		

	[Refresh Mode] DFU				
3516	While making prints with low coverage, the developer is agitated with less toner consumptio and the toner carrier attraction tends to increase. This may cause low image density or poot transfer (white dots). To prevent this, the coagulated toner or overcharged toner has to be consumed by performing the refresh mode.				
001	Dev. Motor Rotation: Display: Bk	*ENG			
002	Dev. Motor Rotation: Display: M	*ENG	[0.1.1000 / 0./0.1/]		
003	Dev. Motor Rotation: Display: C	*ENG	[0 to 1000 / 0 / 0.1 m/step]		
004	Dev. Motor Rotation: Display: Y	*ENG			
005	Rotation Threshold	*ENG	[0 to 1000 / 1 / 1 m/step]		

006	Pixel Coverage Sum: Bk	*ENG	
007	Pixel Coverage Sum: M	*ENG	
008	Pixel Coverage Sum: C	*ENG	
009	Pixel Coverage Sum: Y	*ENG	[0. (5505 (0 (1 2 (. 1
010	Required Area: Bk	*ENG	[0 to 65535 / 0 / 1 cm ² /step]
011	Required Area: M	*ENG	
012	Required Area: C	*ENG	
013	Required Area: Y	*ENG	
014	Refresh Threshold: Bk	*ENG	
015	Refresh Threshold: M	*ENG	[0.1. 255 / 1.4 / 1 2 / / 1]
016	Refresh Threshold: C	*ENG	[0 to 255 / 14 / 1 cm ² /m/step]
017	Refresh Threshold: Y	*ENG	
018	Pattern Generation Number: Bk	*ENG	
019	Pattern Generation Number: M	*ENG	
020	Pattern Generation Number: C	*ENG	[0 to 255 / 0 / 1 time/step]
021	Pattern Generation Number: Y	*ENG	
022	Pattern Generation Number: Upper limit	*ENG	
023	Toner Consumption Pattern Area	*ENG	[10 to 2550 / 300 / 10 cm ² / step]
024	Supply Coefficient	*ENG	[0 to 2.55 / 1 / 0.01/step]
025	Job End Area Coefficient	*ENG	[0.1 to 25.5 / 1 / 0.1/step]
026	Job End Vb Coefficient	*ENG	[0 to 100 / 40 / 1%/step]
027	Job End Length	*ENG	[0 to 56 / 12 / 1 mm/step]
028	Job End Supply	*ENG	[0 to 1 / 0.45 / 0.001 mg/cm ² / step]

	[Blade damage prevention mo	de]	
3517	Adjusts the threshold temperature for preventing the cleaning blade in the transfer belt cleaning unit from being damaged. If the temperature is above this value, toner is applied to the transfer belt at set intervals during the job to prevent the blade from flipping over.		
001	Execution Temp. Threshold	*ENG	[0 to 50 / 40 / 1 °C/step]

3518	[Image Quality Adj. Execution Flag] DFU		
001	Toner End Recovery: Bk	*ENG	
002	Toner End Recovery: M	*ENG	
003	Toner End Recovery: C	*ENG	[0 or 1 / 0 / 1/step]
004	Toner End Recovery: Y	*ENG	0: OFF. 1: ON
005	Vsg Adj.	*ENG	
006	Developer Mixing	*ENG	
007	Process Control	*ENG	[0 to 2 / 0 / 1/step] 0: OFF. 1: ON (once), 2: ON (twice)
008	MUSIC	*ENG	[0 to 2 / 0 / 1/step] 0: OFF. 1: ON (once), 2: ON (twice)
009	MUSIC (Skew Correction)	*ENG	
010	Charge AC Control	*ENG	[0 or 1 / 0 / 1/step] 0: OFF, 1: ON
011	Blade Damage Prevention	*ENG	

3519	[Toner End Prohibition Setting]
3319	Enables or disables each adjustment at toner near end.

001	Process Control	*ENG	[0 or 1 / 1 / 1/step]
002	MUSIC	*ENG	0: Permit (adjustment is done even toner near end condition)
003	TC Adj.	*ENG	Torbid (adjustment is not done at toner near end condition)

2520			
3520	Specifies the number of the ITB idling	rotation fo	r each condition.
001	Temperature: H	*ENG	
002	Temperature: M	*ENG	[0 2/0/1 1 1 1 1 1 1 1 1 1
003	Temperature: L	*ENG	[0 or 3 / 0 / 1 revolution/step]
004	Temperature: L: Power ON	*ENG	

	[Temperature Threshold]				
3521	Specifies the threshold temperature for each condition. These settings affect the conditions of SP3-520.				
	t1: Threshold between L (low temp.) and M (medium temp.)				
	t2: Threshold between M (medium temp.) and H (high temps)				
001	Threshold: t2	*ENG	[20 or 30 / 25 / 1 deg/step]		
002	Threshold: †1	*ENG	[0 or 15 / 15 / 1 deg/step]		

	[Initial Process Control Setting]				
3522	Adjusts the threshold for the process control at power on. When the current condition has changed by more than the values of these SPs when compared with the conditions at the previous operation, the process control at power of executed.				
002	Non-use Time Setting	*ENG	[0 to 1440 / 360 / 1 minute/step]		
003	Temperature Range	*ENG	[0 to 99 / 10 / 1°C/step]		
004	Relative Humidity Range	*ENG	[0 to 99 / 50 / 1 %RH/step]		
005	Absolute Humidity Range	*ENG	[0 to 99 / 6 / 1 g/m ³ /step]		

	[Rapi_timer]		
100	Time Setting	*ENG	[0 to 255 / 30 / 1 sec/step]
	Adjusts the time-out time for the Rapi timer.		

	[Non-use Time Process Control Setting]				
3531	Adjusts the threshold for the process control at stand-by. When the current condition has changed by more than the values of these SPs when compared with the conditions at the previous operation, the process control at stand-by is executed.				
001	Non-use Time Setting	*ENG	[0 to 1440 / 360 / 1 minute/step]		
002	Temperature Range	*ENG	[0 to 99 / 10 / 1 °C/step]		
003	Relative Humidity Range	*ENG	[0 to 99 / 50 / 1 %RH/step]		
004	Absolute Humidity Range	*ENG	[0 to 99 / 6 / 1 g/m ³ /step]		
005	Maximum Execution Number	*ENG	Adjusts the maximum execution time for the process control at stand-by. [0 to 99 / 10 / 1 time/step]		

3611	[Development Gamma: Display/Set]		
001	Bk (Current)	*ENG	
002	M (Current)	*ENG	Displays the current development gamma for each color.
003	C (Current)	*ENG	[0 to 5 / - / 0.01 mg/cm ² /kV /step]
004	Y (Current)	*ENG	
005	Bk (Target Display)	*ENG	
006	M (Target Display)	*ENG	Displays the target development gamma for each color. [0 to 5 / 0.91 / 0.01 mg/cm ² /kV /step]
007	C (Target Display)	*ENG	
008	Y (Target Display)	*ENG	

009	Bk (Standard Target Set)	*ENG	
010	M (Standard Target Set)	*ENG	Displays the standard target development gamma for each color.
011	C (Standard Target Set)	*ENG	[0 to 5 / 0.8 / 0.01 mg/cm ² /kV /step]
012	Y (Standard Target Set)	*ENG	
013	Environmental Correction	*ENG	Turns on or off the environmental correction for target development gamma. [0 or 1 / 1 / -] 0: Not Correct, 1: Correct
014	K (Max Correction)	*ENG	
015	M (Max Correction)	*ENG	Adjusts the maximum correction value for each color. These SPs are effective only when the
016	C (Max Correction)	*ENG	setting of SP3-611-013 is set to "1".
017	Y (Max Correction)	*ENG	[0 to 5 / 0.15 / 0.01 mg/cm2/kv/step]
018	K (Max Abs Hum)	*ENG	Alt. and a second and the second as
019	M (Max Abs Hum)	*ENG	Adjusts the maximum humidity correction value for each color. These SPs are effective only when
020	C (Max Abs Hum)	*ENG	the setting of SP3-611-013 is set to "1".
021	Y (Max Abs Hum)	*ENG	[1 to 99 / 20 / 1 g/m3/step]

3612	[Vk Display]				
3012	Displays Vk for each color.				
001	Bk	*ENG			
002	М	*ENG	[200+200//14/41		
003	С	*ENG	[-300 to 300 / - / 1 V/step]		
004	Υ	*ENG			

	[Development DC Control: Display]	
3621	Plain: High speed, Thick 1: Middle speed, Thick 2 & FINE: Low speed	
0021	Displays the development DC bias adjusted with the process control for each line speed and color.	

001	Plain: Bk	*ENG	
002	Plain: M	*ENG	[0.4-700 / 550 / 1 \//stanl
003	Plain: C	*ENG	[0 to 700 / 550 / 1 -V/step]
004	Plain: Y	*ENG	
005	Thick 1: Bk	*ENG	
006	Thick 1: M	*ENG	[0 to 700 / 550 / 1 -V/step]
007	Thick 1: C	*ENG	[0 10 7 00 / 330 / 1 - v / siep]
800	Thick 1: Y	*ENG	
009	Thick 2 & FINE: Bk	*ENG	
010	Thick 2 & FINE: M	*ENG	[0 to 700 / 550 / 1 -V/step]
011	Thick 2 & FINE: C	*ENG	[0 10 / 00 / 330 / 1 - v / sieb]
012	Thick 2 & FINE: Y	*ENG	

3622	[Development DC Control] DFU				
3022	Adjusts the limit of VB.				
001	VB Limit	*ENG	[0 to 500 / 50 / 1 V/step]		

3631	[Charge DC Control: Display] Plain: High speed, Thick 1: Middle speed, Thick 2 & FINE: Low speed			
Displays the charge DC voltage adjusted with the process control for each lincolor.				
001	Plain: Bk	*ENG		
002	Plain: M	*ENG	[0.4-2000 / 400 / 1] //-t1	
003	Plain: C	*ENG	[0 to 2000 / 690 / 1 -V/step]	
004	Plain: Y	*ENG		

005	Thick 1 & FINE: Bk	*ENG	
006	Thick 1 & FINE: M	*ENG	[0.4-2000 / 400 / 1] //]
007	Thick 1 & FINE: C	*ENG	[0 to 2000 / 690 / 1 -V/step]
008	Thick 1& FINE: Y	*ENG	
009	Thick 2 & FINE: Bk	*ENG	
010	Thick 2 & FINE: M	*ENG	[0 2000 / 400 / 1] ///1
011	Thick 2 & FINE: C	*ENG	[0 to 2000 / 690 / 1 -V/step]
012	Thick 2 & FINE: Y	*ENG	

3641	[Charge AC Control: Display] Plain: High speed Displays the charge AC voltage adjusted with the process control for each color.		
001	Plain: Bk	*ENG	
002	Plain: M	*ENG	[02 /1.75 /0.01]
003	Plain: C	*ENG	[0 to 3 / 1.75 / 0.01 kV/step]
004	Plain: Y	*ENG	

3651	[LD Power Control: Display] Plain: High speed, Thick 1: Middle speed, Thick 2 & FINE: Low speed				
	Displays the LD power adjusted for each environment.				
001	Plain: Bk	*ENG			
002	Plain: M	*ENG	[0. 000 / 100 / 10/ / 1		
003	Plain: C	*ENG	[0 to 200 / 100 / 1 %/step]		
004	Plain: Y	*ENG			

005	Thick 1: Bk	*ENG	
006	Thick 1: M	*ENG	[0. 000 /100 /10//]
007	Thick 1: C	*ENG	[0 to 200 / 100 / 1 %/step]
800	Thick 1: Y	*ENG	
009	Thick 2 & FINE: Bk	*ENG	
010	Thick 2 & FINE: M	*ENG	[0 to 200 / 100 / 1 % /stan]
011	Thick 2 & FINE: C	*ENG	[0 to 200 / 100 / 1 %/step]
012	Thick 2 & FINE: Y	*ENG	

	[HST Concentration Control: Set]			
3710	TD Sensor: Toner Concentration Control Setting			
	Selects the toner concentration control method by HST memory, which is in the TD sensor.			
001	Control Method: Selection	*ENG	[0 or 1 / 1 / -] 0: Not Use, 1: Use	
001	Conifor Memod. Selection	EING	0: Not Use, 1: Use	

3711	[HST Concentration Control: Bk]			
3711	Displays the factory settings of the black PCDU.			
001	Vcnt	*ENG	[0 to 5 / 4 / 0.1 V/step]	
002	Vt	*ENG	[0 to 5 / 2.5 / 0.1 V/step]	
003	Sensitivity: HL	*ENG	[1.22 to 3.77 / 2.1 / 0.01 V/step]	
004	Sensitivity: HM	*ENG	[0 to 2.55 / 1.05 / 0.01 V/step]	
005	Sensitivity: ML	*ENG	[0 10 2.33 / 1.03 / 0.01 v/siep]	
006	Set Detection	*ENG	[0 to 5 / 1 / 0.1 V/step]	
007	Without Developer	*ENG	[0 to 5 / 1.2 / 0.1 V/step]	
008	With Developer	*ENG	[0 to 5 / 1.3 / 0.1 V/step]	
009	Serial Number 1	*ENG	[0+-255 / /1 \//+1	
010	Serial Number 2	*ENG	[0 to 255 / - / 1 V/step]	

011	Adjustment: Vt	*ENG	[0 to 5 / 3 / 0.1 V/step]
012	Adjustment: Vtref	*ENG	[0 to 5 / 3 / 0.1 V/step]
013	Adjustment: Vtcnt	*ENG	[0 to 5 / 4 / 0.01 V/step]
014	Adjustment: Gamma	*ENG	[0 to 2.55 / 0 / 0.01 mg/cm ² /kV /step]
015	Adjustment: Vcnt Result	*ENG	[0 to 9 / 9 / 1 /step]

3712	[HST Concentration Control: M]				
3/12	Displays the factory settings of the magenta PCDU.				
001	Vcnt	*ENG	[0 to 5 / 4 / 0.1 V/step]		
002	Vt	*ENG	[0 to 5 / 2.5 / 0.1 V/step]		
003	Sensitivity: HL	*ENG	[1.22 to 3.77 / 2.1 / 0.01 V/step]		
004	Sensitivity: HM	*ENG	[0+.255/105/0011//+]		
005	Sensitivity: ML	*ENG	[0 to 2.55 / 1.05 / 0.01 V/step]		
006	Set Detection	*ENG	[0 to 5 / 1 / 0.1 V/step]		
007	Without Developer	*ENG	[0 to 5 / 1.2 / 0.1 V/step]		
800	With Developer	*ENG	[0 to 5 / 1.3 / 0.1 V/step]		
009	Serial Number 1	*ENG	[0+. 255 / /1 // +1		
010	Serial Number 2	*ENG	[0 to 255 / - / 1 V/step]		
011	Adjustment: Vt	*ENG	[0 to 5 / 3 / 0.1 V/step]		
012	Adjustment: Vtref	*ENG	[0 to 5 / 3 / 0.1 V/step]		
013	Adjustment: Vtcnt	*ENG	[0 to 5 / 4 / 0.01 V/step]		
014	Adjustment: Gamma	*ENG	[0 to 2.55 / 0 / 0.01 mg/cm ² /kV /step]		
015	Adjustment: Vcnt Result	*ENG	[0 to 9 / 9 / 1 /step]		

3713	[HST Concentration Control: C]			
	Displays the factory settings of the cyan PCDU.			
001	Vcnt	*ENG	[0 to 5 / 4 / 0.1 V/step]	

002	Vt	*ENG	[0 to 5 / 2.5 / 0.1 V/step]
003	Sensitivity: HL	*ENG	[1.22 to 3.77 / 2.1 / 0.01 V/step]
004	Sensitivity: HM	*ENG	[0+0.55 /1.05 /0.01 \//+1
005	Sensitivity: ML	*ENG	[0 to 2.55 / 1.05 / 0.01 V/step]
006	Set Detection	*ENG	[0 to 5 / 1 / 0.1 V/step]
007	Without Developer	*ENG	[0 to 5 / 1.2 / 0.1 V/step]
008	With Developer	*ENG	[0 to 5 / 1.3 / 0.1 V/step]
009	Serial Number 1	*ENG	[O to 255 / / 1 V /ston]
010	Serial Number 2	*ENG	[0 to 255 / - / 1 V/step]
011	Adjustment: Vt	*ENG	[0 to 5 / 3 / 0.1 V/step]
012	Adjustment: Vtref	*ENG	[0 to 5 / 3 / 0.1 V/step]
013	Adjustment: Vtcnt	*ENG	[0 to 5 / 4 / 0.01 V/step]
014	Adjustment: Gamma	*ENG	[0 to 2.55 / 0 / 0.01 mg/cm ² /kV /step]
015	Adjustment: Vcnt Result	*ENG	[0 to 9 / 9 / 1 /step]

3714	[HST Concentration Control: Y]			
3/14	Displays the factory settings of the yellow PCDU.			
001	Vcnt	*ENG	[0 to 5 / 4 / 0.1 V/step]	
002	Vt	*ENG	[0 to 5 / 2.5 / 0.1 V/step]	
003	Sensitivity: HL	*ENG	[1.22 to 3.77 / 2.1 / 0.01 V/step]	
004	Sensitivity: HM	*ENG	[0+-255 / 105 / 0.01 \/ /++]	
005	Sensitivity: ML	*ENG	[0 to 2.55 / 1.05 / 0.01 V/step]	
006	Set Detection	*ENG	[0 to 5 / 1 / 0.1 V/step]	
007	Without Developer	*ENG	[0 to 5 / 1.2 / 0.1 V/step]	
008	With Developer	*ENG	[0 to 5 / 1.3 / 0.1 V/step]	

009	Serial Number 1	*ENG	[0 to 255 / / 1 \/ /stop]
010	Serial Number 2	*ENG	[0 to 255 / - / 1 V/step]
011	Adjustment: Vt	*ENG	[0 to 5 / 3 / 0.1 V/step]
012	Adjustment: Vtref	*ENG	[0 to 5 / 3 / 0.1 V/step]
013	Adjustment: Vtcnt	*ENG	[0 to 5 / 4 / 0.01 V/step]
014	Adjustment: Gamma	*ENG	[0 to 2.55 / 0 / 0.01 mg/cm ² /kV /step]
015	Adjustment: Vcnt Result	*ENG	[0 to 9 / 9 / 1 /step]

0000	[Toner Collection Bottle Full Detection]				
3800	Displays/ adjusts the toner collection bottle detection settings. These SPs are used for NRS.				
001	Condition	*CTL	[0 to 4 / 0 / 1 /step]		
002	Detection Times	*CTL	[0 to 50 / - / 1 /step]		
003	Print Page After Near Full	*CTL	[0 to 1000 / 0 / 1 sheet/step]		
004	Pixel Count After Near Full	*CTL	[0 to 200000 / - / 1 cm ² /step]		
005	Pixel Count After Replacement	*CTL	Displays the pixel counter after replacement of toner collection bottle. [0 to 200000 / - / 1 cm ² /step]		
008	Coefficient	*ENG	[0.5 to 1.5 / 1 / 0.1 /step]		
011	Notice Setting	*ENG	Enables or disables the calling for @Remote. [O or 1 / 1 / -] O: Enable @Remote calling 1: Disable @Remote calling		
	NOTE:				
	If the toner collection bottle has been replaced before the machine detects used toner near full when this setting is set to "0", the machine cannot detect toner collection bottle near full. In that case, set SP3-902-017 to "1".				

	Day Threshold: Toner Collection bottle:NF	*ENG	[1 to 30 / 5 / 1 day/step]		
012	Sets the threshold days for the near-full display. The near-full of the toner collection bottle is displayed after the toner collection full sensor has detected the actuator in the toner collection bottle.				
013	Total:Toner Collection Bottle	*ENG	Displays the total amount of the used toner. [0 to 999999999 / 1 / 1]		
014	Mechanism Full Detection Date	*ENG	Displays the date of the full detection fot the toner collection bottle.		

3900	[Waste Toner Full Detection]			
3900	on or off.			
001	ON/OFF Setting	*ENG	[0 or 1 / 1 / -] 0: OFF, 1: ON	

3901	[New PCDU Detection]			
3901	Turns new PCDU detection on or off.			
001	ON/OFF Setting	*ENG	[0 or 1 / 1 / -] 0: OFF, 1: ON	

		[Manual New Unit Set]				
Turns the new unit detection flag for each PM unit on or off. The use of these counters is explained in the PM section and 3 (Replacement and Adjustment).						
	001	Development Unit: Bk	*ENG			
	002	Development Unit: Y	ent Unit: Y *ENG [0 or 1 / 0 / -]			
	003	Development Unit: C	*ENG 0: OFF, 1: ON			
	004	Development Unit: M	*ENG			

005	Developer: Bk	*ENG	
006	Developer: Y	*ENG	[0 or 1 / 0 / -]
007	Developer: C	*ENG	0: OFF, 1: ON
800	Developer: M	*ENG	
009	PCDU: Bk	*ENG	
010	PCDU: Y	*ENG	[0 or 1 / 0 / -]
011	PCDU: M	*ENG	0: OFF, 1: ON
012	PCDU: C	*ENG	
013	Image Transfer Unit	*ENG	[0 or 1 / 0 / -]
014	Fusing Unit	*ENG	0: OFF, 1: ON
015	Cleaning Unit	*ENG	Do not use 3902-013 if you only change the cleaning unit.
016	Paper Transfer Unit	*ENG	3902-015: This is for the image transfer belt
017	Toner Collection Bottle	*ENG	cleaning unit.
018	Fusing Roller (Heating Roller)	*ENG	[0 or 1 / 0 / -]
019	Pressure Roller	*ENG	0: OFF, 1: ON "Fusing Roller" is designated as "Heating Roller" in this manual.

2002	Last Print Counter	
3903	Displays the rotation counter of the black development unit at five minutes interval.	

001	Counter 1	*ENG	
002	Counter 2	*ENG	
003	Counter 3	*ENG	
004	Counter 4	*ENG	
005	Counter 5	*ENG	
006	Counter 6	*ENG	[0 to 999999999 / - / 1 mm/step]
007	Counter 7	*ENG	[[0.10 /////// / / I IIIII/ 310P]
008	Counter 8	*ENG	
009	Counter 9	*ENG	
010	Counter 10	*ENG	
011-	C . 11. 40	*5.10	
040	Counter 11 to 40	*ENG	
101	Last Fixed Date	*ENG	Displays the time of the latest stored counter.
102	Last PM Counter Save Destination	*ENG	Displays the counter number of the latest stored counter.

System SP4-xxx

SP4-XXX (Scanner)

4008	[Sub Scan Magnification Adjustment]			
4000	Adjusts the sub-scan magnification by changing the scanner motor speed.			
001	Sub Scan Magnification Adjustment	*ENG	[-1.0 to 1.0 / 0 / 0.1%/step] FA	

	[Leading Edge Registration Adjustment]			
4010	Adjusts the leading edge registration by changing the scanning start timing in the sub-scar direction.			
001		*ENG	[-2.0 to 2.0 / 0 / 0.1 mm/step] FA	

	[Side-to-Side registration Adjustment]			
4011	Adjusts the side-to-side registration by changing the scanning start timing in the main scalar direction.			
001	-	*ENG	[-2.5 to 2.5 / 0 / 0.1 mm/step] FA	

	[Scanner Erase Margin: Scale] Scanner: Erase Margin: Scale				
4012	sets the blank margin at each side for erasing the original shadow caused by the gap between the original and the scale.				
001	Book: Leading Edge	*ENG			
002	Book: Trailing Edge		[0 to 3.0 / 0 / 0.1 mm/step] FA		
003	Book: Left				
004	Book: Right				
005	ADF: Leading Edge				
007	ADF: Right	*ENG	[0 to 3.0 / 0 / 0.1 mm/step] FA		
008	ADF: Left				

	[Scanner Free Run]			
4013	Performs the scanner free run with the exposure lamp on or off in the following mode. Full color mode / Full Size / A3 or DLT			
001	Lamp: ON	- *ENG	[0 or 1 / 0 / -]	
002	Lamp: OFF		0: OFF, 1: ON	

4014	[Scan]			
4014	Execute the scanner free fun with each mode.			
001	HP Detection Enable	-	Scanner free run with HP sensor check.	
002	HP Detection Disable	-	Scanner free run without HP sensor check.	

4020	[Dust Check]		
001	Detection: ON/OFF	*ENG	Turns the ADF scan glass dust check on/ off. [0 or 1 / 0 / 1 /step] 0: OFF, 1: ON
002	Dust Detect: Level	*ENG	Selects the detect level. [0 to 8 / 4 / 1 / step] 0: lowest detection level 8: highest detection level
003	Correction Level	*ENG	Selects the level of the sub scan line correction when using the ARDF. [0 to 4 / 0 / 1 /step] 0: Off 1: Weakest 2: Weak 3: Strong 4: Strongest
011	Dust Detect:On/Off:Rear	*ENG	Not used
012	Dust Detect:Lvl:Rear	*ENG	Not used

	[APS Operation Check]			
4301	Displays a code that represents the original size detected by the original sensors. (See "Input Check Table".)			
001	APS Operation Check	-	-	

4303	[APS Min Size (A5/HLT/16K)]			
4303	Specifies the result of the detection when the outputs from the original sensors are all OFF			
001	APS Min. Size (A5/HLT/ 16K)	*ENG	[0 to 2 / 0 / 1 /step] 0: No Original 1: A5-Lengthwise (16K SEF if 4305 is set to 3) 2: A5-Sideways (16K LEF if 4305 is set to 3)	

4305	[8K/16K Detection]	*ENG	[0 to 3 / 0 / 1 /step] 0: Normal Detection (the machine detects A4/LT size as A4 or LT, depending on the paper size setting) 1: A4-Sideways LT-Lengthwise 2: LT-Sideways A4-Lengthwise 3: 8K 16K
001	This program enables the machine to automatically recognize the 8K/16K size.		

4308	[Scan Size Detection]		
001	Detection ON/OFF	*ENG	[0 or 1 / 1 / -] 0: OFF 1: ON
Turns on or off the CCD original size detection. This detection is used only when a is scanned in book scanning mode.		stection. This detection is used only when an original	

4309	[Scan Size Detect:Setting]		
	Original Density Thresh	*ENG	[0 to 255 / 32 / 1 digit/step]
001	Specifies the threshold betwe size detection in book scanni		inal area and non-original area for the scan original

002	Detection Time	*ENG	[20 to 100 / 60 / 20 msec/step]	
	Specifies the detection time for the scan original size detection in book scanning mode.			
002	Lamp ON:Delay Time	*ENG	[0 to 200 / 40 / 20 msec/step]	
003	Specifies the lamp on timing for the scan original size detection in book scanning mode.			

	[Scan Size Detect Value]				
4310	Displays the detected value by CCD. Each detection point for paper size and color is displayed on the LCD.				
001	S1:R	*ENG			
002	\$1:G	*ENG			
003	S1:B	*ENG			
004	S2:R	*ENG			
005	\$2:G	*ENG	[0 to 255 / - / 1 digit/step]		
006	S2:B	*ENG			
007	S3:R	*ENG			
008	\$3:G	*ENG			
009	S3:B	*ENG			

	[Scanner Erase Margin]	*ENG		
4400	Set the Mask for Original.			
	These SPs set the area to be masked during platen (book) mode scanning.			

001	Book: Leading Edge	
002	Book: Trailing Edge	
003	Book: Left	
004	Book: Right	[0 to 3.0 / 0 / 0.1 mm/step]
005	ADF: Leading Edge	
007	ADF: Right	
008	ADF: Left	

4417	[IPU Test Pattern]					
	Selects the IPU test pattern.					
		[0 to 24 / 0 / 1/step]				
		0: Scanned image	13: Grid pattern CMYK			
		1: Gradation main scan A	14: Color patch CMYK			
		2: Gradation main scan B	15: Gray pattern (1)			
	Test Pattern Selection	3: Gradation main scan C	16: Gray pattern (2)			
		4: Gradation main scan D	17: Gray Pattern (3)			
001		5: Gradation sub scan (1)	18: Shading pattern			
001		6: Grid pattern	19: Thin line pattern			
		7: Slant grid pattern	20: Scanned + Grid pattern			
		8: Gradation RGBCMYK	21: Scanned + Gray scale			
		9: UCR pattern	22: Scanned + Color patch			
		10: Color patch 16 (1)	23: Scanned + Slant Grid C			
		11: Color patch 16 (2)	24: Scanned + Slant Grid D			
		12: Color patch 64				

4429	[Illegal Copy Output]		
001	Сору		
002	Scanner	*ENG	[0 to 3 / 3 / 1 /step]
003	Fax		

4450	[Scan Image Path Selection]		
001	Black Subtraction ON/OFF [0 or 1 / 1 / -] 0: OFF, 1: ON		
001	Uses or does not use the black reduction image path.		
002	SH ON/OFF [0 or 1 / 0 / 1 /step] 0: ON, 1: OFF		
	Uses or does not use the shading image path.		

	[Digital AE Set] DFU		
Specifies the level of deleting the background in the ADS mode. You can adjust it each scanning method (platen, ADF).		ground in the ADS mode. You can adjust its level for	
001 Lower Limit *ENG [0 to 1023 / 364 / 4 digit/step]		[0 to 1023 / 364 / 4 digit/step]	
002	Background Level	*ENG	[512 to 1532 / 932 / 1 digit/step]

4501	[ACC Target Density]				
4501	Selects the ACC result.				
001	Copy: K: Text	*ENG			
002	Copy: C: Text	*ENG			
003	Copy: M: Text	*ENG			
004	Copy: Y: Text	*ENG	[0 to 10 / 5 / 1 /step]		
005	Copy: K: Photo	*ENG	10: Darkest density		
006	Copy: C: Photo	*ENG			
007	Copy: M: Photo	*ENG			
008	Copy: Y: Photo	*ENG			

4505	[ACC Cor:Bright]
4303	Adjusts the offset correction for light areas of the ACC pattern.

001	Text:K	*ENG	
002	Text:C	*ENG	[120 + 127 / 0 / 1 /]
003	Text:M	*ENG	[-128 to 127 / 0 / 1 /step]
004	Text:Y	*ENG	
005	Photo:K	*ENG	
006	Photo:C	*ENG	[120 + 127 / 0 / 1 /]
007	Photo:M	*ENG	[-128 to 127 / 0 / 1 /step]
008	Photo:Y	*ENG	

4506	[ACC Cor:Dark]						
4500	Adjusts the offset correction for	offset correction for dark areas of the ACC pattern.					
001	Text:K	*ENG					
002	Text:C	*ENG	[-128 to 127 / 0 / 1 /step]				
003	Text:M	*ENG	[-12010127 / 0 / 1 / siep]				
004	Text:Y	*ENG					
005	Photo:K	*ENG					
006	Photo:C	*ENG	[-128 to 127 / 0 / 1 /step]				
007	Photo:M	*ENG	[-12010127 / 0 / 1 / siep]				
008	Photo:Y	*ENG					

	[Printer Vector Correction]
4540	This SP corrects the printer coverage of 12 hues (RY, YR, YG, etc. x 4 Colors [R, G, B, Option]) for a total of 48 parameters.

001-004	RY Phase: Option/R/G/B		
005-008	YR Phase: Option/R/G/B		
009-012	YG Phase: Option/R/G/B		
013-016	GY Phase: Option/R/G/B		
017-020	GC Phase: Option/R/G/B		
021-024	CG Phase: Option/R/G/B	*ENG	Specifies the printer vector correction value. [0 to 255 / 0 / 1 /step]
025-028	CB Phase: Option/R/G/B		
029-032	BC Phase: Option/R/G/B		
033-036	BM Phase: Option/R/G/B		
037-040	MB Phase: Option/R/G/B		
041-044	MR Phase: Option/R/G/B		
045-048	RM Phase: Option/R/G/B		

4550	[Scanner Application: text/Printing]				
4551	[Scanner Application: text]				
4552	[Scanner Application: text (Drop Out Co	or)]			
4553	[Scanner Application: text-Photo]				
4554	[Scanner Application: Photo]				
4565	[Scanner Application: GrayScale]				
4570	[Scanner Application: Color: Text/Photo]				
4571	[Scanner Application: Color: Glossy Photo]				
4572	[Scanner Application: AutoColor]				
-005	MTF: 0 (Off), 1-15 (Strong) *ENG [0 to 15 / 8 / 1 /step] 0: MTF Off				
	Sets the MTF level (Modulation Transfer Function) designed to improve image contrast. Set higher for stronger effect, lower for weaker effect.				

	Smoothing: 0 (x1), 1-7 (Strong)	*ENG	[0 to 7 /	4 / 1 /step]			
-006	Use to remove "jaggies" if they appear. Set higher for smoother images.						
007	Brightness: 1–255	*ENG	[1 to 255 / 128 / 1 /step]				
Set higher for darker, set lower for lighter.							
000	Contrast: 1–255	*ENG	[1 to 255 / 128 / 1 /step]				
Set higher for more contrast, set lower for less contrast.							
Independent Dot Erase (0), 1-7 (Strong) *ENG [0 to 7 / 0 / 1				[0 to 7 / 0 / 1 /step]			
-009 Sets the erasure level of Irregular Dots. Set higher for stronger effect, lower for weake				t, lower for weaker effect.			
	0: Not activated						

4580	[FAX Application: Text/Chart]					
4582	[FAX Application: Text/Photo]					
4583	[FAX Application: Photo]					
-005	MTF: 0 (Off), 1-15 (Strong)		*ENG	[0 to 15 ,	/ 8 / 1 /step]	
Sets the MTF level (Modulation Transfer Function higher for stronger effect, lower for weaker effect)				gned to im	prove image contrast. Set	
			*ENG	ENG [0 to 7 / 4 / 1 /step]		
-006	Use to remove "jaggies" if they	appear. S	et higher for	smoother ir	mages.	
0.07	Brightness: 1–255	*ENG	[1 to 255	5 / 128 / 1 /step]		
-007	Set higher for darker, set lower for lighter.					
000	Contrast: 1–255	*ENG	[1 to 255	/ 128 /	l /step]	
-008	Set higher for more contrast, set lower for less contrast.					
Independent Dot Erase (0), 1-7 (Strong) *ENG				[0 to 7 / 0 / 1 /step]		
Selects the contrast level for B/W the Text mode. Sets the erasure level of Irregular higher for stronger effect, lower for weaker effect.				level of Irregular Dots. Set		
	0: Not activated					

	Texture Erase: 0	*ENG	[0 to 2 / 0 / 1 /step]		
-010	Sets the erasure level of textures. Set higher for stronger effect, lower for weaker effe SP (suffix "-010") only exists in SP4580, 4582 and 4583.				
0: Not activated					

4581	[FAX Application: Text] DFU								
4584	[FAX Application: Original 1] DFU								
4585	[FAX Application: Original 2] [FU							
-005	MTF: 0 (Off), 1-15 (Strong) *ENG [0 to 15 / 8 / 1 /step] 0: MTF Off				1 /step]				
	Sets the MTF level (Modulation Transfer Function) designed to improve image contra higher for stronger effect, lower for weaker effect.					ıst. Set			
-006	Smoothing: 0 (x1), 1-7 (Strong) *ENG [0 to 7 / 4 / 1 / step]				/step]				
-000	Use to remove "jaggies" if they	appear. Se	t high	er for s	moot	her ir	nages.		
007	Brightness: 1–255	*ENG	[1 to 255 / 128 / 1 /step]						
-007	Set higher for darker, set lower	for lighter.							
000	Contrast: 1–255	*ENG	[1 t	o 255	/ 12	8 / 1	/step]		
-008	Set higher for more contrast, set lower for less contrast.								
	Independent Dot Erase (0), 1-7 (Strong) *ENG [0 to 7 / 0 / 1 /st				step]				
-009	Selects the contrast level for B/W the Text mode. Sets the erasure level of Irregular Dots. Shigher for stronger effect, lower for weaker effect. O: Not activated				ots. Set				

4600	[SBU Version Display]					
001	SBU_ID	-	[O to OxFF / - / 1 /step] Displays the ID of the SBU.			
002	GASBU-N_ID	-	[0 to 0xFF / - / 1 /step]			
003	VSP5100_ID	-	[0 to 0xFF / - / 1 /step]			

4602	[Scanner Memory Access]		
001	Scanner Memory Access	-	Enables the read and write check for the SBU registers.
002	Address Set	-	Not used
003	Data Set	-	Not used

4603	[AGC Execution]		
001	HP Detection Enable	-	Executes the AGC.
002	HP Detection Disable	-	DFU

4604	[FGATE Open/Close] DFU		
001	-	-	Opens or closes the FGATE signal. This SP automatically returns to the default status (close) after exiting this SP. [0 or 1 / 0 / 1/step] 0: OFF, 1: ON

4609	[Gray Balance Set: R]		
001	Book Read - [-512 to 511 / -46 / 1 digit/step]		[-512 to 511 / -46 / 1 digit/step]
002	DF Read	-	[-512 to 511 / -46 / 1 digit/step]

4610	[Gray Balance Set: G]		
001	Book Read	-	[-512 to 511 / -20 / 1 digit/step]
002	DF Read	-	[-512 to 511 / -20 / 1 digit/step]

4611	[Gray Balance Set: B]		
001	1 Book Read - [-512 to 511 / -28 / 1 digit		[-512 to 511 / -28 / 1 digit/step]
002	DF Read	-	[-512 to 511 / -28 / 1 digit/step]

4623	[Black Level Fine Adj. Display] RE: Red Even signal, RO: Red Odd signal		
001	Latest: RE Color	-	Displays the black offset value (rough adjustment) for the even red signal in the CCD circuit board (color printing speed). [0 to 16383 / 0 / 1 digit/step]
002	Latest: RO Color	-	Displays the black offset value (rough adjustment) for the odd red signal in the CCD circuit board (color printing speed). [0 to 16383 / 0 / 1 digit/step]

4624	[Black Level Fine Adj. Display] GE: Green Even signal, GO: Green Odd signal	
001	Latest: GE Color	Displays the black offset value (rough adjustment) for the even green signal in the CCD circuit board (color printing speed). [0 to 16383 / 0 / 1 digit/step]
002	Latest: GO Color	Displays the black offset value (rough adjustment) for the odd green signal in the CCD circuit board (color printing speed). [0 to 16383 / 0 / 1 digit/step]

4625	[Black Level Fine Adj. Display] BE: Blue Even signal, BO: Blue Odd signal	
001	Latest: BE Color	Displays the black offset value (rough adjustment) for the even blue signal in the CCD circuit board (color printing speed). [0 to 16383 / 0 / 1 digit/step]
002	Latest: BO Color	Displays the black offset value (rough adjustment) for the odd blue signal in the CCD circuit board (color printing speed). [0 to 16383 / 0 / 1 digit/step]

[Analog Gain Adjustment] Gain Adjustment: Analog		ment: Analog		
4020	Displays the gain value of the o	ain value of the amplifiers on the controller for Red.		
001	Latest: R Color	-	[0 to 7 / 0 / 1 digit/step]	
4629	[Analog Gain Adjustment] Gai	n Adjust	ment: Analog	
4029	Displays the gain value of the o	amplifier	s on the controller for Green.	
001	Latest: G Color	-	[0 to 7 / 0 / 1 digit/step]	
4630	[Analog Gain Adjustment] Gai	n Adjust	ment: Analog	
4030	Displays the gain value of the o	amplifier	s on the controller for Blue.	
001	Latest: B Color	-	[0 to 7 / 0 / 1 digit/step]	
4631	[Digital Gain Adjustment] Gain Adjustment: Digital			
4031	Displays the gain value of the o	amplifier	s on the controller for RE or RO.	
001	Latest: RE Color	-	[0.1002/0/1/http://www.l	
002	Latest: RO Color	-	[0 to 1023 / 0 / 1 digit/step]	
4632	[Digital Gain Adjustment] Gair	n Adjustn	nent: Digital	
4032	Displays the gain value of the o	amplifier	s on the controller for GE or GO.	
001	Latest: GE Color	-	[0.4-1002 / 0 / 1 distrib/show]	
002	Latest: GO Color	-	[0 to 1023 / 0 / 1 digit/step]	

4633	[Digital Gain Adjustment] Gain Adjustment: Digital		
4033	Displays the gain value of the amplifiers on the controller for BE or BO.		s on the controller for BE or BO.
001	Latest: BE Color	-	[01002 / 0. / 1.
002	Latest: BO Color	-	[0 to 1023 / 0 / 1 digit/step]

4635	[SSCG Correction Set] DFU
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	Switches SSCG noise cancellation on/off. 0: Off, 1: On	
001	Correction ON/OFF	[0 or 1 / 1 / -]
002	Adj ON/OFF	[0 or 1 / 1 / -]

4636	[SSCG Correction] DFU	
001	Execution	Executes the SSCG correction.
		[0 to 2 / 0 / 1]
000	Error Flag	0: Normal end
002		1: End during update
		2: Do not apply correction
003	Apply 80H	Executes the 80H setting copy.
004	Apply Correction Value	Not used

4637	[SSCG Correction Value] DFU		
001	Latest Setting:RE	-	
002	Latest Setting:RO	-	
003	Latest Setting:GE	-	[0.4- 0.55 / 100 / 1 dinit/]
004	Latest Setting:GO	-	[0 to 255 / 128 / 1 digit/step]
005	Latest Setting:BE	-	
006	Latest Setting:BO	-	

4638	[SSCG Correction Value] DFU
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001	Last Setting:RE	*ENG	
002	Last Setting:RO	*ENG	
003	Last Setting:GE	*ENG	[0.4- 0.55 / 100 / 1 dinit/]
004	Last Setting:GO	*ENG	[0 to 255 / 128 / 1 digit/step]
005	Last Setting:BE	*ENG	
006	Last Setting:BO	*ENG	

4639	[SSCG Correction Value] DFU		
001	Factory Setting:RE	*ENG	
002	Factory Setting:RO	*ENG	
003	Factory Setting:GE	*ENG	[O. O. O. E. C. / 100 / 1 divis/.s.m.]
004	Factory Setting:GO	*ENG	[0 to 255 / 128 / 1 digit/step]
005	Factory Setting:BE	*ENG	
006	Factory Setting:BO	*ENG	

4640	[SSCG Noise Amplitude] DFU	
001	Before Adj: RE	
002	Before Adj: RO	
003	Before Adj: GE	[0 to 1022 / 0 / 1 divit/ston]
004	Before Adj: GO	[0 to 1023 / 0 / 1 digit/step]
005	Before Adj: BE	
006	Before Adj: BO	

007	After Adj: RE	
800	After Adj: RO	
009	After Adj: GE	[0 to 1023 / 0 / 1 digit/step]
010	After Adj: GO	
011	After Adj: BE	
012	After Adj: BO	

4645	[Scan Adjust Error]		
001	White level	-	[0.4-45525 / 0 / 1 digit/stan]
002	Black level	-	[0 to 65535 / 0 / 1 digit/step]

1617	[Read Hard Error]		
Displays the result of the SBU connection check.		on check.	
001	Power-ON	-	[0 to 35535 / 0 / 1 digit /step] 0: OK, Other: SBU connection check failure If the SBU connection check fails, SC144 occurs.

4654	[Black Level Fine Adj. Display] RE: Red Even signal, RO: Red Odd signal		
001	Last Correct Value: RE Color	*ENG	Displays the black offset value (rough adjustment) for the even red signal in the CCD circuit board (color printing speed). [0 to 16383 / 0 / 1 digit/step]
002	Last Correct Value: RO Color	*ENG	Displays the black offset value (rough adjustment) for the odd red signal in the CCD circuit board (color printing speed). [0 to 16383 / 0 / 1 digit/step]

4655	[Black Level Fine Adj. Display]
4033	GE: Green Even signal, GO: Green Odd signal

00	Last Correct Value: GE Color	*ENG	Displays the black offset value (rough adjustment) for the even green signal in the CCD circuit board (color printing speed). [0 to 16383 / 0 / 1 digit/step]
00	Last Correct Value: GO Color	*ENG	Displays the black offset value (rough adjustment) for the odd green signal in the CCD circuit board (color printing speed). [0 to 16383 / 0 / 1 digit/step]

4656	[Black Level Fine Adj. Display] BE: Blue Even signal, BO: Blue Odd signal		
001	Last Correct Value: BE Color	*ENG	Displays the black offset value (rough adjustment) for the even blue signal in the CCD circuit board (color printing speed). [0 to 16383 / 0 / 1 digit/step]
002	Last Correct Value: BO Color	*ENG	Displays the black offset value (rough adjustment) for the odd blue signal in the CCD circuit board (color printing speed). [0 to 16383 / 0 / 1 digit/step]

4658	[Analog Gain Adjustment]			
4036	Displays the previous gain value of the amplifiers on the controller for Red.			
001	Last Correct Value: R Color	*ENG	[0 to 7 / 0 / 1 digit/step]	

4659	[Analog Gain Adjustment]			
4039	Displays the previous gain value of the	amplifiers c	on the controller for Green.	
001 Last Correct Value: G Color *ENG [0 to 7 / 0 / 1 dig		[0 to 7 / 0 / 1 digit/step]		

4660	[Analog Gain Adjustment]				
4000	Displays the previous gain value of the amplifiers on the controller for Blue.				
001	Last Correct Value: B Color	*ENG	[0 to 7 / 0 / 1 digit/step]		

460	61	[Digital Gain Adjustment] RE: Red Even signal, RO: Red Odd signal		
	001	Last Correct Value: RE Color	*ENG	[0 to 1023 / 0 / 1 digit/step]
	002	Last Correct Value: RO Color	*ENG	[0 to 1023 / 0 / 1 digit/ step]

4662	[Digital Gain Adjustment] GE: Green Even signal, GO: Green Odd signal		
001	Last Correct Value: GE Color	*ENG	[0.1-1022 / 0 / 1 dinit/stan]
002	Last Correct Value: GO Color	*ENG	[0 to 1023 / 0 / 1 digit/step]

4663	[Digital Gain Adjustment] BE: Blue Even signal, BO: Blue Odd signal		
001	Last Correct Value: BE Color	*ENG	[0 to 1023 / 0 / 1 digit/step]
002	Last Correct Value: BO Color	*ENG	

4673	[Black Level Fine Adj. Display] RE: Red Even signal, RO: Red Odd signal			
001	Factory Setting: RE Color	*ENG	Displays the factory setting values of the black level adjustment for the even red signal in the CCD circuit board (color printing speed) [0 to 16383 / 0 / 1 digit/step]	
002	Factory Setting: RO Color	*ENG	Displays the factory setting values of the black level adjustment (rough adjustment) for the odd red signal in the CCD circuit board (color printing speed). [0 to 16383 / 0 / 1 digit/step]	

4674	[Black Level Fine Adj. Display]
4074	GE: Green Even signal, GO: Green Odd signal

001	Factory Setting: GE Color	*ENG	Displays the factory setting values of the black level adjustment (rough adjustment) for the even green signal in the CCD circuit board (color printing speed). [0 to 16383 / 0 / 1 digit/step]
002	Factory Setting: GO Color	*ENG	Displays the factory setting values of the black level adjustment (rough adjustment) for the odd green signal in the CCD circuit board (color printing speed). [0 to 16383 / 0 / 1 digit/step]

[Black Level Fine Adj. Display] BE: Blue Even signal, BO: Blue Odd signal			
001	Factory Setting: BE Color	*ENG	Displays the factory setting values of the black level adjustment (rough adjustment) for the even blue signal in the CCD circuit board (color printing speed). [0 to 16383 / 0 / 1 digit/step]
002	Factory Setting: BO Color	*ENG	Displays the factory setting values of the black level adjustment (rough adjustment) for the odd blue signal in the CCD circuit board (color printing speed). [0 to 16383 / 0 / 1 digit/step]

4677	[Analog Gain Adjustment]			
40//	Displays the factory setting values of the gain adjustment for Red.			
001	Factory Setting: R Color *ENG [0 to 7 / 0 / 1 digit/step]			

4678	[Analog Gain Adjustment]			
40/ 6	Displays the factory setting values of the gain adjustment for Green.			
001	Factory Setting: G Color	*ENG	[0 to 7 / 0 / 1 digit/step]	

4679	[Analog Gain Adjustment]				
40/9	Displays the factory setting values of the gain adjustment for Blue.				
001	Factory Setting: BE Color	*ENG	[0 to 7 / 0 / 1 digit/step]		

4680	[Digital Gain Adjustment]					
4080	Displays the gain value of the amplifiers on the controller for Red.					
001	Factory Setting: RE Color	*ENG	[0 to 1023 / 0 / 1 digit/step]			
002	Factory Setting: RO Color	*ENG	[0 to 1023 / 0 / 1 digit/step]			

4681	[Digital Gain Adjustment]					
4001	Displays the gain value of the amplifiers on the controller for Green.					
001	Factory Setting: GE Color	*ENG	[0 1002 / 0 / 1 dimit/]			
002	Factory Setting: GO Color	*ENG	[0 to 1023 / 0 / 1 digit/step]			

4682	[Digital Gain Adjustment]				
4002	Displays the gain value of the amplifiers on the controller for Blue.				
001	Factory Setting: BE Color	*ENG	[0 1002 / 0 / 1 disit/s]		
002	Factory Setting: BO Color	*ENG	[0 to 1023 / 0 / 1 digit/step]		

	[Scan Image Density Adjustment]			
Adjusts the white shading parameter when scanning an image with the Adjusts the density level if the ID of outputs made in the DF and Platen m				
001	*ENG [50 to 150 / 98 / 1%/ step]			
002	002 1-pass DF *ENG [50 to 150 / 98 / 1% / step]			

4400	[White Level Peak Read]
4690	Displays the peak level of the white level scanning.

001	RE	-	[0 to 1023 / 0 / 1 digit/step]
002	RO	-	[0 10 1023 / 0 / 1 digit/ siep]

	4691	[White Level Peak Read]			
		Displays the peak level of the white level scanning.			
	001	GE	-	[0 to 1000 / 0 / 1 digit/storn]	
	002	GO	-	[0 to 1023 / 0 / 1 digit/step]	

4692	[White Level Peak Read]				
4072	Displays the peak level of the white level scanning.				
001	BE	-	[0 to 1000 / 0 / 1 digit/storn]		
002	ВО	-	[0 to 1023 / 0 / 1 digit/step]		

4693	[Black Level Peak Read]			
4093	Displays the peak level of the black level scanning.			
001	RE	-	[0.4-1022 / 0 / 1 distal/stand	
002	RO	-	[0 to 1023 / 0 / 1 digit/step]	

4694	[Black Level Peak Read]				
4094	Displays the peak level of the black level scanning.				
001	GE	-	[0 to 1023 / 0 / 1 digit/step]		
002	GO	-			

	4695	[Black Level Peak Read]				
		Displays the peak level of the black level scanning.				
	001	BE	-	[0 to 1000 / 0 / 1 divite/stand		
	002	ВО	-	[0 to 1023 / 0 / 1 digit/step]		

4700	[CIS ID Display] Not used
4709	[CIS GB Chart Level: R] Not used
4710	[CIS GB Chart Level: G] Not used
4711	[CIS GB Chart Level: B] Not used
4712	[CIS GB Adj Value: R] Not used
4713	[CIS GB Adj Value: G] Not used
4714	[CIS GB Adj Value: G] Not used
4745	[CIS Image Level Error Flag] Not used
4746	[CIS GB Adj Error Flag] Not used
4747	[CIS GB Adj Error Flag] Not used
4748	[CIS M-Scan White Level: Avg. R] Not used
4749	[CIS M-Scan White Level: Avg. G] Not used
4750	[CIS M-Scan White Level: Avg. B] Not used
4784	[CIS White Level Peak Range: R] Not used
4785	[CIS White Level Peak Range: G] Not used
4786	[CIS White Level Peak Range: B] Not used
4787	[CIS White Level Peak Data: R] Not used
4788	[CIS White Level Peak Data: G] Not used
4789	[CIS White Level Peak Data: B] Not used
4790	[CIS White Level Peak Data: R] Not used
4791	[CIS White Level Peak Data: G] Not used
4792	[CIS White Level Peak Data: B] Not used
4793	[CIS Black Level Data: R] Not used
4794	[CIS Black Level Data: G] Not used
4795	[CIS Black Level Data: B] Not used
4796	[Low Density Color Correction] Not used

4797	[Digital AE: Rear Side] Not used
4798	[CIS LED Duty] Not used
4799	[CIS TEST Pattern] Not used

4802	[DF Shading FreeRun]		
001	Lamp ON		Executes the scanner free run of shading movement
002	Lamp OFF	-	with exposure lamp on or off. Press "OFF" to stop this free run. Otherwise, the free run lasts.

4803	[Home Position Adjustment]		
001	-	-	[-1 to 1 / 0 / 0.1 mm/step]

4804	[Home Position]		
001	-	-	Executes the scanner HP detection.

4806	[Carriage Save]		
001	-	-	Moves the carriage from the scanner home position. Dust may fall through the DF exposure glass. Therefore, do this SP when you transport the machine a long distance.

4807	[SBU Test Pattern Change]		
			[0 to 255 / 0 / 1 /step]
			1: Grid pattern
001	-	-	2: Gradation main scan
			3: Gradation sub scan
			4 to 250: Default (Scanning Image)

4808	[Factory Setting Input]		
002	Execution Flag	-	[0 to 255 / 0 / 1 /step]

4810	[Lamp Clock Selection] DFU	
001	-	[0 or 1 / 1 / 1 / step] 0: Brand T, 1: Brand U
	Selects the scanner lamp brand.	

	[ACC Data Display]				
4902	This SP outputs the final data read at the end of ACC execution.				
	A zero is returned if there wa	A zero is returned if there was an error reading the data.			
	[0 to 255 / 0 / 1 /step]				
001	R DATA1	*ENG	Photo C Patch Level 1 (8-bit)		
002	G DATA1	*ENG	Photo M Patch Level 1 (8-bit)		
003	B DATA1	*ENG	Photo Y Patch Level 1 (8-bit)		
004	R DATA2	*ENG	Photo C Patch Level 17 (8-bit)		
005	G DATA2	*ENG	Photo M Patch Level 17(8-bit)		
006	B DATA2	*ENG	Photo Y Patch Level 17 (8-bit)		

4905	[Dither Selection] DFU		
4903	Changes the parameters for error diffusion.		ion.
001	Dither Selection	*ENG	[0 to 255 / 0 / 1 /step]

	[Manual Gamma Adj]		
4918	Adjusts the offset data of the printer gamma for yellow in Photo mode. See "Printer Gamma Correction" in the Replacement and Adjustment for how to use		,
009	-	-	Enter the manual gamma adjustment screen (-001 to 008). For details, see the "Printer Gamma Correction" in the section "Replace and Adjustment".

4954	[Read/Restore Std]		
001	Read New Chart	-	Execute the scanning of the A4 chart.

002	Recall Prev Chart	-	Clear the data of the scanned A4 chart.
003	Read Std Chart	-	Execute the scanning of the A4 standard chart.
004	Set Std Chart	-	Overwrite the standard data.

4958 [Read/Restore Std: Rear] Not used

	[IPU Image Path Selection]			
4991	Selects the image path. Enter the number to be selected using the 10-key pad.			
	RGB Frame Memory	*ENG	[0 to 11 / 2 / 1 /step]	
001	O: Scanner input RGB images 1: Scanner I/F RGB images 2: RGB images done by Shading correction (Shading ON, Black offset ON)			
	3: Shading data 4 to 11: Not used			

4993	[High Light Correction]		
001	Sensitivity Selection	*ENG	Selects the Highlight correction level. [0 to 9 / 4 / 1 / step] 0: weakest sensitivity 9: strongest sensitivity
002	Range Selection	*ENG	Selects the range level of Highlight correction. [0 to 9 / 4 / 1 / step] 0: weakest skew correction, 9: strongest skew correction

4994	[Text/Photo Detection Level Adj.]
4994	Selects the definition level between Text and Photo for high compression PDF.

001	PDF Sensitivity Level text/ photo	*ENG	[0 to 2 / 1 / 1 /step] 0: Text priority 1: Normal 2: Photo priority
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	[White Paper Detect Level]		
4996	Selects the threshold level of the original background density. Increasing this threshold machine easily judge that an original is white.		
001	-	*ENG	[0 to 6 / 3 / 1 /step] 0: lightest 6: Darkest

System SP5-xxx

SP5-XXX (Mode)

5024	mm/inch Display Selection]			
3024	Display units (mm or inch) for custom paper sizes.			
001	O:mm 1:inch	*CTL	0: mm (Europe/Asia) 1: inch (USA)	

	[Accounting Counter]			
5045				
	NOTE: The counting method can be changed only once, regardless of whether the counting value is negative or positive.			
			[0 or 1 / 0 / -] 0: Developments	
001	Counter Method	*CTL	0: Developments	
			1: Prints	

5047	[Paper Display]			
3047	Turns on or off the printed paper display on the LCD.			
001	-	*CTL	[0 or 1 / 0 / -] 0: OFF, 1: ON	

5051	[Toner Refill Detection Display]				
3031	ction display.				
			[0 or 1 / 0 / -] Alphanumeric		
50511	Toner Refill Detection Display	*CTL	0: ON		
			1: OFF		

5055	[Display IP Address]	
	Display or does not display the IP address on the LCD.	

001	-	*CTL	[0 or 1 / 0 / -] 0: OFF 1: ON
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	5056	[Coverage Counter Display]				
3036	3030	Display or does not display the coverage counter on the LCD.				
	001	-	*CTL	[0 or 1 / 0 / -] 0: Not display, 1: Display		

5061	[Toner Remaining Icon Display]			
3001	ng toner display icon on the LCD.			
001	-	*CTL	[0 or 1 / 0 / -] 0: Not display, 1: Display	

5062	[Parts Replacement Alert Display]				
3002	Display or does not display the	PM par	t yield on the LCD.		
001	Drum Unit: Bk	*CTL			
002	Drum Unit: M	*CTL	[0 or 1 / 1 / -]		
003	Drum Unit: C	*CTL	0: Not display, 1: Display		
004	Drum Unit: Y	*CTL			
005	Development Unit: Bk	*CTL			
006	Development Unit: M	*CTL	[0 or 1 / 1 / -]		
007	Development Unit: C	*CTL	0: Not display, 1: Display		
800	Development Unit: Y	*CTL			
009	Developer: Bk	*CTL			
010	Developer: M	*CTL	[0 or 1 / 1 / -]		
011	Developer: C	*CTL	0: Not display, 1: Display		
012	Developer: Y	*CTL			

013	Image Transfer Belt	*CTL	
014	Image Transfer Cleaning Unit	*CTL	
015	Fusing Unit	*CTL	
016	Paper Transfer Roller Unit	*CTL	[0 or 1 / 1 / -] 0: Not display, 1: Display
017	Waster Toner Bottle	*CTL	o. Hor display, 1. Display
018	Fusing Roller (Heating Roller)	*CTL	
019	Pressure Roller	*CTL	

5066	[Parts PM Menu Display Setting]			
Display or does not display the "PM parts" button on the LCD.				
001	-	*CTL	[0 or 1 / 1 / -] 0: No display, 1: Display	

	[Parts PM System Setting]				
5067	Selects the service maintenance or user maintenance for each PM parts. If the user service is selected, PM alert is displayed on the LCD.				
001	PCDU:Bk	*CTL			
002	PCDU:M	*CTL	[0: Service] or [1: User]		
003	PCDU:C	*CTL	[U. Service] or [1. Oser]		
004	PCDU:Y	*CTL			
005	Dev Unit:Bk	*CTL			
006	Dev Unit:M	*CTL	[0: Service] or [1: User]		
007	Dev Unit:C	*CTL	[O. Service] Or [1. Oser]		
008	Dev Unit:Y	*CTL			

009	Developer:Bk	*CTL	
010	Developer:M	*CTL	[0, Sanisa] an [1, 1], and
011	Developer:C	*CTL	[0: Service] or [1: User]
012	Developer:Y	*CTL	
013	Int Trans Unit	*CTL	[0: Service] or [1: User]
014	Belt Cleaning Unit	*CTL	[0: Service] or [1: User]
015	Fusing Unit	*CTL	[0: Service] or [1: User]
016	Transfer Roller	*CTL	[0: Service] or [1: User]
017	WasteToner Bottle	*CTL	[0: Service] or [1: User]
018	Fusing Roller (Heating Roller)	*CTL	[0: Service] or [1: User]
019	Pressure Roller	*CTL	[0: Service] or [1: User]

5071	[Set Bypass Paper Size]				
	-	*CTL	[0 or 1 / 0 / -] 0: Off, 1: On		
001	Turn on or off the paper size confirmation pop-up on the LED. This pop-up prevents mismatching between a paper size selected by the operation panel and an actual pap size on the by-pass tray.				

	[A3/DLT Double Count] SSP				
5104	Specifies whether the counter is double clicked for A3/DLT size prints. When you have to change this SP, ask your supervisor.				
51041	Double Count	*CTL	[0 to 2 / 0 / 1 /step] 0: NO (Normal count) 1: YES (Double count) 2: YES except By-pass (Normal count for unknown size)		

5104*	A3/DLT Double Count (SSP)
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Specifies whether the counter is doubled for A3/DLT. "Yes" counts except from the bypass tray. When "Yes" is selected, A3 and DLT paper are counted twice, that is A4 \times 2 and LT \times 2 respectively.

5113	[Optional Counter Type]				
001	Default Optional Counter Type	*CTL	This program specifies the counter type. 0: None, 1: Key card (RK 3, 4) 2: Key card (down), 3: Prepaid card 4: Coin rack, 5: MF key card 8: Key counter + Vendor 9: Bar-code Printer		
002	External Optional Counter Type	*CTL	This program specifies the external counter type 0: None 1: Expansion Device 1 2: Expansion Device 2 3: Expansion Device 3		

5114	[Optional Counter I/F]				
001	MF Key Card Extension	*CTL	[0: Not installed/ 1: Installed (scanning accounting)]		
5118	[Disable Copying] *CTL [0: Not disabled/ 1: Disabled]				
001	This program disables copying.				
5120	[Mode Clear Opt. Counter *CTL [0: Yes (removed)/ 1: Standby (installed but not used)/ 2: No (not removed)]				
001	This program updates the information on the optional counter. When you install or remove an optional counter, check the settings.				

5121	[Counter Up Timing]	*CTL	[0: Feed / 1: Exit]
(1(1)	This program specifies when the "paper exit" respectively.	e counte	r goes up. The settings refer to "paper feed" and

	[F Size Original Setting]	*ENG	[0 to 2	[0 to 2 / 0 / 1 /step]		
5126			0: 8 1/	0: 8 1/2" x 13" (Foolscap)		
3120	[1 Size Original Sening]	LIVO	1: 8 1/	/4" x 13"	(Folio)	
			2: 8" x	13" (F)		
001	Selects F size original setting.					
5127	[APS Mode]	*CTL [0: Not disabled/ 1: Disabled]			d/ 1: Disabled]	
001	This program disables the APS.					
					I	
5128	[Code Mode With Key/Card C	Option]		*CTL	-	
001	DFU					
5131	[Paper Size Type Selection]		*ENG	*ENG [0: JP (Japan)/ 1: NA / 2: EU]		
001	The program selects a paper size the LT system (1), and the AF system (1).	•		following	alternatives: the AB system (0),	
			[0 : OEE 4	/ 1. ONI		
5148	Size Detection Off	*CTL	[0: OFF / 1: ON] 0: OFF (Detect)			
3140	olze beleelion on		1: ON (I		ct)	
001	Enables or disables the automo	atic pape	er size det	ection for	the by-pass tray.	
5150	[By-Pass Length Setting]		*CTL	[0 : OFF	/ 1: ON]	
	Determines whether the transfer	sheet fro	om the by-	pass tray	is used or not.	
001	Normally the paper length for sub scanning paper from the by-pass tray is limited to 600 mm, but this can be extended with this SP to 1260 mm.					
5162	[App. Switch Method] *CTL [0: Soft Key Set/ 1: Hard Key Set]					
001	This program specifies the switch that selects an application program.					

	[Fax Printing Mode at Optional]			
5167	Enables or disables the automatic print out without an accounting device. This SP is used when the receiving fax is accounted by an external accounting device.			
001	Fax Printing Mode at Optional Counter Off	*CTL	[0 or 1 / 0 / -] 0: Automatic printing 1: No automatic printing	

	[CE Login]				
5169	you must 'log in' to service mode with this SP before				
001	CE Login	*CTL	[0 or 1 / 0 / -] 0: Disabled 1: Enabled		

5181	[Size Adjust]					
3101	Adjusts the paper size for each tray.					
001	TRAY 1	*ENG	[0 to 3 / 0 (EU/ASIA), 1 (NA) / 1 /step] 0: A4 LEF, 1: LT LEF, 2: B5 LEF, 3: A5 LEF			
002	TRAY 2: 1	*ENG	[0 or 1 / 0 (EU/ASIA), 1 (NA) / -] 0: A4 LEF, 1: LT LEF			
003	TRAY 2: 2	*ENG	[0 or 1 / 0 (EU/ASIA), 1 (NA) / -] 0: A3, 1: DLT			
004	TRAY 2: 3	*ENG	[0 or 1 / 0 (EU/ASIA), 1 (NA) / -] 0: B4, 1: LG			
005	TRAY 2: 4	*ENG	[0 or 1 / 0 (EU/ASIA), 1 (NA) / -] 0: B5 LEF, 1: Exe LEF			
006	TRAY 3/T-LCT: 1	*ENG	[0 or 1 / 0 (EU/ASIA), 1 (NA) / -] 0: A4 LEF, 1: LT LEF			
007	TRAY 3: 2	*ENG	[0 or 1 / 0 (EU/ASIA), 1 (NA) / -] 0: A3, 1: DLT			

008	TRAY 3: 3	*ENG	[0 or 1 / 0 (EU/ASIA), 1 (NA) / -] 0: B4, 1: LG
009	TRAY 3: 4	*ENG	[0 or 1 / 0 (EU/ASIA), 1 (NA) / -] 0: B5 LEF, 1: Exe LEF
010	TRAY 4: 1	*ENG	[0 or 1 / 0 (EU/ASIA), 1 (NA) / -] 0: A4 LEF, 1: LT LEF
011	TRAY 4: 2	*ENG	[0 or 1 / 0 (EU/ASIA), 1 (NA) / -] 0: A3, 1: DLT
012	TRAY 4: 3	*ENG	[0 or 1 / 0 (EU/ASIA), 1 (NA) / -] 0: B4, 1: LG
013	TRAY 4: 4	*ENG	[0 or 1 / 0 (EU/ASIA), 1 (NA) / -] 0: B5 LEF, 1: Exe LEF
018	LCT	*ENG	[0 to 2 / 0 (EU/ASIA), 1 (NA) / -] 0: A4LEF, 1: LTLEF, 2: B5LEF

5186	[RK 4]			
	Enables or disables the prevention for RK4 (accounting device) disconnection.			
	If the RK4 is disconnected for 10 seconds when this SP is set to "1 (Enable)", the machine automatically jams a sheet of paper and stops.			
			[0 or 1 / 0 / 1/step]	
001	-	*ENG	0: Disable	
			1: Enable	

5188	[Copy NV Version]			
	Displays the version number of the NVRAM on the controller board.			
001	-	-	-	

3

001 - *CTL [0 or 1 / 1 / -]
0: Off, 1: On

Enables or disables the STR (Suspend to RAM) mode.

5195	[Limitless SW] DFU				
	-	*CTL	[0 or 1 / 0 / -] 0: Productivity priority 1: Tray priority		
	Selects the paper feed mode.				
001	Productivity priority:				
001	This changes the feeding tray as soon as the machine detects the priority tray even the paper still remains in the feeding tray.				
	Tray priority:				
	This changes the feeding tray after the paper in the tray where the machine has been feeding paper has been run out of.				
	This SP is activated only when a customer selects the "Auto Paper Selsct".				

5196	[90 degree rotation (copy)] JPN only		
001	-	*CTL	-

5199	[Paper Exit After Staple End.]
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001	-	*CTL	[0 or 1 / 0 / -] 0: OFF, 1: ON
	Enables or disables the paper feeding out from the finisher without stapling. If this setting is "1: ON", paper is fed out without stapling at the maximum number of the finisher stapling when the machine gets a multiple printing job (over maximum number).		
	• If this setting is "O: OFF", paper is fed out with stapling at the maximum number of the finisher stapling when the machine gets a multiple printing job (over maximum number).		

5212	[Page Numbering]	*CTL	
	This program adjusts the position of the second side page numbers. A "- value" moves the page number positions to the left edge. A "+ value" moves the page number positions to the right edge.		
003	Duplex Printout Right/Left Position		[-10 to 10 / 0 / 1 mm/step]
004	Duplex Printout High/Low Posi	tion	[-10 to 10 / 0 / 1 mm/step]

	[Set Time]				
	Adjusts the RTC (real time clock) time setting for the local time zone.				
	Examples: For Japan (+9 GMT), enter 540 (9 hours x 60 min.)				
	DOM: +540 (Tokyo)				
5302	NA: -300 (New York)				
	EU: + 60 (Paris)				
	CH: +480 (Peking)				
	TW: +480 (Taipei)				
	AS: +480 (Hong Kong)				
002	Time Difference	*CTL#	[-1440 to 1440 / Area / 1 min./step]		

5307

	1				
001	Setting	-	[0 to 1 / NA, EU, ASIA / 1 /step] 0: Disabled 1: Enabled NA and EUR: 1, ASIA: 0		
001	Enables or disables the summe	er time n	node.		
	UNote				
	 Make sure that both SP5-307-3 and -4 are correctly set. Otherwise, this SP is not activated even if this SP is set to "1". 				
	Rule Set (Start)	-			
	Specifies the start setting for the summer time mode.				
	There are 8 digits in this SP. For months 1 to 9, the "O" cannot be input in the first digit, so the eight-digit setting for -2 or -3 becomes a seven-digit setting.				
	1st and 2nd digits: The month. [1 to 12]				
003	3rd digit: The week of the month. [1 to 5]				
003	4th digit: The day of the week. [0 to 6 = Sunday to Saturday]				
	5th and 6th digits: The hour. [00 to 23]				
	7th digit: The length of the advanced time. [0 to 9 / 1 hour /step]				
	8th digit: The length of the advanced time. [0 to 5 / 10 minutes /step]				
	The digits are counted from the left.				
	Make sure that SP5-307-1 is set to "1".				
	For example: 3500010 (EU c	default)			
	The timer is advanced by 1 hour at am 0:00 on the 5th Sunday in March.				

	Rule Set (End)				
004	Specifies the end setting for the summer time mode.				
	There are 8 digits in this SP.				
	1 st and 2nd digits: The month. [1 to 12]				
	3rd digit: The week of the month. [0 to 5]				
	4th digit: The day of the week. [0 to 7 = Sunday to Saturday]				
	5th and 6th digits: The hour. [00 to 23]				
	The 7th and 8 digits must be set to "00".				
	The digits are counted from the left.				
	Make sure that SP5-307-1 is set to "1".				

5401	[Access Control]				
	When installing the SDK application, SAS (VAS) adjusts the following settings. DFU				
	Default Document ACL	*CTL			
	Whenever a new login user is added to the address book in external certification mode (for Windows, LDAP, RDH), the default document ACL is updated according to this SP setting.				
100	[0 to 3 / 0 / 1]				
103	0: View				
	1: Edit				
	2: Edit/Delete				
	3: Full control				
	Note: This SP setting is ignored on a machine that is not using document server.				
			[0 to 255 / 0 / 1 sec./step]		
	Authentication Time	*CTL	0: 60 seconds		
104			1 to 250 seconds		
	Specifies the timeout of the authentication.				
			Bit 0: Log-out without an IC card		
162	Extend Certification Detail	*CTL	0: Not allowed (default)		
			1: Allowed		
	Selects the log out type for the extend authentication device.				

200	SDK1 Unique ID	*CTL			
201	SDK1 Certification Method	*CTL			
210	SDK2 Unique ID	*CTL	"SDK" is the "Software Development Kit". This		
211	SDK2 Certification Method	*CTL	data can be converted from SAS (VAS) when		
220	SDK3 Unique ID	*CTL	installed or uninstalled. (DFU)		
221	SDK3 Certification Method	*CTL			
230	SDK certification device	*CTL			
	Detail Option	*CTL	-		
	Enalbes or disables the log out confirmation option.				
	Bit 0: Log out confirmation option				
240	O: Enable (default), 1: Disable				
240	Selects the automatic log out time.				
	Bit 1 and 2: Automatic log out timer reduction				
	00: 60 seconds (default), 01: 10 seconds,				
	10: 20 seconds, 11: 30 seconds				

5404	[User Code Counter Clear]		
001	UCodeCtrClr		Clears all counters for users.

5411	[LDAP Certification]		
004	Easy Certification	*CTL	Determines whether easy LDAP certification is done. [0 or 1 / 1 / -] 1: On, 0: Off
005	Password Null Not Permit	*CTL	This SP is referenced only when SP5411-4 is set to "1" (On). [0 or 1 / 0 / -] 0: Password NULL not permitted. 1: Password NULL permitted.

006	Detail Option	*CTL	Determines whether LDAP option (anonymous certification) is turned on or off. BitO O: OFF, 1: ON	
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5413	[Lockout Setting]		
001	Lockout On/Off	*CTL	Switches on/off the lock on the local address book account. [0 or 1 / 0 / -] 0: Off, 1: On
002	Lockout Threshold	*CTL	Sets a limit on the frequency of lockouts for account lockouts. [1 to 10 / 5 / 1/step]
003	Cancellation On/Off	*CTL	Determines whether the system waits the prescribed time for input of a correct user ID and password after an account lockout has occurred. [0 or 1 / 0 / -] 0: Off (no wait time, lockout not cancelled) 1: On (system waits, cancels lockout if correct user ID and password are entered.
004	Cancellation Time	*CTL	Determines the length of time that the system waits for correct input of the user ID and password after a lockout has occurred. This setting is used only if SP5413-3 is set to "1" (on). [1 to 999 / 60 / 1 min./step]
005	Counter Clear Time	*CTL	Not Used

5414	[Access Mitigation]		
001	Mitigation On/Off	*CTL	Switches on/off masking of continuously used IDs and passwords that are identical. [0 or 1 / 0 / -] 0: Off, 1: On

002 Mitigation Time *CTL acce	the length of time for excluding continuous ess for identical user IDs and passwords.
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5415	[Password Attack]		
001	Permissible Number	*CTL	Sets the number of attempts to attack the system with random passwords to gain illegal access to the system. [0 to 100 / 30 / 1 attempt/step]
002	Detect Time	*CTL	Sets the time limit to stop a password attack once such an attack has been detected. [1 to 10 / 5 / 1 sec./step]

5416	[Access Information]		
001	Access User Max Number	*CTL	Limits the number of users used by the access exclusion and password attack detection functions. [50 to 200 / 200 / 1 users/step]
002	Access Password Max Number	*CTL	Limits the number of passwords used by the access exclusion and password attack detection functions. [50 to 200 / 200 / 1 password/step]
003	Monitor Interval	*CTL	Sets the processing time interval for referencing user ID and password information. [1 to 10 / 3 / 1 sec./step]

5417	[Access Attack]		
001	Access Permissible Number	*CTL	Sets a limit on access attempts when an excessive number of attempts are detected for MFP features. [0 to 500 / 100 / 1/step]
002	Attack Detect Time	*CTL	Sets the length of time for monitoring the frequency of access to MFP features. [10 to 30 / 10 / 1 sec./step]

003	Productivity Fall Wait	*CTL	Sets the wait time to slow down the speed of certification when an excessive number of access attempts have been detected. [0 to 9 / 3 / 1 sec./step]
004	Attack Max Number	*CTL	Sets a limit on the number of requests received for certification in order to slow down the certification speed when an excessive number of access attempts have been detected. [50 to 200 / 200 / 1 attempt/step]

	[User Authentication]				
5420	These settings should be done with the System Administrator.				
	Note: These functions are enabled only after the user access feature ha				
			Determines whether certification is required before a user can use the copy applications.		
001	Сору	*CTL	[0 or 1 / 0 / 1]		
			0: On, 1: Off		
	Color Security Setting	*CTL	-		
	Enables or disables the color copy limitation for each copy mode when the user authentication is "ON".				
	O: Enable (default), 1: Disable				
002	BitO: B/W mode				
002	Bit1: Mono color mode				
	Bit2: Two colors mode				
	Bit3: Full color mode				
	Bit4: Automatic color mode				
	Bit5 to 7: Reserved				
		* 0.71	Determines whether certification is required before a user can use the document server.		
011	Document Server	*CTL	[0 or 1 / 0 / 1]		
			0: On, 1: Off		

021	Fax	*CTL	Determines whether certification is required before a user can use the fax application. [0 or 1 / 0 / 1] 0: On, 1: Off
031	Scanner	*CTL	Determines whether certification is required before a user can use the scan applications. [0 or 1 / 0 / 1] 0: On, 1: Off
041	Printer	*CTL	Determines whether certification is required before a user can use the printer applications. [0 or 1 / 0 / 1] 0: On, 1: Off
051	SDK1	*CTL	[0 or 1 / 0 / 1] 0: ON. 1: OFF
061	SDK2		Determines whether certification is required before
071	SDK3		a user can use the SDK application.

5430	[Auth Dialog Message Change]		
001	Message Change On/Off	*CTL	Turns on or off the displayed message change for the authentication. [0 or 1 / 0 / -] 0: Off, 1: On
002	Message Text Download	*CTL	Executes the message download for the authentication.
003	Message Text ID	*CTL	Inputs message text for the authentication.

5431	[External Auth Preset]		
010	Tag	*CTL	[0 or 1 / 1 / -] 0: Not permit, 1: Permit
Turns on or off the tag copy permission for the external authentication.			n for the external authentication.

011	Entry	*CTL	[0 or 1 / 1 / -] 0: Not permit, 1: Permit		
	Turns on or off the copy permission of the entry information for the external authentical				
012	Group	*CTL	[0 or 1 / 1 / -] 0: Not permit, 1: Permit		
	Turns on or off the copy permi	ssion of t	he group information for the external authentication.		
020	Mail	*CTL	[0 or 1 / 1 / -] 0: Not permit, 1: Permit		
	Turns on or off the copy perm	ission of	the mail information for the external authentication.		
030	Fax	*CTL	[0 or 1 / 1 / -] 0: Not permit, 1: Permit		
	Turns on or off the copy perm	ission of	the fax information for the external authentication.		
031	FaxSub	*CTL	[0 or 1 / 1 / -] 0: Not permit, 1: Permit		
031	Turns on or off the copy permission of the fax additional information for the external authentication.				
032	Folder	*CTL	[0 or 1 / 1 / -] 0: Not permit, 1: Permit		
	Turns on or off the copy permi	ssion of t	he folder information for the external authentication.		
033	ProtectCode	*CTL	[0 or 1 / 1 / -] 0: Not permit, 1: Permit		
033	Turns on or off the copy permission of the protection code information for the external authentication.				
034	SmtpAuth	*CTL	[0 or 1 / 1 / -] 0: Not permit, 1: Permit		
Turns on or off the copy permission of the SMTP inform		he SMTP information for the external authentication.			

035	LdapAuth	*CTL	[0 or 1 / 1 / -]		
			0: Not permit, 1: Permit		
	Turns on or off the copy permi	ission of	the LDAP information for the external authentication.		
	Smb Ftp Auth	*CTL	[0 or 1 / 1 / -]		
036	omb rip /tom	CIL	0: Not permit, 1: Permit		
030	Turns on or off the copy perm authentication.	ission of	the SMB/FTP information for the external		
			[0 or 1 / 1 / -]		
037	AcntAcl	*CTL	0: Not permit, 1: Permit		
037	Turns on or off the copy permission of the account ACL information for the external authentication.				
	DocumentAcl	*CTL	[0 or 1 / 1 / -]		
038			0: Not permit, 1: Permit		
030	Turns on or off the copy perm authentication.	the document ACL information for the external			
	_		[0 or 1 / 1 / -]		
040	CertCrypt		0: Not permit, 1: Permit		
040	Turns on or off the copy permission of the authentication information for the external authentication.				
	Harding Court	*CTL	[0 or 1 / 1 / -]		
050	UserLimitCount	CIL	0: Not permit, 1: Permit		
330	Turns on or off the copy perm authentication.	ission of	the maximum number information for the external		

5481	[Authentication Error Code]				
3401	These SP codes determine how the authentication failures are displayed.				
001	System Log Disp	*CTL	Determines whether an error code appears in the system log after a user authentication failure occurs. [0 or 1 / 0 / 1] 0: Off, 1: On		

002	Panel Disp	*CTL	Determines whether an error code appears on the operation panel after a user authentication failure occurs. [0 or 1 / 1 / 1] 1: On, 0: Off
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5490	[MF Key Card (Japan only)]		
001	-	*CTL	Sets up operation of the machine with a keycard. [0 or 1 / 0 / 1] 0: Disabled. Cancels operation without a user code. 1: Enabled. Allows operation without a user code.

5501	[PM Alarm]	*CTL	-
001	PM Alarm Level	[0 to 9999 / 0 / 1 /step] 0: Alarm off 1 to 9999: Alarm goes off when Value (1 to 9999) x 10 > PM counter	
002	Original Count Alarm	[0 or 1 / 0 / -] 0: No alarm sounds 1: Alarm sounds after the number of originals passing through the ARDF > 10,000	

5504	[Jam Alarm]	*CTL	-
Sets the alarm to sound for the specified jam level (document misfeeds are not in [0 to 3 / 3 / 1 / step] O: Zero (Off) 1: Low (2.5K jams) 2: Medium (3K jams) 3: High (6K jams)		d jam level (document misfeeds are not included).	

	[Error Alarm]			
5505	Sets the error alarm level. The error alarm counter counts "1" when any SC is detected. However, the error alarm counter decreases by "1" when an SC is not detected during a set number of copied sheet (for example, default 1500 sheets). The error alarm occurs when the SC error alarm counter reaches "5".			
001	-	*CTL	[0 to 255 / C2.5a : 25, C2.5b : 35 / 100 copies / step]	
5507	[Supply Alarm]	*CTL	-	

5507	[Supply Alarm]	*CTL	-		
001	Paper Supply Alarm	0: Off , 1:	On, DFU		
002	Staple Supply Alarm	0: Off, 1:	On		
003	Toner Supply Alarm	0: Off, 1:	On, DFU		
080	Toner Call Timing	@Remote	the timing of the "Toner Supply Call" via the , when the following conditions occur. acement (default) r end		
128	Interval :Others				
132	Interval :A3				
133	Interval :A4				
134	Interval :A5				
141	Interval :B4				
142	Interval :B5	[230 16 1	0000 / 1000 / 1 /step] DFU		
160	Interval :DLT				
164	Interval :LG				
166	Interval :LT				
172	Interval :HLT				

5508* [CC Call]	*CTL -	
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001*	Jam Remains	0: Disable, 1: Enable		
001	Enables/disables initiating a call for an unattended paper jam.			
002*	Continuous Jams	0: Disable, 1: Enable		
002	Enables/disables initiating a call for	consecutive paper jams.		
002*	Continuous Door Open	0: Disable, 1: Enable		
003* Enables/disables initiating a call when the front door remains open.		en the front door remains open.		
	Jam Detection: Time Length	[3 to 30 / 10 / 1 minute /step]		
011*	Sets the time a jam must remain before it becomes an "unattended paper jam". This setting is enabled only when SP5508-004 is set to "1".			
	Jam Detection: Continuous Count	[2 to 10 / 5 / 1 /step]		
012*	Sets the number of consecutive paper jams required to initiate a call. This setting is enabled only when SP5508-004 is set to "1".			
	Door Open: Time Length	[3 to 30 / 10 / 1 /step]		
013*	Sets the length of time the door rema	ins open before the machine initiates a call. 5-508-004 is set to "1".		

	[SC/Alarm Setting]	*CTL	-	
5515	With NRS (New Remote Service) in use, these SP codes can be set to issue an SC call when an SC error occurs. If this SP is switched off, the SC call is not issued when an SC error occurs.			
001	SC Call			
002	Service Parts Near End Call		[0 or 1 / 1 / -]	
003	Service Parts End Call		1: On	
004	User Call			

006	Communication Test Call	
007	Machine Information Notice	
008	Alarm Notice	[0 or 1 / 1 / -]
009	Non Genuine Toner Alarm	0: Off
010	Supply Automatic Ordering Call	1: On
011	Supply Management Report Call	
012	Jam/Door Open Call	

5516	[Individual PM Part Alarm Call] With @Remote in use, these SI parts reaches its yield.	*CTL P codes can	be set to issue an PM alarm call when one of SP
001	Disable/Enable Setting (0: Not send, 1: Send)		[0 or 1 / 1 / -] 0: Not send, 1: Send
004	Percent yield for triggering PM alert		[1 to 255 / 75 / 1 %/step]

5610	[Base Gamma Control Point: Command]		
004	Get Factory Default	-	-
004	Recalls the factory settings.		
005	Set Factory Default	-	-
005	Overwrites the current values onto the factory settings.		
006	Restore Original Value	-	-
000	Recalls the previous settings.		

5611	[Toner Color in 2C]			
001	B-C	*ENG	[0 to 128 / 100 / 1 /step] 128: Darkest density	
	Adjusts the Cyan correction value of the blue signal in two-color mode.			

002	В-М	*ENG	[0 to 128 / 100 / 1 /step] 128: Darkest density			
	Adjusts the Magenta cor	rection value	of the blue signal in two-color mode.			
003	G-C	*ENG	[0 to 128 / 100 / 1 /step] 128: Darkest density			
	Adjusts the Cyan correcti	Adjusts the Cyan correction value of the blue signal in two-color mode.				
004	G-Y	*ENG	[0 to 128 / 100 / 1 /step] 128: Darkest density			
	Adjusts the Yellow correction value of the blue signal in two-color mode.					
005	R-M	*ENG	[0 to 128 / 100 / 1 /step] 128: Darkest density			
	Adjusts the Magenta correction value of the blue signal in two-color mode.					
006	R-Y	*ENG	[0 to 128 / 100 / 1 /step] 128: Darkest density			
	Adjusts the Yellow correction value of the blue signal in two-color mode.					

5618	[Color Mode Display Selection]		
001	- Selects the color selection o	*CTL display on	[0 or 1 / 1 / -] 0: ACS, Colour, Black & White, Two Colour, Single colour 1: ACD, Full Colour, Black & White the LCD.



- Memory Clear (SP5-801)
- The following tables list the items that are cleared. The serial number information, meter charge setting and meter charge counters (SP8-581, 582, 583, 584, and 586) are not cleared.

5731	[Counter Effect] JPN only	
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Change Mk1 Cnt (Paper->Combine)	*CTL	[0 or 1 / 0 / -] 0: Disabled, 1: Enabled
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5801	[Memory Clear]	[Memory Clear]		
001	All Clear	Resets all correction data for process control and all software counters, and returns all modes and adjustments to their default values.		
002	Engine	Clears the engine settings.		
003	SCS	Initializes default system settings, SCS (System Control Service) settings, operation display coordinates, and ROM update information.		
004	IMH Memory Clr	Initializes the IMH settings.		
005	MCS	Initializes the MCS settings.		
006	Copier application	Initializes all copier application settings.		
007	Fax application	Initializes the fax reset time, job login ID, all TX/RX settings, local storage file numbers, and off-hook timer.		
008	Printer application	The following service settings: • Bit switches • Gamma settings (User & Service) • Toner Limit The following user settings: • Tray Priority • Menu Protect • System Setting except for setting of Energy Saver • I/F Setup (I/O Buffer and I/O Timeout) • PCL Menu		
009	Scanner application	Initializes the scanner defaults for the scanner and all the scanner SP modes.		
010	Web Service	Deletes the network file application management files and thumbnails, and initializes the job login ID.		

011	NCS	All setting of Network Setup (User Menu) (NCS: Network Control Service)
012	R-Fax	Initializes the job login ID, SmartDeviceMonitor for Admin, job history, and local storage file numbers.
014	Clear DCS Settings	Initializes the DCS (Delivery Control Service) settings.
015	Clear UCS Settings	Initializes the UCS (User Information Control Service) settings.
016	MIRS Setting	Initializes the MIRS (Machine Information Report Service) settings.
017	CCS	Initializes the CCS (Certification and Charge-control Service) settings.
018	SRM Memory Check	Initializes the SRM (System Resource Manager) settings.
019	LCS	Initializes the LCS settings.
020	Web Uapli	Initializes the web user application settings.
021	ECS	Initializes the ECS settings.

	[Free Run]				
	Performs a free run on the copier engine.				
5000	♥ Note				
5802	A4 SEF printing from the loaded in the 1st tray or	1st or 2 2nd tray	e same condition as the sequence of A4/LT, A3 or 2nd tray. Therefore, the correct paper should be y, but paper is not fed. I off and on after using the free run mode for a test.		
001	B/W A4 LEF	-			
002	FC A4 LEF	-	-		
003	FC A3 LEF	-			

5803	[Input Check]	-	See "Input Check Table" in this section.
5804	[Output Check]	-	See "Output Check Table" in this section.

5805	[Anti-Condensation Heater]		
002	0:OFF / 1:ON	*ENG	[0 or 1 / 0 / -]

5806	[RFID CONT.READING]			
0.01	TIMES	-	[0 to 65535 / - / 1 /step]	
001	Displays the counter for the	RFID com	munication test.	
002	NOT 0	-	[0 to 65535 / - / 1 /step]	
002	Displays the counter for the RFID communication failure.			
002	RET.	-	[0 to 65535 / - / 1 /step]	
003	Displays the counter for the RFID communication retry.			
004	EXE.ALL	-	Execute the RFID communication test for all colors.	
005	EXE.K	-	Execute the RFID communication test for balck.	
006	EXE.M	-	Execute the RFID communication test for magenta.	
007	EXE.C	-	Execute the RFID communication test for cyan.	
008	EXE.Y	-	Execute the RFID communication test for yellow.	

	[SC Reset]		
5810	Resets a type A service call co Note Turn the main switch off		
001	Fusing SC Reset	-	-

5811	[Machine Serial] Machine Serial Number Display		
002	Display		Displays the machine serial number.
004	BICU		Inputs the machine serial number.

5812	[Service Tel. No. Setting]
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	Service	*CTL	-		
001	Sets the telephone number for a service representative. This number is printed on the Counter List, which can be printed with the user's "Counter" menu. This can be up to 20 characters (both numbers and alphabetic characters can be input).				
			indibers and diphabene characters can be inputy.		
	Facsimile	*CTL	-		
002	Sets the fax or telephone number for a service representative. This number is printed on the Counter List.				
	This can be up to 20 characters (both numbers and alphabetic characters can be input).				
	Supply	*CTL	-		
003	Use this to input the telephone number of your supplier for consumables. Enter the number and press #.				
004	Operation	*CTL	-		
	Use this to input the telephone number of your sales agency. Enter the number and press #.				

5816	[Remote Service]	*CTL	-
	I/F Setting		
	Selects the remote service s	etting.	
001	[0 to 2 / 2 / 1 /step]		
001	O: Remote service off		
	1: CSS remote service on		
	2: NRS remote service on		
	CE Call		
	Performs the CE Call at the	start or en	d of the service.
002	[0 or 1 / 0 / 1 /step]		
002	0: Start of the service		
	1: End of the service		
	NOTE: This SP is activated	only when	SP 5816-001 is set to "2".

	Function Flag					
	Enables or disables the rem	ote service function.				
003	[0 to 1 / 0 / 1 /step]					
	0: Disabled					
	1: Enabled					
	SSL Disable					
	Controls if RCG (Remote Co	ommunication Gate) confirmation is done by SSL during an				
007	[0 or 1 / 0 / 1 /step]	oral a naiwalkimanasa.				
	0: Yes. SSL not used.					
	1: No. SSL used.					
	RCG Connect Timeout					
008	Sets the length of time (seconds) for the time-out when the RCG (Remote Communication Gate) connects during a call via the @Remote network.					
	[1 to 90 / 30 / 1 second /	/step]				
	RCG Write Timeout					
009	Sets the length of time (seconds) for the time-out when sent data is written to the RCG during a call over the @Remote network.					
	[1 to 100 / 60 / 1 second /step]					
	RCG Read Timeout					
010	Sets the length of time (seconds) for the timeout when sent data is written from the RCG during a call over the @Remote network.					
	[1 to 100 / 60 / 1 second	/step]				
	Port 80 Enable	-				
011	Controls if permission is given to get access to the SOAP method over Port 80 on the @Remote network.					
011	[0 or 1 / 0 / –]					
	0: No. Access denied					
	1: Yes. Access granted.					

	RFU Timing		
	Selects the timing for the remote firmware updating.		
013	[0 or 1 / 1 / -]		
	0: Any status of a target machine		
	1: Sleep or panel off mode only		
	RCG – C Registed		
021	This SP displays the RCG-N installation end flag.		
021	0: Installation not completed		
	1: Installation completed		
	RCG – C Regist Detail		
	This SP displays the RCG d	evice installation status.	
022	0: RCG device not registered		
	1: RCG device registered		
	2: Device registered		
	Connect Type (N/M)		
	This SP displays and selects the RCG-N connection method.		
023	[0 or 1 / 0 / 1 /step		
	0: Internet connection		
	1: Dial-up connection		
061	Cert. Expire Timing DFU	Proximity of the expiration of the certification.	
062	Use Proxy	This SP setting determines if the proxy server is used when the machine communicates with the service center.	
	Proxy Host		
	This SP sets the address of the proxy server used for communication between the RCG device and the gateway. Use this SP to set up or display the customer proxy server address.		
063	The address is necessary to set up the embedded RCG-N.		
	Note		
	 The address display is limited to 128 characters. Characters beyond the 128 character are ignored. 		
	This address is customer information and is not printed in the SMC report.		

064	Proxy	PortNumber		
	This SP sets the port number of the proxy server used for communication between the embedded RCG-N and the gateway. This setting is necessary to set up the embedded RCG-N.			
	Note			
	This port number is customer information and is not printed in the SMC report.			
	Proxy	User Name		
	This SP sets the HTTP proxy certification user name.			
065	U N	ote		
		The length of the name is limited to 31 characters. Any character beyond the 31st character is ignored.		
	•	This name is customer information and is not printed in the SMC report.		
	Proxy Password			
	This SP sets the HTTP proxy certification password.			
066	D N	ote		
	 The length of the password is limited to 31 characters. Any character beyond the 31st character is ignored. 			
	•	This name is customer information and is not printed in the SMC report.		
067	CERT:Up State			
007	Displays the status of the certification update.			
	0	The certification used by RCG-N is set correctly.		
	1	The certification request (setAuthKey) for update has been received from the GW URL and certification is presently being updated.		
	2	The certification update is completed and the GW URL is being notified of the successful update.		
	3	The certification update failed, and the GW URL is being notified of the failed update.		
	4	The period of the certification has expired and new request for an update is being sent to the GW URL.		
	11	A rescue update for certification has been issued and a rescue certification setting is in progress for the rescue GW connection.		

	12	The rescue certification setting is completed and the GW URL is being notified of the certification update request.		
	13	The notification of the request for certification update has completed successfully, and the system is waiting for the certification update request from the rescue GW URL.		
	14	The notification of the certification request has been received from the rescue GW controller, and the certification is being stored.		
	15	The certification has been stored, and the GW URL is being notified of the successful completion of this event.		
	16	The storing of the certification has failed, and the GW URL is being notified of the failure of this event.		
	17	The certification update request has been received from the GW URL, the GW URL was notified of the results of the update after it was completed, but an certification error has been received, and the rescue certification is being recorded.		
	18	The rescue certification of No. 17 has been recorded, and the GW URL is being notified of the failure of the certification update.		
	CERT:Error			
	Displays a number code that describes the reason for the request for update of the certification.			
	0	Normal. There is no request for certification update in progress.		
	1	Request for certification update in progress. The current certification has expired.		
068	2	An SSL error notification has been issued. Issued after the certification has expired.		
	3	Notification of shift from a common authentication to an individual certification.		
	4	Notification of a common certification without ID2.		
	5	Notification that no certification was issued.		
	6	Notification that GW URL does not exist.		
069	CERT	:Up ID The ID of the request for certification.		
083	FirmUp Status		Displays the status of the firmware update.	

085	Firm Up User Check	This SP setting determines if the operator can confirm the previous version of the firmware before the firmware update execution. If the option to confirm the previous version is selected, a notification is sent to the system manager and the firmware update is done with the firmware files from the URL.	
086	Firmware Size	Allows the service technician to confirm the size of the firmware data files during the firmware update execution.	
087	CERT: Macro Version	Displays the macro version of the @Remote certification.	
088	CERT: PAC Version	Displays the PAC version of the @Remote certification.	
089	CERT: ID2 Code	Displays ID2 for the @Remote certification. Spaces are displayed as underscores (_). Asteriskes (****) indicate that no @Remote certification exists.	
090	CERT: Subject	Displays the common name of the @Remote certification subject. CN = the following 17 bytes. Spaces are displayed as underscores (_). Asterisks (* * * *) indicate that no DESS exists.	
091	CERT: Serial Number	Displays serial number for the NRS certification. Asterisks (****) indicate that no DESS exists.	
092	CERT: Issuer	Displays the common name of the issuer of the @Remote certification. CN = the following 30 bytes. Asteriskes (****) indicate that no DESS exists.	
093	CERT: Valid Start	Displays the start time of the period for which the current @Remote certification is enabled.	
094	CERT: Valid End	Displays the end time of the period for which the current @Remote certification is enabled.	
	Selection Country		
150	Select the country where embedded RCG-M is installed in the machine. After selecting the country, you must also set the following SP codes for embedded RCG-M:		
	• SP5816-153		
	SP5816-154SP5816-161		
	0: Japan, 1: USA, 2: Canada, 3: UK, 4: Germany, 5: France, 6: Italy,		
	7: Netherlands, 8: Belgium, 9: Luxembourg, 10: Spain		

Line Type AutomaticJudgment Press [Execute]. Setting this SP classifies the telephone line where embedded RCG-M is connected as either dial-up (pulse dial) or push (DTMF tone) type, so embedded RCG-M can automatically 151 distinguish the number that connects to the outside line. • The current progress, success, or failure of this execution can be displayed with SP5816-152. • If the execution succeeded, SP5816-153 will display the result for confirmation and SP5816-154 will display the telephone number for the connection to the outside line. Line Type Judgment Result Displays a number to show the result of the execution of SP5816 151. Here is a list of what the numbers mean. 0. Success 1: In progress (no result yet). Please wait. 2: Line abnormal 152 3: Cannot detect dial tone automatically 4: Line is disconnected 5: Insufficient electrical power supply 6: Line classification not supported 7: Error because fax transmission in progress – ioctl() occurred. 8: Other error occurred 9: Line classification still in progress. Please wait. Selection Dial/Push This SP displays the classification (tone or pulse) of the telephone line to the access point for embedded RCG-M. The number displayed (0 or 1) is the result of the execution of SP5816-151. However, this setting can also be changed manually. [0 or 1 / 0 / 1 /step] 153 0: Tone Dialing Phone 1: Pulse Dialing Phone Inside Japan "2" may also be displayed: 0: Tone Dialing Phone 1: Pulse Dialing Phone 10PPS 2: Pulse Dialing Phone 20PPS

154	Outside LineOutgoing Number
	The SP sets the number that switches to PSTN for the outside connection for embedded RCG-M in a system that employs a PBX (internal line).
	 If the execution of SP5816-151 has succeeded and embedded RCG-M has connected to the external line, this SP display is completely blank.
	 If embedded RCG-M has connected to an internal line, then the number of the connection to the external line is displayed.
	 If embedded RCG-M has connected to an external line, a comma is displayed with the number. The comma is inserted for a 2 sec. pause.
	• The number setting for the external line can be entered manually (including commas).
	Dial Up User Name
156	Use this SP to set a user name for access to remote dial up. Follow these rules when setting a user name:
	Name length: Up to 32 characters
	 Spaces and # allowed but the entire entry must be enclosed by double quotation marks (").
	Dial Up Password
157	Use this SP to set a password for access to remote dial up. Follow these rules when setting a user name:
	Name length: Up to 32 characters
	 Spaces and # allowed but the entire entry must be enclosed by double quotation marks (").
	Local Phone Number
161	Use this SP to set the telephone number of the line where embedded RCG-M is connected. This number is transmitted to and used by the Call Center to return calls.
	Limit: 24 numbers (numbers only)
	Connection Timing Adjustment: Incoming
162	When the Call Center calls out to an embedded RCG-M modem, it sends a repeating ID tone (*#1#). This SP sets the time the line remains open to send these ID tones after the number of the embedded RCG-M modem is dialed up and connected.
	[0 to 24 / 1 / 1 /step]
	The actual amount of time is this setting x 2 sec. For example, if you set "2" the line will remain open for 4 sec.

	Access Point				
163	This is the number of the dial-up access point for RCG-M. If no setting is done for this SP code, then a preset value (determined by the country selected) is used. Default: 0				
	Allowed: Up to 16 alphanu	ımeric char	racters		
164	Line Connecting				
	This SP sets the connection conditions for the customer. This setting dedicates the line to RCG-M only, or sets the line for sharing between RCG-M and a fax unit.				
	[0 to 1 / 0 / 1 /step] 0: Sharing Fax				
	1: No Sharing Fax				
	 Note If this setting is changed, the copier must be cycled off and on. SP5816 187 determines whether the off-hook button can be used to interrupt a RCG-M transmission in progress to open the line for fax transaction. 				
173	Modem Serial Number	This SP di	splays the serial number registered for the RCG-M.		
	Retransmission Limit				
174	Normally, it is best to allow unlimited time for certification and ID2 update requests, and for the notification that the certification has been completed. However, RCG-M generates charges based on transmission time for the customer, so a limit is placed upon the time allowed for these transactions.				
	If these transactions cannot be completed within the allowed time, do this SP to cancel the time restriction.				
	FAX TX Priority	-			
187	This SP determines whether pushing the off-hook button will interrupt a RCG-M transmission in progress to open the line for fax transaction. This SP can be used only if SP5816 164 is set to "0".				
	[0 or 1/0/-]				
	0: Disable, 1: Enable				
200	Manual Polling	-	Executes the manual polling.		

	Regist: Status			
	Displays a number that indicates the status of the @Remote service device.			
	0: Neither the registered device by the external nor embedded RCG device is set.			
201		ice is being set. Only Box registration is completed. In this status, olling request from the external RCG.		
	2. The embedded RCG dev	vice is set. In this status, the external RCG unit cannot answer a		
	3. The registered device by device cannot be set.	the external RCG is being set. In this status the embedded RCG		
	4 The registered module by	the external RCG has not started.		
202	Letter Number	Allows entry of the number of the request needed for the RCG-N device.		
203	Confirm Execute Executes the inquiry request to the @Remote GW URL.			
204	Confirm Result			
	Displays a number that indi	Displays a number that indicates the result of the inquiry executed with SP5816 203.		
	O: Succeeded			
	1: Inquiry number error	1: Inquiry number error		
	2: Registration in progress			
	3: Proxy error (proxy enab	led)		
	4: Proxy error (proxy disab	led)		
	5: Proxy error (Illegal user	name or password)		
	6: Communication error			
	7: Certification update erro	г		
	8: Other error 9: Inquiry executing			
	. ,			
005	Confirm Place			
205	Displays the result of the notification sent to the device from the GW URL in answer to the inquiry request. Displayed only when the result is registered at the GW URL.			
206	Register Execute	Executes "Embedded RCG Registration".		

	Register Result				
	Displays a number that indicates the registration result.				
	0: Succeeded				
	2: Registration in progress				
	3: Proxy error (proxy enab	led)			
207	4: Proxy error (proxy disab	oled)			
	5: Proxy error (Illegal user	name or pas	sword)		
	6: Communication error				
	7: Certification update erro	or			
	8: Other error				
	9: Registration executing				
208	Error Code				
	Displays a number that describes the error code that was issued when either SP5816-204 or SP5816-207 was executed.				
	Cause	Code	Meaning		
		-11001	Chat parameter error		
	Illegal Modem Parameter	-11002	Chat execution error		
		-11003	Unexpected error		
		-12002	Inquiry, registration attempted without acquiring device status.		
	Operation Error, Incorrect Setting	-12003	Attempted registration without execution of an inquiry and no previous registration.		
		-12004	Attempted setting with illegal entries for certification and ID2.		
		-12005	@Remote communication is prohibited. The device has an Embedded RC gate-related problem.		

		-12006	A confirmation request was made after the confirmation had been already completed.	
		-12007	The request number used at registration was different from the one used at confirmation.	
	Operation Error, Incorrect Setting	-12008	Update certification failed because mainframe was in use.	
		-12009	ID2 mismatch between an individual certification and NVRAM	
		-12010	Certification area is not initialized.	
		-2385	Attempted dial up overseas without the correct international prefix for the telephone number.	
		-2387	Not supported at the Service Center	
		-2389	Database out of service	
		-2390	Program out of service	
		-2391	Two registrations for same device	
	Error Caused by Response from GW URL	-2392	Parameter error	
	From Gyy OKL	-2393	Basil not managed	
		-2394	Device not managed	
		-2395	Box ID for Basil is illegal	
		-2396	Device ID for Basil is illegal	
		-2397	Incorrect ID2 format	
		-2398	Incorrect request number format	
209	Instal Clear	Releases the	machine from its embedded RCG setup.	
250	CommLog Print	Prints the communication log.		

5821	[Remote Service Address]		
002	RCG IP Address	*CTL	Sets the IP address of the RCG (Remote Communication Gate) destination for call processing at the remote service center.

	[NV-RAM Data Upload]			
5824	Uploads the UP and SP mode data (except for counters and the serial number) from the NVRAM to an SD card. For details, see the "NVRAM Data Upload/Download" in the "System Maintenance Reference" of the Field Service Manual.			
001	NV-RAM Data Upload	#	-	

	[NV-RAM Data Download]			
5825	Downloads the UP and SP mode data from an SD card to the NVRAM. For details, see the "NVRAM Data Upload/Download" in the "System Maintenance Reference" of the Field Service Manual.			
001	NV-RAM Download	#	-	

5828	[Network Setting]	*CTL	-	
050	1284 Compatibility (Centro)	Enables or disables 1284 Compatibility. [O or 1 / 1 / 1 / step] O: Disabled, 1: Enabled		
052	ECP (Centro)	Enables or disables ECP Compatibility. [0 or 1 / 1 / 1 / step] 0: Disabled, 1: Enabled • This SP is activated only when SP5-828-50 is set to "1".		
065	Job Spooling	Enables/disables Job Spooling. [0 or 1 / 0 / 1 / step] 0: Disabled, 1: Enabled		
066	Job Spooling Clear: Start Time	on. 0: ON (D	t of the job when a spooled job exists at power ata is cleared)	

069	Job Spooling (Protocol)	Validates or invalidates the job spooling function for each protocol. 0: Validates 1: Invalidates bit0: LPR bit1: FTP bit2: IPP bit3: SMB bit4: BMLinkS bit5: DIPRINT bit6: sftp
		bit7: (Reserved)
090	TELNET (0: OFF 1: ON)	Enables or disables the Telnet protocol. [O or 1 / 1 / -] O: Disable, 1: Enable
091	Web (0: OFF 1: ON)	Enables or disables the Web operation. [O or 1 / 1 / -] O: Disable, 1: Enable
145	Active IPv6 Link Local Address	This is the IPv6 local address link referenced on the Ethernet or wireless LAN (802.11b) in the format: "Link Local Address" + "Prefix Length" The IPv6 address consists of a total 128 bits configured in 8 blocks of 16 bits each.
147	Active IPv6 Stateless Address 1	These SPs are the IPv6 status addresses (1 to 5)
149	Active IPv6 Stateless Address 2	referenced on the Ethernet or wireless LAN (802.11b) in the format:
151	Active IPv6 Stateless Address 3	"Status Address" + "Prefix Length"
153	Active IPv6 Stateless Address 4	The IPv6 address consists of a total 128 bits configured
155	Active IPv6 Stateless Address 5	in 8 blocks of 16 bits each.

156	IPvó Manual Address	This SP is the IPv6 manually set address referenced on the Ethernet or wireless LAN (802.11b) in the format: "Manual Set Address" + "Prefix Length" The IPv6 address consists of a total 128 bits configured in 8 blocks of 16 bits each.
158	IPv6 Gateway Address	This SP is the IPv6 gateway address referenced on the Ethernet or wireless LAN (802.11b). The IPv6 address consists of a total 128 bits configured in 8 blocks of 16 bits each.
161	IPv6 Stateless Auto Setting	Enables or disables the automatic setting for IPv6 stateless. [O or 1 / 1 / 1 / step] O: Disable, 1: Enable
236	Web Item visible	Displays or does not display the Web system items. [0 x 0000 to 0 x ffff / 0 x ffff] 0: Not displayed, 1: Displayed bit0: Net RICOH bit1: Consumable Supplier bit2-15: Reserved (all)
237	Web shopping link visible	Displays or does not display the link to Net RICOH on the top page and link page of the web system. [0 to 1 / 1 / 1] 0: Not display, 1:Display
238	Web supplies Link visible	Displays or does not display the link to Consumable Supplier on the top page and link page of the web system. [0 to 1 / 1 / 1] 0: Not display, 1:Display
239	Web Link1 Name	This SP confirms or changes the URL1 name on the link page of the web system. The maximum characters for the URL name are 31 characters.
240	Web URL	This SP confirms or changes the link to URL1 on the link page of the web system. The maximum characters for the URL are 127 characters.

241	Web visible	Displays or does not display the link to URL1 on the top page of the web system. [0 to 1 / 1 / 1] 0: Not display, 1:Display
242	Web Link2 Name	Same as "-239"
243	Web Link2 URL	Same as "-240"
244	Web Link2 visible	Same as "-241"

5832	[HDD] HDD Initialization	*CTL	-	
001	HDD Formatting (ALL)			
002	HDD Formatting (IMH)			
003	HDD Formatting (Thumbnail)			
004	HDD Formatting (Job Log)			
005	HDD Formatting (Printer Fonts)			
006	HDD Formatting (User Info)		es the hard disk. Use this SP only if there is a hard disk error.	
007	Mail RX Data		,	
008	Mail TX Data			
009	HDD Formatting (Data for a Design)			
010	HDD Formatting (Log)			
011	HDD Formatting (Ridoc I/F)			

5836	[Capture Settings]	*CTL	-	
	Capture Function (0:Off 1:On) 0: Disable, 1: Enable			
001	With this function disabled, the settings related to the capture displayed, or selected.		red to the capture feature cannot be initialized,	
000	Panel Setting 0: Displayed, 1: Not displayed			
002	Displays or does not display the capture function buttons.			

	5836-71 to 5836-78, Copier and Printer Document Reduction				
	The following 6 SP modes set the default reduction for stored documents sent to the document management server via the MLB.				
	Enabled only when optional MLB (Media Link Board) is installed.				
071	Reduction for Copy Color	Color 0: 1to-1, 1: 1/2, 2: 1/3 , 3: 1/4			
072	Reduction for Copy B&W Text	0: 1to-1 , 1: 1/2, 2: 1/3, 3: 1/4, 6: 2/3			
073	Reduction for Copy B&W Other	0: 1to-1 , 1: 1/2, 2: 1/3, 3: 1/4, 6: 2/3			
074	Reduction for Printer Color	0: 1to-1, 1: 1/2, 2: 1/3 , 3: 1/4			
075	Reduction for Printer B&W	0: 1to-1 , 1: 1/2, 2: 1/3, 3: 1/4, 6: 2/3			
076	Reduction for Printer B&W HQ	0: 1to-1 , 1: 1/2, 2: 1/3, 3: 1/4			
077	Reduction for Printer Color 1200	1: 1/2, 3: 1/4, 4: 1/6 , 5: 1/8 (2: skipped), 6: 2/3			
078	Reduction for Printer B&W 1200	1: 1/2, 3: 1/4, 4: 1/6, 5: 1/8 (2: skipped), 6: 2/3			
	5836-81 to 5836-86, Stored document format				
	The following 6 SP modes set Sets the default format for stored documents sent to the document management server via the MLB.				
	Enabled only when optional MLB (Media L	ink Board) is installed.			
		0: JFIF/JPEG, 1: TIFF/MMR,			
001		2: TIFF/MH, 3: TIFF/MR			
081	Format for Copy Color	↓ Note			
		This SP is not used in this model.			
082	Format for Copy B&W Text	O: JFIF/JPEG, 1: TIFF/MMR,			
002	Tomidi Tol Copy Bavv Text	2: TIFF/MH, 3: TIFF/MR			
002	Farment Carry D. 8. M. Other	O: JFIF/JPEG, 1: TIFF/MMR,			
083	Format Copy B&W Other	2: TIFF/MH, 3: TIFF/MR			
		O: JFIF/JPEG, 1: TIFF/MMR,			
084	Format for Printer Color	2: TIFF/MH, 3: TIFF/MR			
004		Note			
		This SP is not used in this model.			

085	Format for Printer B&W		O: JFIF/JPEG, 1: TIFF/MMR,	
			2: TIFF/MH, 3: TIFF/MR	
086	Format for Printer B&W HQ		0: JFIF/JPEG, 1: TIFF/MMR,	
080	roimation filmer bavy fig		2: TIFF/MH, 3: TIFF/MR	
	Default for JPEG		[5 to 95 / 50 / 1 /step]	
091	the MLB with JPEG selected	as the format.	sent to the document management server via	
	Enabled only when optiona	l MLB (Media L	.ink Board) is installed.	
101	Primary srv IP address		dress for the primary capture server. This is usted by the remote system.	
102	Primary srv scheme	This is basical	ly adjusted by the remote system.	
103	Primary srv port number	This is basical	ly adjusted by the remote system.	
104	Primary srv URL path	This is basical	ly adjusted by the remote system.	
111	Secondary sry IP address		dress for the secondary capture server. This is usted by the remote system.	
112	Secondary srv scheme	This is basical	ly adjusted by the remote system.	
113	Secondary srv port number	This is basical	ly adjusted by the remote system.	
114	Secondary srv URL path	This is basical	ly adjusted by the remote system.	
120	Default Reso Rate Switch	This is basical	ly adjusted by the remote system.	
	Reso: Copy (Color)	[0 to 3 / 2 / 1/step]		
121	Selects the resolution for color copy mode. This is basically adjusted by the remote syste			
	0: 600dpi/ 1: 300dpi/ 2:	/ 1: 300dpi/ 2: 150dpi/ 3: 75dpi		
	Reso: Copy (Mono)	[0 to 5 / 3 /	l/step]	
122		elects the resolution for BW copy mode. This is basically adjusted by the remote sy 600dpi/ 1: 400dpi/ 2: 300dpi/ 3: 200dpi/ 4: 150dpi/ 5: 100dpi		

	i	i .				
	Reso: Print (Color)	This is basically adjusted by the remote system. [0 to 3 / 2 / 1/step]				
123	Selects the resolution for col	Selects the resolution for color print mode. This is basically adjusted by the remote system.				
	0: 600dpi/ 1: 300dpi/ 2:	150dpi/ 3: 75dpi				
104	Reso: Print (Mono)	This is basically adjusted by the remote system. [0 to 5 / 3 / 1/step]				
124		V print mode. This is basically adjusted by the remote system. 300dpi/ 3: 200dpi/ 4: 150dpi/ 5: 100dpi				
	Reso: Fax (Color)	This is basically adjusted by the remote system. [0 to 6 / 4 / 1/step]				
125		lor fax mode. This is basically adjusted by the remote system. 300dpi/ 3: 200dpi/ 4: 150dpi/ 5: 100dpi/ 6: 75dpi				
126	Reso: Fax (Mono)	This is basically adjusted by the remote system. [0 to 6 / 3 / 1/step]				
	Selects the resolution for BW fax mode. This is basically adjusted by the remote system 0: 600dpi/ 1: 400dpi/ 2: 300dpi/ 3: 200dpi/ 4: 150dpi/ 5: 100dpi/ 6: 75dpi					
	Reso: Scan (Color)	This is basically adjusted by the remote system. [0 to 6 / 4 / 1/step]				
127	Selects the resolution for color scanning mode. This is basically adjusted by the remote system.					
	0: 600dpi/ 1: 400dpi/ 2: 300dpi/ 3: 200dpi/ 4: 150dpi/ 5: 100dpi/ 6: 75dpi					
	Reso: Scan (Mono)	This is basically adjusted by the remote system. [0 to 6 / 3 / 1/step]				
128	Selects the resolution for BW scanning mode. This is basically adjusted by the remote system.					
	0: 600dpi/ 1: 400dpi/ 2:	300dpi/ 3: 200dpi/ 4: 150dpi/ 5: 100dpi/ 6: 75dpi				
141	All Addr Info Switch	[0 or 1 / 1 / -] 0: Off, 1: On				
•	Turns on or off the all address information transmission for the captured resources.					

Stand-by Doc Max
Number

[10 to 10000 / 2000 / 1/step]

Selects the maximum number of captured documents to be transmitted to the document server.

5840	[IEEE 802.11]				
	Channel Max	*CTL	[1 to 11 or 13 / 11 or 13 / 1 /step] Europe/Asia: 1 to 13 NA/ Asia: 1 to 11		
006	Sets the maximum number of channels available for data transmission via the wireless LAN. The number of channels available varies according to location. The default settings are set for the maximum end of the range for each area. Adjust the upper 4 bits to set the maximum number of channels. DFU • Note • Do not change the setting.				
	Channel Min	*CTL	[1 to 11 or 13 / 1 / 1 / step] Europe: 1 to 13 NA/ Asia: 1 to 11		
007	Sets the minimum number of channels available for data transmission via the wireless LAN. The number of channels available varies according to location. The default settings are set for the minimum end of the range for each area. Adjust the lower 4 bits to set the minimum number of channels. DFU				
	NoteDo not change the setting.				

			[0 x 00 to 0 x FF / 0 x FF to Auto / -]
			0 x FF to Auto [Default]
			0 x 11 – 55M Fix
			0 x 10 – 48M Fix
			0 x 0F – 36M Fix
			0 x 0E – 18M Fix
			0 x 0D – 12M Fix
008	Transmission Speed	*CTL	0 x OB – 9M Fix
			0 x 0A – 6M Fix
			0 x 07 – 11M Fix
			0 x 05 – 5.5M Fix
			0 x 08 – 1M Fix
			0 x 13 – 0 x FE (reserved)
			0 x 12 – 72M (reserved)
			0 x 09 – 22M (reserved)
			Selects the WEP key.
			[00 to 11 / 00 / 1 binary]
			00: Key #1
011	WEP key Select	*CTL	01: Key #2 (Reserved)
			10: Key #3 (Reserved)
			11: Key #4 (Reserved)
			Adjusts the fragment threshold for the IEEE802.11
			card.
042	Fragment Thresh	*CTL	[256 to 2346 / 2346 / 1]
			This SP is displayed only when the IEEE802.11
			card is installed.
			Determines whether the CTS self function is turned
			on or off.
043	1g CTS to Self	*CTL	[0 to 1 / 1 / 1] 0: Off, 1: On
			This SP is displayed only when the IEEE802.11
			card is installed.
044	11g Slot Time	*CTL	Selects the slot time for IEEE802.11.
5-1-4	gg		[0 to 1 / 0 / 1] 0: 20 µm, 1: 9 µm

045	WPA Debug Lvl	*CTL	Selects the debug level for WPA authentication application. [1 to 3 / 3 / 1] 1: Info, 2: warning, 3: error This SP is displayed only when the IEEE802.11 card is installed.
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5841	[Supply Name Setting]					
001	Toner Name Setting: Black					
002	Toner Name Setting: Cyan	*CTL				
003	Toner Name Setting: Yellow					
004	Toner Name Setting: Magenta		Specifies supply names. These appear on the			
007	OrgStamp		screen when the user presses the Inquiry button in the user tools screen.			
011	Staple Std 1					
012	Staple Std2					
013	Staple Std3					
014	Staple Std4					

5842	[GWWS Analysis Mode] DFU			
001	Setting 1	*CTL	Default: 00000000 – do not change Netfiles: Jobs to be printed from the document server using a PC and the DeskTopBinder software	
002	Setting 2	*CTL	Adjusts the debug program modesetting. Bit7: 5682 mmseg-log setting O: Date/Hour/Minute/Second 1: Minute/Second/Msec. O to 6: Not used	

[USB]				
	[USB]	[USB]	[USB]	[USB]

001	Transfer Rate	*CTL	0x01: Full speed 0x04: Auto Change		
	Adjusts the USB transfer rate.				
002	Vendor ID	*CTL	Displays the vendor ID. DFU		
003	Product ID	*CTL	Displays the product ID. DFU		
004	Device Release Number	*CTL	Displays the development release version number. DFU		
006	PnP Model Name	*CTL	Inputs the model name.		
007	PnP Serial Number	*CTL	Inputs the serial number.		
100	Notify Unsupport	*CTL	[0 or 1 / 1 / -] 0: Disable, 1: Enable		
	Enables or disables the unsu	pported	USB display.		

5845	[Delivery Server Setting]	*CTL		
3843	Provides items for delivery server settings.			
001	FTP Port No.		[0 to 65535 / 3670 / 1 /step]	
001	Sets the FTP port number used	d when	image files to the Scan Router Server.	
	IP Address (Primary)		Range: 000.000.000.000 to 255.255.255.255	
Use this SP to set the Scan Router Server address. The IP address und be referenced by the initial system setting.				
	Delivery Error Display Time		[0 to 999 / 300 / 1 second /step]	
006	Use this setting to determine the length of time the prompt message is displayed when a test error occurs during document transfer with the NetFile application and an external device.			
	IP Address (Secondary)	s (Secondary) Range: 000.000.000 to 255.255.255.255		
008	Specifies the IP address assigned to the computer designated to function as the secondary delivery server of Scan Router. This SP allows only the setting of the IP address without reference to the DNS setting.			

	Delivery Server Model	[0 to 4/0/1/step]			
	Allows changing the model of the delivery server registered by the I/O device.				
	0: Unknown				
009	1: SG1 Provided				
	2: SG1 Package				
	3: SG2 Provided				
	4: SG2 Package				
	Delivery Svr Capability	[0 to 255 / 0 / 1 /step]			
	Changes the capability of the regi	stered that the I/O device registered.			
	Bit7 = 1 Comment information exit	ts			
	Bit6 = 1 Direct specification of ma				
010	Bit5 = 1 Mail RX confirmation setting possible				
010	Bit4 = 1 Address book automatic update function exists				
	Bit3 = 1 Fax RX delivery function exists				
	Bit2 = 1 Sender password function exists				
	Bit1 = 1 Function to link MK-1 user and Sender exists				
	BitO = 1 Sender specification requ				
	Delivery Svr Capability (Ext)	[0 to 255 / 0 / 1 /step]			
	Changes the capability of the registered that the I/O device registered.				
011	Bit7 = 1 Address book usage limitation (Limitation for each authorized user)				
	Bit6 = 1 RDH authorization link				
	Bit5 to 0: Not used				
013	Server Scheme (Primary) DFU				
013	This is used for the scan router program.				
014	Server Port Number (Primary) DFL	J			
014	This is used for the scan router program.				

015	Server URL Path (Primary) DFU
013	This is used for the scan router program.
016	Server Scheme (Secondary) DFU
010	This is used for the scan router program.
017	Server Port Number (Secondary) DFU
017	This is used for the scan router program.
018	Server URL Path (Secondary) DFU
018	This is used for the scan router program.
	Rapid Sending Control
022	Enables or disables the prevention function for the continuous data sending error.
	[0 to 1 / 0 / -]
	0: Disable, 1: Enable

5846	[UCS Settings]	*CTL	-		
	Machine ID (For Delivery Server)			Displays ID	
001	Displays the unique device ID in use by the delivery server directory. The value is only displayed and cannot be changed. This ID is created from the NIC MAC or IEEE 1394 EUI. The ID is displayed as either 6-byle or 8-byte binary.			om the NIC MAC or IEEE 1394	
	Machine ID Clear (For Delive	ry Serve	r)	Clears ID	
002	Clears the unique ID of the device used as the name in the file transfer directory. Execute this SP if the connection of the device to the delivery server is unstable. After clearing the ID, the ID will be established again automatically by cycling the machine off and on.			ver is unstable. After clearing the	
	Maximum Entries	[2	[2000 to 20000/ 2000 / 1 /step]		
003	Changes the maximum number of entries that UCS can handle. If a value smaller than the present value is set, the UCS managed data is cleared, and the data (excluding user code information) is displayed.				
	Delivery Server Retry Timer			[0 to 255 / 0 / 1 /step]	
006	Sets the interval for retry attempts when the delivery server fails to acquire the delivers server address book.			ver fails to acquire the delivery	

	Delivery Server Retry Times		[0 to 255 / 0 / 1 /step]	
007	Sets the number of retry attempts when the delivery server fails to acquire the delivery server address book.			
008	Delivery Server Maximum Entries		[2000 to 50000 / 2000 / 1/ step]	
008	Sets the maximum number account entries of by UCS.	the delivery	server user information managed	
010	LDAP Search Timeout	[1 to 255 ,	/ 60 / 1 /step]	
010	Sets the length of the timeout for the search of	of the LDAP :	server.	
000	WSD Maximum Entries	[5 to 250]	/ 250 / 1 /step]	
020	Sets the maximum entries for the address bo	ok of the W	SD (WS-scanner).	
040	Addr Book Migration (USB => HDD)			
040	Not used in this machine.			
	Fill Addr Acl Info.			
	This SP must be executed immediately after installation of an HDD unit in a basic machine that previously had no HDD. The first time the machine is powered on with the new HDD installed, the system automatically takes the address book from the NVRAM and writes it onto the new HDD. However, the new address book on the HDD can be accessed only by the system administrator at this stage. Executing this SP by the service technician immediately after power on grants full address book access to all users.			
041	Procedure			
041	Turn the machine off. Install the new HDD.			
	3. Turn the machine on.			
	4. The address book and its initial data are created on the HDD automatically.			
	5. However, at this point the address book can be accessed by only the system administrator or key operator.			
	6. Enter the SP mode and do SP5846 041. After this SP executes successfully, any user can access the address book.			

		Displays the slot number where an address book data is in. [0 to 30 / - /1]		
		0: Unconfirmed		
		1: SD Slot 1		
043	Addr Book Media			
		2: SD Slot 2		
		4: USB Flash ROM		
		20: HDD		
		30: Nothing		
047	Initialize Local Addr Book	Clears the local address book information, including the user code.		
048	Initialize Delivery Addr Book	Clears the distribution address book information, except the user code.		
049	Initialize LDAP Addr Book	Clears the LDAP address book information, except the user code.		
050	Initialize All Addr Book	Clears all directory information managed by UCS, including all user codes.		
051	Backup All Addr Book	Uploads all directory information to the SD card.		
052	Restore All Addr Book	Downloads all directory information from the SD card.		
		Deletes the address book data from the SD card in the service slot.		
		Deletes only the files that were uploaded from this machine.		
	Clear Backup Info	This feature does not work if the card is write-protected.		
053		♦ Note		
		After you do this SP, go out of the SP mode, and then turn the power off.		
		Do not remove the SD card until the Power LED stops flashing.		

	Search Option				
	This SP uses bit switches to set up the fuzzy search options for the UCS local address book.				
	Bit: Meaning				
060	0: Checks both upper/lower case	characters			
	1: Japan Only				
	2: Japan Only				
	3: Japan Only				
	4 to 7: Not Used				
	Complexity Option 1				
	Use this SP to set the conditions for password entry to access the local address book. Specifically, this SP limits the password entry to upper case and sets the length of the password.				
062	[0 to 32 / 0 / 1 /step]				
	Note				
	This SP does not normally require adjustment.				
	 This SP is enabled only after the system administrator has set up a group password policy to control access to the address book. 				
063	Complexity Option 2 DFU				
064	Complexity Option 3 DFU				
065	Complexity Option 4 DFU				
091	FTP Auth Port Setting	Specifies the FTP port for getting a distribution server address book that is used in the identification mode. [0 to 65535 / 3671 / 1 /step]			
094	Encryption Stat	Shows the status of the encryption function for the address book data.			

	[Rep Resolution Reduction]	*CTL	-	
	5847 1 through 5847 8 changes the default settings of image data transferred externally by the Net File page reference function.			
5847	[0 to 5 / 2 / 1 /step]			
	5847 21 sets the default for JPEG im	nage qua	ality of image files handled by NetFile.	
	"Net files" are jobs to be printed from DeskTopBinder software.	n the doc	cument server using a PC and the	
001	Rate for Copy Color		0: 1x	
002	Rate for Copy B&W Text		1: 1/2x	
003	Rate for Copy B&W Other		2: 1/3x	
004	Rate for Printer Color		3: 1/4x	
			4: 1/6x	
005	Rate for Printer B&W		5: 1/8x	
			0: 1x	
			1: 1/2x	
006	Rate for Printer Color 1200dpi		2: 1/3x	
	Raic for Filling Color 1200api		3: 1/4x	
			4: 1/6x	
			5: 1/8x	
			0: 1x	
			1: 1/2x	
007	Rate for Printer B&W 1200dpi		2: 1/3x	
007			3: 1/4x	
			4: 1/6x	
			5: 1/8x	
	Network Quality Default for JPEG			
021	Sets the default value for the quality of JPEG images sent as NetFile pages. This function is available only with the MLB (Media Link Board) option installed.			
	[5 to 95 / 50 / 1 /step]			
	1			

	[Web Service]	*CTL -		
5848	5848 2 sets the 4-bit switch assignment for the access control setting. Setting of 0001 no effect on access and delivery from Scan Router.			
	5848 100 sets the maximum size of to 1 gigabyte.	maximum size allowed for downloaded images. The default is equal		
		0000: No access control		
002	Access Ctrl: Repository (only Lower 4 bits)	0001: Denies access to DeskTop Binder.		
	·	0010: No writing control		
003	Access Control: Doc. Svr. Print (Lower 4 bits)			
004	Access Control: User Directory (only Lower 4 bits)			
007	Access Ctrl: Comm. Log Fax (Lower 4 bits)	Switches access control on and off.		
009	Access Ctrl: Job Ctrl (Lower 4 bits)	0000: No access control		
011	Access Ctrl: Device management (Lower 4 bits)	0001: Denies access to DeskTop Binder.		
021	Access Ctrl: Delivery (Lower 4 bits)			
022	Access Ctrl: uAdministration (Lower 4bits)			
099	Repository: Download Image Setting	DFU		
100	Repository: Download Image Max. Size	Specifies the max size of the image data that the machine can download.		
	Max. Size	[1 to 1024 / 1024 / 1 MB /step]		

210	Setting: LogType: Job1	
211	Setting: LogType: Job2	
212	Setting: LogType: Access	
213	Setting: Primary Srv	NIA
214	Setting: Secondary Srv	NIA
215	Setting: Start Time	
216	Setting: Interval Time	
217	Setting: Timing	

5849	[Installation Date]	*CTL	-
5849 1	Display		nter Clear Day" has been changed to on Date" or "Inst. Date".
	Switch to Print		es whether the installation date is printed on ut for the total counter.
5849 2		[0 or 1 /	1 / -]
		0: OFF (N	lo Print)
		1: ON (Pr	int)
003	Total Counter	-	

5850	[Address Book Function]	*CTL	-
	Replacement of Circuit Classification Japan Only		
003	,	4 line. Cor	e. This SP allows you to switch all at once oversely, if for some reason the G4 line k to G3.

	[Bluetooth Mode]
5851	Sets the operation mode for the Bluetooth Unit. Press either key.
	[O:Public] [1: Private]

[Stamp Data Download] Use this SP to download the fixed stamp data stored in the firmware of the ROM and copy it to the HDD. This SP can be executed as many times as required. This SP must be executed after replacing or formatting the hard disks. • Note • This SP can be executed only with the hard disks installed.

[Remote ROM Update]

5856	Allows the technician to upgrade the firmware using a local port (IEEE1284) when updating the remote ROM.			
002	Local Port	*CTL	[0 to 1 / 0 / 1/step] 0: Disable 1: Enable	
5857	[Save Debug Log]	*CTL	-	
	On/Off (1:ON 0:OFF)	0 : OFF,	1: ON	
001	Switches the debug log feature on and off. The debug log cannot be captured until this feature is switched on.			
	Target (2: HDD 3: SD)	2: HDD, 3: SD Card		
002	Selects the storage device to save debug logs information when the conditions set with SP5-858 are satisfied. [2 to 3 / 2 / 1 / step]			
	Save to HDD			
005	Saves the debug log of the input SC number in memory to the HDD. A unique file name is generated to avoid overwriting existing file names on the SD Card. Up to 4MB can be copied to an SD Card. 4 MB segments can be copied one by one to each SD Card.			
007	Save to SD Card			
006	Saves the debug log of the input SC number in memory to the SD card.			
009	Copy HDD to SD Card (Latest 4 MB)			
010	Copy HDD to SD Card (Latest 4 MB Any Key)			

011	Erase HDD Debug Data	
012	012 Erase SD Card Debug Data	
013	Free Space on SD Card	
014	Copy SD to SD (Latest 4 MB)	
015	Copy SD to SD (Latest 4 MB Any Key)	
016	Make HDD Debug	
017	Make SD Debug	

	[Debug Save When]	*CTL	-	
5858	selected by SP5857-002.	ging information to be saved to the destination nber. Refer to Section 4 for a list of SC error codes.		
001	Engine SC Error	Turns on/off the debug save for SC codes generated by copier engine errors. [0 or 1 / 0 / 1 / step] 0: OFF, 1: ON		
002	Controller SC Error	Turns on/off the debug save for SC codes generated by GW controller errors. [0 or 1 / 0 / 1 / step] 0: OFF, 1: ON		
003	Any SC Error	[0 to 65535 / 0 / 1 /step]		
004	Jam	·	'off the debug save for jam errors. 0 / 1 / step] : ON	

5859	[Debug Save Key No.]	*CTL	-
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001	Key 1	
002	Key 2	
003	Key 3	
004	Key 4	
005	Key 5	These SPs allow you to set up to 10 keys for log files for functions that use common memory on the controller board.
006	Key 6	[-9999999 to 9999999 / 0 / -]
007	Key 7	
008	Key 8	
009	Key 9	
010	Key 10	

5860	[SMTP/POP3/IMAP4]	*CTL	-	
020	Partial Mail Receive Timeout			[1 to 168 / 72 / hour/step]
		ount of time to wait before saving a mail that breaks up during reception. The ail is discarded if the remaining portion of the mail is not received during this time.		
021	MDN Response RFC2298 Compliance [0 to 1 / 1 / -]			
	O: No 1: Yes			
022	SMTP Auth. From Field Replacement [0 to 1 / 0 / -]			
	Determines whether the FROM item of the mail header is switched to the validated accourt after the SMTP server is validated. O: No. "From" item not switched. 1: Yes. "From item switched.			
025	SMTP Auth. Direct Setting			[0 or 1 / 0 / -]

Selects the authentication method for SMPT.

Bit switch:

- Bit 0: LOGIN
- Bit 1: PLAIN
- Bit 2: CRAM MD5
- Bit 3: DIGEST MD5
- Bit 4 to 7: Not used



• This SP is activated only when SMTP authorization is enabled by UP mode.

			Selects the MIME header type of an E-mail sent by S/MIME.
O26 S/MIVE: MIME Header Setting		[0 to 2 / 0 / 1]	
	-	0: Microsoft Outlook Express standard	
			1: Internet Draft standard
			2: RFC standard

5866	[E-mail Alert] Not Used		
001	Report Validity	*CTL	Enables or disables the e-mail alert. [0 or 1 / 0 / -] 0: Enable, 1: Disable
005	Add Date Field	*CTL	Adds or does not add the date field to the header of the alert mail. [0 or 1 / 0 / -] 0: Not added, 1: Added

5870	[Common Key Info Writing]		
001	Writing	*CTL	Writes to flash ROM the common proof for validating the device for @Remote specifications.
003	Initializing	*CTL	Initializes the data area of the common proof for validating.

5873	[SD Card Appli Move]
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001	Move Exec	This SP copies the application programs from the original SD card in SD card slot 3 to an SD card in SD card slot 1 or 2 (slot 1 has the priority to be copied).
002	Undo Exec	This SP copies back the application programs from an SD card in SD Card Slot 3 to the original SD card in SD card slot 1 or 2 (slot 1 has the priority to be copied). Use this menu when you have mistakenly copied some programs by using "Move Exec" (SP5873-1).

5875	[SC Auto Reboot]				
			Enables or disables the automatic reboot function when an SC error occurs. [0 or $1/0/-$]		
001	Reboot Setting	*CTL	O: The machine reboots automatically when the machine issues an SC error and logs the SC error code. If the same SC occurs again, the machine does not reboot.		
			The machine does not reboot when an SC error occurs. The reboot is not executed for Type A or C SC codes.		
002	Reboot Type	*CTL	Selects the reboot method for SC. [0 or 1 / 0 / -] 0: Manual reboot, 1: Automatic reboot		

5878	[Option Setup]		
001	Data Overwrite Security	-	Enables the Data Overwrite Security unit. Press "EXECUTE" on the operation panel. Then turn the machine off and on.
002	HDD Encryption	-	Installs the HDD Encryption unit.

5881	[Fixed Phrase Block Erasing]		
001	-	-	Deletes the fixed phrase.

5883	[Line Speed Selection]
3663	Selects the line speed for middle thick paper.

			[0 or 1 / 1 / 1 /step]
001	Middle Thick	*ENG	0: MID CARD: Half Speed
			1: MID CARD: Normal Speed

[Set WIM Function] Web Image Monitor Settings			ettings
3883	Close or disclose the functions of web image monitor.		
020	Document Server ACC Ctrl	*CTL	O: OFF, 1: ON Bit Meaning O: Forbid all document server access (1) 1: Forbid user mode access (1) 2: Forbid print function (1) 3: Forbid fax TX (1) 4: Forbid scan sending (1) 5: Forbid downloading (1) 6: Forbid delete (1) 7: Reserved
050	Document Server List Def. Style	*CTL	Selects the display type for the document box list. [0 to 2 / 0 / 1] 0: Thumbnail, 1: Icon, 2: Details
051	Document Server List Def. Lines	*CTL	Sets the number of documents to be displayed in the document box list. [5 to 20 / 10 / 1]
100	Signature Setting	*CTL	Selects whether the signature is added to the scanned documents with the WIM when they are transmitted by an e-mail. [0 to 2 / 0 / 1/step] 0: Setting for each e-mail 1: Signature for all 2: No signature

101	Set Encryption	*CTL	Determines whether the scanned documents with the WIM are encrypted when they are transmitted by an e-mail. [0 to 1 / 0 / 1] 0: Not encrypted, 1:Encryption
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5007	[SD Get Counter]			
5887	This SP determines whether the ROM can be updated.			
001	_ *	*CTL	This SP sends a text file to an SD card inserted in SD card Slot 2 (lower slot). The operation stores. The file is stored in a folder created in the root directory of the SD card called SD_COUNTER. The file is saved as a text file (*.txt) prefixed with the number of the machine. 1. Insert the SD card in SD card Slot 2 (lower slot). 2. Select SP5887 then touch [EXECUTE]. Touch [Execute] in the message when you are prompted.	

5888	[Personal Information Protect]		
001	-	*CTL	Selects the protection level for logs. [0 to 1 / 0 / 1} 0: No authentication, No protection for logs 1: No authentication, Protected logs (only an administrator can see the logs)

5893	[SDK Application Counter]	*CTL	-		
3093	Displays the counter name of each SDK application.				
001	SDK-1				
002	SDK-2				
003	SDK-3				
004	SDK-4				

005	SDK-5
006	SDK-6

5894		[Test Name1]				
	3094	-				
	001	Test Name 1_1	*ENG	[0 to 2 / 0 / 1/step]		

	[Application Invalidation]			
5895	Enables or disables the printer or scanner application. These SPs are used only when an external controller is installed in the machine.			
001	Printer	*CTL	[0 or 1 / 0 / -]	
002	Scanner	*CTL	0: Enable 1: Disable	

5907 [F	[Plug & Play Maker/Model Name]
is	Selects the brand name and the production name for Windows Plug & Play. This information is stored in the NVRAM. If the NVRAM is defective, these names should be registered again. After selecting, press the "Original Type" key and "#" key at the same time. When the setting is completed, the beeper sounds five times.

	5913	[Switchover Permission Time]		
ĺ	002	Print Application Timer	*CTL	[3 to 30 / 3 / 1 second /step]
		Sets the amount of time to elapse while the machine is in standby mode (and the operation panel keys have not been used) before another application can gain control of the display.		

5967	[Copy Server Set Function]	*CTL	0 : ON, 1: OFF
	Enables and disables the document ser data from being left in the temporary ar switch the main switch off and on to end	ea of the H	DD. After changing this setting, you must

5074	[Cherry Server]				
5974	Specifies which version of ScanRouter, "Lite" or "Full", is installed.				
001	Cherry Server	*CTL	[0 or 1 / 0 / -] 0: Lite 1: Full		

		[Device Setting]		
	The NIC and USB support features are built into the GW controller. Use this SP and disable these features. In order to use the NIC and USB functions built into the board, these SP codes must be set to "1".			
			[0 to 2 / 0 / 1 /step] 0: Disable, 1: Enable, 2: Function limitation	
		On Board NIC	When the "Function limitation" is set, "On board NIC" is limited only for the NRS or LDAP/NT authentication.	
	001		U Note	
			Other network applications than NRS or LDAP/NT authentication are not available when this SP is set to "2". Even though you can change the initial settings of those network applications, the settings do not work.	
	002	On Board USB	[0 or 1 / 0 / 1/step] 0: Disable, 1: Enable	

5987	[Mech. Counter]	
001	0: OFF / 1: ON	This SP detects that a mechanical counter device is removed. If it is detected, SC610 occurs.

5990	[SP print mode]
3990	Prints out the SMC sheets.

001	All (Data List)	-
002	SP (Mode Data List)	-
003	User Program	-
004	Logging Data	-
005	Diagnostic Report	-
006	Non-Default	-
007	NIB Summary	-
800	Capture Log	-
021	Copier User Program	-
022	Scanner SP	-
023	Scanner User Program	-
024	SDK/J Summary	-
025	SDK/J Application Info	-

5998	[Fusing Cont mode] Fusing Control Mode			
3990	Turns the silent fusing warm-up mode on or off.			
001	001 fast/silent *ENG 0: Silent (less noise) 1: Fast (less time)			
	Turns on or off the fusing unit preceding mode. The machine turns on the fusing unit first by default after power-on or recovery from the energy save mode. If a customer does not want the fusing unit to rotate before sending a job to the machine, change this setting to "O". In this case, the first print time or recovery time may be little bit longer than before.		y default after power-on or recovery from the to rotate before sending a job to the machine,	

System SP6-xxx

SP6-XXX (Peripherals)

6006	[ADF Adj.] ADF Adjustment		
	Adjusts the side-to-side and leading registration of originals with the ARDF.		
001	Side-to-Side Registration		
002	Side-to-Side Registration (2nd side)	*ENG	[-3.0 to 3.0 / 0 / 0.1 mm/step]
003	Leading Edge Registration		[-5.0 to 5.0 / 0 / 0.1 mm/step]
	Adjusts the amount of paper buckle to correct original skew for the front and rear sides.		
005	Buckle: Duplex Front	*5510	[-3.0 to 3.0 / 0 / 0.1 mm/step]
006	Buckle: Duplex Rear	*ENG	[-2.5 to 2.5 / 0 / 0.1 mm/step]
	Adjusts the erase margin at the original trailing edge.		
007	Rear Edge Erase	*ENG	[-10 to 10 / 0 / 0.1 mm/step]

	[ADF Input Check]
6007	Displays the signals received from the sensors and switches of the ARDF. Only Bit 0 is used for ADF input check (*** p.392 "Input and Output Check").

	[ADF Output Check]
6008	Activates the electrical components for functional check. It is not possible to activate more than one component at the same time (**p.392 "Input
	and Output Check").

4000	[ADF Free Run]
6009	Performs a DF free run in simplex, duplex mode or stamp mode.

001	Free Run Simplex Motion	-	
002	Free Run Duplex Motion	-	-
003	Free Run Stamp Motion	-	

	6010	[Stamp Position Adj.] Fax Stamp Position Adjustment			
6010	Adjusts the horizontal position of the stamp on the scanned originals.				
	60101	Stamp Position Adj.	*ENG	[-5.0 to 5.0 / 0 / 1 mm/step]	

6011	[1-Pass ADF INPUT Check] Not used
6012	[1-Pass ADF OUTPUT Check] Not used

6016	[Original Size Detection Priority] Original Size Detection Priority				
	Specifies the original size for a size detected by the original sensor, since original sensors cannot recognize all sizes.				
	Original Size Detection Priority	*ENG	[0 or 1 / 0 / -] 0: Setting 1, 1: Setting 2		
		NA	Setting 1	Setting 2	
			DLT SEF	Folio SEF 11" x 15"	
			LG SEF	Foolscap SEF	
001			LT SEF	US EXE 8" x 10"	
			LT LEF	US EXE LEF	
		EU/ ASIA	DLT SEF	8K 267 x 390 mm	
			LT SEF	16K 195 x 267 mm	
			LT LEF	16K 267 x 195 mm	

		[DF Magnification Adj.] DF Magnification Adjustment			
6017	Adjusts the magnification in the sub-scan direction for the ARDF.				
	001	DF Magnification Adj.	*CTL	[-5.0 to 5.0 / 0 / 0.1 %/step]	

6020	[Skew Correction Moving Setting]			
	Turns the original skew correction in the ARDF for all original sizes on or off.			
001	-	*ENG	[0 or 1 / 0 / -] 0: Off (only for small original sizes) 1: On (for all original sizes)	

6128	[Punch Position: Sub Scan]				
0120	Adjusts the punching position in the sub scan direction.				
001	Domestic (Japan) 2Hole	*ENG			
002	North America 3Hole	*ENG			
003	Europe 4Hole	*ENG	[-7.5 to 7.5 / 0 / 0.5 mm/step]]		
004	North Europe 4Hole	*ENG			
005	North Europe 2Hole	*ENG			

	[Punch Position: Main Scan]				
6129	Adjusts the punching position in the main scan direction.				
001	Domestic (Japan) 2Hole	*ENG			
002	North America 3Hole	*ENG			
003	Europe 4Hole	*ENG	[-2.0 to 2.0 / 0 / 0.4 mm/step]]		
004	North Europe 4Hole	*ENG			
005	North Europe 2Hole	*ENG			

6130	[Skew Correction: Buckle Adj.]
	Adjusts the paper buckle for each paper size.

001	АЗТ	*ENG	
002	B4T	*ENG	
003	A4T	*ENG	
004	A4Y	*ENG	
005	B5T	*ENG	
006	B5Y	*ENG	[50to 50 / 0 /0 25 mm /ston]]
007	DLT-T	*ENG	[-5.0 to 5.0 / 0 / 0.25 mm/step]]
008	LG-T	*ENG	
009	LT-T	*ENG	
010	LT-Y	*ENG	
011	12" x 18"	*ENG	
012	Other	*ENG	

6131	[Skew Correction Control]			
	0131	Selects the skew correction control for each paper size. These are only activated for B793.		

001	A3T	*ENG	
002	B4T	*ENG	
003	A4T	*ENG	
004	A4Y	*ENG	
005	B5T	*ENG	
006	B5Y	*ENG	[0 or 1 / 1 / 1/step]]
007	DLT-T	*ENG	0: No (No skew correction) 1: Roller Stop Skew Correction
800	LG-T	*ENG	·
009	LT-T	*ENG	
010	LT-Y	*ENG	
011	12" x 18"	*ENG	
012	Other	*ENG	

	[Jogger Fence Fine Adj]
6132	This SP adjusts the distance between the jogger fences and the sides of the stack on the finisher stapling tray in the Booklet Finisher B793. The adjustment is done perpendicular to the direction of paper feed.

001	A3T	*ENG	
002	B4T	*ENG	
003	A4T	*ENG	
004	A4Y	*ENG	
005	B5T	*ENG	[-1.5 to 1.5 / 0 / 0.5 mm/step]
006	B5Y	*ENG	+ Value: Increases distance between jogger fences and the sides of the stack.
007	DLT-T	*ENG	- Value: Decreases the distance between the
800	LG-T	*ENG	jogger fences and the sides of the stack.
009	LT-T	*ENG	
010	LT-Y	*ENG	
011	12" x 18"	*ENG	
012	Other	*ENG	

	[Staple Position Adjustment]				
6133	Adjusts the staple position for each finisher (B408/B793/D372). + Value: Moves the staple position to the rear side. - Value: Moves the staple position to the front side.				
	' '				
001	Finisher (B408/B793) *ENG [-3.5 to 3.5 / 0 / 1/step]				

6134	[Saddle Stitch Position Adjustment]
User SP	Use this SP to adjust the stapling position of the booklet stapler when paper is stapled and folded in the Booklet Finisher B793.

001	АЗТ	
002	B4T	[-3.0 to 3.0 / 0 / 0.2 mm/step]
003	A4T	+ Value: Shifts staple position toward the crease.
004	B5T	- Value: Shifts staple position away from the crease.
005	DLT-T	Feed Out
006	LG-T	J
007	LT-T	
008	12" x 18"	$\underbrace{\hspace{1cm}}_{\bigoplus} \longleftarrow \longrightarrow \bigcirc$
009	Other	

6135	[Folder Position Adj.]		
User SP	This SP corrects the B793.	folding position when paper is stapled and folded in the Booklet Finisher	
001	A3T		
002	B4T	[-3.0 to 3.0 / 0 / 0.2 mm/step]	
003	A4T	+ Value: Shifts staple position toward the crease. - Value: Shifts staple position away from the crease.	
004	B5T		
005	DLT-T	Feed Out	
006	LG-T		
007	LT-T	(+) ← → ⊕	
008	12" x 18"		
009	Other		

6136	[Folding Number]		
User SP	Sets the number of times that folding is done in the Booklet Finisher B793.		
001	- [2 to 30 / 2 / 1 time/step]		

6137	[Finisher Free Run]		
0137	These SPs are used only for B793 finisher.		
001	Free Run 1 Free run for paper edge stapling.		
002	Free Run 2 Free run for booklet stapling.		
003	Free Run 3 Shipping free run. Simulates standby conditions during shipping.		
004	Free Run 4 DFU		

6138	[FIN (TIG) INPUT Check] Finisher (B793) Input Check				
	Displays the signals received from sensors and switches of the booklet finisher. (IP p.392 "Input and Output Check")				
6139	[FIN (KIN) INPUT Check] Finisher (B408) Input Check				
	Displays the signals received from sensors and switches of the booklet finisher. (*** p.392 "Input and Output Check")				
6140	[FIN (EUP) INPUT Check] Not used				
6141	[FIN (ELB) INPUT Check] Finisher (D372) Input Check				
	Displays the signals received from sensors and switches of the booklet finisher. (*** p.392 "Input and Output Check")				
6143	[FIN (TIG) OUPUT Check] Finisher (B793) Output Check				
	Displays the signals received from sensors and switches of the booklet finisher. (IP p.392 "Input and Output Check")				
6144	[FIN (KIN) OUPUT Check] Finisher (B408) Output Check				
	Displays the signals received from sensors and switches of the booklet finisher. (*** p.392 "Input and Output Check")				

6145

[FIN (EUP) OUPUT Check] Not used

6146	[FIN (ELB) OUPUT Check] Finisher (D372) Output Check				
	Displays the signals received from sensors and switches of the 500-sheet finisher. (*** p.392 "Input and Output Check")				
	[Max. Pre-	Stack Sheet]		*ENG	Number of Pre-Stack Sheets
6149	This SP sets the number of sheets sent to the pre-stack tray. Note: You may need to adjust this setting or switch it off when feeding thick or slick paper.				
001	- [0 to 3 / 3 / 1 sheet/step]				
	[INPUT Check]				
6150	Displays the signals received from sensors and switches of the bridge unit (D386)/ side tray (D542) (** p.392 "Input and Output Check").				

	[OUTPUT Check]
6151	Displays the signals received from sensors and switches of the bridge unit (D386)/ side tray (D542) (** p.392 "Input and Output Check").

	[INPUT Check]
6152	Displays the signals received from sensors and switches of the shift tray (D388) (p.392 "Input and Output Check").

	[OUTPUT Check]
6153	Displays the signals received from sensors and switches of the shift tray (D388) (**p.392 "Input and Output Check").

	[INPUT Check]
6154	Displays the signals received from sensors and switches of the 1 bin tray (D536) (**p.392 "Input and Output Check").

001 A3T

	i				
	[OUTPUT Check]				
6155	Displays the signals received from sensors and switches of the 1 bin tray (D414) (p.392 "Input and Output Check").				
001	1 bin: Junction Solenoid				
6157	[OUTPUT Check]				
	Not used in this machine				
	[INPUT Check]				
6160	Displays the signals received from sensors and switches of the two-tray paper feed unit (D537), LCT 2000 (D538) and LCT 1200 (D539) (** p.392 "Input and Output Check").				
	[OUTPUT Check]				
6161	Displays the signals received from sensors and switches of the two-tray paper feed unit (D537), LCT 2000 (D538) and LCT 1200 (D539) (** p.392 "Input and Output Check").				
6801	[1-pass Stamp Unit] Not used				
0001					
6830	[Extra Staples] Not used				
4000	[ADF Bottom Plate Setting]				
6900	This SP setting determines when	ther the bot	tom plate lift motor of the of the ADF switches on:		
			[0 or 1 / 0 / -]		
			0: Bottom plate lifts immediately after originals		

*ENG

are set (Default)

pushed.

1: Bottom plate does not lift until [Start] key is

3

System SP7-xxx

SP7-XXX (Data Log)

7401	[Total SC Counter]				
7401	Displays the number of SC codes detected.				
001	SC Counter	*CTL	[0 to 9999 / 0 / 1/step]		

	[SC History]			
7403	Logs the SC codes detected. The 10 most recently detected SC Codes are not displayed on the screen, but can be on the SMC (logging) outputs.			
001	Latest			
002	Latest 1			
003	Latest 2			
004	Latest 3			
005	Latest 4	*CTL		
006	Latest 5	CIL	-	
007	Latest 6			
008	Latest 7			
009	Latest 8			
010	Latest 9			

	[SC991 History]	
7404	Logs the SC991 detected.	
	The 10 most recently detected SC991 are not displayed on the screen, but can be seen on the SMC (logging) outputs.	

001	Latest			
002	Latest 1			
003	Latest 2		*CTL -	
004	Latest 3			
005	Latest 4	*CTL		
006	Latest 5			
007	Latest 6			
800	Latest 7			
009	Latest 8			
010	Latest 9			

7502	7502	[Total Paper Jam Counter]			
7302		Displays the total number of jams detected.			
C	001	Total Jam	* CTL	[0 to 9999 / 0 / 1 sheet/step]	

	7503	[Total Original Jam Counter]			
		Displays the total number of original jams.			
	001	001 Original Jam counter *CTL [0 to 9999 / 0 / 1 orig		[0 to 9999 / 0 / 1 original/step]	

7504	[Paper Jam Location]	
	ON: On check, OFF: Off Check	
	Displays the number of jams according to the location where jams were detected.	
	NOTE: The LCT is counted as the 3rd feed station.	

001	At Power On	*CTL	
003	Tray 1: ON	*CTL	
004	Tray 2: ON	*CTL	
005	Tray 3: ON	*CTL	
006	Tray 4: ON	*CTL	For details, (III")Jam Detection" in the
007	LCT : ON	*CTL	"Main Chapters: Jam Detection" section.)
008	Bypass: ON	*CTL	
009	Duplex: ON	*CTL	
011	Vertical Transport 1: ON	*CTL	
012	Vertical Transport 2: ON	*CTL	
013	Bank: Transport Sn 1	*CTL	
014	Bank: Transport Sn2	*CTL	
017	Registration: ON	*CTL	
018	Fusing Entrance: ON	*CTL	
019	Fusing Exit: ON	*CTL	For details, ("Jam Detection" in the "Main Chapters: Jam Detection" section.)
020	Paper Exit: ON	*CTL	
021	Bridge Exit: ON	*CTL	
022	Bridge Transport: ON	*CTL	
024	Junction Gate Sensor : On	*CTL	

025	Duplex Exit: ON	*CTL	
026	Duplex Entrance: ON (Out)	*CTL	
027	Duplex Entrance: ON (Out)	*CTL	
051	Vertical Transport 1: Off	*CTL	
052	Vertical Transport 2: Off	*CTL	
053	Bank Transport 1: Off	*CTL	For details, (IF "Jam Detection" in the
054	Bank Transport 2: Off	*CTL	"Main Chapters: Jam Detection" section.)
057	Registration Sensor: Off	*CTL	
058	LCT Feed Sensor : Off	*CTL	
060	Paper Exit Off	*CTL	
061	Bridge Exit: Off	*CTL	
062	Bridge Transport: Off	*CTL	
064	Junction Gate Sensor : Off	*CTL	
065	Duplex Exit: Off	*CTL	
066	Duplex Entrance: Off (In)	*CTL	
067	Duplex entrance : Off (Out)	*CTL	
100	Finisher Entrance: KIN	*CTL	
101	Finisher Shift Tray Exit: KIN	*CTL	For details, ("Jam Detection" in the
102	Finisher Staple: KIN	*CTL	"Main Chapters: Jam Detection" section.)
103	Finisher Exit: KIN	*CTL	
105	Finisher Tray Lift Motor: KIN	*CTL	
106	Finisher Jogger Motor: KIN	*CTL	
107	Finisher Shift Motor: KIN	*CTL	
108	Finisher Staple Motor: KIN	*CTL	
		·	

109	Finisher Exit Motor: KIN	*CTL	
191	Finisher Entrance: EUP	*CTL	
192	Finisher Proof Exit: EUP	*CTL	
193	Finisher Shift Tray Exit: EUP	*CTL	For details, (IF "Jam Detection" in the
194	Finisher Stapler Exit: EUP	*CTL	"Main Chapters: Jam Detection" section.)
195	Finisher Exit: EUP	*CTL	
198	Finisher Folder: EUP	*CTL	
199	Finisher Tray Motor: EUP	*CTL	
200	Finisher Jogger Motor: EUP	*CTL	
201	Finisher Shift Motor: EUP	*CTL	
202	Finisher Staple Moving Motor: EUP	*CTL	
203	Finisher Staple Motor: EUP	*CTL	For details, (IF "Jam Detection" in the
204	Finisher Folder Motor: EUP	*CTL	"Main Chapters: Jam Detection" section.)
206	Finisher Punch Motor: EUP	*CTL	
230	Fin Exit	*CTL	
231	Insufficient Data	*CTL	

7505	[Original Jam Detection]		
7505	Displays the total number of original jams by location.		
001	At Power On	*CTL	
003	Separation Sensor: On	*CTL	
004	Skew Correction Sensor: On	*CTL	
005	Scanning Entrance Sensor: On	*CTL	

006	Registration Sensor: On	*CTL	
007	Original Exit Sensor: On	*CTL	
008	Reverse Sensor: On	*CTL	
013	Separation Sensor: On	*CTL	Not used
014	Skew Correction Sn: On	*CTL	Not used
015	Scanning Entrance Sn: On	*CTL	
016	Registration Sensor: On	*CTL	
017	Original Exit Sensor: On	*CTL	
053	Separation Sensor: Off	*CTL	
054	Skew Correction Sensor: Off	*CTL	
055	Scanning Entrance Sensor: Off	*CTL	
056	Registration Sensor: Off	*CTL	
057	Original Exit Sensor: Off	*CTL	
058	Reverse Sensor: Off	*CTL	
063	Separation Sensor: Off	*CTL	Not used
064	Skew Correction Sn: Off	*CTL	11010380
065	Scanning Entrance Sn: Off	*CTL	
066	Registration Sensor: Off	*CTL	
067	Original Exit Sensor: Off	*CTL	

7507	[Jam Count by Paper Size]
/306	Displays the number of jams according to the paper size.

005	A4 LEF		
006	A5 LEF		
014	B5 LEF		
038	LT LEF		
044	HLT LEF		
132	A3 SEF		
133	A4 SEF	*CTL	
134	A5 SEF		[0 to 9999 / 0 / 1 sheet/step]
141	B4 SEF		
142	B5 SEF		
160	DLT SEF		
164	LG SEF		
166	LT SEF		
172	HLT SEF		
255	Others		

7507	[Plotter Jam History]	
7307	Displays the 10 most recently detected paper jams.	

001	Latest		
002	Latest 1		
003	Latest 2		
004	Latest 3		
005	Latest 4	*CTL	TL -
006	Latest 5		
007	Latest 6		
008	Latest 7		
009	Latest 8		
010	Latest 9		

7508	[Original Jam History]		
Displays the 10 most recently detected original jams.		riginal jams.	
001	Latest		
002	Latest-1		
003	Latest-2		
004	Latest-3		
005	Latest-4	*CTL	
006	Latest-5	CIL	-
007	Latest-6		
008	Latest-7		
009	Latest-8		
010	Latest-9		

	Part Replacement Operation ON/OFF	
7624	Selects the PM maintenance for each part.	

001	Drum Unit: Bk	
002	Drum Unit: M	
003	Drum Unit: C	
004	Drum Unit: Y	
005	Development Unit: Bk	
006	Development Unit: M	[0 or 1 / 1 -] O: No (Not PM maintenance)
007	Development Unit: C	1: Yes (PM maintenance)
008	Development Unit: Y	
009	Developer: Bk	
010	Developer: M	
011	Developer: C	
012	Developer: Y	
013	Image Transfer Belt	
014	Image Transfer Cleaning Unit	
015	Fusing Unit	[0 or 1 / 1 -]
016	Paper Transfer Roller Unit	0: Not PM maintenance
017	Waste Toner Bottle	1: PM maintenance
018	Fusing Roller	
019	Pressure Roller	

7801	[ROM No/ Firmware Version]		
255	Engine	*CTL	Displays all versions and ROM numbers in the machine.

78	7000	[PM Counter Display]	
	7803	(Page, Unit, [Color])	

Displays the number of sheets printed for each current maintenance unit.

PM counters click up based on the number of A4 (LT) LEF size sheets printed. Therefore, the A3 (DLT) Double Count is activated. The Double Count cannot be deactivated.

When a unit is replaced, the machine automatically detects that the new unit is installed. Then, the current PM counter value is automatically moved to the PM Counter - Previous (SP7-906-1 to 10) and is reset to "0".

The total number of sheets printed with the last unit replaced can be checked with SP7-906-1 to 10.

NOTE: The LCT is counted as the 3rd feed station.

001	Paper	*CTL	[0 to 9999999 / - / 1 sheet/ step]
002	Page: PCU: Bk	*ENG	
003	Page: PCU: M	*ENG	
004	Page: PCU: C	*ENG	
005	Page: PCU: Y	*ENG	
006	Page: Development Unit: Bk	*ENG	
007	Page: Development Unit: M	*ENG	[0 to 9999999 / - / 1 sheet/ step]
008	Page: Development Unit: C	*ENG	[O to 3333333 / - / 1 street/ steb]
009	Page: Development Unit: Y	*ENG	
010	Page: Developer: Bk	*ENG	
011	Page: Developer: M	*ENG	
012	Page: Developer: C	*ENG	
013	Page: Developer: Y	*ENG	

014	Page: Image Transfer	*ENG	
015	Page: Cleaning Unit	*ENG	
016	Page: Fusing Unit	*ENG	
017	Page: Paper Transfer Unit	*ENG	[0 to 9999999 / - / 1 sheet/ step]
018	Page: Toner Collection Bottle	*ENG	
019	Page: Fusing Roller	*ENG	
020	Page: Pressure Roller	*ENG	
	Displays the number of revolutions of mo	tors or clu	tches for each current maintenance unit.
	[0 to 9999999 / 0 / 1 revolution/step]	
	When a unit is replaced, the machine at Then, the current PM counter value is au (SP7-906-11 to 20) and is reset to "0". unit replaced can be checked with SP7-	tomaticall The total r	ly moved to the PM Counter - Previous number of revolutions made with the last
031	Rotation: PCU: Bk		
032	Rotation: PCU: M		
033	Rotation: PCU: C		
034	Rotation: PCU: Y		
035	Rotation: Development Unit: Bk		
036	Rotation: Development Unit: M	*ENG	[0 to 999999999 / - / 1 mm/step]
037	Rotation: Development Unit: C		[010777777777 - / 1 mm/ siep]
038	Rotation: Development Unit: Y		
039	Rotation: Developer Bk		
040	Rotation: Developer M		
041	Rotation: Developer C		
042	Rotation: Developer Y		

043	Rotation: Image Transfer			
044	Rotation: Cleaning Unit	*EN	0 [0	000000000 / /1 / 1
045	Rotation: Fusing Unit		G [U	to 999999999 / - / 1 mm/step]
046	Rotation: Paper Transfer Unit			
047	Measurement: Toner Collection bottle	*EN	G [0	to 999999999 / - / 1 mg/step]
048	Rotation: Fusing Roller	* = > 1.	01 0	, 000000000 / /1 /. 1
049	Rotation: Pressure Roller	*EN	G [O	to 999999999 / - / 1 mm/step]
	Displays the value given by the following	formul	a:	
	(Current revolution Target revolution) · 1 lifetime has been used up.	100. Th	is shows	s how much of the unit's expected
	The Rotation% counter is based on rotation the limit, the machine enters the end condition first, the machine also enters the end condition 100%.	ion for tl	hat unit.	If the print count lifetime is reached
061	Rotation (%): PCU: Bk			
062	Rotation (%): PCU: M			
063	Rotation (%): PCU: C			
064	Rotation (%): PCU: Y			
065	Rotation (%): Development Unit: Bk			
066	Rotation (%): Development Unit: M	*	ENIC.	[0.5.055 / /1.9//.5]
067	Rotation (%): Development Unit: C		ENG	[0 to 255 / - / 1 %/step]
068	Rotation (%): Development Unit: Y			
069	Rotation (%): Developer Bk			
070	Rotation (%): Developer M			
071	Rotation (%): Developer C			
072	Rotation (%): Developer Y			

073	Rotation (%): Image Transfer Belt		
074	Rotation (%): Cleaning Unit		
075	Rotation (%): Fusing Unit		
076	Rotation (%): Paper Transfer Unit	*ENG	[0 to 255 / - / 1 %/step]
077	Measurement (%): Toner Collection bottle		
078	Rotation (%): Fusing Roller		
079	Rotation (%): Pressure Roller		
	(Current printouts Target printouts) · 100. The lifetime has been used up. The Page% counter is based on printouts, not rethe limit, the machine enters the end condition reached first, the machine also enters the end is still less than 100%.	evolutions.	If the number of printouts reaches it. If the revolution count lifetime is
091	Page (%): PCU Bk (Drum Unit)		
092	Page (%): PCU M (Drum Unit)		
093	Page (%): PCU C (Drum Unit)		
094	Page (%): PCU Y (Drum Unit)	*ENIC	[0. 055 / /10//.]
095		*ENG	[0 to 255 / / 1 % /stop]
096	Page (%): Development Unit: Bk		[0 to 255 / - / 1 %/step]
	Page (%): Development Unit: Bk Page (%): Development Unit: M		[0 to 255 / - / 1 %/step]
097	<u> </u>		[0 to 255 / - / 1 %/step]
097	Page (%): Development Unit: M	-	[0 to 255 / - / 1 %/step]

099	Page (%): Developer: Bk		[0 to 255 / - / 1 %/step]
100	Page (%): Developer: M		
101	Page (%): Developer: C		
102	Page (%): Developer: Y		
103	Page (%): Image Transfer	*5.10	
104	Page (%): Cleaning Unit	*ENG	
105	Page (%): Fusing Unit		
106	Page (%): Paper Transfer Unit		
107	Page (%): Fusing Roller		
108	Page (%): Pressure Roller		

7804	[PM Counter Reset] PM Counter Clear (Unit, [Color])		
Clears the PM counter. Press the Enter key after the machine asks "Execution SP7-906 (PM Counter - Previous) and reset the (SP7-803) to "0".			
002	PCU (Drum Unit): Bk		
003	PCU (Drum Unit): M		
004	PCU (Drum Unit): C		
005	PCU (Drum Unit): Y		
006	PCU (Drum Unit): All		
007	Development Unit: Bk	-	-
008	Development Unit: M		
009	Development Unit: C		
010	Development Unit: Y		
011	Development Unit: All		

012	Developer: Bk			
013	Developer: M			
014	Developer: C			
015	Developer: Y			
016	Developer: All			
017	Image Transfer Belt			
018	Cleaning Unit	-		
019	Fusing Unit			
020	Paper Transfer Unit			
021	Toner Collection Bottle			
022	Fusing Roller			
023	Pressure Roller			
100	All			

[SC/Jam Counter Reset]			
7 607	Clears the counters related to SC codes and paper jams.		
001	SC/Jam Clear	-	-

7	'826	[MF Error Counter] Japan Only
	001	Error Total
	002	Error Staple

|--|--|

	7832	[Self-Diagnose Result Display]			
	/ 03Z	Displays the result of the diagnostics.			
	001	Diag. Result	*CTL	-	

7835	[ACC Counter]		
001	Сору АСС	*CTL	Disalas sub a ACC assabilias bisas fara and an ala
002	Printer ACC	*CTL	Displays the ACC exectuion times for each mode.

7024	Total Memory Size
7630	Displays the memory capacity of the controller system.

	[DF Scan Glass Dust Check Counter]			
7852	Counts the number of occurrences (0 to 65,535) when dust was detected on the scal glass of the ADF or resets the dust detection counter. Counting is done only if SP4-02 (ADF Scan Glass Dust Check) is switched on.			
001	Dust Detection Counter *CTL [0 to 9999 / - / 1 /step		[0 to 9999 / - / 1 /step]	
002	Dust Detection Clear Counter	*CTL	[0 to 9999 / - / 1 /step]	
003	Dust Detection Counter: Back	*CTL	[0 to 9999 / - / 1 /step]	

7853	[Replacement Counter]
7633	Displays the PM parts replacement number.

001	PCU: Bk	*CTL	
002	PCU: M	*CTL	
003	PCU: C	*CTL	
004	PCU: Y	*CTL	
005	Development Unit: Bk	*CTL	
006	Development Unit: M	*CTL	[0 255 / /1 /]
007	Development Unit: C	*CTL	[0 to 255 / - / 1 /step]
008	Development Unit: Y	*CTL	
009	Developer: Bk	*CTL	
010	Developer: M	*CTL	
011	Developer: C	*CTL	
012	Developer: Y	*CTL	
013	Image Transfer	*CTL	
014	Cleaning Unit	*CTL	
015	Fusing Unit	*CTL	
016	Paper Transfer Unit	*CTL	[0 to 255 / - / 1 /step]
017	Toner Collection Bottle	*CTL	
018	Fusing Roller	*CTL	
019	Pressure Roller	*CTL	

001

002

Coverage Range 1

Coverage Range 2

[Coverage Range] Sets the color coverage threshold. Coverage rate = Coverage per page / A4 full coverage (dots) x 100 There are three coverage counters: Color 1, Color 2, and Color 3 • [A] 5% (default) is adjustable with SP7855-001. • [B] 20% (default) is adjustable with SP7855-002. [A] [B] Color1 Color2 Color3 7855 Color 200% 0% coverage **Note** • The setting value [B] must be set larger than [A]. The total numbers of printouts (BW printing plus color printing) for each coverage range are displayed with the following SPs. • Color1 counter: SP8601-021 • Color2 counter: SP8601-022 • Color3 counter: SP8601-023

	[Assert Info] DFU		
Records the location where a problem is detected in the program SP is used for problem analysis.		n is detected in the program. The data stored in this	
001	File Name		
002	Number of Lines	*CTL	-
003	Location		

[1 to 200 / 5 / 1]

[1 to 200 / 20 / 1]

*CTL

*CTL

	[Prev. Unit PM Counter]		
7906	(Page or Rotations, Unit, [Color]), Dev.: Development Unit		
	Displays the number of sheets printed with the previous maintenance units.		
001	Paper	*CTL	[0 to 9999999 / - / 1 sheet/ step]

002	Page: PCU: Bk	*ENG	
003	Page: PCU: M	*ENG	
004	Page: PCU: C	*ENG	
005	Page: PCU: Y	*ENG	
006	Page: Development Unit: Bk	*ENG	
007	Page: Development Unit: M	*ENG	[0.4-0000000 / /1.4-4/44-1]
008	Page: Development Unit: C	*ENG	[0 to 9999999 / - / 1 sheet/ step]
009	Page: Development Unit: Y	*ENG	
010	Page: Developer: Bk	*ENG	
011	Page: Developer: M	*ENG	
012	Page: Developer: C	*ENG	
013	Page: Developer: Y	*ENG	
014	Page: Image Transfer	*ENG	
015	Page: Cleaning Unit	*ENG	
016	Page: Fusing Unit	*ENG	
017	Page: Paper Transfer Unit	*ENG	[0 to 9999999 / - / 1 sheet/ step]
018	Page: Toner Collection Bottle	*ENG	
019	Page: Fusing Roller	*ENG	
020	Page: Pressure Roller	*ENG	
	Displays the number of revolutions for motors or clutches in the previous maintenance units.		

031	Rotation: PCU: Bk		
032	Rotation: PCU: M		
033	Rotation: PCU: C		
034	Rotation: PCU: Y		
035	Rotation: Development Unit: Bk		
036	Rotation: Development Unit: M	*ENG	[0.1.000000000 / /1/.1]
037	Rotation: Development Unit: C	EING	[0 to 999999999 / - / 1 mm/step]
038	Rotation: Development Unit: Y		
039	Rotation: Developer Bk		
040	Rotation: Developer M		
041	Rotation: Developer C		
042	Rotation: Developer Y		
043	Rotation: Image Transfer		
044	Rotation: Cleaning Unit	*ENG	[0.1.000000000 / /1/.1]
045	Rotation: Fusing Unit	ENG	[0 to 999999999 / - / 1 mm/step]
046	Rotation: Paper Transfer Unit		
047	Measurement: Toner Collection bottle	*ENG	[0 to 999999999 / - / 1 mg/step]
048	Rotation: Fusing Roller	*ENG	[0+= 000000000 / /1 /+1
049	Rotation: Pressure Roller	EING	[0 to 999999999 / - / 1 mm/step]
	Displays the number of sheets printed with the previous maintenance unit or toner cartridge.		

061	Rotation (%): PCU: Bk		
062	Rotation (%): PCU: M		
063	Rotation (%): PCU: C		
064	Rotation (%): PCU: Y		
065	Rotation (%): Development Unit: Bk		
066	Rotation (%): Development Unit: M	*ENG	[0.4- 0.55 / / 1.9/ /-4]
067	Rotation (%): Development Unit: C	EING	[0 to 255 / - / 1 %/step]
068	Rotation (%): Development Unit: Y		
069	Rotation (%): Developer Bk		
070	Rotation (%): Developer M		
071	Rotation (%): Developer C		
072	Rotation (%): Developer Y		
073	Rotation (%): Image Transfer Belt		
074	Rotation (%): Cleaning Unit		
075	Rotation (%): Fusing Unit		
076	Rotation (%): Paper Transfer Unit	*ENG	[0 to 255 / - / 1 %/step]
077	Measurement (%): Toner Collection bottle		
078	Rotation (%): Fusing Roller		
079	Rotation (%): Pressure Roller		
	Displays the value given by the following formula: (Current count Yield count) x 100, where "Current count" is the current values in the counter for the part, and "Yield count" is the recommended yield.		

091	Page (%): PCU Bk (Drum Unit)		
092	Page (%): PCU M (Drum Unit)		
093	Page (%): PCU C (Drum Unit)		
094	Page (%): PCU Y (Drum Unit)	*ENG	[0 to 255 / - / 1 %/step]
095	Page (%): Development Unit: Bk	EING	[0 to 233 / - / 1 /6/ step]
096	Page (%): Development Unit: M		
097	Page (%): Development Unit: C		
098	Page (%): Development Unit: Y		
099	Page (%): Developer: Bk		
100	Page (%): Developer: M		
101	Page (%): Developer: C		
102	Page (%): Developer: Y		
103	Page (%): Image Transfer	*ENG	[0 to 255 / / 1 % /stan]
104	Page (%): Cleaning Unit	LING	[0 to 255 / - / 1 %/step]
105	Page (%): Fusing Unit		
106	Page (%): Paper Transfer Unit		
107	Page (%): Fusing Roller		
108	Page (%): Pressure Roller		

7931	[Toner Bottle Bk]		
7 7 3 1	Displays the toner bottle information for Bk.		
001	Machine Serial ID	*ENG	
002	Cartridge Ver	*ENG	
003	Brand ID	*ENG	
004	Area ID	*ENG	
005	Product ID	*ENG	

006	Color ID	*ENG	
007	Maintenance ID	*ENG	
008	New Product Information	*ENG	
009	Recycle Counter	*ENG	
010	Date	*ENG	
011	Serial No.	*ENG	
012	Toner Remaining	*ENG	
013	EDP Code	*ENG	
014	End History	*ENG	
015	Refill Information	*ENG	
016	Attachment: Total Counter	*ENG	
017	Attachment: Color Counter	*ENG	
018	End: Total Counter	*ENG	
019	End: Color Counter	*ENG	
020	Attachment Date	*ENG	
021	End Date	*ENG	

7020	[Toner Bottle M]					
7932	Displays the toner bottle information for M.					
001	Machine Serial ID	*ENG				
002	Cartridge Ver	*ENG				
003	Brand ID	*ENG				
004	Area ID	*ENG				
005	Product ID	*ENG				
006	Color ID	*ENG				
007	Maintenance ID	*ENG				

008	New Product Information	*ENG	
009	Recycle Counter	*ENG	
010	Date	*ENG	
011	Serial No.	*ENG	
012	Toner Remaining	*ENG	
013	EDP Code	*ENG	
014	End History	*ENG	
015	Refill Information	*ENG	
016	Attachment: Total Counter	*ENG	
017	Attachment: Color Counter	*ENG	
018	End: Total Counter	*ENG	
019	End: Color Counter	*ENG	
020	Attachment Date	*ENG	
021	End Date	*ENG	

7933	[Toner Bottle C]				
7 7 3 3	Displays the toner bottle information for C.				
001	Machine Serial ID	*ENG			
002	Cartridge Ver	*ENG			
003	Brand ID	*ENG			
004	Area ID	*ENG			
005	Product ID	*ENG			
006	Color ID	*ENG			
007	Maintenance ID	*ENG			
008	New Product Information	*ENG			
009	Recycle Counter	*ENG			

010	Date	*ENG	
011	Serial No.	*ENG	
012	Toner Remaining	*ENG	
013	EDP Code	*ENG	
014	End History	*ENG	
015	Refill Information	*ENG	
016	Attachment: Total Counter	*ENG	
017	Attachment: Color Counter	*ENG	
018	End: Total Counter	*ENG	
019	End: Color Counter	*ENG	
020	Attachment Date	*ENG	
021	End Date	*ENG	

7934	[Toner Bottle Y]				
7934	Displays the toner bottle information for Y.				
001	Machine Serial ID	*ENG			
002	Cartridge Ver	*ENG			
003	Brand ID	*ENG			
004	Area ID	*ENG			
005	Product ID	*ENG			
006	Color ID	*ENG			
007	Maintenance ID	*ENG			
008	New Product Information	*ENG			
009	Recycle Counter	*ENG			
010	Date	*ENG			
011	Serial No.	*ENG			

012	Toner Remaining	*ENG	
013	EDP Code	*ENG	
014	End History	*ENG	
015	Refill Information	*ENG	
016	Attachment: Total Counter	*ENG	
017	Attachment: Color Counter	*ENG	
018	End: Total Counter	*ENG	
019	End: Color Counter	*ENG	
020	Attachment Date	*ENG	
021	End Date	*ENG	

7935	[Toner Bottle Log 1/2/3/4/5: Bk]		
001	Serial No.	*ENG	
002	Attachment Date		Displays the toner bottle information log 1 for Bk.
003	Attachment: Total Counter		Displays the lotter bottle information log 1 for bk.
004	Refill Information		
011	Serial No.	*ENG	
012	Attachment Date		Displays the toner bottle information log 2 for Bk.
013	Attachment: Total Counter		Displays the lotter bottle information log 2 for bk.
014	Refill Information		
021	Serial No.		
022	Attachment Date	*ENG	Dianton of the tener bettle information less 2 for Dk
023	Attachment: Total Counter		Displays the toner bottle information log 3 for Bk.
024	Refill Information		

031	Serial No.		
032	Attachment Date		Di.ul.,, 4 - 4 1 - 4 f 1 4 f Dl.
033	Attachment: Total Counter		Displays the toner bottle information log 4 for Bk.
034	Refill Information		
041	Serial No.		
042	Attachment Date		Dil.,, t 4 t 41- : f, - 4: 1 5 f Dl.
043	Attachment: Total Counter		Displays the toner bottle information log 5 for Bk.
044	Refill Information		

7936	[Toner Bottle Log 1/2/3/4/5: M]		
001	Serial No.	*5.10	
002	Attachment Date		Discharge de la conseile de la conse
003	Attachment: Total Counter	*ENG	Displays the toner bottle information log 1 for M.
004	Refill Information		
011	Serial No.		
012	Attachment Date	*5510	
013	Attachment: Total Counter	*ENG	Displays the toner bottle information log 2 for M.
014	Refill Information		
021	Serial No.		
022	Attachment Date	*ENG	Disabas da tanan bada istana aisa ba 2 fa M
023	Attachment: Total Counter	ENG	Displays the toner bottle information log 3 for M.
024	Refill Information		
031	Serial No.		
032	Attachment Date	*5.10	
033	Attachment: Total Counter	*ENG	Displays the toner bottle information log 4 for M.
034	Refill Information		

041	Serial No.			
042	Attachment Date	*ENG	Dialogo the terror bettle information less 5 feat M	
043	Attachment: Total Counter		Displays the toner bottle information log 5 for M.	
044	Refill Information			

7937	[Toner Bottle Log 1/2/3/4/5: C]		
001	Serial No.		
002	Attachment Date	*ENG	Displays the toner bottle information log 1 for C.
003	Attachment: Total Counter	LING	Displays the lotter bottle information log 1 for C.
004	Refill Information		
011	Serial No.		
012	Attachment Date	*ENG	Displays the toner bottle information log 2 for C.
013	Attachment: Total Counter	LING	Displays the lotter bottle information log 2 for C.
014	Refill Information		
021	Serial No.		Displays the toner bottle information log 3 for C.
022	Attachment Date	*ENG	
023	Attachment: Total Counter	LING	Displays the lotter bottle information log 5 for C.
024	Refill Information		
031	Serial No.		
032	Attachment Date	*ENG	Displays the toner bottle information log 4 for C.
033	Attachment: Total Counter	LING	Displays the lotter bottle information log 4 for C.
034	Refill Information		
041	Serial No.		
042	Attachment Date	*ENG	Diambaraha kanan hasila infarmasian la 195 fi 190
043	Attachment: Total Counter	ENG	Displays the toner bottle information log 5 for C.
044	Refill Information		

7938	[Toner Bottle Log 1/2/3/4/5: Y]				
001	Serial No.				
002	Attachment Date	*ENG	Displays the toner bottle information log 1 for Y.		
003	Attachment: Total Counter	LING			
004	Refill Information				
011	Serial No.		Displays the toner bottle information log 2 for Y.		
012	Attachment Date	*ENG			
013	Attachment: Total Counter	LING			
014	Refill Information				
021	Serial No.	*ENG	Displays the toner bottle information log 3 for Y.		
022	Attachment Date				
023	Attachment: Total Counter	LING			
024	Refill Information				
031	Serial No.		Displays the toner bottle information log 4 for Y.		
032	Attachment Date	*ENG			
033	Attachment: Total Counter	LING			
034	Refill Information				
041	Serial No.		Displays the toner bottle information log 5 for Y.		
042	Attachment Date	*ENG			
043	Attachment: Total Counter	ENG			
044	Refill Information				

7950	[Unit Replacement Date]
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001	Image Transfer Belt	*ENG	Displays the replacement date of each PM unit.
002	Cleaning Unit		
003	Paper Transfer Unit		
004	Fusing Unit		
005	Toner Collection Bottle		
006	PCDU:Bk (Drum Unit)	*ENG	Displays the replacement date of each PM unit.
007	PCDU:M (Drum Unit)		
008	PCDU:C (Drum Unit)		
009	PCDU:Y (Drum Unit)		
010	Fusing Roller		
011	Pressure Roller		

7951	[Remaining Day Counter]					
7931	Displays the remaining unit life of each PM unit.					
001	Page: PCU (Drum): Bk	-				
002	Page: PCU (Drum): M	-				
003	Page: PCU (Drum): C	-	[0 to 255 / 255 / 1 day/step]			
004	004 Page: PCU (Drum): Y 005 Page: Development Unit: Bk	-				
005		-				
006	Page: Development Unit: M	-				
007	Page: Development Unit: C	-				
008		-				
009		-				
010	Page: Developer: M	-				
011	Page: Developer: C	-				
012	Page: Developer: Y	-				

013	Page: Image Transfer		
014	Page: Cleaning Unit		
015	Page: Fusing Unit		[0.1. 0.5.5 / 0.5.5 / 1. /]
016	Page: Paper Transfer Unit	_	[0 to 255 / 255 / 1 day/step]
017	Page: Fusing Roller		
018	Page: Pressure Roller		
031	Rotation: PCU (Drum): Bk		
032	Rotation: PCU (Drum): M		
033	Rotation: PCU (Drum): C		
034	Rotation: PCU (Drum): Y		
035	Rotation: Development Unit: Bk		
036	Rotation: Development Unit: M		[0 to 255 / 255 / 1 day/step]
037	Rotation: Development Unit: C	_	[0 to 255 / 255 / 1 ddy/ siep]
038	Rotation: Development Unit: Y		
039	Rotation: Developer: Bk		
040	Rotation: Developer: M		
041	Rotation: Developer: C		
042	Rotation: Developer: Y		
043	Rotation: Image Transfer		
044	Rotation: Cleaning Unit		
045	Rotation: Fusing Unit		
046	Rotation: Paper Transfer Unit	_	[0 to 255 / 255 / 1 day/step]
047	Measurement: Toner Collection bottle		, , , , , , , , , ,
048	Page: Fusing Roller		
049	Page: Pressure Roller		

7952	[PM Yield Setting]			
7932	Adjusts the unit yield of each PM unit.			
001	Rotation: Image Transfer Belt	*CTL	[0 to 999999999 / 312707000 / 1 mm/step]	
002	Rotation: Cleaning Unit	*CTL	[0 to 99999999 / 104236000 / 1 mm/step]	
003	Rotation: Fusing Unit	*CTL	[0 to 999999999 / 172023000 / 1 mm/step]	
004	Rotation: Paper Transfer Unit	*CTL	[0 to 999999999 / 156354000 / 1 mm/step]	
011	Page: Image Transfer Belt	*CTL	[0 to 999999 / 600000 / 1 sheet/step]	
012	Page: Cleaning Unit	*CTL	[0 to 999999 / 200000 / 1 sheet/step]	
013	Page: Fusing Unit	*CTL	[0 to 999999 / 300000 / 1 sheet/step]	
014	Page: Paper Transfer Unit	*CTL	[0 to 999999 / 300000 / 1 sheet/step]	
021	Day Threshold: PCU (Drum): Bk			
022	Day Threshold: PCU (Drum): M			
023	Day Threshold: PCU (Drum): C			
024	Day Threshold: PCU (Drum): Y	* 671	Adjusts the threshold day for the near end fro each PM unit.	
025	Day Threshold: Development Unit: Bk	*CTL	[1 to 30 / 15 / 1 day/step] These threshold days are used for @Remote alarms.	
026	Day Threshold: Development Unit: M			
027	Day Threshold: Development Unit: C			
028	Day Threshold: Development Unit: Y			

029	Day Threshold: Developer: Bk		Adjusts the threshold day for the near end fro each PM unit. [1 to 30 / 15 / 1 day/step] These threshold days are used for @Remote alarms.
030	Day Threshold: Developer: M		
031	Day Threshold: Developer: C		
032	Day Threshold: Developer: Y		
033	Day Threshold: Image Transfer Belt	*CTL	
034	Day Threshold: Cleaning Unit		
035	Day Threshold: Fusing Unit		
036	Day Threshold: PTR Unit		
037	Day Threshold: Toner Collection Bottle		
038	Rotation: PCU (Drum Unit): Bk		
039	Rotation: PCU (Drum Unit):	*CTL	[0 to 999999999 / 0 / 1 mm/step]
040	Rotation: PCU (Drum Unit): C		
041	Rotation: PCU (Drum Unit): Y		
042	Rotation: Development Unit: Bk		
043	Rotation: Development Unit: M	*CTL	[0 to 999999999 / 0 / 1 mm/step]
044	Rotation: Development Unit: C		
045	Rotation: Development Unit: Y		

046	Rotation: Developer: Bk		
047	Rotation: Developer: M	*CTL	[0 to 999999999 / 0 / 1 mm/step]
048	Rotation: Developer: C	CIL	[0 10 77777777 0 / 1 mm/ siep]
049	Rotation: Developer: Y		
050	Page: PCU (Drum Unit): Bk		
051	Page: PCU (Drum Unit): M	*CTL	[0 to 999999 / 0 / 1 sheet/step]
052	Page: PCU (Drum Unit): C	CIL	
053	Page: PCU (Drum Unit): Y		
054	Page: Development Unit: Bk		
055	Page: Development Unit: M	*CTL	[0 to 999999 / 0 / 1 sheet/step]
056	Page: Development Unit: C		
057	Page: Development Unit: Y		
058	Page: Developer: Bk		
059	Page: Developer: M	* CTI	[0.4-000000 / 0 / 1 - 1 - 1 / 1 - 1
060	Page: Developer: C	*CTL	[0 to 999999 / 0 / 1 sheet/step]
061	Page: Developer: Y		

7953	[Operation Env. Log: PCDU: Bk]		
	Displays the PCDU rotation distance in each specified operation environment. T: Temperature (°C), H: Relative Humidity (%)		
001	T<=5: 0<=H<30	*CTL	[0 to 99999999 / - / 1 mm/step]
002	T<=5: 30<=H<55	*CTL	
003	T<=5: 55<=H<80	*CTL	
004	T<=5: 80<=H<=100	*CTL	
005	5 <t<15: 0<="H<30</td"><td>*CTL</td><td></td></t<15:>	*CTL	
006	5 <t<15: 30<="H<55</td"><td>*CTL</td><td></td></t<15:>	*CTL	

007 5 <t<15: *ctl="" *ctl<="" 008="" 55<="H<80" 5<t<15:="" 80<="H<=100" th=""><th></th></t<15:>	
008 5 <t<15: *ctl<="" 80<="H<=100" td=""><td></td></t<15:>	
009 15<=T<25: 0<=H<30 *CTL	
010 15<=T<25: 30<=H<55 *CTL	
011 15<=T<25: 55<=H<80 *CTL	
012 15<=T<25: 80<=H<=100 *CTL	
013 25<=T<30: 0<=H<30 *CTL	
014 25<=T<30: 30<=H<55 *CTL	
015 25<=T<30: 55<=H<80 *CTL	
016 25<=T<30: 80<=H<=100 *CTL	
017 30<=T: 0<=H<30 *CTL	
018 30<=T: 30<=H<55 *CTL	
019 30<=T: 55<=H<80 *CTL	
020 30<=T: 80<=H<=100 *CTL	

7954	[Operation Env. Log Clear]
7 7 3 4	Clears the operation environment log.
001	

System SP8-xxx

SP8-xxx: Data Log2

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 211 to SP8 216	The number of pages scanned to the document server.
SP8 401 to SP8 406	The number of pages printed from the document server
SP8 691 to SP8 696	The number of pages sent from 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.		
F:	Fax application.	Totals (pages, jobs, etc.) executed for each application whe the job was not stored on the document server.	
P:	Print application.		
S:	Scan application.		

L:	Local storage (document server)	Totals (jobs, pages, etc.) for the document server. The L: counters work 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 (external network applications, for example)	Refers to network applications such as Web Image Monitor. Utilities developed with the SDK (Software Development Kit) will also be counted with this group in the future.

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

Abbreviation	What it means
/	"By", e.g. "T:Jobs/ApI" = Total Jobs "by" Application
>	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

Abbreviation	What it means	
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 evenly among the printers on the network, and allows files to moved around, combined, and converted to different formats.	

Abbreviation	What it means			
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	Simplex, printing on 1 side.			
S-to-Email	Scan-to-E-mail			
SMC	SMC report printed with SP5990. 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			



 $\bullet\,\,$ All of the Group 8 SPs are reset with SP5 801 1 Memory All Clear.

8 001	T:Total Jobs	*CTL	These SPs count the number of times each application is used
8 002	C:Total Jobs	*CTL	to do a job.
8 003	F:Total Jobs	*CTL	[0 to 9999999 / 0 / 1] Note: The L: counter is the total number of times the other
8 004	P:Total Jobs	*CTL	applications are used to send a job to the document server,
8 005	S:Total Jobs	*CTL	plus the number of times a file already on the document server is used.
8 006	L:Total Jobs	*CTL	

- These SPs reveal the number of times an application is used, not the number of pages processed.
- When an application is opened for image input or output, this counts as one job.
- Interrupted jobs (paper jams, etc.) are counted, even though they do not finish.
- Only jobs executed by the customer are counted. Jobs executed by the customer engineer using the SP modes are not counted.
- When using secure printing (when a password is required to start the print job), the job is counted at the time when either "Delete Data" or "Specify Output" is specified.
- A job is counted as a fax job when the job is stored for sending.
- When a fax is received to fax memory, the F: counter increments but the L: counter does not (the document server is not used).
- A fax broadcast counts as one job for the F: counter (the fax destinations in the broadcast are not counted separately).
- A fax broadcast is counted only after all the faxes have been sent to their destinations. If one
 transmission generates an error, then the broadcast will not be counted until the transmission has been
 completed.
- A printed fax report counts as one job for the F: counter.
- The F: counter does not distinguish between fax sending or receiving.
- When a copy job on the document server is printed, SP8022 also increments, and when a print job stored on the document server is printed, SP8024 also increments.
- When an original is both copied and stored on the document server, the C: and L: counters both increment.
- When a print job is stored on the document server, only the L: counter increments.
- When the user presses the Document Server button to store the job on the document server, only the L: counter increments.
- When the user enters document server mode and prints data stored on the document server, only the L: counter increments.

- When an image received from Palm 2 is received and stored, the L: counter increments.
- When the customer prints a report (user code list, for example), the O: counter increments. However, for fax reports and reports executed from the fax application, the F: counter increments.

8 011	T:Jobs/LS	*CTL	
8 012	C:Jobs/LS	*CTL	These SPs count the number of jobs stored to the document
8 013	F:Jobs/LS	*CTL	server by each application, to reveal how local storage is
8 014	P:Jobs/LS	*CTL	being used for input. [0 to 9999999 / 0 / 1]
8 015	S:Jobs/LS	*CTL	The L: counter counts the number of jobs stored from within
8 016	L:Jobs/LS	*CTL	the document server mode screen at the operation panel.
8 017	O:Jobs/LS	*CTL	

- When a scan job is sent to the document server, the S: counter increments. When you enter document server mode and then scan an original, the L: counter increments.
- When a print job is sent to the document server, the P: counter increments.
- When a network application sends data to the document server, the O: counter increments.
- When an image from Palm 2 is stored on the document server, the O: counter increments.
- When a fax is sent to the document server, the F: counter increments.

8 021	T:Pjob/LS	*CTL	
8 022	C:Pjob/LS	*CTL	These SPs reveal how files printed from the document
8 023	F:Pjob/LS	*CTL	server were stored on the document server originally.
8 024	P:Pjob/LS	*CTL	[0 to 9999999/ 0 / 1]
8 025	S:Pjob/LS	*CTL	The L: counter counts the number of jobs stored from within the document server mode screen at the
8 026	L:Pjob/LS	*CTL	operation panel.
8 027	O:Pjob/LS	*CTL	

- When a copy job stored on the document server is printed with another application, the C: counter increments.
- When an application like DeskTopBinder merges a copy job that was stored on the document server with a print job that was stored on the document server, the C: and P: counters both increment.
- When a job already on the document server is printed with another application, the L: counter increments.

- When a scanner job stored on the document server is printed with another application, the S: counter increments. If the original was scanned from within document server mode, then the L: counter increments.
- When images stored on the document server by a network application (including Palm 2), are printed with another application, the O: counter increments.
- When a copy job stored on the document server is printed with a network application (Web Image Monitor, for example), the C: counter increments.
- When a fax on the document server is printed, the F: counter increments.

8 03 1	T:Pjob/DesApl	*CTL	
8 032	C:Pjob/DesApl	*CTL	These SPs reveal what applications were used to output
8 033	F:Pjob/DesApl	*CTL	documents from the document server.
8 034	P:Pjob/DesApl	*CTL	[0 to 9999999/ 0 / 1] The L: counter counts the number of jobs printed from
8 035	S:Pjob/DesApl	*CTL	within the document server mode screen at the
8 036	L:Pjob/DesApl	*CTL	operation panel.
8 037	O:Pjob/DesApl	*CTL	

- When documents already stored on the document server are printed, the count for the application that started the print job is incremented.
- When the print job is started from a network application (Desk Top Binder, Web Image Monitor, etc.)
 the L: counter increments.

8 041	T:TX Jobs/LS	*CTL	These SPs count the applications that stored files on the		
8 042	C:TX Jobs/LS	*CTL	document server that were later accessed for transmission over the telephone line or over a network		
8 043	F:TX Jobs/LS	*CTL	(attached to an e-mail, or as a fax image by I-Fax).		
8 044	P:TX Jobs/LS	*CTL	[0 to 9999999/ 0 / 1] Note: Jobs merged for sending are counted		
8 045	S:TX Jobs/LS	*CTL	separately.		
8 046	L:TX Jobs/LS	*CTL	The L: counter counts the number of jobs scanned from within the document server mode screen at the		
8 047	O:TX Jobs/LS	*CTL	operation panel.		

- When a stored copy job is sent from the document server, the C: counter increments.
- When images stored on the document server by a network application or Palm2 are sent as an e-mail, the O: counter increments.

8 051	T:TX Jobs/DesApl	*CTL	TI CD vil le c le le
8 052	C:TX Jobs/DesApl	*CTL	These SPs count the applications used to send files from the document server over the telephone line or
8 053	F:TX Jobs/DesApl	*CTL	over a network (attached to an e-mail, or as a fax image by I-Fax). Jobs merged for sending are
8 054	P:TX Jobs/DesApl	*CTL	counted separately. [0 to 9999999/ 0 / 1] The L: counter counts the number of jobs sent from
8 055	S:TX Jobs/DesApl	*CTL	
8 056	L:TX Jobs/DesApl	*CTL	within the document server mode screen at the
8 057	O:TX Jobs/DesApl	*CTL	operation panel.

• If the send is started from Desk Top Binder or Web Image Monitor, for example, then the O: counter increments.

These SPs total the finishing						
	These SPs total the finishing methods. The finishing method is specified by the application.					
C:FIN Jobs	*CTL	[0 to 9999999/ 0 / 1]				
These SPs total finishing methods for copy jobs only. The finishing method is specified by the application.						
F:FIN Jobs	*CTL	[0 to 9999999/ 0 / 1]				
These SPs total finishing methods for fax jobs only. The finishing method is specified by the application. Note: Finishing features for fax jobs are not available at this time.						
P:FIN Jobs	*CTL	[0 to 9999999/ 0 / 1]				
These SPs total finishing methods for print jobs only. The finishing method is specified by the application.						
S:FIN Jobs	*CTL	[0 to 9999999/ 0 / 1]				
These SPs total finishing methods for scan jobs only. The finishing method is specified by the application. Note: Finishing features for scan jobs are not available at this time.						
	C:FIN Jobs These SPs total finishing may the application. F:FIN Jobs These SPs total finishing make application. Note: Finishing features for P:FIN Jobs These SPs total finishing may the application. S:FIN Jobs These SPs total finishing may the application.	C:FIN Jobs *CTL These SPs total finishing methods for by the application. F:FIN Jobs *CTL These SPs total finishing methods for the application. Note: Finishing features for fax jobs P:FIN Jobs *CTL These SPs total finishing methods for by the application. S:FIN Jobs *CTL These SPs total finishing methods for by the application.				

	L:FIN Jobs		*CTL	[0 to 9999999/ 0 / 1]	
8 066	These SPs total finishing methods for jobs output from within the document server mod screen at the operation panel. The finishing method is specified from the print windo within document server mode.				
	O:FIN Jobs		*CTL	[0 to 9999999/ 0 / 1]	
8 067		-		jobs executed by an external application, over the cified by the application.	
8 06x 1	Sort	Sort and the	Number of jobs started in Sort mode. When a stored copy job is set for Sort and then stored on the document server, the L: counter increments. (See SP8 066 1)		
8 06x 2	Stack	Number of jo	obs started	out of Sort mode.	
8 06x 3	Staple	Number of jobs started in Staple mode.			
8 06x 4	Booklet	Number of jobs started in Booklet mode. If the machine is in staple mode, the Staple counter also increments.			
8 06x 5	Z-Fold	Number of jobs started In any mode other than the Booklet mode and set for folding (Z-fold).			
8 06x 6	Punch	Number of jobs started in Punch mode. When Punch is set for a print job, the P: counter increments. (See SP8 064 6.)			
8 06x 7	Other	Reserved. N	ot used.		
8 06x 8	Inside- Fold	Number of jobs started In any mode other than the Booklet mode and set for folding (Inside-fold).			
8 06x 9	Three- IN-Fold	Number of jobs started In any mode other than the Booklet mode and set for folding (Inside-IN-fold).			
8 06x 10	Three- OUT-Fold	Number of jobs started In any mode other than the Booklet mode and set for folding (Inside-OUT-fold).			

	T:Jobs/PGS	*CTL	[0 to 9999999/ 0 / 1]
8 071	These SPs count the numb regardless of which appli		roken down by the number of pages in the job, used.

	C:Jobs/PGS	*CTL	[0 to 9	999999/0/1]		
8 072	These SPs count and calculate the number of copy jobs by size based on the number of pages in the job.					
	F:Jobs/PGS	*CTL	[0 to 9999999/ 0 / 1]			
8 073	These SPs count and cale	culate the nur	mber of f	ax jobs by size based on the number of		
	P:Jobs/PGS	*CTL	[0 to 9	999999/0/1]		
8 074	These SPs count and calc pages in the job.	culate the num	nber of p	rint jobs by size based on the number of		
	S:Jobs/PGS		[0 to 9	999999/0/1]		
8 075	These SPs count and calculate the number of scan jobs by size based on the of pages in the job.					
	L:Jobs/PGS	*CTL	*CTL [0 to 9999999/ 0 / 1]			
8 076	These SPs count and calculate the number of jobs printed from within the document server mode window at the operation panel, by the number of pages in the job.					
	O:Jobs/PGS	*CTL [0 to 9999999/ 0 / 1]				
8 077				'Other" application jobs (Web Image umber of pages in the job.		
8 07x 1	1 Page	8 07x	8	21 to 50 Pages		
8 07x 2	2 Pages	8 07x 9 5		51 to 100 Pages		
8 07x 3	3 Pages	8 07x 10		101 to 300 Pages		
8 07x 4	4 Pages	8 07x 11		301 to 500 Pages		
8 07x 5	5 Pages	8 07x 12		501 to 700 Pages		
8 07x 6	6 to 10 Pages	8 07x 13		701 to 1000 Pages		
8 07x 7	11 to 20 Pages	8 07x	14	1001 to Pages		

- For example: When a copy job stored on the document server is printed in document server mode, the appropriate L: counter (SP8076 0xx) increments.
- Printing a fax report counts as a job and increments the F: counter (SP 8073).
- Interrupted jobs (paper jam, etc.) are counted, even though they do not finish.

- If a job is paused and re-started, it counts as one job.
- If the finisher runs out of staples during a print and staple job, then the job is counted at the time the error occurs.
- For copy jobs (SP 8072) and scan jobs (SP 8075), the total is calculated by multiplying the number of sets of copies by the number of pages scanned. (One duplex page counts as 2.)
- The first test print and subsequent test prints to adjust settings are added to the number of pages of the copy job (SP 8072).
- When printing the first page of a job from within the document server screen, the page is counted.

	T:FAX TX Jobs	*CTL	[0 to 9999999/ 0 / 1]				
8 111	These SPs count the total number of jobs (color or black-and-white) sent by fax, either directly or using a file stored on the document server, on a telephone line.						
	Note: Color fax sending	Note: Color fax sending is not available at this time.					
	F: FAX TX Jobs	*CTL	[0 to 9999999/ 0 / 1]				
8 113	These SPs count the total number of jobs (color or black-and-white) sent by fax directly on a telephone line.						
	Note: Color fax sending is not available at this time.						
8 11x 1	B/W						
8 11x 2	Color						

- These counters count jobs, not pages.
- This SP counts fax jobs sent over a telephone line with a fax application, including documents stored
 on the document server.
- If the mode is changed during the job, the job will count with the mode set when the job started.
- If the same document is faxed to both a public fax line and an I-Fax at a destination where both are available, then this counter increments, and the I-Fax counter (8 12x) also increments.
- The fax job is counted when the job is scanned for sending, not when the job is sent.

	T:IFAX TX Jobs	*CTL	[0 to 9999999/ 0 / 1]				
8 121	These SPs count the total number of jobs (color or black-and-white) sent, either directly or using a file stored on the document server, as fax images using I-Fax.						
	Note: Color fax sending is not available at this time.						

	F: IFAX TX Jobs	*CTL	[0 to 9999999/ 0 / 1]		
8 123	These SPs count the number of jobs (color or black-and-white document server), as fax images using I-Fax. Note: Color fax sending is not available at this time.		g I-Fax.		
8 12x 1	B/W				
8 12x 2	Color				

- These counters count jobs, not pages.
- The counters for color are provided for future use; the color fax feature is not available at this time.
- The fax job is counted when the job is scanned for sending, not when the job is sent.

8 131	T:S-to-Email Jobs	*CTL	[0 to 9999999/ 0 / 1]		
	These SPs count the total number of jobs (color or black-and-white) scanned and attached to an e-mail, regardless of whether the document server was used or not.				
8 135	S: S-to-Email Jobs	*CTL	[0 to 9999999/ 0 / 1]		
	These SPs count the number of jobs (color or black-and-white) scanned and attached to e-mail, without storing the original on the document server.				
8 13x 1	B/W				
8 13x 2	Color				
8 13x 3	ACS				

- These counters count jobs, not pages.
- If the job is stored on the document server, after the job is stored it is determined to be color or blackand-white then counted.
- If the job is cancelled during scanning, or if the job is cancelled while the document is waiting to be sent, the job is not counted.
- If the job is cancelled during sending, it may or may not be counted, depending on what stage of the
 process had been reached when the job was cancelled.
- If several jobs are combined for sending to the Scan Router, Scan-to-Email, or Scan-to-PC, or if one job is sent to more than one destination. each send is counted separately. For example, if the same document is sent by Scan-to-Email as well as Scan-to-PC, then it is counted twice (once for Scan-to-Email and once for Scan-to-PC).

8 141	T:Deliv Jobs/Svr	*CTL	[0 to 9999999/ 0 / 1]		
	These SPs count the total number of jobs (color or black-and-white) scanned and sent to a Scan Router server.				
8 145	S: Deliv Jobs/Svr	*CTL	[0 to 9999999/ 0 / 1]		
	These SPs count the number of jobs (color or black-and-white) scanned in scanner mode and sent to a Scan Router server.				
8 14x 1	B/W				
8 14x 2	Color				
8 14x 3	ACS				

- These counters count jobs, not pages.
- The jobs are counted even though the arrival and reception of the jobs at the Scan Router server cannot be confirmed.
- If even one color image is mixed with black-and-white images, then the job is counted as a "Color" job.
- If the job is cancelled during scanning, or if the job is cancelled while the document is waiting to be delivered, the job is not counted.
- If the job is cancelled during sending, it may or may not be counted, depending on what stage of the process had been reached when the job was cancelled.
- Even if several files are combined for sending, the transmission counts as one job.

	T:Deliv Jobs/PC	*CTL	[0 to 9999999/ 0 / 1]			
8 151	These SPs count the total number of jobs (color or black-and-white) scanned and sent to a folder on a PC (Scan-to-PC).					
	Note: At the present time, 8	151 and	8 155 perform identical counts.			
	S:Deliv Jobs/PC	*CTL	[0 to 9999999/ 0 / 1]			
8 155	These SPs count the total number of jobs (color or black-and-white) scanned and sent with Scan-to-PC.					
8 15x 1	B/W					
8 15x 2	Color					
8 15x 3	ACS					

- These counters count jobs, not pages.
- If the job is cancelled during scanning, it is not counted.
- If the job is cancelled while it is waiting to be sent, the job is not counted.
- If the job is cancelled during sending, it may or may not be counted, depending on what stage of the process had been reached when the job was cancelled.
- Even if several files are combined for sending, the transmission counts as one job.

8 161	T:PCFAX TX Jobs	*CTL	These SPs count the number of PC Fax transmission
8 163	F:PCFAX TX Jobs	*CTL	jobs. A job is counted from when it is registered for sending, not when it is sent. [0 to 9999999 / 0 / 1] Note: At the present time, these counters perform identical counts.

• This counts fax jobs started from a PC using a PC fax application, and sending the data out to the destination from the PC through the copier.

8 171	T:Deliv Jobs/WSD	*CTL	These SPs count the pages scanned by WS.			
8 175	S:Deliv Jobs/WSD	*CTL	[0 to 9999999/ 0 / 1]			
-001	B/W					
-002	Color					
-003	ACS					

8 181	T:Scan to Media Jobs	*CTL	These SPs count the scanned pages in a media by the		
8 185	S:Scan to Media Jobs	*CTL	scanner application. [0 to 9999999/ 0 / 1]		
-001	B/W				
-002	Color				
-003	ACS				

8 191	T:Total Scan PGS	*CTL	
8 192	C:Total Scan PGS	*CTL	These SPs count the pages scanned by each
8 193	F:Total Scan PGS	*CTL	application that uses the scanner to scan images.
8 195	S:Total Scan PGS	*CTL	[0 to 9999999/ 0 / 1]
8 196	L:Total Scan PGS	*CTL	

- SP 8 191 to 8 196 count the number of scanned sides of pages, not the number of physical pages.
- These counters do not count reading user stamp data, or reading color charts to adjust color.
- Previews done with a scanner driver are not counted.
- A count is done only after all images of a job have been scanned.
- Scans made in SP mode are not counted.

Examples

- If 3 B5 pages and 1 A3 page are scanned with the scanner application but not stored, the S: count is 4.
- If both sides of 3 A4 sheets are copied and stored to the document server using the Store File button in the Copy mode window, the C: count is 6 and the L: count is 6.
- If both sides of 3 A4 sheets are copied but not stored, the C: count is 6.
- If you enter document server mode then scan 6 pages, the L: count is 6.

	T:LSize Scan PGS	*CTL	[0 to 9999999/ 0 / 1]			
8 201	These SPs count the total number of large pages input with the scanner for scan and copy jobs. Large size paper (A3/DLT) scanned for fax transmission are not counted. Note: These counters are displayed in the SMC Report, and in the User Tools display.					
	F: LSize Scan PGS	*CTL	[0 to 9999999/ 0 / 1]			
8 203	These SPs count the total number of large pages input with the scanner for fax transmission. Note: These counters are displayed in the SMC Report, and in the User Tools display.					
	S:LSize Scan PGS	*CTL	[0 to 9999999/ 0 / 1]			
8 205	These SPs count the total number of large pages input with the scanner for scan jobs only. Large size paper (A3/DLT) scanned for fax transmission are not counted. Note: These counters are displayed in the SMC Report, and in the User Tools display.					

8 211	T:Scan PGS/LS	*CTL	These SPs count the number of pages scanned into the
8 212	C:Scan PGS/LS	*CTL	document server . [0 to 9999999 / 0 / 1]
8 213	F:Scan PGS/LS	*CTL	The L: counter counts the number of pages stored from
8 215	S:Scan PGS/LS	*CTL	within the document server mode screen at the operation panel, and with the Store File button from
8 216	L:Scan PGS/LS	*CTL	within the Copy mode screen

- Reading user stamp data is not counted.
- If a job is cancelled, the pages output as far as the cancellation are counted.
- If the scanner application scans and stores 3 B5 sheets and 1 A4 sheet, the S: count is 4.
- If pages are copied but not stored on the document server, these counters do not change.
- If both sides of 3 A4 sheets are copied and stored to the document server, the C: count is 6 and the L: count is 6.
- If you enter document server mode then scan 6 pages, the L: count is 6.

	ADF Org	g Feeds	*CTL	[0 to 9999999/ 0 / 1]	
8 221	These SF		er of pag	es fed through the ADF for front and back side	
8 221 1	Front	Number of front sides fed for scanning: With an ADF that can scan both sides simultaneously, the Front side count is the same as the number of pages fed for either simplex or duplex scanning. With an ADF that cannot scan both sides simultaneously, the Front side count is the same as the number of pages fed for duplex front side scanning. (The front side is determined by which side the user loads face up.)			
8 221 2	Back	Number of rear sides fed for scanning: With an ADF that can scan both sides simultaneously, the Back count is the same as the number of pages fed for duplex scanning. With an ADF that cannot scan both sides simultaneously, the Back count the same as the number of pages fed for duplex rear-side scanning.			

- When 1 sheet is fed for duplex scanning the Front count is 1 and the Back count is 1.
- If a jam occurs during the job, recovery processing is not counted to avoid double counting. Also, the pages are not counted if the jam occurs before the first sheet is output.

	Scan PGS/Mode	*CTL	[0 to 9999999/ 0 / 1]	
8 231	These SPs count the number work load on the ADF.	er of pag	es scanned by each ADF mode to determine the	
8 231 1	Large Volume		able. Large copy jobs that cannot be loaded in the tone time.	
8 231 2	SADF	Select	able. Feeding pages one by one through the ADF.	
8 231 3	Mixed Size	Selectable. Select "Mixed Sizes" on the operation pane		
8 231 4	Custom Size	Selectable. Originals of non-standard size.		
8 231 5	Platen	Book mode. Raising the ADF and placing the original directly on the platen.		
8 231 6	Mixed 1 side/2 side	Simplex and Duplex mode.		

- If the scan mode is changed during the job, for example, if the user switches from ADF to Platen mode, the count is done for the last selected mode.
- The user cannot select mixed sizes or non-standard sizes with the fax application so if the original's page sizes are mixed or non-standard, these are not counted.
- If the user selects "Mixed Sizes" for copying in the platen mode, the Mixed Size count is enabled.
- In the SADF mode if the user copies 1 page in platen mode and then copies 2 pages with SADF, the Platen count is 1 and the SADF count is 3.

	T:Scan PGS/Org	*CTL	[0 to 9999999/ 0 / 1]			
8 241	These SPs count the total number of scanned pages by original type for all jobs, regardless of which application was used.					
8 242	C:Scan PGS/Org	*CTL	[0 to 9999999/ 0 / 1]			
0 242	These SPs count the number of pages scanned by original type for Copy jobs.					
8 243	F:Scan PGS/Org	*CTL	[0 to 9999999/ 0 / 1]			
	These SPs count the number of pages scanned by original type for Fax jobs.					
8 245	S:Scan PGS/Org	*CTL	[0 to 9999999/ 0 / 1]			
	These SPs count the number of pages scanned by original type for Scan jobs.					

	L:Scan PGS/C	L:Scan PGS/Org		[0 to 9999999/ 0 / 1]					
8 246	server mode sc	These SPs count the number of pages scanned and stored from within the document server mode screen at the operation panel, and with the Store File button from within the Copy mode screen							
	,	8 241	8 242	8 243	8 245	8 246			
8 24x 1: Text		Yes	Yes	Yes	Yes	Yes			
8 24x 2: Text/Photo		Yes	Yes	Yes	Yes	Yes			
8 24x 3: Photo		Yes	Yes	Yes	Yes	Yes			
8 24x 4: GenCopy, Pale		Yes	Yes	No	Yes	Yes			
8 24x 5: Map		Yes	Yes	No	Yes	Yes			
8 24x 6: Normal/Detail		Yes	No	Yes	No	No			
8 24x 7: Fine/Super Fine		Yes	No	Yes	No	No			
8 24x 8: Binary		Yes	No	No	Yes	No			
8 24x 9: Grayscale		Yes	No	No	Yes	No			
8 24x 10: Color		Yes	No	No	Yes	No			
8 24x 11: Ot	her	Yes	Yes	Yes	Yes	Yes			

[•] If the scan mode is changed during the job, for example, if the user switches from ADF to Platen mode, the count is done for the last selected mode.

8 251	T:Scan PGS/ImgEdt	*CTL	These SPs show how many times Image Edit features
8 252	C:Scan PGS/ImgEdt	*CTL	have been selected at the operation panel for each application. Some examples of these editing features
8 255	S:Scan PGS/ImgEdt	*CTL	are:
8 256	L:Scan PGS/ImgEdt	*CTL	• Erase> Border
	, 0		Erase> Center
	O:Scan PGS/ImgEdt	*CTL	Image Repeat
			Centering
			Positive/Negative
8 257			[0 to 9999999/ 0 / 1]
			Note: The count totals the number of times the edit features have been used. A detailed breakdown of exactly which features have been used is not given.

The L: counter counts the number of pages stored from within the document server mode screen at the operation panel, and with the Store File button from within the Copy mode screen.

0.041	T.0	* 0.71		
8 261	T:Scan PGS/ColCr	*CTL	-	
8 262	C:Scan PGS/ ColCr	*CTL	-	
8 265	S:Scn PGS/Color	*CTL	-	
8 266	L:Scn PGS/ColCr	*CTL	-	
8 26x 1	Color Conversion	These SPs show how many times color creation fea		
8 26x 2	Color Erase			
8 26x 3	Background	have been selected at the operation panel.		
8 26x 4	Other			

8 281	T:Scan PGS/TWAIN	*CTL	These SPs count the number of pages scanned using a	
8 285	S:Scan PGS/TWAIN	*CTL	TWAIN driver. These counters reveal how the TWAIN driver is used for delivery functions. [0 to 9999999 / 0 / 1] Note: At the present time, these counters perform identical counts.	

8 291	T:Scan PGS/Stamp	*CTL	These SPs count the number of pages stamped with the stamp in the ADF unit. [O to 9999999/0/1]
8 293	F:Scan PGS/Stamp	*CTL	
8 295	S:Scan PGS/Stamp	*CTL	The L: counter counts the number of pages stored from within the document server mode screen at the operation panel, and with the Store File button from within the Copy mode screen

		1					
	T:Scan PGS/Size	*CTL	[0 to 9999999/ 0 / 1]				
8 301	These SPs count by size the total number of pages scanned by all applications. Use these totals to compare original page size (scanning) and output (printing) page size [SP 8-441].						
	C:Scan PGS/Size	*CTL	[0 to 9999999/ 0 / 1]				
8 302	These SPs count by size the total number of pages scanned by the Copy application. Use these totals to compare original page size (scanning) and output (printing) page size [SP 8-442].						
	F:Scan PGS/Size	*CTL	[0 to 9999999/ 0 / 1]				
8 303	These SPs count by size the total number of pages scanned by the Fax application. Use these totals to compare original page size (scanning) and output page size [SP 8-443].						
	S:Scan PGS/Size	*CTL	[0 to 9999999/ 0 / 1]				
8 305	These SPs count by size the total number of pages scanned by the Scan application. Use these totals to compare original page size (scanning) and output page size [SP 8-445].						
	L:Scan PGS/Size	*CTL	[0 to 9999999/ 0 / 1]				
8 306	These SPs count by size the total number of pages scanned and stored from within the document server mode screen at the operation panel, and with the Store File button from within the Copy mode screen. Use these totals to compare original page size (scanning) and output page size [SP 8-446].						

8 30x 1	A3
8 30x 2	A4
8 30x 3	A5
8 30x 4	B4
8 30x 5	B5
8 30x 6	DLT
8 30x 7	LG
8 30x 8	LT
8 30x 9	НІТ
8 30x 10	Full Bleed
8 30x 254	Other (Standard)
8 30x 255	Other (Custom)

	T:Scan PGS/Rez	*CTL	[0 to 9999999/ 0 / 1]		
8 311	These SPs count by resolution setting the total number of pages scanned by applications that can specify resolution settings.				
	S: Scan PGS/Rez	*CTL	[0 to 9999999/ 0 / 1]		
8 315	These SPs count by resolution setting the total number of pages scanned by applications that can specify resolution settings. Note: At the present time, SP8-311 and SP8-315 perform identical counts.				
8 31x 1	1200dpi <				
8 31x 2	600dpi to 1199dpi				
8 31x 3	400dpi to 599dpi				
8 31x 4	200dpi to 399dpi				
8 31x 5	< 199dpi				

- Copy resolution settings are fixed so they are not counted.
- The Fax application does not allow finely-adjusted resolution settings so no count is done for the Fax application.

	-		
8 381	T:Total PrtPGS	*CTL	
8 382	C:Total PrtPGS	*CTL	These SPs count the number of pages printed by the customer. The counter for the application used for
8 383	F:Total PrtPGS	*CTL	storing the pages increments.
8 384	P:Total PrtPGS	*CTL	[0 to 9999999/ 0 / 1] The L: counter counts the number of pages stored from
8 385	S:Total PrtPGS	*CTL	within the document server mode screen at the
8 386	L:Total PrtPGS	*CTL	operation panel. Pages stored with the Store File button from within the Copy mode screen go to the C: counter.
8 387	O:Total PrtPGS	*CTL	

- When the A3/DLT double count function is switched on with SP5104, 1 A3/DLT page is counted as
 2.
- When several documents are merged for a print job, the number of pages stored are counted for the application that stored them.
- These counters are used primarily to calculate charges on use of the machine, so the following pages are not counted as printed pages:
 - Blank pages in a duplex printing job.
 - Blank pages inserted as document covers, chapter title sheets, and slip sheets.
 - Reports printed to confirm counts.
 - All reports done in the service mode (service summaries, engine maintenance reports, etc.)
 - Test prints for machine image adjustment.
 - Error notification reports.
 - Partially printed pages as the result of a copier jam.

	LSize PrtPGS	*CTL	[0 to 9999999/ 0 / 1]		
8 391	These SPs count pages printed on paper sizes A3/DLT and larger.				
	displayed in the User Tools	. ,	n the SMC Report, these counters are also n the copy machine.		

8 401	T:PrtPGS/LS	*CTL	
8 402	C:PrtPGS/LS	*CTL	These SPs count the number of pages printed from the document server. The counter for the application used
8 403	F:PrtPGS/LS	*CTL	to print the pages is incremented. The L: counter counts the number of jobs stored from
8 404	P:PrtPGS/LS	*CTL	within the document server mode screen at the
8 405	S:PrtPGS/LS	*CTL	operation panel. [0 to 9999999 / 0 / 1]
8 406	L:PrtPGS/LS	*CTL	[[5.5,7,7,7,7]

- Print jobs done with Web Image Monitor and Desk Top Binder are added to the L: count.
- Fax jobs done with Web Image Monitor and Desk Top Binder are added to the F: count.

8 411	Prints/Duplex	*CTL	This SP counts the amount of paper (front/back counted as 1 page) used for duplex printing. Last pages printed only on one side are not counted. [0 to 9999999/0/1]
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8 421	T:PrtPGS/Dup Comb	*CTL	[0 to 9999999/ 0 / 1]				
	These SPs count by binding and combine, and n-Up settings the number of pages processed for printing. This is the total for all applications.						
	C:PrtPGS/Dup Comb	*CTL	[0 to 9999999/ 0 / 1]				
8 422	These SPs count by binding and combine, and n-Up settings the number of pages processed for printing by the copier application.						
	F:PrtPGS/Dup Comb	*CTL	[0 to 9999999/ 0 / 1]				
8 423	These SPs count by binding and combine, and n-Up settings the number of pages processed for printing by the fax application.						
	P:PrtPGS/Dup Comb	*CTL	[0 to 9999999/ 0 / 1]				
8 424	These SPs count by binding and combine, and n-Up settings the number of page processed for printing by the printer application.						
8 425	S:PrtPGS/Dup Comb	*CTL	[0 to 9999999/ 0 / 1]				
	These SPs count by binding and combine, and n-Up settings the number of pages processed for printing by the scanner application.						

	L:PrtPGS/Dup Comb		*CTL	[0 to 9999999/ 0 / 1]	
8 426	These SPs count by binding and combine, and n-Up settings the number of pages processed for printing from within the document server mode window at the opera panel.				
	O:PrtPGS/Dup Comb		*CTL	[0 to 9999999/ 0 / 1]	
8 427	These SPs count by bir processed for printing	-		e, and n-Up settings the number of pages tions	
8 42x 1	Simplex> Duplex				
8 42x 2	Duplex> Duplex				
8 42x 3	Book> Duplex				
8 42x 4	Simplex Combine				
8 42x 5	Duplex Combine				
8 42x 6	2>	2 pag	ges on 1 si	de (2-Up)	
8 42x 7	4>	4 pag	ges on 1 si	de (4-Up)	
8 42x 8	6>	6 pages on 1 side (6-Up)			
8 42x 9	8>	8 pag	ges on 1 si	de (8-Up)	
8 42x 10	9>	9 pag	ges on 1 si	de (9-Up)	
8 42x 11	16>	16 pc	ages on 1	side (16-Up)	
8 42x 12	Booklet				
8 42x 13	Magazine				

- These counts (SP8 421 to SP8 427) are especially useful for customers who need to improve their compliance with ISO standards for the reduction of paper consumption.
- Pages that are only partially printed with the n-Up functions are counted as 1 page.
- Here is a summary of how the counters work for Booklet and Magazine modes:

Вос	klet	Mag	azine
Original Pages Count		Original Pages	Count
1	1	1	1

2	2	2	2
3	2	3	2
4	2	4	2
5	3	5	4
6	4	6	4
7	4	7	4
8	4	8	4

	T:PrtPGS/ImgEdt		*CTL	[0 to 9999999/ 0 / 1]	
8 431	These SPs count the total number of pages output with the three features below, regardless of which application was used.				
	C:PrtPGS/ImgEdt		*CTL	[0 to 9999999/ 0 / 1]	
8 432	These SPs count the tot copy application.	al num	ber of pag	ges output with the three features below with the	
	P:PrtPGS/ImgEdt		*CTL	[0 to 9999999/ 0 / 1]	
8 434	These SPs count the total number of pages output with the three features below with t print application.				
	L:PrtPGS/ImgEdt		*CTL	[0 to 9999999/ 0 / 1]	
8 436		ral number of pages output from within the document server mode ion panel with the three features below.			
	O:PrtPGS/ImgEdt		*CTL	[0 to 9999999/ 0 / 1]	
8 437	These SPs count the tot Other applications.	SPs count the total number of pages output with the three features below with applications.			
8 43x 1	Cover/Slip Sheet	Total number of covers or slip sheets inserted. The count for a cover printed on both sides counts 2.			
8 43x 2	Series/Book	The number of pages printed in series (one side) or printed as a book with booklet right/left pagination.			
8 43x 3	User Stamp	The number of pages printed where stamps were applied, including page numbering and date stamping.			

8 441	T:PrtPGS/Ppr Size	*CTL	[0 to 9999999/ 0 / 1]			
8 441	These SPs count by print paper size the number of pages printed by all applications.					
	C:PrtPGS/Ppr Size	*CTL	[0 to 9999999/ 0 / 1]			
8 442	These SPs count by print pa	per size th	e number of pages printed by the copy			
8 443	F:PrtPGS/Ppr Size	*CTL	[0 to 9999999/ 0 / 1]			
0 443	These SPs count by print pap	oer size the	e number of pages printed by the fax application.			
	P:PrtPGS/Ppr Size	*CTL	[0 to 9999999/ 0 / 1]			
8 444	These SPs count by print paper size the number of pages printed by the printer application.					
	S:PrtPGS/Ppr Size	*CTL	[0 to 9999999/ 0 / 1]			
8 445	These SPs count by print paper size the number of pages printed by the scanner application.					
	L:PrtPGS/Ppr Size	*CTL	[0 to 9999999/ 0 / 1]			
8 446	These SPs count by print paper size the number of pages printed from within the document server mode window at the operation panel.					
8 447	O:PrtPGS/Ppr Size	*CTL	[0 to 9999999/ 0 / 1]			
0 44/	These SPs count by print paper size the number of pages printed by Other applications.					

8 44x 1	A3
8 44x 2	A4
8 44x 3	A5
8 44x 4	B4
8 44x 5	B5
8 44x 6	DLT
8 44x 7	LG
8 44x 8	LT
8 44x 9	HLT
8 44x 10	Full Bleed
8 44x 254	Other (Standard)
8 44x 255	Other (Custom)

• These counters do not distinguish between LEF and SEF.

0.451	PrtPGS/Ppr Tray		*CTL	[0 to 9999999/ 0 / 1]		
8 451	These SPs count t	nese SPs count the number of sheets fed from each paper feed station.				
8 451 1	Bypass	Вура	ss Tray			
8 451 2	Tray 1	Copi	er			
8 451 3	Tray 2	Copier				
8 451 4	Tray 3	Paper Tray Unit (Option)				
8 451 5	Tray 4	Paper Tray Unit (Option)				
8 451 6	Tray 5	LCT (Option)				
8 451 7	Tray 6	Curre	ently not used.			
8 451 8	Tray 7	Currently not used.				
8 451 9	Tray 8	Currently not used.				
8 451 10	Tray 9	Currently not used.				

	T:PrtPGS/Ppr Type	*CTL	[0 to 9999999/ 0 / 1]				
	These SPs count by paper type the number pages printed by all applications.						
8 461	 These counters are not the same as the PM counter. The PM counter is based on feed timing to accurately measure the service life of the feed rollers. However, these counts are based on output timing. 						
	Blank sheets (covers	, chapter cover	s, slip sheets) are also counted.				
	During duplex printing on one side counts of	• • • •	d on both sides count as 1, and a page printed				
8 462	C:PrtPGS/Ppr Type	*CTL	[0 to 9999999/ 0 / 1]				
6 402	These SPs count by pape	r type the numb	er pages printed by the copy application.				
0.440	F:PrtPGS/Ppr Type	*CTL	[0 to 9999999/ 0 / 1]				
8 463	These SPs count by pape	r type the numb	er pages printed by the fax application.				
0.474	P:PrtPGS/Ppr Type	*CTL	[0 to 9999999/ 0 / 1]				
8 464	These SPs count by paper type the number pages printed by the printer application.						
	L:PrtPGS/Ppr Type	*CTL	[0 to 9999999/ 0 / 1]				
8 466	These SPs count by paper type the number pages printed from within the document server mode window at the operation panel.						
8 46x 1	Normal						
8 46x 2	Recycled						
8 46x 3	Special						
8 46x 4	Thick						
8 46x 5	Normal (Back)						
8 46x 6	Thick (Back)						
8 46x 7	ОНР						
8 46x 8	Other						
	PrtPGS/Mag	*CTL	[0 to 9999999/ 0 / 1]				
Q 471	1111 00/ 141dg	CIL	[0 10 ///// 0 / 1]				

These SPs count by magnification rate the number of pages printed.

8 471

8 471 1	< 49%
8 471 2	50% to 99%
8 471 3	100%
8 471 4	101% to 200%
8 471 5	201% <

- Counts are done for magnification adjusted for pages, not only on the operation panel but performed remotely with an external network application capable of performing magnification adjustment as well
- Magnification adjustments done with printer drivers with PC applications such as Excel are also counted.
- Magnification adjustments done for adjustments after they have been stored on the document server are not counted.
- Magnification adjustments performed automatically during Auto Reduce/Enlarge copying are counted.
- The magnification rates of blank cover sheets, slip sheets, etc. are automatically assigned a rate of 100%.

8 481	T:PrtPGS/TonSave	*CTL	
8 484	P:PrtPGS/TonSave	*CTL	
	These SPs count the number of pages printed with the Toner Save feature switched on.		
	Note: These SPs return the same results as this SP is limited to the Print application.		
	[0 to 9999999/ 0 / 1]		

8 491	T:PrtPGS/Col Mode	*CTL	
8 492	C:PrtPGS/Col Mode	*CTL	These SPs count the number of pages
8 493	F:PrtPGS/Col Mode	*CTL	printed in the Color Mode by each
8 496	L:PrtPGS/Col Mode	*CTL	application.
8 497	O:PrtPGS/Col Mode	*CTL	
8 49x 1	B/W		
8 49x 2	Single Color		

8 49x 3	Two Color
8 49x 4	Full Color

8 501	T:PrtPGS/Col Mode	*CTL	These SPs count the number of pages
8 504	P:PrtPGS/Col Mode	*CTL	printed in the Color Mode by the print
8 057	O:PrtPGS/Col Mode	*CTL	application.
8 50x 1	B/W		
8 50x 2	Mono Color		
8 50x 3	Full Color		
8 50x 4	Single Color		
8 50x 5	Two Color		

8 511	T:PrtPGS/Emul	*CTL	[0 to 9999999/ 0 / 1]	
0311	These SPs count by printer emulation mode the total number of pages printed.			
8 514	P:PrtPGS/Emul	*CTL	[0 to 9999999/ 0 / 1]	
6 3 1 4	These SPs count by printer emulation mode the total number of pages printed.			

8 514 1	RPCS
8 514 2	RPDL
8 514 3	PS3
8 514 4	R98
8 514 5	R16
8 5 1 4 6	GL/GL2
8 5 1 4 7	R55
8 514 8	RTIFF
8 514 9	PDF
8 514 10	PCL5e/5c
8 514 11	PCL XL
8 514 12	IPDL-C
8 514 13	BM-Links
8 514 14	Other
8 514 15	IPDS

- SP8 511 and SP8 514 return the same results as they are both limited to the Print application.
- Print jobs output to the document server are not counted.

8 521	T:PrtPGS/FIN	*CTL	[0 to 9999999 / 0 / 1]	
0 321	These SPs count by finishing mode the total number of pages printed by all applications.			
8 522	C:PrtPGS/FIN	*CTL	[0 to 9999999 / 0 / 1]	
	These SPs count by finishing mode the total number of pages printed by the Copy application.			
	F:PrtPGS/FIN	*CTL	[0 to 9999999 / 0 / 1]	
8 523	These SPs count by finishing mode the total number of pages printed by the Fax application. NOTE: Print finishing options for received faxes are currently not available.			

	P:PrtPGS/FIN	*CTL	[0 to 9999999 / 0 / 1]	
8 524	These SPs count by finishing mode the total number of pages printed by the Print application.			
	S:PrtPGS/FIN	*CTL	[0 to 9999999 / 0 / 1]	
8 525	These SPs count by finishing mode the total number of pages printed by the Scann application.			
	L:PrtPGS/FIN	*CTL	[0 to 9999999 / 0 / 1]	
8 526	These SPs count by finishing mode the total number of pages printed from within the document server mode window at the operation panel.			
8 52x 1	Sort			
8 52x 2	Stack			
8 52x 3	Staple	Staple		
8 52x 4	Booklet			
8 52x 5	Z-Fold			
8 52x 6	Punch			
8 52x 7	Other			
8 52x 8	Inside-Fold			
8 52x 9	Three-IN-Fold			
8 52x 10	Three-OUT-Fold			
8 52x 11	Four-Fold			
8 52x 12	KANNON-Fold			
8 52x 13	Perfect-Bind			
8 52x 14	Ring-Bind			

U Note

- If stapling is selected for finishing and the stack is too large for stapling, the unstapled pages are still counted.
- The counts for staple finishing are based on output to the staple tray, so jam recoveries are counted.

8 531	Staples	*CTL		ounts the amount of staples used by the machine.
	T:Counter		*CTL	[0 to 9999999 / 0 / 1]
8 581	application used.	In additi	on to being	en down by color output, regardless of the displayed in the SMC Report, these counters are ay on the copy machine.
8 581 1	Total			
8 581 2	Total: Full Color			
8 581 3	B&W/Single Co	lor		
8 581 4	Development: CA	ΛY		
8 581 5	Development: K			
8 581 6	Copy: Color			
8 581 7	Copy: B/W	Copy: B/W		
8 581 8	Print: Color			
8 581 9	Print: B/W			
8 581 10	Total: Color	Total: Color		
8 581 11	Total: B/W			
8 581 12	Full Color: A3			
8 581 13	Full Color: B4 JIS	or Smal	ler	
8 581 14	Full Color Print			
8 581 15	Mono Color Print	Mono Color Print		
8 581 16	Full Color GPC			
8 581 17	Twin Colour Mod	de Print		
8 581 18	Full Colour Print (Twin)		
8 581 19	Mono Colour Print (Twin)			
8 581 20	Full Colour Total (CV)			

8 581 21	Mono Colour Total (CV)
8 581 22	Full Colour Print (CV)

8 582	C:Counter	*CTL	[0 to 9999999/ 0 / 1]	
	These SPs count the total o	SPs count the total output of the copy application broken down by color output.		
8 582 1	B/W			
8 582 2	Single Color			
8 582 3	Two Color			
8 582 4	Full Color			

8 583	F:Counter	*CTL	[0 to 9999999/ 0 / 1]
	These SPs count the total output of the fax application broken down by color output.		
8 583 1	B/W		
8 583 2	Single Color		

8 584	P:Counter	*CTL	[0 to 9999999/ 0 / 1]	
	These SPs count the total output of the print application broken down by color output			
8 584 1	B/W	B/W		
8 584 2	Mono Color			
8 584 3	Full Color			
8 584 4	Single Color			
8 584 5	Two Color			

8 586	L:Counter	*CTL	[0 to 9999999/ 0 / 1]
	These SPs count the total output of the local storage broken down by color output.		
8 582 1	B/W		
8 582 2	Single Color		

8 582 3	Two Color
8 582 4	Full Color

	O:Counter	*CTL	[0 to 9999999/ 0 / 1]	
8 591		the totals for A3/DLT paper use, number of duplex pages printed, and aples used. These totals are for Other (O:) applications only.		
8 591 1	A3/DLT			
8 591 2	Duplex			

	Coverage Counter	*CTL	[0 to 9999999/ 0 / 1]	
8 601	These SPs count the total or printing mode.	e total coverage for each color and the total printout pages for each		
8 601 1	B/W			
8 601 2	Color			
8 601 11	B/W Printing Pages			
8 601 12	Color Printing Pages			
8 601 21	Coverage Counter 1			
8 601 22	Coverage Counter 2			
8 601 23	Coverage Counter 3			

0.417	SDK Apli Counter	*CTL	[0 to 9999999/ 0 / 1]	
8 617	These SPs count the total pri	e SPs count the total printout pages for each SDK applicaion.		
8 617 1	SDK-1			
8 617 2	SDK-2			
8 617 3	SDK-3			
8 617 4	SDK-4	-		
8 617 5	SDK-5			
8 617 6	SDK-6			

8 631	T:FAX TX PGS	*CTL	[0 to 9999999/ 0 / 1]
0 03 1	These SPs count by color mo	node the number of pages sent by fax to a telephone number.	
0.422	F:FAX TX PGS	*CTL	[0 to 9999999/ 0 / 1]
8 633	These SPs count by color mode the number of pages sent by fax to a teleph		er of pages sent by fax to a telephone number.
8 63x 1	B/W		
8 63x 2	Color		

- If a document has color and black-and-white pages mixed, the pages are counted separately as B/W or Color.
- At the present time, this feature is provided for the Fax application only so SP8631 and SP8633 are
 the same
- The counts include error pages.
- If a document is sent to more than one destination with a Group transmission, the count is done for each destination.
- Polling transmissions are counted but polling RX are not.
- Relay, memory, and confidential mailbox transmissions and are counted for each destination.

T:IFAX TX PGS		*CTL	[0 to 9999999/ 0 / 1]		
8 641	These SPs count by color mode the number of pages sent by fax to as fax images using I-Fax.				
	F:IFAX TX PGS	*CTL	[0 to 9999999/ 0 / 1]		
8 643	These SPs count by color mode the number of pages sent by Fax as fax images using I-Fax.				
8 64x 1	B/W				
8 64x 2	Color				

- If a document has color and black-and-white pages mixed, the pages are counted separately as B/W or Color.
- At the present time, this feature is provided for the Fax application only so SP8641 and SP8643 are
 the same.
- The counts include error pages.
- If a document is sent to more than one destination with a Group transmission, the count is done for each destination.

- Polling transmissions are counted but polling RX are not.
- Relay, memory, and confidential mailbox transmissions and are counted for each destination.

	T:S-to-Email PGS	*CTL	[0 to 9999999/ 0 / 1]		
8 651	These SPs count by color mode the total number of pages attached to an e- the Scan and document server applications.				
	S:S-to-Email PGS	*CTL	[0 to 9999999/ 0 / 1]		
8 655	These SPs count by color mode the total number of pages attached to an e-Scan application only.				
8 65x 1	B/W				
8 65x 2	Color				



- The count for B/W and Color pages is done after the document is stored on the HDD. If the job is cancelled before it is stored, the pages are not counted.
- If Scan-to-Email is used to send a 10-page document to 5 addresses, the count is 10 (the pages are sent to the same SMTP server together).
- If Scan-to-PC is used to send a 10-page document to 5 folders, the count is 50 (the document is sent to each destination of the SMB/FTP server).
- Due to restrictions on some devices, if Scan-to-Email is used to send a 10-page document to a large number of destinations, the count may be divided and counted separately. For example, if a 10-page document is sent to 200 addresses, the count is 10 for the first 100 destinations and the count is also 10 for the second 100 destinations, for a total of 20.).

	T:Deliv PGS/Svr	*CTL	[0 to 9999999/ 0 / 1]			
8 661	These SPs count by color mode the total number of pages sent to a Scan Router server by both Scan and LS applications.					
	S:Deliv PGS/Svr	*CTL	[0 to 9999999/ 0 / 1]			
8 665	These SPs count by color mode the total number of pages sent to a Scan Router server by the Scan application.					
8 66x 1	B/W					
8 66x 2	Color					



- The B/W and Color counts are done after the document is stored on the HDD of the Scan Router server
- If the job is canceled before storage on the Scan Router server finishes, the counts are not done.
- The count is executed even if regardless of confirmation of the arrival at the Scan Router server.

	T:Deliv PGS/PC	*CTL	[0 to 9999999/ 0 / 1]			
8 671	These SPs count by color mode the total number of pages sent to a folder on a PC (Scanto-PC) with the Scan and LS applications.					
	S:Deliv PGS/PC *CTL [0 to 9999999/ 0 / 1]					
8 675	These SPs count by color mo	by color mode the total number of pages sent with Scan-to-PC with the n.				
8 67x 1	B/W					
8 67x 2	Color					

8 681	T:PCFAX TXPGS	*CTL	These SPs count the number of pages sent by PC Fax.
8 683	F:PCFAX TXPGS	*CTL	These SPs are provided for the Fax application only, so the counts for SP8 681 and SP8 683 are the same. [O to 9999999/ 0 / 1]

- This counts pages sent from a PC using a PC fax application, from the PC through the copier to the destination.
- When sending the same message to more than one place using broadcasting, the pages are only
 counted once. (For example, a 10-page fax is sent to location A and location B. The counter goes
 up by 10, not 20.)

8 691	T:TX PGS/LS	*CTL	These SPs count the number of pages sent from the
8 692	C:TX PGS/LS	*CTL	document server. The counter for the application that was used to store the pages is incremented.
8 693	F:TX PGS/LS	*CTL	[0 to 9999999/ 0 / 1]
8 694	P:TX PGS/LS	*CTL	The L: counter counts the number of pages stored from within the document server mode screen at the
8 695	S:TX PGS/LS	*CTL	operation panel. Pages stored with the Store File button from within the Copy mode screen go to the C:
8 696	L:TX PGS/LS	*CTL	counter.

U Note

- Print jobs done with Web Image Monitor and Desk Top Binder are added to the count.
- If several documents are merged for sending, the number of pages stored are counted for the application that stored them.
- When several documents are sent by a Fax broadcast, the F: count is done for the number of pages sent to each destination.

	TX PGS/Port	*CTL	[0 to 9999999/ 0 / 1]		
8 701		mber of pages sent by the physical port used to send them. For original is sent to 4 destinations via ISDN G4, the count for ISDI			
8 701 1	PSTN-1				
8 701 2	PSTN-2				
8 701 3	PSTN-3				
8 701 4	ISDN (G3,G4)				
8 701 5	Network				

8 711	T:Scan PGS/Comp	*CTL	[0 to 9999999/ 0 / 1]
0.715	S:Scan PGS/Comp	*CTL	[0 to 9999999/ 0 / 1]
8 715 These SPs count the number of pages se		ages sent k	by each compression mode.
8 715 1	JPEG/JPEG2000		
8 715 2	TIFF(Multi/Single)		
8 715 3	PDF		
8 715 4	Other		
8 715 5	PDF/Comp		

8 721	T:Deliv PGS/WSD	*CTL	[0 to 0000000 / 0 / 1]		
8 725	S: Dvliv PGS/WSD	*CTL	[0 to 9999999/ 0 / 1]		
0 / 23	These SPs count the number of pages scanned by each scanner mode.				
x 1	B/W	-			

x 2 Color -		x 2	Color	-
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8 731	T:Scan PGS/Media	*CTL	[0 to 9999999/ 0 / 1]
	S:Scan PGS/Media	*CTL	[0 10 9999999/ 0/ 1]
8 735	ed and saved in a meia by each scanner		
x 1	B/W	-	
x 2	Color	-	

	RX PGS/Port	*CTL	[0 to 9999999/ 0 / 1]
8 741	These SPs count the num	ber of pag	les received by the physical port used to receive them.
8 741 1	PSTN-1		
8 741 2	PSTN-2		
8 741 3	PSTN-3		
8 741 4	ISDN (G3,G4)		
8 741 5	Network		

	Dev Counter	*CTL	[0 to 9999999/ 0 / 1]			
8 771	These SPs count the frequency of use (number of rotations of the development rollers) for black and other color toners.					
8 771 1	Total					
8 771 2	К					
8 771 3	Υ					
8 771 4	М					
8 771 5	С					

	٥.	*ENG	[0 to 9999999/ 0 / 1]							
8 781	NOTE: Currentl	ntly, the data in SP7-833-011 through 014 and the data in SP8-781-00					Ps display the number of already replaced toner bottles. Currently, the data in SP7-833-011 through 014 and the data in SP8-781-00 004 are the same.			
8 781 1	Toner: BK	The number of black-toner bottles								
8 781 2	Toner: Y	The number of yellow-toner bottles								
8 781 3	Toner: M	The number of magenta-toner bottles								
8 781 4	Toner: C	The number of cyan-toner bottles								

8 791	LS Memory Remain	*CTL	This SP displays the percent of space available on the document server for storing documents. [0 to 100 / 0 / 1]			
	Toner Remain	*CTL	[0 to 100/ 0 /1]			
8 801	These SPs display the percent of toner remaining for each color. This SP allows the user to check the toner supply at any time.					
	Note: This precise method of measuring remaining toner supply (1% steps) is better than other machines in the market that can only measure in increments of 10 (10% steps).					
8 801 1	K Y					
8 801 2						
8 801 3	М					
8 801 4	С					

	Coverage Count: 0-10%	*ENG	[0 to 9999999/ 0 / 1]		
8 851	These SPs display the number of scanned sheets on which the coverage of each color is from 0% to 10%.				
8 851 11	O to 2%: BK	8 851 31	5 to 7%: BK		
8 851 12	0 to 2%: Y	8 851 32	5 to 7%: Y		
8 851 13	0 to 2%: M	8 851 33	5 to 7%: M		
8 851 14	0 to 2%: C	8 851 34	5 to 7%: C		

8 851 21	3 to 4%: BK	8 851 41	8 to 10%: BK
8 851 22	3 to 4%: Y	8 851 42	8 to 10%: Y
8 851 23	3 to 4%: M	8 851 43	8 to 10%: M
8 851 24	3 to 4%: C	8 851 44	8 to 10%: C

	Coverage Count: 11-20%	*ENG	[0 to 9999999/ 0 / 1]		
8 861	These SPs display the number of scanned sheets on which the coverage of each color is from 11% to 20%.				
8 861 1	ВК				
8 861 2	Υ				
8 861 3	М				
8 861 4	С				

	Coverage Count: 21-30%	*ENG	[0 to 9999999/ 0 / 1]		
8 871	These SPs display the number of scanned sheets on which the coverage of each color is from 21% to 30%.				
8 871 1	ВК				
8 871 2	Y				
8 871 3	М				
8 871 4	С				

	Coverage Count: 31%-	*ENG	[0 to 9999999/ 0 / 1]		
8 881	These SPs display the number of scanned sheets on which the coverage of each color is 31% or higher.				
8 881 1	ВК				
8 881 2	Υ				
8 881 3	М				
8 881 4	С				

8 891	Page/Toner Bottle	*ENG	[0 to 9999999/ 0 / 1]		
0 091	These SPs display the amount of the remaining current toner for each color.				
8 891 1	ВК				
8 891 2	Υ				
8 891 3	М				
8 891 4	С				

8 901	Page/Toner_prev1	*ENG	[0 to 9999999/ 0 / 1]		
6 901	These SPs display the amount of the remaining previous toner for each color.				
8 901 1	ВК				
8 901 2	Υ				
8 901 3	М				
8 901 4	С				

8 911	Page/Toner_prev2	*ENG	[0 to 9999999/ 0 / 1]		
0 911	These SPs display the amount of the remaining 2nd previous toner for each color.				
8 9 1 1 1	ВК				
8 911 2	Υ				
8 911 3	М				
8 9 1 1 4	С				

8 921	Coverage Count: Total	*CTL	[0 to 9999999/ 0 / 1]
0 921	Displays the total coverage and t	otal printo	ut number for each color.

8 921 1	BK (%)
8 921 2	Y (%)
8 921 3	M (%)
8 921 4	C (%)
8 921 11	Coverage /P: Bk
8 921 12	Coverage /P: Y
8 921 13	Coverage /P: M
8 921 14	Coverage /P: C

	Machine Status	*CTL	[0 to 9999999/ 0 / 1]	
8 941	These SPs count the amount of time the machine spends in each operation mode. These SPs are useful for customers who need to investigate machine operation for improvement in their compliance with ISO Standards.			
8 941 1	Operation Time	0 1	ation time. Does not include time while controller ta to HDD (while engine is not operating).	
8 941 2	Standby Time	Engine not operating. Includes time while controller saves data to HDD. Does not include time spent in Energy Save, Low Power, or Off modes.		
8 941 3	Energy Save Time	Includes time while the machine is performing background printing.		
8 941 4	Low Power Time	Includes time in Energy Save mode with Engine on. Includes time while machine is performing background printing.		
8 941 5	Off Mode Time	Includes time while machine is performing background printing. Does not include time machine remains powered off with the power switches.		
8 941 6	SC	Total time when SC errors have been staying.		
8 941 7	PrtJam	Total time when paper jams have been staying during printing.		
8 941 8	OrgJam	Total time w scanning.	hen original jams have been staying during	

	8 941 9	Supply PM Unit End	Total time when toner end has been staying	
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8 951	AddBook Register		*CTL		
0 931	These SPs count the I	number of	events when	the machine m	anages data registration.
8 951 1	User Code	User cod	e registration	s.	
8 951 2	Mail Address	Mail add	lress registrat	ions.	
8 951 3	Fax Destination	Fax desti	nation registr	ations.	
8 951 4	Group	Group de	estination reg	istrations.	[0 to 9999999/ 0 / 1]
8 951 5	Transfer Request	Fax relay destination registrations for relay TX.			
8 951 6	F-Code	F-Code box registrations.			
8 951 7	Copy Program	Copy application registrations with the Program (job settings) feature.			
8 951 8	Fax Program		Fax application registrations with the Program (job settings) feature.		
8 951 9	Printer Program	Printer application registrations with the Program (job settings) feature.		[0 to 255 / 0 / 255]	
8 951 10	Scanner Program		application re Program (job	•	

8 999	Adomin. Counter List	*CTL	[0 to 9999999/ 0 / 1]
Displays the total coverage and total printout number for each color.			

8 999 1	Total
8 999 2	Copy: Full Color
8 999 3	Copy: BW
8 999 4	Copy: Single Color
8 999 5	Copy: Two Color
8 999 6	Printer Full Color
8 999 7	Printer BW
8 999 8	Printer Single Color
8 999 9	Printer Two Color
8 999 10	Fax Print: BW
8 999 12	A3/DLT
8 999 13	Duplex
8 999 14	Coverage: Color (%)
8 999 15	Coverage: BW (%)
8 999 16	Coverage: Color Print Page (%)
8 999 17	Coverage: BW Print Page (%)
8 999 101	Transmission Total: Color
8 999 102	Transmission Total: BW
8 999 103	FAX Transmission
8 999 104	Scanner Transmission: Color
8 999 105	Scanner Transmission: BW

Input and Output Check

Input Check Table

When entering the Input Check mode, 8 digits display the result for a section. Each digit corresponds to a different device as shown in the table.

Bit No.	7	6	5	4	3	2	1	0	
Result	0 or 1								

Copier

5803	Description	Rea	ding
3603	Description	0	1
5803 1	2nd Tray Size Detection	See table 2 following	g this table.
5803 2	1 st Tray Set Detection	Set	Not set
5803 3	1 st Tray Paper Height Sensor 1	See table 1 following	g this table.
5803 4	1 st Tray Paper Height Sensor2	See table 1 following	g this table.
5803 5	2nd Tray Paper Height Sensor 1	See table 1 following	g this table.
5803 6	2nd Tray Paper Height Sensor2	See table 1 following this table.	
5803 7	O3 7 1st Tray Paper End Detection No paper Paper re		Paper remaining
5803 8	2nd Tray Paper End Detection	No paper	Paper remaining
5803 9	1 st Tray Upper Limit Sensor	Not upper limit Upper limit	
5803 10	2nd Tray Upper Limit Sensor	Not upper limit	Upper limit
5803 11	Bypass Paper Width Detection	See table 3 following	g this table.
5803 12	Bypass Paper End Detection	No paper Paper remaining	
5803 13	Bypass Paper Length Detection	ion See table 3 following this table.	
5803 14	1st Paper Feed Sensor Paper detected Paper not dete		Paper not detected
5803 15	2 nd Paper Feed Sensor	Paper detected	Paper not detected

3

Exit Sensor	D 1 1	
	Paper detected	Paper not detected
Tray Full Exit Sensor	Paper not full	Paper full
Fusing Exit Sensor	Paper not detected	Paper detected
Fusing Entrance Sensor	Paper detected	Paper not detected
1 st Feed Sensor	Paper detected	Paper not detected
2 nd Feed Sensor	Paper detected	Paper not detected
Duplex Exit Sensor	Paper detected	Paper not detected
Registration Sensor	Paper detected	Paper not detected
Duplex Entrance Sensor	Paper detected	Paper not detected
Junction Sensor	Paper detected	Paper not detected
2nd Tray Set Detection	Set	Not set
Toner End Sensor: Bk	Toner end	Toner remaining
Toner End Sensor: M	Toner end	Toner remaining
Toner End Sensor: C	Toner end	Toner remaining
Toner End Sensor: Y	Toner end	Toner remaining
Drum Phase Sensor: Bk	Actuator not detected	Actuator detected
Drum Phase Sensor: M	Actuator not detected	Actuator detected
Drum Phase Sensor: C	Actuator not detected	Actuator detected
Drum Phase Sensor: Y	Actuator not detected	Actuator detected
Interlock Release Detection 1	Front door open	Front door closed
Interlock Release Detection 2	Front door open	Front door closed
Right Door Closed		Open
Duplex Cover	Closed	Open
	Fusing Exit Sensor Fusing Entrance Sensor Itst Feed Sensor 2nd Feed Sensor Duplex Exit Sensor Registration Sensor Duplex Entrance Sensor unction Sensor 2nd Tray Set Detection Foner End Sensor: Bk Foner End Sensor: C Foner End Sensor: Y Drum Phase Sensor: M Drum Phase Sensor: C Drum Phase Sensor: C Drum Phase Sensor: Y Interlock Release Detection 1 Interlock Release Detection 2	Fusing Exit Sensor Paper not detected Fusing Entrance Sensor Paper detected Paper detected

5803 42	Toner Collection Bottle Set	Set	Not set	
5803 43	Toner Collection Full Sensor	Not full	Full	
5803 46	ITB New Unit Detection	Not new	New	
5803 49	Duplex Fan: Lock	Normal	Lock	
5803 50	Airflow Fan: Front: Lock	Normal	Lock	
5803 51	Airflow Fan: Rear: Lock	Normal	Lock	
5803 52	Fusing Exit Fan: Lock	Normal	Lock	
5803 53	2nd Duct Fan: Lock	Normal	Lock	
5803 54	3rd Duct Fan: Lock	Normal	Lock	
5803 55	Paper Exit Fan:Lock	Normal	Lock	
5803 56	Fusing Coil Fan: Lock	Normal	Lock	
5803 57	IH Power Supply Cooling Fan: Lock	Normal	Lock	
5803 58	Airflow Fan: Middle 1: Lock	Not used		
5803 59	Airflow Fan: Middle 2: Lock	Not used		
5803 60	ITB Contact Motor Position	Not contact	Contact	
5803 61	Paper Transfer Contact Motor Position	Not contact	Contact	
5803 62	Toner Relay Motor: Lock	Normal	Lock	
5803 63	ITB Drive Motor: Lock	Normal	Lock	
5803 64	K Drum/Development Drive Motor: Lock	Normal	Lock	
5803 65	M Drum/Development Drive Motor: Lock	Normal	Lock	
5803 66	C Drum/Development Drive Motor: Lock	Normal	Lock	
5803 67	Y Drum/Development Drive Motor: Lock	Normal	Lock	
5803 68	Fusing Exit Motor:Lock	Normal	Lock	
5803 80	HVPS:TTS:SC Detection	SC detected	No SC	
5803 81	HVPS:CB:SC Detection	SC detected	No SC	
5803 82	HVPS:D:SC Detection	SC detected	No SC	

5803 83	Fusing Destination Detection: DOM (Dom)	Set	Not set
5803 84	Fusing Destination Detection: NA	Set	Not set
5803 87	Fusing New Unit Detection	New	Not new
5803 90	Zero-cross Signal	-	-
5803 91	Fusing Rotation Sensor	Actuator not detected	Actuator detected
5803 92	Fusing Pressure Release Sensor	Not contact	Contact
5803 94	GAVD Open/Close Detection	Closed (LD5V ON)	Open (LD5V OFF)
5803 100	Keycard: Set	Set	Not set
5803 101	Mechanical Counter: Set	Set	Not set
5803 102	Mechanical Counter FC: Set	Set	Not set
5803 103	Key Counter: Set	Set	Not set
5803 110	IOB Version	-	-
5803 200	Scanner HP Sensor	Not HP	HP
5803 201	Platen Cover Sensor	Open	Closed

Table 1: Paper Height Sensor

0: Deactivated, 1: Activated (actuator inside sensor)

Remaining paper	Paper height sensor 1	Paper height sensor 2
Full	0	0
Nearly full	1	0
Near end	1	1
Almost empty	0	1

Table 2: Paper Size Switch (Tray 2)

Switch 1 is used for tray set detection.

0: Pushed, 1: Not pushed

Models		S	Switch Location	
North America	Europe/Asia	4 (bit0)	3 (bit1)	2 (bit2)
11" x 17" SEF ^{*1} (A3 SEF)	A3 SEF ^{*1} (11" x 17" SEF)	0	0	1
8.5" x 14" SEF ^{*2} (B4 SEF)	B4 SEF ^{*2} (8.5" x 14" SEF)	0	0	0
A4 SEF	A4 SEF	1	1	0
8.5" x 11" SEF	8.5" x 11" SEF	1	1	1
B5 SEF	B5 SEF	0	1	1
11" x 81/2" LEF ^{*3} (A4 LEF)	A4 LEF ^{*3} (11" x 81/2" LEF)	1	0	0
10.5" x 7.25" LEF ^{*4} (B5 LEF)	B5 LEF ^{*4} (10.5" x 7.25" LEF)	0	1	0
A5 LEF	A5 LEF	1	0	1

^{*1:} The machine detects either 11" x 17" SEF or A3 SEF, depending on the setting of SP 5-181-003.

ADF (D541)

4007	D	Reading		
6007	Description	0	1	
6007 1	Original Length 1 (B5 Detection Sensor)	Paper not detected	Paper detected	
6007 2	Original Length 2 (A4 Detection Sensor)	Paper not detected	Paper detected	
6007 3	Original Length 3 (LG Detection Sensor)	Paper not detected	Paper detected	
6007 4	Original Width S	Paper not detected	Paper detected	

^{*2:} The machine detects either 8.5" x 14" SEF or B4 SEF, depending on the setting of SP 5-181-004.

 $^{^*}$ 3: The machine detects either 11" x 81/2" LEF or A4 LEF, depending on the setting of SP 5-181-002.

 $^{^*}$ 4: The machine detects either B5 LEF or 10.5" x 7.25" LEF, depending on the setting of SP 5-181-005.

6007 5	Original Width M	Paper not detected	Paper detected
6007 6	Original Width L	Paper not detected	Paper detected
60077	Original Width LL	Paper not detected	Paper detected
6007 9	Original Detection	Paper not detected	Paper detected
6007 10	Rear Edge Detection	Paper not detected	Paper detected
6007 11	Skew Correction	Paper not detected	Paper detected
6007 13	Registration Sensor	Paper not detected	Paper detected
6007 14	Exit Sensor	Paper not detected	Paper detected
6007 15	Feed Cover	ADF cover close	ADF cover open
6007 16	Lift Up	ADF cover close	ADF cover open

1000-Sheet Booklet Finisher (B793)

6138	Description	Reading	
0136	Description	0	1
6138 1	Interference Escape Sensor (Stapler Safety Sensor)	Not interfered	Interfered
6138 2	Staple Moving HP Sensor (Staple Unit HP Sensor)	Not home position	Home position
6138 3	Stuck Relay 1 Release HP Sensor (Stopper S HP Sensor)	Not home position	Home position
6138 4	Exit Junction Gate HP Sensor (Stack Feed Out HP Sensor)	Home position	Not home position
6138 5	Jogger HP Sensor (Jogger Fence HP Sensor)	Not home position	Home position
6138 6	Staple Tray Paper Sensor (Staple Tray Paper Sensor)	Paper not detected	Paper detected

/100	D	Read	ling	
6138	Description	0	1	
61387	Rear Edge Fence HP Sensor (Paper Stack Stopper HP Sensor)	Not home position	Home position	
6138 8	Saddle Stitch Exit Sensor	Paper detected	Paper not detected	
6138 9	Stuck Relay2 Roller HP Sensor (Clamp Roller HP Sensor)	Home position	Not home position	
6138 10	Folder Tray Full Sensor 1 (Bottom Tray HP 1 Sensor)	Full	Not full	
6138 11	Folder Tray Full Sensor 2 (Bottom Tray HP 2 Sensor)	Not full	Full	
6138 12	Folder Plate HP Sensor (Fold Plate HP Sensor)	Not home position	Home position	
6138 13	Saddle Stitch Arrival Sensor (Fold Unit Entrance Sensor)	Paper not detected	Paper detected	
6138 14	Folder Cam HP Sensor (Fold Plate Cam HP Sensor)	Not home position	Home position	
6138 15	Staple Exit Sensor (Stapler Tray Exit Sensor)	Paper detected	Paper not detected	
6138 16	Shift Tray Paper Sensor (Shift Tray Paper Position Sensor)	Shift tray not detected	Shift tray detected	
6138 17	Shift Tray Full	Full	Nor full	
6138 18	Shift Roller HP Sensor	Not home position	Home position	
6138 20	Entrance Sensor (Finisher Entrance Sensor)	Paper detected	Paper not detected	
6138 21	Shift Exit Sensor (Shift Tray Exit Sensor)	Paper not detected	Paper detected	

/100	D	Reading	
6138	Description	0	1
6138 22	Proof Exit Sensor (Proof Tray Exit Sensor)	Paper detected	Paper not detected
6138 23	Exit Guide Plate HP Sensor	Not home position	Home position
6138 24	Proof Full Sensor (Proof Tray Full Sensor)	Not full	Full
6138 25	Upper Cover Sensor	Open	Close
6138 26	Door SW (Front Door Switch)	Close	Open
6138 27	Clincher Timing Sensor	Enco	der
6138 28	Clincher HP Sensor	Home position	Not home position
6138 29	Driver Timing Sensor	Enco	der
6138 30	Staple Near End	Staple remaining	Staple near end
6138 31	Self Priming	Staple detected	Staple not detected
6138 32	Driver HP Sensor	Home position	Not home position
6138 33	Punch Registration Detection HP Sensor	Not home position	Home position
6138 34	Punch Moving HP Sensor (Punch Movement HP Sensor)	Not home position	Home position
6138 35	Punch HP Sensor (Punch HP Sensor)	Home position	Not home position
6138 36	Punch Pulse Count Sensor (Punch Encoder Sensor)	Encoder	
6138 37	Punch Chad Full Sensor (Punch Hopper Full Sensor)	Not full	Full
6138 38	Punch Registration Detection Sensor (Paper Position Sensor)	Paper detected	Paper not detected

1000-Sheet Finisher (B408)

4120	D.	Danish	Read	ing	
6139	Bit	Description	0	1	
6139 1	Entra	nce Sensor	Paper detected	Paper not detected	
61392		Exit Sensor er Tray Exit Sensor)	Paper not detected	Paper detected	
61393		e Entrance Sensor ler Tray Entrance Sensor)	Paper detected	Paper not detected	
6139 4		e Moving HP Sensor ler HP Sensor)	Not home position	Home position	
6139 5		er HP Sensor Jer Fence HP Sensor)	Not home position	Home position	
61396	Stack	Feed-out Belt HP Sensor	Home position	Not home position	
61397	Stapl	e Tray Paper Sensor	Paper not detected	Paper detected	
61398		e Rotation Sensor le Rotation HP Sensor)	Not home position	Home position	
6139 9	Stapl	e Sensor	Staple detected	Staple not detected	
6139 10	Stapl	e READY Detection	Staple detected	Staple not detected	
6139 11		Guide Plate HP Guide Plate HP Sensor)	Not home position	Home position	
6139 12	Shift I	HP Sensor	Not home position	Home position	
6139 13		r Sensor k Height Sensor)	Output tray not detected	Output tray detected	
6139 14	·	Lower Sensor er Tray Lower Limit Sensor)	Lower limit	Not lower limit	
6139 15		Full Sensor er Limit Sensor)	Not full	Full	

500-Sheet Finisher (D372)

/1/5	December	Rec	ıding
6145	Description	0	1
6145 1	Entrance Sensor	Paper detected	Paper not detected
6145 2	Hitroll HP Sensor	Paper not detected	Paper detected
6145 3	Front Jogger HP Sensor (Front Jogger Fence HP Sensor)	Home position	Not home position
6145 4	Rear Jogger HP Sensor (Rear Jogger Fence HP Sensor)	Home position	Not home position
6145 5	Staple Tray Paper Sensor	Paper detected	Paper not detected
6145 6	Staple Moving HP Sensor	Not HP	НР
6145 7	Stack Feed-out Belt HP	Not HP	НР
6145 8	Shift Tray Paper Sensor	Paper detected	Paper not detected
6145 9	Upper Cover Sensor	HP	Not HP
6145 10	Staple Rotation Sensor	HP	Not HP
6145 11	Staple Near End	HP	Not HP
6145 12	Self Priming	HP	Not HP
6145 13	Shift Tray Limit Sensor	Not full	Full

Bridge Unit (D386)/ Side Tray (D542)

(150	Description	Reading	
6150		0	1
6150 1	Bridge/Left: Exit Sensor	Paper detected	Paper not detected
61502	Bridge/Left: Feed Sensor	Paper detected	Paper not detected
61503	Bridge/Left: Shift Set Detection	Set	Not set
61504	Bridge/Left: Exit Cover Detection	Closed	Open

61505	Bridge/Left: Feed Cover Detection	Closed	Open
61506	Left/Left Exit Sensor	Paper detected	Paper not detected

Internal Shift Tray (D388)

6152	Description	Reading	
0132	Description	0	1
6152 1	Shift:Set Sensor	Set	Not Set
6152 2	Shift: Position Sensor	Tray position: front	Tray position: rear

1 Bin Tray (D536)

6154	Description	Reading	
0134	6154 Description	0	1
61541	1 bin: Set Sensor	Set	Not Set
61542	1 bin: Paper Sensor	Paper detected	Paper not detected

One or Two-Tray PFU (D387/D537)/ LCIT 2000 (D538)/ LCIT 1200 (D539)

6160	Description	Reading	
		0	1
61601	Bank: Tray3: Feed Sensor	Paper not detected	Paper detected
61602	Bank: Tray4: Feed Sensor	Paper not detected	Paper detected
61603	Bank: Tray5: Feed Sensor	Paper not detected	Paper detected
61604	Bank: Tray3: Relay Sensor	Paper not detected	Paper detected
61605	Bank: Tray4: Relay Sensor	Paper not detected	Paper detected
61606	Bank: Tray5: Relay Sensor	Paper not detected	Paper detected
61607	Bank: Feed Cover Detection	Closed	Open

6160 11	Bank: Palau: Paper Supply Switch	Closed	Open
6160 12	Bank: Palau: Slide Switch	Closed	Open

Output Check Table

Copier

5804	Display	Description
5804 3	Drum/Dev Motor: K: HighSpeed	Drum/Development Drive Motor-K: HighSpeed
5804 4	Drum/Dev Motor: K: MiddleSpeed	Drum/Development Drive Motor-K: Middle Speed
5804 5	Drum/Dev Motor: K: LowSpeed	Drum/Development Drive Motor-M: Low Speed
5804 10	Drum/Dev Motor: M: HighSpeed	Drum/Development Drive Motor- C: HighSpeed
5804 11	Drum/Dev Motor: M: MiddleSpeed	Drum/Development Drive Motor-Y: Middle Speed
5804 12	Drum/Dev Motor: M: LowSpeed	Drum/Development Drive Motor-Y: Low Speed
5804 17	Drum/Dev Motor: C: HighSpeed	Drum/Development Drive Motor- C: HighSpeed
5804 18	Drum/Dev Motor: C: MiddleSpeed	Drum/Development Drive Motor-Y: Middle Speed
5804 19	Drum/Dev Motor: C: LowSpeed	Drum/Development Drive Motor-Y: Low Speed
5804 24	Drum/Dev Motor: Y: HighSpeed	Drum/Development Drive Motor- C: HighSpeed
5804 25	Drum/Dev Motor: Y: MiddleSpeed	Drum/Development Drive Motor-Y: Middle Speed
5804 26	Drum/Dev Motor: Y: LowSpeed	Drum/Development Drive Motor-Y: Low Speed
5804 31	Fusing Exit Motor: HighSpeed	Fusing/Paper Exit Motor: HighSpeed
5804 32	Fusing Exit Motor: MiddleSpeed	Fusing/Paper Exit Motor: Middle Speed

5804 33	Fusing Exit Motor: LowSpeed	Fusing/Paper Exit Motor: Low Speed
5804 35	Fusing Exit Motor: LLowSpeed	Fusing/Paper Exit Motor: LLowSpeed
5804 37	Toner Relay Motor	Toner Transport Motor
5804 40	Image Transfer Motor: HighSpeed	ITB Drive Motor: HighSpeed
5804 41	Image Transfer Motor: MiddleSpeed	ITB Drive Motor: Middle Speed
5804 42	Image Transfer Motor: LowSpeed	ITB Drive Motor: Low Speed
5804 50	Feed Motor: HighSpeed	Paper Feed Motor: High Speed
5804 51	Feed Motor: IncreaseSpeed	Paper Feed Motor: Increase Speed
5804 52	Feed Motor: MiddleSpeed	Paper Feed Motor: Middle Speed
5804 53	Feed Motor: MiddleIncreaseSpeed	Paper Feed Motor: Middle Increase Speed
5804 54	Feed Motor: LowSpeed	Paper Feed Motor: Low Speed
5804 55	Feed Motor: LowInceraseSpeed	Paper Feed Motor: Low Incerase Speed
5804 60	Regist Motor: HighSpeed	Registration Motor: High Speed
5804 61	Regist Motor: MiddleSpeed	Registration Motor: Middle Speed
5804 62	Regist Motor: LowSpeed	Registration Motor: Low Speed
5804 67	Duplex Feed M:CW:HighSpeed	Duplex/By-pass Motor: CW: High Speed
5804 68	Duplex Feed M:CW:MiddleSpeed	Duplex/By-pass Motor: CW: Middle Speed
5804 69	Duplex Feed Motor: CW: LowSpeed	Duplex/By-pass Motor: CW: Low Speed
580474	Duplex Feed M:CCW:HighSpeed	Duplex/By-pass Motor: CCW: High Speed
580475	Duplex Feed M:CCW:MiddleSpeed	Duplex/By-pass Motor: CCW: Middle Speed
5804 76	Duplex Feed Motor: CCW: LowSpeed	Duplex/By-pass Motor: CCW: Low Speed
5804 81	Duplex Reverse M:CW:HighSpeed	Duplex Inverter Motor: CW: High Speed
5804 82	Duplex Reverse M:CW:MiddleSpeed	Duplex Inverter Motor: CW: Middle Speed

5804 83	Duplex Reverse Motor: CW: LowSpeed	Duplex Inverter Motor: CW: Low Speed
5804 88	Duplex Reverse M:CCW:HighSpeed	Duplex Inverter Motor: CCW: High Speed
5804 89	Duplex Reverse M:CCW:MiddleSpeed	Duplex Inverter Motor: CCW: Middle Speed
5804 90	Duplex Reverse Motor: CCW: LowSpeed	Duplex Inverter Motor: CCW: Low Speed
5804 95	ITB Contact Motor	Image Transfer Belt Contact Motor
5804 96	Paper Transfer Contact Motor	Paper Transfer Contact Motor
5804 97	1 st Tray Lift Motor: Up	Tray Lift Motor 1: Lift Up
5804 98	1 st Tray Lift Motor: Down	Tray Lift Motor 1: Lift Down
5804 99	2nd Tray Lift Motor: Up	Tray Lift Motor 2: Lift Up
5804 100	2nd Tray Lift Motor: Down	Tray Lift Motor 2: Lift Down
5804 102	Fusing Pressue Release Motor	Pressure Roller Contact Motor
5804 104	Polygon Moter: LL	Polygon Motor: LL
5804 105	Polygon Moter: L	Polygon Motor: L
5804 107	Polygon Moter: HH	Polygon Motor: HH
5804 110	Air Flow Fan: Front	Ventilation Fan – Front
5804 111	Air Flow Fan:Rear	Ventilation Fan – Rear
5804 112	Fusing Fan:H	Fusing Fan: High Speed
5804 113	Fusing Fan:L	Fusing Fan: Low Speed
5804 114	PSU Cooling Fan	PSU Fan 1: High Speed
5804 115	2nd Duct Fan: H	Duct Fan 2: High Speed
5804 117	3rd Duct Fan: H	Duct Fan 3: High Speed
5804 119	Paper Exit Fan:H	Paper Exit Fan: High Speed
5804 121	Fusing Coil Fan	IH Coil Fan

5804 122	IH Power Supply Cooling Fan	IH Inverter Fan
5804 126	Development Clutch: Bk	Development Clutch-K
5804 127	Development Clutch: M	Development Clutch-M
5804 128	Development Clutch: C	Development Clutch-C
5804 129	Development Clutch: Y	Development Clutch-Y
5804 130	Toner Bottle Clutch: Bk	Toner Bottle Clutch-K
5804 131	Toner Bottle Clutch: M	Toner Bottle Clutch-M
5804 132	Toner Bottle Clutch: C	Toner Bottle Clutch-C
5804 133	Toner Bottle Clutch:Y	Toner Bottle Clutch-Y
5804 134	Toner Supply Pump: Bk	Toner Supply Clutch: Bk
5804 135	Toner Supply Pump: M	Toner Supply Clutch: M
5804 136	Toner Supply Pump: C	Toner Supply Clutch: C
5804 137	Toner Supply Pump: Y	Toner Supply Clutch: Y
5804 138	1 st Paper Feed Clutch	Paper Feed Clutch 1
5804 139	2nd Paper Feed Clutch	Paper Feed Clutch 2
5804 140	Bypass Feed Clutch	By-pass Feed Clutch
5804 141	Bypass Pickup Solenoid	Bypass Pickup Solenoid
5804 143	TD Sensor Shutter Solenoid	ID Sensor Shutter Solenoid
5804 144	Exit Junction Solenoid	Junction Gate 1 Solenoid
5804 145	1 st Feed Pickup Solenoid	1 st Pickup Solenoid
5804 146	2nd Feed Pickup Solenoid	2nd Pickup Solenoid
5804 150	Duplex Fan: HighSpeed	
5804 151	Duplex Fan: LowSpeed	
5804 152	Air Flow Fan: Middle 1	
5804 153	Reserve Fan 1: LowSpeed	
5804 154	Air Flow Fan: Middle 2	

5804 155	Reserve Fan2: LowSpeed	
5804 161	PCL: Bk	
5804 162	PCL: M	
5804 163	PCL: C	
5804 164	PCL: Y	
5804 166	HST Sensor:Bk	TD Sensor:Bk
5804 167	HST Sensor: M	TD Sensor: M
5804 168	HST Sensor: C	TD Sensor: C
5804 169	HST Sensor: Y	TD Sensor: Y
5804 170	Toner End Sensor: Bk	Toner End Sensor: Bk
5804 171	Toner End Sensor: M	Toner End Sensor: M
5804 172	Toner End Sensor: C	Toner End Sensor: C
5804 173	Toner End Sensor: Y	Toner End Sensor: Y
5804 174	TM Sensor: Front	ID Sensor: Front
5804 175	TM Sensor: Center	ID Sensor: Center
5804 176	TM Sensor: Rear	ID Sensor: Rear
5804 177	TM Sensor: M	ID Sensor: M
5804 178	TM Sensor: C	ID Sensor: C
5804 179	TM Sensor: Y	ID Sensor: Y
5804 181	PP:Charge AC:Y:HighSpeed	-
5804 182	PP:Charge AC:Y:MiddleSpeed	-
5804 183	PP:Charge AC:Y:LowSpeed	-
5804 186	PP:Development:K	-
5804 187	PP:Development:M	-
5804 188	PP:Development:C	-
5804 189	PP:Development:Y	-

5804 190	PP:Separation	-
5804 192	RFID ON/OFF: K	-
5804 193	RFID ON/OFF: Y	-
5804 194	RFID ON/OFF: C	-
5804 195	RFID ON/OFF: M	-
5804 196	RFID COM ON:K	-
5804 197	RFID COM ON: Y	-
5804 198	RFID COM ON: C	-
5804 199	RFID COM ON: M	-
5804 202	Scanner Lamp	-
5804 216	LD1: K	-
5804 217	LD2: K	-
5804 218	LD1: Ma	-
5804 219	LD2: Ma	-
5804 220	LD1: Cy	-
5804 221	LD2: Cy	-
5804 222	LD1: Ye	-
5804 223	LD2: Ye	-
5804 224	PP:ITB:K	PP: Image Transfer Roller: K
5804 225	PP:ITB:M	PP: Image Transfer Roller: M
5804 226	PP:ITB:C	PP: Image Transfer Roller: C
5804 227	PP:ITB:Y	PP: Image Transfer Roller: Y
5804 228	PP:PTR:+	PP: Paper Transfer Roller:+
5804 229	PP:PTR:-	PP: Paper Transfer Roller:-
5804 231	PP: ChargeDC: K	-
5804 232	PP: ChargeDC: M	-

PP: ChargeDC: C	-
PP: ChargeDC: Y	-
PP:Charge AC:K:HighSpeed	-
PP:Charge AC:K:MiddleSpeed	-
HVPS: ChargeAC: K: LowSpeed	-
PP:Charge AC:M:HighSpeed	-
PP:Charge AC:M:MiddleSpeed	-
HVPS: ChargeAC: M: LowSpeed	-
PP:Charge AC:C:HighSpeed	-
PP:Charge AC:C:MiddleSpeed	-
HVPS: ChargeAC: C: LowSpeed	-
	PP: ChargeDC: Y PP:Charge AC:K:HighSpeed PP:Charge AC:K:MiddleSpeed HVPS: ChargeAC: K: LowSpeed PP:Charge AC:M:HighSpeed PP:Charge AC:M:MiddleSpeed HVPS: ChargeAC: M: LowSpeed PP:Charge AC:C:HighSpeed PP:Charge AC:C:HighSpeed

ARDF (D541)

6008	Display	Description
6008 3	Feed Motor Forward	Feed Motor-Forward rotation
6008 4	Feed Motor Reverse	Feed Motor-Reverse rotation
6008 5	Relay Motor Forward	Transport Motor- Forward rotation
6008 6	Relay Motor Reverse	Transport Motor- Forward rotation
6008 9	Feed Clutch	-
6008 10	Feed Solenoid	Pick-up Solenoid
6008 11	Inverter Solenoid	-
6008 12	Stamp	Stamp Solenoid

1000-Sheet Booklet Finisher (B793)

6143	Display	Description
0143	Display	Description

6143 1	Shift Motor	Shift Tray Motor
6143 2	Entrance Motor	-
6143 3	Staple Relay Motor	Stapler Unit Motor
6143 4	Knock Solenoid	
6143 5	Junction Gate SOL 1	Proof Tray Gate Solenoid
6143 6	Junction Gate SOL 2	Staple Tray Gate Solenoid
61437	Folder Roller Rotation Motor	Fold Roller Motor
6143 8	Staple Motor	Staple Fold Motor
6143 10	Exit Guide Plate Motor	-
6143 11	Shift Relay Motor	Upper Transport Motor
6143 12	Tray Motor	Shift Tray Motor
6143 13	Stack Feed-out Motor	Positioning Roller Solenoid
6143 14	Stuck Relay1 Motor	Upper Clamp Roller Motor
6143 15	Stuck Relay1 Release Motor	Upper Retraction Motor
6143 16	Rear Edge Fence Drive Motor	Bottom Fence Lift Motor
6143 17	Folder Plate Motor	-
6143 18	Drive Roller Oscillating Motor	Lower Retraction Motor
6143 19	Staple Moving Motor	Staple Unit Driver Motor
6143 20	Jogger Motor	Jogger Motor
6143 21	Punch Registration Moving Motor	Paper Position Sensor Slide Motor
6143 22	Punch Motor	-
6143 23	Punch Moving Motor	Punch Movement Motor

1000-Sheet Finisher (B408)

6144 Display Description

		1
61441	Relay Up Motor	Upper Transport Motor
61442	Relay Down Motor	Lower Transport Motor
61443	Exit Motor	-
61444	Proof Junction Gate SOL	Tray Junction Gate Solenoid
61445	Tray Up Motor	Lower Tray Lift Motor
61446	Jogger Motor	Jogger Fence Motor
61447	Staple Moving Motor	Stapler Motor
61448	Staple Motor	Stapler Hammer
61449	Staple Junction Gate SOL	Stapler Junction Gate Solenoid
6144 10	Positioning Roller Solenoid	Positioning Roller Solenoid
614411	Stack Feed-out Motor	-
6144 12	Shift Motor	-
6144 13	Exit Guide Plate Motor	-

500-Sheet Finisher (D372)

6146	Display	Description
61461	Carry Motor	Transport Motor
61462	Hitroll Motor	Positioning Roller Arm Motor
61463	Front Jogger Motor	Front Fence Motor
61464	Rear Jogger Motor	Rear Fence Motor
61465	Staple Moving Motor	Stapler Movement Motor
61466	Stack Feed-out Motor	Feed-Out Belt Motor
61467	Tray Motor	Tray Lift Motor
61468	Staple Motor	Stapler Motor
61469	Stopper Solenoid	Stack Depressor Solenoid

Bridge Unit (D386)/ Side Tray (D542)

6151	Display	Description
6151 1	Bridge/Left: Feed Motor: Current Selection	Bridge: Feed Motor: Current switching signal
61512	Bridge/Left: Feed Motor:Reset	Bridge: Feed Motor:Reset
61513	Bridge/Left: Feed Motor:Enable	Bridge: Feed Motor:Enable
61516	Bridge/Left: Feed Motor: High Speed	Bridge: Feed Motor: High Speed
61517	Bridge/Left: Feed Motor: Middle Speed	Bridge: Feed Motor: Middle Speed
61518	Bridge/Left: Feed Motor: Low Speed	Bridge: Feed Motor: Low Speed
6151 11	Bridge/Left: Junction Solenoid	Bridge: Junction Solenoid

Shift Tray (D388)

6153	Display	Description
6153 1	Shift: Lift-up Motor	-

1 Bin Tray (D414)

6155	Display	Description
6155 1	1 bin: Junction Solenoid	-

One or Two-Tray PFU (D387/D537)/ LCIT 2000 (D538)/ LCIT 1200 (D539)

6161	Display	Description
61617	Bank1: Feed Motor:242mm/s	Feed Motor:242mm/s (D537/ D538)
6161 17	Bank2: Feed Motor:242mm/s	Feed Motor:242mm/s (D539)
616121	Bank2: Feed Motor:154mm/s	Feed Motor:154mm/s (D539)

6161 30	Bank:Tray3: PU Solenoid	Pick-up Solenoid (D537/D538 or D387)
616131	31 Bank:Tray4: PU Solenoid Pick-up Solenoid (D537/D539)	
6161 32	Bank:Tray5: PU Solenoid	Pick-up Solenoid (D539)
6161 35	61 35 Bank:Tray3: Feed Clutch Pick-up Solenoid (D537/D538 or D387)	
616136	Bank:Tray4: Feed Clutch	Pick-up Solenoid (D537/D539)
6161 37	Bank:Tray5: Feed Clutch	Pick-up Solenoid (D539)

Printer Service Mode

SP1-XXX (Service Mode)

1001	Bit Swi	Bit Switch		
001	Bit Switch 1		0	1
	bit 0	DFU	-	-
	bit 1	DFU	-	-
	bit 2	DFU	-	-
	bit 3	No I/O Timeout	0: Disable	1: Enable
Enable: The MFP I/O Timeout setting will have no		Enable: The MFP I/O Timeout setting will have no effe	effect. I/O Timeouts will never occur.	
	bit 4	SD Card Save Mode	0: Disable	1: Enable
		Enable: Print jobs will be saved to an SD Card in the Function" in the System Maintenance Reference of the		
	bit 5	DFU	-	-
	bit 6	DFU	-	-
	bit 7	[RPCS,PCL]: Printable area frame border	0: Disable	1: Enable
		Enable: The machine prints all RPCS and PCL jobs w printable area.	ith a border on	the edges of the

1001	Bit Switch
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5

002	Bit Switch 2		0	1	
	bit 0	DFU	-	-	
	bit 1	DFU	-	-	
	bit 2	Applying a collation Type	Shift Collate	Normal Collate	
	A collation type (shift or normal) will be applied to all jobs that do not alrea 'Collate Type' configured. • Note • If #5-0 is enabled, this Bit Switch has no effect.				
	bit 3	[PCL5e/c,PS]: PDL Auto Switching	0: Enable	1: Disable	
		Disable: The MFPs ability to change the PDL process Some host systems submit jobs that contain both PS ar is disabled, these jobs will not be printed properly.	·	Auto PDL switching	
	bit 4	DFU	-	-	
	bit 5	DFU	-	-	
	bit 6	DFU	-	-	
	bit 7	DFU	-	-	

1001	Bit Switch
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003	Bit Swit	ch 3	0	1
	bit 0	DFU	-	-
	bit 1	DFU	-	-
	bit 2	[PCL5e/c]: Legacy HP compatibility	0: Disable	1: Enable
	Enable: Uses the same left margin as older HP mo In other words, the left margin defined in the job (us to " <esc>*r1A"</esc>			
	bit 3	DFU	-	-
	bit 4	DFU	-	-
	bit 5	DFU	-	-
	bit 6	DFU	-	-
	bit 7	DFU	-	-

1001	001 Bit Switch		
004	Bit Switch 4 DFU	-	-

1001	Bit Switch
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005	Bit Switch 5		0	1
		Show "Collate Type", "Staple Type" and "Punch Type" buttons on the operation panel.	Disable	Enable
	bit 0	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 the function, the settings will appear u	ınder:	
		"User Tools > Printer Features > System"		
	bit 1	DFU	-	-
	bit 2	DFU	-	-
	bit 3	[PS] PS Criteria	Pattern3	Pattern 1
		Change the number of PS criterion used by the PS interpreter to determine whether a job is PS data or not. Pattern3: includes most PS commands. Pattern1: A small number of PS tags and headers		
	bit 4	Increase max number of the stored jobs to 1000 jobs.	Disable (100)	Enable (1000)
		Enable: Changes the maximum number of jobs that of Type settings to 1000. The default is 100.	can be stored o	n the HDD via Job
	bit 5	Face-up output	Disable	Enable
		Enable: All print jobs will be output face-up in the de	estination tray.	
	bit 6	DFU	-	-
	bit 7	DFU	-	-

1001	1001 Bit Switch		
006	Bit Switch 6 DFU	-	-

1001	001 Bit Switch		
007	Bit Switch 7 DFU	-	-

1001 Bit Switch				
800	Bit Switch 8		0	1
	bit 0	DFU	-	-
	bit 1	DFU	-	-
	bit 2	DFU	-	-
	bit 3	[PCL,PS]: Allow BW jobs to print without requiring User Code	Disable	Enable
		Enable: BW jobs submitted without a user code will authentication is enabled. • Note • Color jobs will not be printed without a valid us	·	n it usercode
	bit 4	DFU	-	-
	bit 5	DFU	-	-
	bit 6	[PS]: Orientation Auto Detect Function	Enable	Disable
		Disable: Automatically chooses page orientations of Portrait) based on the content printed on the page.	PostScript jobs	(Landscape or
	bit 7	[PDF]: Orientation Auto Detect Function	Enable	Disable
		Automatically chooses page orientations of PDF jobs the content printed on the page.	(Landscape or	Portrait) based or

1003	[Clear Setting]	
1003 1	Initialize Printer System	
1003 1	Initializes settings in the "System" menu of the user mode.	
1003 3	1003 3 Delete Program	

1004	[Print Summary]	
1004 1	Print Summary	
10041	Prints the service summary sheet (a summary of all the controller settings).	

1005	[Display Version]	
1005 1	Disp. Version	
1005 1	Displays the version of the controller firmware.	

1006	[Sample/Locked Print]	*CTL	0: Linked, 1: On
1006 1	enabled or disabled in accord	ance with	er. When you select "0," the document server is Copy Service Mode SP5-967. When you select ardless of Copy Service Mode SP5-967.

	[Data Recall]			
Recalls a set of gamma settings. This can be either a) the setting, or c) the current setting.		be either a) the factory setting, b) the previous		
11011	Factory			
1101 2	Previous	*CTL		
11013	Current			
11014	ACC			

1102	[Resolution Setting]
1102	Selects the printing mode (resolution) for the printer gamma adjustment.
1102 1	2400x600 Photo , 1800x600 Photo, 600 x 600 Photo, 2400x600 Text, 1800x600, Text, 600x600 Text

1103	[Test Page]
1103	Prints the test page to check the color balance before and after the gamma adjustment.
1103 1	Color Gray Scale
1103 2	Color Pattern

1104	[Gamma Adjustment]	
1104	Adjusts the printer gamma for the mode selected in the "Mode Selection" menu.	

11041	Black: Highlight		
11042	Black: Shadow		
11043	Black: Middle		
11044	Black: IDmax		
1104 21	Cyan: Highlight		
1104 22	Cyan: Shadow		
1104 23	Cyan: Middle		
1104 24	Cyan: IDmax	*CTL	[0., 20 /15 /1/]
1104 41	Magenta: Highlight		[0 to 30 / 15 / 1/step]
1104 42	Magenta: Shadow		
1104 43	Magenta: Middle		
1104 44	Magenta: IDmax		
110461	Yellow: Highlight		
1104 62	Yellow: Shadow		
1104 63	Yellow: Middle		
1104 64	Yellow: IDmax		

	[Save Tone Control Value]
1105	Stores the print gamma adjusted with the "Gamma Adj." menu item as the current setting. Before the machine stores the new "current setting", it moves the data currently stored as the "current setting" to the "previous setting" memory storage location.
1105 1	Save Tone Control Value

1106	1104	[Toner Limit]			
	1100	Adjusts the maximum toner amount for image development.			
	1106 1	1 Toner Limit Value *CTL [100 to 400 / 260 / 1 %/step]			

Scanner SP Mode

SP1-xxx (System and Others)

1004	[Compression Type]				
1004	Selects the compression type for binary picture processing.				
1004 1	Compression Type	*CTL	[1 to 3 / 1 / 1/step] 1: MH, 2: MR, 3: MMR		

	[Erase margin]			
1005	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.			
1005 1	Range from 0 to 5 mm	*CTL	[0 to 5 / 0 / 1 mm/step]	

1009	[Remote scan disable]	*CTL	[0 or 1 / 0 / -] 0: enable, 1: disable
1009 1	Enable or disable remote scan.	1.	

1010	[Non Display Clear Light PDF]	*CTL	[0 or 1 / 0 / -] 0: Display, 1: No display
1010 1	Enable or disable remote scan.		

SP2-XXX (Scanning-image quality)

		[Compression Level (Gray-scale)]	
1	2021	Selects the compression ratio for grayscale processing mode (JPEG) for the three settings that can be selected at the operation panel.	

2021 1	Level 3 (Middle Image Quality)		[5 to 95 / 40 / 1 /step]
2021 2	Level 2 (High Image Quality)		[5 to 95 / 50 / 1 /step]
2021 3	Level 4 (Low Image Quality)	*CTL	[5 to 95 / 30 / 1 /step]
2021 4	Level 1 (Highest Image Quality)		[5 to 95 / 60 / 1 /step]
2021 5	Level 5 (Lowest Image Quality)		[5 to 95 / 20 / 1 /step]

	[Compression ratio of ClearLight PDF]				
2024	Selects the compression ratio for clearlight PDF for the two settings that can be selected at the operation panel.				
2024 1	Compression Ratio (Normal image)	*CTL [5 to 95 / 25 / 1 /step]			
2024 2	Compression Ratio (High comp image)	CIL	[5 to 95 / 20 / 1 /step]		

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 Colour" 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	11	Independent Pattern (1-dot)
1	Vertial Line (1 dot)	12	Independent Pattern (2-dot)
2	Vertial Line (2dot)	13	Independent Pattern (4-dot)
3	Horizontal Line (1dot)	14	Triming Area
4	Horizontal Line (2dot)	16	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	23	Full Dot Pattern