Model PR-C1 Printer/Scanner Unit Machine Code: D359 SERVICE MANUAL

> May 2007 Subject to change

# **Safety Notices**

#### Important Safety Notices

#### **Prevention of Physical Injury**

- 1. Before disassembling or assembling parts of the copier and peripherals, make sure that the power cord is unplugged.
- 2. The wall outlet should be near the copier and easily accessible.
- 3. Note that some components of the copier and the paper tray unit are supplied with electrical voltage even if the main power switch is turned off.
- If a job has started before the copier completes the warm-up or initializing period, keep hands away
  from the mechanical and electrical components because the starts making copies as soon as the warmup period is completed.
- 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**

Toner and developer are non-toxic, but if you get either of them in your eyes by accident, it may cause temporary eye discomfort. Try to remove with eye drops or flush with water as first aid. If unsuccessful, get medical attention.

#### **Observance of Electrical Safety Standards**

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

## **WARNING**

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

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• 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.

#### Safety and Ecological Notes for Disposal

- 1. Do not incinerate toner bottles or used toner. Toner dust may ignite suddenly when exposed to an open flame.
- 2. Dispose of used toner, developer, and organic photoconductors 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.

## \Lambda WARNING

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

#### AWARNING FOR LASER UNIT

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

CAUTION MARKING:

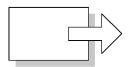


# Symbols and Abbreviations

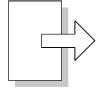
#### Conventions Used in this Manual

This manual uses several symbols.

| Symbol                             | What it means           |  |
|------------------------------------|-------------------------|--|
| æ                                  | Refer to section number |  |
| Ĩ                                  | Screw                   |  |
| E                                  | Connector               |  |
| C                                  | E-ring                  |  |
| $\langle \overline{\zeta} \rangle$ | Clip ring               |  |
| ۲.<br>L                            | Clamp                   |  |



Short Edge Feed (SEF)



Long Edge Feed (LEF)

#### Cautions, Notes, etc.

The following headings provide special information:

## **WARNING**

• Failure to obey warning information could result in serious injury or death.

# 

• Obey these guidelines to ensure safe operation and prevent minor injuries.

#### 🔂 Important

- Obey these guidelines to avoid problems such as misfeeds, damage to originals, loss of valuable data and to prevent damage to the machine.
- Always obey these guidelines to avoid serious problems such as misfeeds, damage to originals, loss of valuable data and to prevent damage to the machine. bold is added for emphasis.

Note

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

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# Controller Box and Printer/Scanner

When you install the printer/scanner option, the GW controller box must also be installed. This procedure shows the installation procedure for the GW controller box and printer/scanner option.

#### Accessory Check

|                 | No. | Description                          | Q'ty  |
|-----------------|-----|--------------------------------------|-------|
|                 | 1   | Installation procedure               | 1     |
|                 | 2   | Controller box                       | 1     |
|                 | 3   | Operation panel                      | 1     |
|                 | 4   | RAM DIMM                             | 1     |
| Controller Box  | 5   | Expansion decal                      | 1     |
|                 | 6   | Screw M3 x 8                         | 1     |
|                 | 7   | Tapping screw M3 x 6                 | 6     |
|                 | 8   | Ground cable                         | 1     |
|                 | 9   | Operating instructions               | 1 set |
|                 | 1   | Installation procedure               | 1     |
|                 | 2   | Dummy cover-fax                      | 1     |
|                 | 3   | Dummy key top                        | 1     |
|                 | 4   | CPS (Copy/Printer/Scanner) key top   | 2     |
| Printer Scanner | 5   | CPS (Copy/Printer/Scanner) key panel | 2     |
|                 | 6   | SD card                              | 1     |
|                 | 7   | Ferrite core                         | 1     |
|                 | 8   | FCC label (-17)                      | 1     |
|                 | 9   | CD-ROM: Driver                       | l set |

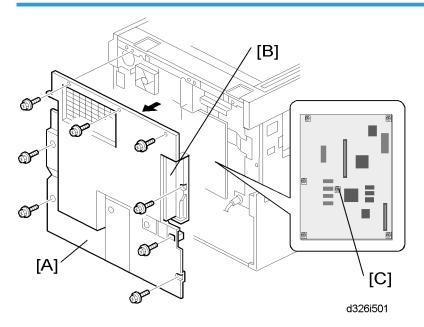
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#### Installing Expansion Component

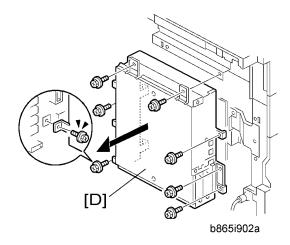
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• Unplug the machine power cord before starting the following procedure.

#### Step 1–Controller Box

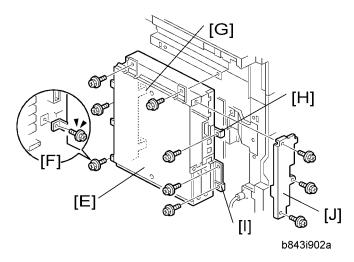


- 1. Remove the rear cover [A] ( $\hat{\mathscr{F}} \times 8$ ).
- 2. Remove the slot cover [B].
- 3. Remove one screw [C] from the BICU.

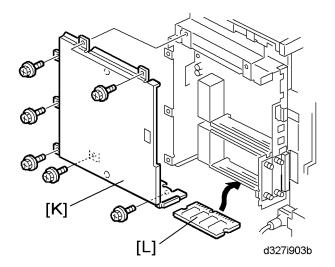


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4. Remove the GDI controller box [D] if it has been installed ( $\hat{\beta}^2 \times 7$ ).

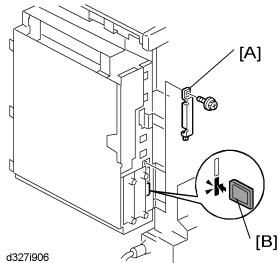


- 5. Connect the controller box [E] to the BICU. Make sure that the BICU is not damaged [F] and that the three openings [G][H][I] hold the controller box.
- 6. Fasten the screws ( $\hat{\beta}$  x 7 [including the screw [C]).
- 7. Remove the FCU cover [J] ( $\hat{\mathscr{F}} \times 3$ ).

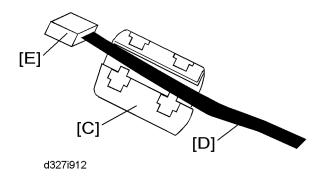


- 8. Remove the controller box cover [K] ( $\hat{\not{F}} \times 7$ ).
- 9. Install the RAM DIMM [L].
- 10. Reassemble the controller box cover.

Step 2–Printer/Scanner



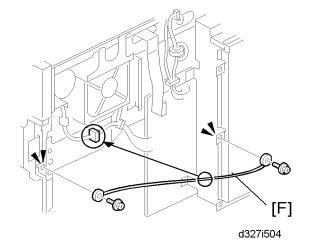
- 1. Remove the SD-card cover [A] ( $\hat{\beta}^{2} \ge 1$ ).
- 2. Install the SD card [B] in the lowest slot.
- 3. Install the SD-card cover.



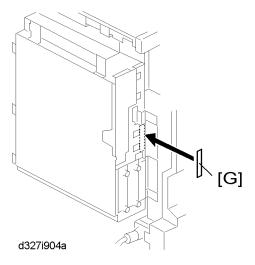
4. Attach the ferrite core [C] to the network cable [D] as close as the connector [E].

1

1



- 5. Install the ground cable [F] as shown, and then clamp the cable ( $\hat{\mathscr{F}} \times 2$ ,  $\stackrel{\frown}{\boxminus} \times 1$ ).
- 6. If you do not install the FCU, reinstall the FCU cover (which has been removed in Step 1), to the controller box.



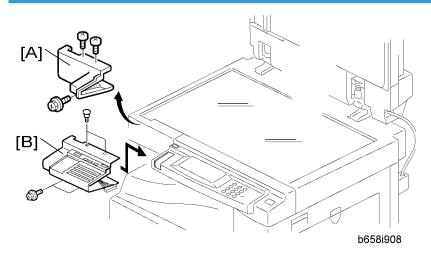
7. Attach the FCC label [G] at the right-hand side of the USB connector on the controller box (for the NA model only).

#### Step 4–Reassembling

1. Install the rear cover.

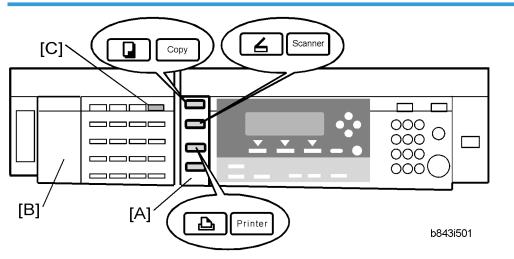
#### Installing Panels and Keys





- 1. Remove the front upper left cover [A] ( $\hat{\not{e}} \times 3$ ).
- Install the optional operational panel [B] (□ × 1, x 4 [including the three screws removed in step 1]).





- 1. Remove the dummy cover (from the basic operation panel).
- 2. Attach the CPS (copy/printer/scanner) key top to the CPS (copy/printer/scanner) key panel and install it [A].

- 3. Install the dummy fax cover [B].
- 4. Install the dummy key top [C].

#### Settings

#### Step 9–Printer/Scanner Model Settings

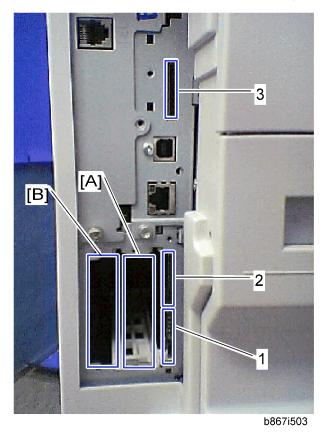
- 1. Turn the main switch on.
- 2. Start the SP mode.
- 3. Select SP5-985-001 (NIC setting) and change the setting value to "1" (ON).
- 4. Select SP5-985-002 (USB setting) and change the setting value to "1" (ON).
- 5. Turn the main switch off and on.
- 6. Start the SP mode.
- 7. Select SP5-801-001 and initialize the all SP data.
- 8. Exit the SP mode, and then start the UP mode.
- Select the "@Remote Service" ("User Tool" > "System Settings > Administrator Tools" > "Extended Security" > @Remote Service") and select "Prohibit".
- 10. Exit the UP mode, and then start the SP mode.
- 11. Select SP5-870-003 and execute initialization for @Remote.
- 12. Select SP5-907-001 and specifies the "Plug & Play".
- 13. Select SP5-870-001 and execute writing certification for @Remote.
- 14. Select SP5-302-002 and specify the time zone.
- 15. Select SP5-307-001, 003, and 004 and specify the daylight-saving time settings.
- 16. Exit the SP mode.
- 17. Turn the main switch off and on.
- 18. Start the UP mode.
- Specifies the date and time with "Set Date" or "Set Time" (User Tool" > "System Settings" > "Set Date" or "Set Time").

# **Controller Options**

#### 1

#### Overview

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



#### I/F Card Slot

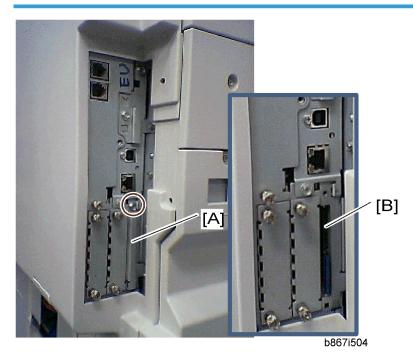
- Slot [A] is used for one of the optional I/F connections: (IEEE1284, IEEE802.11 (Wireless LAN), Bluetooth or Embedded RCG-M).
- Slot [B] is used for the USB Host.

#### SD Card Slot

- Slot [1] is used for optional printer/scanner application only.
- Slot [2] is used for the address book (Fax standard), PostScript3 or SDK applications (user use).
- Slot [3] is used for the Java VM Option, SDK applications (user use) or service use.

#### PostScript3 Installation

#### **Installation Procedure**

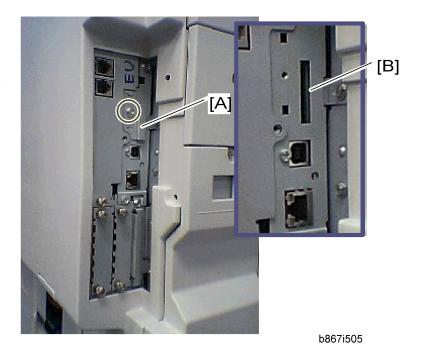


- 1. Remove the SD card slot cover [A] ( $\hat{\mathscr{F}} \times 1$ ).
- 2. Install the PostScript3 SD card into the slot 2 [B].
- 3. Reinstall the SD card slot cover [A] ( $\hat{\not{e}} \times 1$ ).
- 4. Turn on the main power switch.
- 5. Print out the configuration page (User Tools/ Counter > Printer Features > List/ Test Print), and then check that this device is detected.
- 6. Attach the "Adobe PostScript3" decal to the front cover of the machine.

#### Java VM Option Installation

#### Installation Procedure

SD card slot 3 is basically used only for service maintenance. Do not leave an SD card in slot 3 after installing an application.



- 1. Remove the slot cover [A] from the SD card slot 3 ( $\hat{\not}^2$  x 1).
- 2. Turn the SD-card label face to the rear of the machine. Then push it slowly into slot 3 [B] until you hear a click.
- 3. Turn on the main power switch.
- 4. Follow the vendor's installation procedure.
- 5. After installing, turn off the main power switch.
- 6. Remove the SD card from slot 3.
- 7. Attach the slot cover [A] ( $\hat{\mathscr{F}}^2 \times 1$ ).

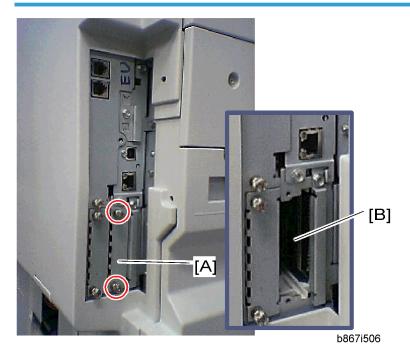
#### Wireless LAN (IEEE 802.11b) Installation

#### **Component Check**

| No. | Description       | Q'ty |
|-----|-------------------|------|
| 1   | Wireless Adapter  | 1    |
| 2   | Wireless LAN Card | 1    |
| 3   | LAN Card Cover    | 4    |

| No. | Description   | Q′ty |
|-----|---------------|------|
| 4   | Caution Sheet | 1    |
| 5   | Label         | 1    |

#### Installation Procedure



- 1. Remove the interface cover [A] ( $\hat{\not}^2 \times 2$ ).
- 2. Install the Wireless adaptor to the slot A [B] ( $\hat{\beta}$  x 2).
- 3. Install the Wireless LAN card to the wireless adaptor.
- 4. Attach the antenna cap to the wireless LAN card.
- 5. Turn on the main power switch.
- 6. Print out the configuration page (User Tools/Counter > Printer Features > List/Test Print), and then check that this device is detected.

If reception is poor, you may need to move the machine:

- Make sure that the machine is not located near an appliance or any type of equipment that could generate a strong magnetic field.
- Position the machine as close as possible to the access point.

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#### SP Mode Settings for IEEE 802.11b Wireless LAN

The following SP commands can be set for IEEE 802.11b.

| SP No.   | Name           | Function                                                                                 |
|----------|----------------|------------------------------------------------------------------------------------------|
| 5840 004 | SSID           | Used to confirm the current SSID setting.                                                |
| 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 channel settings allowed for your country.                 |
| 5840 011 | WEP Key Select | Used to select the WEP key (Default: 00).                                                |
| 5840 018 | SSID Check     | Used to check the SSID.                                                                  |
| 5840 020 | WEP Mode       | Used to display the maximum length of the string that can be used for the WEP Key entry. |

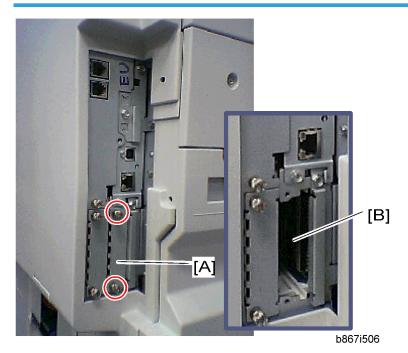
#### IEEE 1284 Installation

#### **Component Check**

| No. | Description              | Q'ty |
|-----|--------------------------|------|
| 1   | IEEE1284 Interface Ass'y | 1    |
| 2   | UL Sheet                 | 1    |
| 3   | Caution Sheet            | 1    |

1

#### Installation Procedure



- 1. Remove the interface cover [A] ( $\hat{\mathscr{F}} \times 2$ ).
- 2. Install the IEEE 1284 board in interface slot A [B] ( $\hat{\beta}^2 \times 2$ ).
- 3. Turn on the main power switch.
- 4. Print out the configuration page (User Tools/Counter > Printer Features > List/Test Print), and then check that this device is detected.

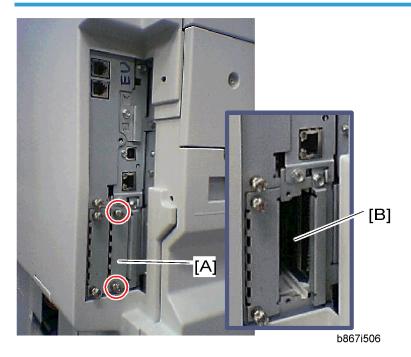
#### **Bluetooth Installation**

#### **Component Check**

| No. | Description            | Qʻty |
|-----|------------------------|------|
| 1   | Wireless Adapter       | 1    |
| 2   | Bluetooth Card         | 1    |
| 3   | Bluetooth Card Adapter | 1    |
| 4   | Bluetooth Card Cover   | 1    |

| No. | Description   | Q′ty |
|-----|---------------|------|
| 5   | UL/FCC Sheet  | 1    |
| 6   | Caution Sheet | 1    |

#### **Installation Procedure**



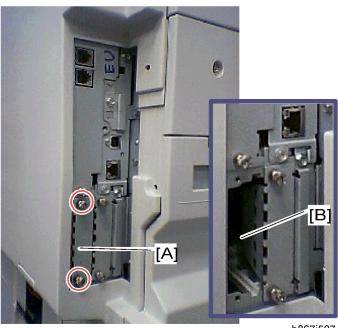
- 1. Remove the interface cover [A] ( $\hat{\not}^2 \times 2$ ).
- 2. Install the Wireless adaptor in interface slot A [B] ( $\hat{\beta}^2 \times 2$ ).
- 3. Select an appropriate FCC label from the FCC sheet, and then attach the FCC label to the non-label side of the Bluetooth card.
- 4. Install the Bluetooth card in the wireless adaptor.
- 5. Attach the antenna cap to the Bluetooth card.
- 6. Turn on the main power switch.
- 7. Print out the configuration page (User Tools/ Counter > Printer Features > List/ Test Print), and then check that this device is detected.

## **USB** Host Installation

#### **Component Check**

| No. | Description              | Q'ty |
|-----|--------------------------|------|
| 1   | USB Host Interface Ass'y | 1    |
| 2   | USB Cable                | 1    |
| 3   | Ferrite Core             | 1    |
| 4   | Clamp                    | 1    |
| 5   | UL Sheet                 | 1    |

#### Installation Procedure



b867i507

- 1. Remove the interface cover [A] ( $\hat{\mathscr{B}}$  x 2).
- 2. Install the USB host board in the interface slot B [B] ( $\hat{\not}^{z}$  x 2).
- 3. Turn on the main power switch.

23

- 4. Print out the configuration page (User Tools/ Counter > Printer Features > List/ Test Print), and then check that this device is detected.
- 5. Exit the User Tools mode.

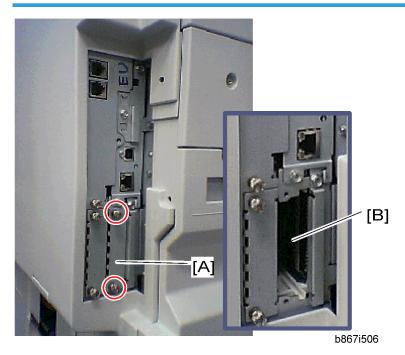
#### **Remote Communication Gate Installation**

This option requires the printer/scanner application and DIMM 256 MB.

#### **Component Check**

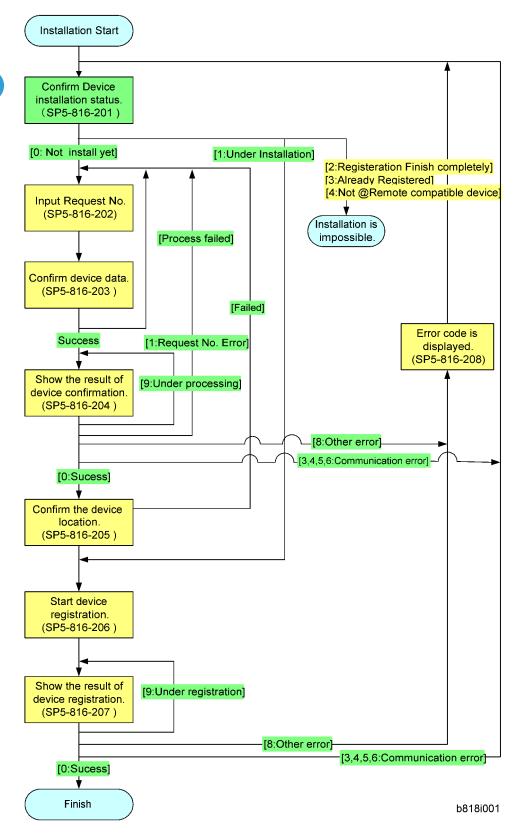
| No. | Description                       | Q'ty |
|-----|-----------------------------------|------|
| 1   | Remote Comm. Gate Interface Ass'y | 1    |
| 2   | Cover                             | 1    |
| 3   | Screw                             | 3    |

#### Installation Procedure



- 1. Remove the interface cover [A] ( $\hat{\mathscr{F}} \times 2$ ).
- 2. Install the modem board into interface slot A [B] ( $\hat{\not}$  × 2).

- 3. Confirm the following SP settings before starting installation flow.
  - SP5-985-001 ("On Board NIC" is set to "0: OFF".)
  - SP5-816-150 (To Select the country)
  - SP5-816-154 (To set an outside connection telephone number)
  - SP5-816-161 (To set a telephone number)
- 4. Follow the Installation flow as shown below with SP mode.



# Main Board

#### Precautions

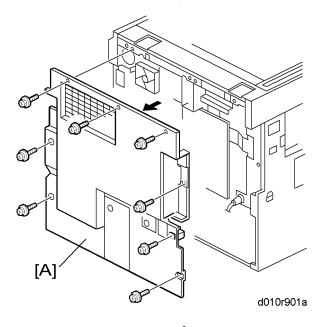
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- Turn off the main power switch and unplug the machine before starting replacement.
- Before turning off the main power switch, check that no mechanical component is operating. Mechanical components may stop out of their home positions if you turn off the main power switch while they are operating. The component may be damaged if you try to remove it when it is not in the home position.

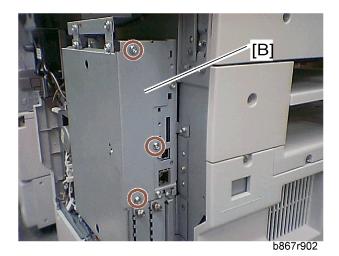
#### **Controller Board**

#### Preparation

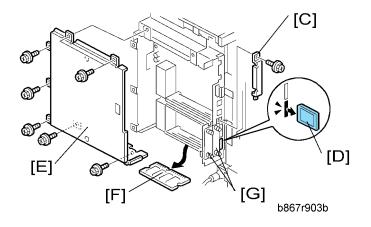
- Before replacing the controller board, be sure to print out SMC or save the NVRAM data.
- Saving from the Controller NVRAM to an SD card (
   "NVRAM Data Upload/Download [SP5-824/825]" in the chapter "Service Tables" of this manual)



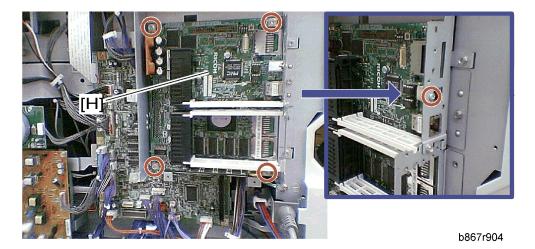
1. Remove the rear cover [A] ( $\hat{\beta} \times 8$ ).



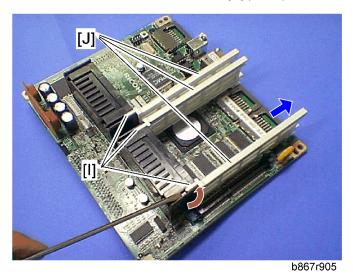
2. Remove the FCU cover [B] ( $\hat{\not{P}} \times 3$ ).



- 3. Remove the SD-card cover [C] ( ${\ensuremath{\beta}}^2$  x 1), and then remove all SD cards [D] in the SD slots.
- 4. Remove the controller-box cover [E] ( $\hat{\beta}$  x 7).
- 5. Remove the RAM DIMM [F] if it has been installed.
- 6. Remove the two I/F covers [G] (or I/F options if they have been installed).



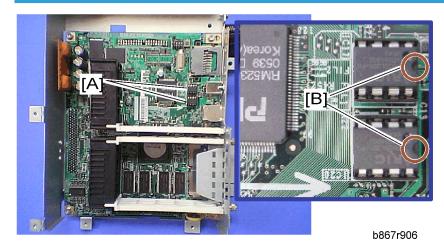
7. Remove the controller board with the rails [H] ( $\hat{\beta}^2 \times 5$ ).



- 8. Release the hooks [I], and then pull out the rails [J].
- 9. Controller board



• When replacing the controller board, remove the NVRAMs from the board. Install the NVRAMs to the new board.



#### When replacing the NVRAM on the controller board

- 1. When you replace the NVRAMs [A], make sure that the NVRAMs are correctly installed.
- 2. The mark [B] on the NVRAM should be directed to the right side (seem from the back side of the machine).
- 3. Reassemble the machine.
- 4. Copy the old NVRAM data to the new NVRAM with SP5-825 or input the SMC data in the machine. (For details, refer to the "NVRAM Data Upload/Download [SP5-824/825]" in the chapter "Service Tables" of the this manual)

# **Service Call Conditions**

#### **Service Call Conditions**

There are four levels of service call conditions.

| Level | Definition                                                                                                                                                | Reset Procedure                                                |  |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|--|
| A     | To prevent damage to the machine, the main machine<br>cannot be operated until the SC has been reset by a<br>service representative (see the note below). | Enter SP mode, and then turn the main power switch off and on. |  |
| В     | The main machine can be operated as usual, excluding the unit related to the service call.                                                                | Turn the main power switch off and on.                         |  |
| С     | The SC history is updated. The machine can be operated as usual.                                                                                          | Turn the main power switch off and on.                         |  |
| D     | If the SC was caused by incorrect sensor detection, the<br>SC can be reset by turning the main power switch off<br>and on.                                | The SC will not be displayed. Only the SC history is updated.  |  |

#### Note

- If the problem concerns electrical circuit boards, first disconnect then reconnect the connectors before replacing the PCBs.
- If the problem concerns a motor lock, first check the mechanical load before replacing motors or sensors.

#### 🔂 Important

- Do not try to use the operation panel during an automatic reboot.
- If the Remote Service System is used, the SC code is sent immediately to the Service Center

## 

• Never turn off the main power switch when the power LED is lit or flashing. To avoid damaging the hard disk or memory, press the operation switch to switch the power off, wait for the power LED to go off, and then switch the main power switch off.

# GW SC Code Descriptions

#### SC6xx

| No.<br>Definitio | n             | Symptom                                                                                                                | Possible Cause/Countermeasure                                      |  |
|------------------|---------------|------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|--|
|                  |               | MF accounting device error 1                                                                                           |                                                                    |  |
| 632              | В             | The machine sends a data frame. → No<br>normal end signal returns. → This<br>symptom happens three times.              | Defective or broken line between machine<br>and device             |  |
|                  |               | MF accounting device error 2                                                                                           |                                                                    |  |
| 633              | В             | The machine is communicating with the accounting device. → The break signal returns.                                   | Defective or broken line between machine<br>and device             |  |
|                  |               | MF accounting device error 3                                                                                           |                                                                    |  |
| 634              | В             | A backup RAM error is reported from the accounting device.                                                             | Defective accounting device     controller                         |  |
|                  |               |                                                                                                                        | <ul> <li>Defective battery in the accounting<br/>device</li> </ul> |  |
|                  |               | MF accounting device error 4                                                                                           |                                                                    |  |
| 635              | В             | A battery voltage error is reported from the accounting device.                                                        | Defective accounting device     controller                         |  |
|                  |               |                                                                                                                        | <ul> <li>Defective battery in the accounting<br/>device</li> </ul> |  |
| 636              | SD Card Error |                                                                                                                        |                                                                    |  |
|                  |               | Expanded authentication module error                                                                                   |                                                                    |  |
| -001             | D             | There is no expanded authentication<br>module in the machine.                                                          | 1. Install the correct SD card or the file of                      |  |
|                  |               | The SD card or the file of the expanded<br>authentication module is broken.<br>There is no DESS module in the machine. | the expanded authentication module.<br>2. Install the DESS module. |  |
| -002             | D             | Version error                                                                                                          |                                                                    |  |

| No.<br>Definition |                                                                  | Symptom                                                                                                             | Possible Cause/Countermeasure                                                     |
|-------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|                   |                                                                  | The version of the expanded authentication module is not correct.                                                   | Install the correct file of the expanded authentication module.                   |
| 650               | Communication error of the remote service modem (Embedded RCG-M) |                                                                                                                     |                                                                                   |
|                   |                                                                  | Authentication error                                                                                                |                                                                                   |
| -001              | В                                                                | The authentication for the Embedded<br>RCG-M fails at a dial up connection.                                         | Check and set the correct user name<br>(SP5816-156) and password<br>(SP5816-157). |
|                   |                                                                  | Incorrect modem setting                                                                                             |                                                                                   |
| -004              | В                                                                | Dial up fails due to the incorrect modem setting.                                                                   | Check and set the correct AT command (SP5819-160).                                |
|                   |                                                                  | Communication line error                                                                                            |                                                                                   |
| -005              | В                                                                | The supplied voltage is not sufficient due<br>to the defective communication line or<br>defective connection.       | Consult with the user's local telephone company.                                  |
|                   | В                                                                | Incorrect network setting                                                                                           |                                                                                   |
| -011              |                                                                  | Both the NIC and Embedded RCG-M are activated at the same time.                                                     | Disable the NIC with SP5985-1.                                                    |
|                   |                                                                  | Modem board error                                                                                                   |                                                                                   |
|                   | В                                                                | The modem board does not work<br>properly even though the setting of the<br>modem board is installed with a dial up | 1. Install the modem board.                                                       |
| -012              |                                                                  |                                                                                                                     | <ol> <li>Check and reset the modem board<br/>setting with SP5816.</li> </ol>      |
|                   |                                                                  | connection.                                                                                                         | 3. Replace the modem board.                                                       |
| 651               | Incorrect dial up connection                                     |                                                                                                                     |                                                                                   |
| -001              | С                                                                | Program parameter error                                                                                             |                                                                                   |
|                   |                                                                  | The unexpected error occurs when the modem (Embedded RCG-M) tries to call the center with a dial up connection.     | Software bug.                                                                     |
| -002              | С                                                                | Program execution error                                                                                             |                                                                                   |

| No.<br>Definition |   | Symptom                                                                                                                                                                                                              | Possible Cause/Countermeasure                                                                                                                                                                                                                                                                                                                                                          |  |
|-------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                   |   | Same as SC651-001.                                                                                                                                                                                                   | Software bug.                                                                                                                                                                                                                                                                                                                                                                          |  |
|                   | D | Engine startup error                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                        |  |
| 670               |   | Just after the main power is turned on or<br>the machine is recovering from auto off<br>mode, the engine ready signal assertion<br>fails.<br>Just after the main power is turned on, the<br>engine does not respond. | <ul> <li>Poor connection between the BICU<br/>and controller board</li> <li>Defective BICU</li> <li>Defective controller board</li> </ul>                                                                                                                                                                                                                                              |  |
|                   |   | Controller-to-operation panel communication error at startup                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                        |  |
| 672               | D | After powering on the machine,<br>communication between the controller<br>and operation panel does not begin, or<br>the communication is interrupted after a<br>normal startup.                                      | <ul> <li>Controller stalled</li> <li>Controller board installed incorrectly</li> <li>Defective controller board</li> <li>Operation panel connector loose or<br/>defective</li> <li>Poor connection of DIMM and<br/>optional boards on the controller<br/>board</li> <li>Check the setting of SP5875-001. If<br/>the setting is set to "1 (OFF)", change<br/>it to "0 (ON)".</li> </ul> |  |

#### SC8xx

| No.<br>Definition |      | Symptom                | Possible Cause/Countermeasure                                 |  |
|-------------------|------|------------------------|---------------------------------------------------------------|--|
| 819               | Kern | Kernel stop            |                                                               |  |
| [0696e]           | D    | Process error          |                                                               |  |
|                   |      |                        | Defective RAM DIMM                                            |  |
|                   |      | System completely down | <ul> <li>Defective SD card in slot 1 (lowest slot)</li> </ul> |  |
|                   |      |                        | Defective controller                                          |  |

| No.<br>Definition |       | Symptom                           | Possible Cause/Countermeasure                                                                                                                                                                                                                                                                                                                 |  |
|-------------------|-------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                   |       |                                   | <ul> <li>Software error</li> <li>Check and/or replace the RAM DIMM.</li> <li>Check and/or replace the SD card in slot 1 (lowest slot).</li> <li>Replace the controller.</li> <li>See NOTE at the end of the SC table.</li> </ul>                                                                                                              |  |
|                   |       | VM full error                     |                                                                                                                                                                                                                                                                                                                                               |  |
| [0766d]           | D     | Unexpected system memory size     | <ul> <li>Defective RAM DIMM</li> <li>Defective SD card in slot 1 (lowest slot)</li> <li>Defective controller</li> <li>Software error</li> <li>Check and/or replace the RAM DIMM.</li> <li>Check and/or replace the SD card in slot 1 (lowest slot).</li> <li>Replace the controller.</li> <li>See NOTE at the end of the SC table.</li> </ul> |  |
|                   | D     | Cache error                       |                                                                                                                                                                                                                                                                                                                                               |  |
| [4361]            |       | Cache error in the CPU            | <ul><li>Defective CPU</li><li>1. Replace the controller board.</li></ul>                                                                                                                                                                                                                                                                      |  |
|                   | D     | The others                        |                                                                                                                                                                                                                                                                                                                                               |  |
| []                |       | Error in OS                       | <ul> <li>Defective memory</li> <li>Defective flash memory</li> <li>Defective CPU</li> <li>1. Replace the controller board.</li> </ul>                                                                                                                                                                                                         |  |
|                   | Self- | Diagnostic Error: CPU             |                                                                                                                                                                                                                                                                                                                                               |  |
| 820               | D     | [0001-0015] [000A-000D]: Detailed | error code                                                                                                                                                                                                                                                                                                                                    |  |

| No.<br>Definition |   | Symptom                                                                                                                                                 | Possible Cause/Countermeasure                                                                                                                                                                         |  |
|-------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                   |   | During the boot monitor program and<br>self-diagnostic, any exception or cut-in<br>are not supposed to happen. If these<br>happen, it is defined as SC. | <ul> <li>Defective CPU device</li> <li>Defective boot monitor program or<br/>self-diagnostic program</li> <li>Replace the controller board.</li> <li>Reinstall the system firmware.</li> </ul>        |  |
|                   |   | [00FF]: Detailed error code                                                                                                                             |                                                                                                                                                                                                       |  |
|                   | D | Cache access error in the CPU                                                                                                                           | <ul> <li>Defective CPU</li> <li>Defective local bus</li> <li>1. Turn the main power switch off and on.</li> <li>2. Reinstall the system program.</li> <li>3. Replace the controller board.</li> </ul> |  |
| -                 |   | [0601, 0602, 0605, 0606, 0607, 0609]: Detailed error code                                                                                               |                                                                                                                                                                                                       |  |
|                   | D | Exceptional command does not<br>operate even though it is executed on<br>purpose.                                                                       | <ul><li>Defective CPU devices</li><li>1. Replace the controller board.</li></ul>                                                                                                                      |  |
| -                 |   | [060A-060E]: Detailed error code                                                                                                                        |                                                                                                                                                                                                       |  |
|                   | D | Cut-in command does not operate when it is executed.                                                                                                    | <ul> <li>Defective CPU devices</li> <li>Defective ASIC devices</li> <li>1. Replace the controller board.</li> </ul>                                                                                   |  |
| -                 |   | [0610]: Detailed error code                                                                                                                             |                                                                                                                                                                                                       |  |
|                   | D | Timer cut-in does not operate even though it is set.                                                                                                    | <ul><li>Defective CPU devices</li><li>1. Replace the controller board.</li></ul>                                                                                                                      |  |
|                   |   | [0612]: Detailed error code                                                                                                                             |                                                                                                                                                                                                       |  |
|                   | D | Cut-in in ASIC occurs.                                                                                                                                  | <ul> <li>Defective ASIC</li> <li>Defective devices in which ASIC detects cut-in.</li> <li>1. Replace the controller board.</li> </ul>                                                                 |  |
|                   | D | [06FF]: Detailed error code                                                                                                                             | 1                                                                                                                                                                                                     |  |

| No.<br>Definition |       | Symptom                                                                                                                           | Possible Cause/Countermeasure                                                                                                                                                 |
|-------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   |       | The pipeline clock frequency rate is different from the prescribed value.                                                         | <ul> <li>Defective CPU devices</li> <li>Mode bit data error, which is used for initializing CPU.</li> <li>Replace the controller board.</li> </ul>                            |
|                   |       | [0702]: Detailed error code                                                                                                       |                                                                                                                                                                               |
|                   | D     | The result when the program is<br>executed in the command cache is<br>different from desirable value.                             | <ul> <li>Insufficient CPU cache</li> <li>Insufficient memory process speed</li> <li>1. Replace the controller board.</li> <li>2. Replace the RAM DIMM.</li> </ul>             |
|                   |       | [0709, 070A]: Detailed error code                                                                                                 |                                                                                                                                                                               |
|                   | D     | Even you write the data in the only<br>cache of memory, the data is actually<br>written in another area (not cache) of<br>memory. | <ul> <li>Defective CPU devices</li> <li>Incorrect SPD</li> <li>Boot mode setting error</li> <li>1. Replace the controller board.</li> <li>2. Replace the RAM DIMM.</li> </ul> |
|                   |       | [0801, 0804, 0807, 0808, 0809, 080A]: Detailed error code                                                                         |                                                                                                                                                                               |
|                   | D     | An error occurs when checking the TLB.                                                                                            | <ul><li>Defective CPU devices</li><li>1. Replace the controller board.</li></ul>                                                                                              |
|                   |       | [4002-4005]: Detailed error code                                                                                                  |                                                                                                                                                                               |
|                   | D     | The calculation error in the CPU occurs.                                                                                          | <ul><li>Defective CPU</li><li>1. Replace the CPU.</li></ul>                                                                                                                   |
| 821               | Self- | Diagnostic Error: ASIC                                                                                                            |                                                                                                                                                                               |
|                   |       | ASIC error                                                                                                                        |                                                                                                                                                                               |
| [0800]            | D     | The write-&-verify check error has occurred in the ASIC.                                                                          | <ul><li>Defective controller board</li><li>1. Replace the controller.</li></ul>                                                                                               |
| [000:1]           |       | ASIC not detected                                                                                                                 | 1                                                                                                                                                                             |
| [OBO6]            | D     | The ASIC of the I/O is not detected.                                                                                              | ASIC (controller board defective)                                                                                                                                             |

| No.<br>Definition |       | Symptom                                                                                                                                                                         | Possible Cause/Countermeasure                                                                                                                                                                                                  |  |
|-------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                   |       |                                                                                                                                                                                 | <ul> <li>Poor connection between North<br/>Bridge and PCI I/F.</li> <li>1. Replace controller board.</li> </ul>                                                                                                                |  |
|                   |       | SHM register check error                                                                                                                                                        |                                                                                                                                                                                                                                |  |
| [OB10]            | В     | Failed to initialize or could not read<br>connection bus. Data in SHM register<br>incorrect.                                                                                    | <ul> <li>Defective bus connection</li> <li>Defective SHM</li> <li>1. Replace controller board.</li> </ul>                                                                                                                      |  |
|                   |       | Timer error between ASIC and CPU                                                                                                                                                |                                                                                                                                                                                                                                |  |
| [0D05]            | D     | The CPU checks if the ASIC timer works<br>properly compared with the CPU timer.<br>If the ASIC timer does not function in the<br>specified range, this SC code is<br>displayed. | <ul> <li>System firmware problem</li> <li>Defective RAM-DIMM</li> <li>Defective controller</li> <li>Reinstall the controller system firmware.</li> <li>Replace the RAM-DIMM.</li> <li>Replace the controller board.</li> </ul> |  |
| 822               | Self- | Diagnostic Error: HDD                                                                                                                                                           |                                                                                                                                                                                                                                |  |
|                   |       | [3003]: Timeout error/ [3004]: Comm                                                                                                                                             | and error                                                                                                                                                                                                                      |  |
| [3003]<br>[3004]  | В     | When the main switch is turned on or<br>starting the self-diagnostic, the HDD<br>stays busy for the specified time or<br>more.                                                  | <ul> <li>Loose connection</li> <li>Defective HDD</li> <li>Defective controller</li> <li>Check that the HDD is correctly connected to the controller.</li> <li>Replace the HDD.</li> <li>Replace the controller.</li> </ul>     |  |
| 823               | Self- | diagnostic Error: NIB                                                                                                                                                           |                                                                                                                                                                                                                                |  |
|                   |       | MAC address check sum error                                                                                                                                                     |                                                                                                                                                                                                                                |  |
| [6101]            | В     | The result of the MAC address check<br>sum does not match the check sum<br>stored in ROM.                                                                                       | <ul><li>Defective controller</li><li>1. Replace the controller.</li></ul>                                                                                                                                                      |  |

| No.<br>Definition |       | Symptom                                                                                                                                             | Possible Cause/Countermeasure                                                                                                                                                   |
|-------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   |       | PHY IC error                                                                                                                                        |                                                                                                                                                                                 |
| [6104]            | В     | The PHY IC on the controller cannot be correctly recognized.                                                                                        | Same as SC823-[6101]                                                                                                                                                            |
|                   |       | PHY IC loop-back error                                                                                                                              |                                                                                                                                                                                 |
| [6105]            | В     | An error occurred during the loop-back<br>test for the PHY IC on the controller.                                                                    | Same as SC823-[6101]                                                                                                                                                            |
|                   |       | Self-diagnostic Error: NVRAM                                                                                                                        |                                                                                                                                                                                 |
| 824               | D     | The controller cannot recognize the standard NVRAM installed or detects that the NVRAM is defective.                                                | <ul> <li>NVRAM damaged or abnormal</li> <li>Backup battery has discharged</li> <li>NVRAM socket damaged</li> <li>1. Replace the NVRAM.</li> </ul>                               |
|                   |       | Self-diagnostic Error: RTC/Optional N                                                                                                               | VRAM                                                                                                                                                                            |
|                   |       | [1501]: Clock error                                                                                                                                 |                                                                                                                                                                                 |
| 826               | D     | An RTC device is recognized, and the<br>difference between the RTC device and<br>the CPU exceeds the defined limit.<br>No RTC device is recognized. | <ul> <li>RTC defective</li> <li>NVRAM without RTC installed</li> <li>Backup battery discharged</li> <li>Replace the NVRAM with another<br/>NVRAM with an RTC device.</li> </ul> |
|                   | D     | [15FF]: RTC not detected                                                                                                                            |                                                                                                                                                                                 |
|                   |       | The RTC device is not detected.                                                                                                                     | <ul> <li>NVRAM without RTC installed</li> <li>Backup battery discharged</li> <li>Replace the NVRAM with another<br/>NVRAM with an RTC device.</li> </ul>                        |
| 827               | Self- | diagnostic Error: RAM                                                                                                                               |                                                                                                                                                                                 |
|                   |       | Verification error                                                                                                                                  |                                                                                                                                                                                 |
| [0201]            | D     | Error is detected during a write/verify<br>check for the standard RAM (SDRAM<br>DIMM).                                                              | <ul> <li>Loose connection</li> <li>Defective SDRAM DIMM</li> <li>Defective controller</li> </ul>                                                                                |

| No.<br>Definition |       | Symptom                                                                                                                                              | Possible Cause/Countermeasure                                                                                                                                |
|-------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   |       |                                                                                                                                                      | <ol> <li>Replace the SDRAM DIMM.</li> <li>Replace the controller.</li> </ol>                                                                                 |
|                   |       | Resident memory error                                                                                                                                |                                                                                                                                                              |
| [0202]            | D     | The SPD values in all RAM DIMM are incorrect or unreadable.                                                                                          | <ul> <li>Defective RAM DIMM</li> <li>Defective SPD ROM on RAM DIMM</li> <li>Defective 12C bus</li> <li>1. Replace the RAM DIMM.</li> </ul>                   |
| 828               | Self- | diagnostic Error: ROM                                                                                                                                |                                                                                                                                                              |
|                   |       | Boost lap code error                                                                                                                                 |                                                                                                                                                              |
| [0101]            | D     | The boot monitor and OS program<br>stored in the ROM DIMM is checked.<br>If the check sum of the program is<br>incorrect, this SC code is displayed. | <ul> <li>Defective ROM DIMM</li> <li>Defective controller</li> <li>1. Replace the ROM DIMM.</li> <li>2. Replace the controller.</li> </ul>                   |
|                   |       | ROMFS error                                                                                                                                          |                                                                                                                                                              |
| [0104]            | D     | All areas of the ROM DIMM are<br>checked. If the check sum of all<br>programs stored in the ROM DIMM is<br>incorrect, this SC code is displayed.     | <ul><li>Defective ROM DIMM</li><li>1. Replace the ROM DIMM.</li></ul>                                                                                        |
| 829               | Self- | diagnostic Error: Optional RAM                                                                                                                       | 1                                                                                                                                                            |
|                   |       | Verification error (Slot 1)                                                                                                                          |                                                                                                                                                              |
| [0401]            | В     | The data stored in the RAM in Slot 1<br>does not match the data when reading.                                                                        | <ul> <li>Not specified RAM DIMM installed</li> <li>Defective RAM DIMM</li> <li>1. Replace the RAM DIMM.</li> <li>2. Replace the controller board.</li> </ul> |
|                   |       | Composition error (Slot 1)                                                                                                                           |                                                                                                                                                              |
| [0402]            | В     | The result of checking the composition<br>data of the RAM in Slot 1 on the<br>controller is incorrect.                                               | <ul> <li>Not specified RAM DIMM installed</li> <li>Defective RAM DIMM</li> <li>1. Replace the RAM DIMM.</li> </ul>                                           |

| No.<br>Definition |   | Symptom                                                                                                                                                                                | Possible Cause/Countermeasure                                                                                                                                               |  |
|-------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                   |   |                                                                                                                                                                                        | 2. Replace the controller board.                                                                                                                                            |  |
|                   |   | IEEE1394 I/F abnormal                                                                                                                                                                  |                                                                                                                                                                             |  |
| 851               | В | The IEEE1394 interface cannot be used, due to a driver error.                                                                                                                          | <ul><li>IEEE1394 interface board defective</li><li>Defective controller board</li></ul>                                                                                     |  |
|                   |   | Wireless card startup error                                                                                                                                                            |                                                                                                                                                                             |  |
| 853               | В | The machine starts up. → The IEEE802<br>11b card connection board is<br>recognized. → The wireless LAN card<br>or bluetooth card is not recognized.                                    | Loose connection between the wireless<br>card and the connection board                                                                                                      |  |
|                   |   | Wireless card access error                                                                                                                                                             |                                                                                                                                                                             |  |
| 854               | В | The machine has been reading the data<br>from the card. → The machine loses<br>access to the card; the wireless LAN<br>card or bluetooth card connection<br>board is still recognized. | Loose connection between the wireless<br>card and the connection board                                                                                                      |  |
| 0.5.5             |   | Wireless card error                                                                                                                                                                    |                                                                                                                                                                             |  |
| 855               | В | Some illegal data is found in the card.                                                                                                                                                | Defective wireless card                                                                                                                                                     |  |
|                   |   | Wireless card connection board error                                                                                                                                                   |                                                                                                                                                                             |  |
| 856               | В | An error is detected in the wireless LAN<br>card or bluetooth card connection<br>board.                                                                                                | Defective wireless card connection board                                                                                                                                    |  |
|                   |   | USB I/F Error                                                                                                                                                                          |                                                                                                                                                                             |  |
| 857               | В | USB interface error is detected.                                                                                                                                                       | <ul> <li>Defective controller</li> <li>Check the USB connections, and<br/>make sure that they are securely<br/>connected.</li> <li>Replace the controller board.</li> </ul> |  |
|                   |   | HDD startup error at main power on                                                                                                                                                     | 1                                                                                                                                                                           |  |
| 860               | В | HDD is connected but a driver error is detected.                                                                                                                                       | No formatted HDD                                                                                                                                                            |  |

| No.<br>Definition |   | Symptom                                                                                       | Possible Cause/Countermeasure                                                                                                                                                                                                                                                                                                          |
|-------------------|---|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   |   | The driver does not respond with the status of the HDD within 30 s.                           | <ul> <li>Label name input during formatting is corrupted.</li> <li>Defective HDD</li> <li>1. Reformat the HDD.</li> <li>2. Replace the HDD.</li> </ul>                                                                                                                                                                                 |
|                   |   | HDD reboot error                                                                              |                                                                                                                                                                                                                                                                                                                                        |
| 861               | D | The HDD does not become ready<br>within 30 seconds after the power is<br>supplied to the HDD. | <ul> <li>Loose connection</li> <li>Defective cables</li> <li>Defective HDD</li> <li>Defective controller</li> <li>Check the connection between the HDD and controller.</li> <li>Check and replace the cables.</li> <li>Replace the HDD.</li> <li>Replace the controller.</li> </ul>                                                    |
|                   |   | HDD read error                                                                                |                                                                                                                                                                                                                                                                                                                                        |
| 863               | D | The data stored in the HDD cannot be<br>read correctly.                                       | <ul> <li>Bad sector detected during operation<br/>of the HDD</li> <li>Defective HDD</li> <li>Defective controller</li> <li>Reformat the HDD.</li> <li>Replace the HDD when SC863<br/>occurs more than ten times or it takes<br/>more than twenty seconds to get<br/>ready condition.</li> <li>Replace the controller board.</li> </ul> |
|                   |   | HD data CRC error                                                                             |                                                                                                                                                                                                                                                                                                                                        |
| 864               | D | While reading data from the HDD or<br>storing data in the HDD, data<br>transmission fails.    | Defective HDD                                                                                                                                                                                                                                                                                                                          |
| 865               | D | HD access error                                                                               |                                                                                                                                                                                                                                                                                                                                        |

| No.<br>Definition |   | Symptom                                                                                                                                                                                                                                                                                                        | Possible Cause/Countermeasure                                                                                                                                                                                                                                                                                                                          |  |
|-------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                   |   | An error other than SC863 and SC864 is detected while operating the HDD.                                                                                                                                                                                                                                       | Defective HDD                                                                                                                                                                                                                                                                                                                                          |  |
|                   |   | SD card authentication error                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                        |  |
| 866               | В | A digital license error of an SD card application is detected.                                                                                                                                                                                                                                                 | <ul><li>SD card data has corrupted.</li><li>1. Store correct data in the SD card.</li></ul>                                                                                                                                                                                                                                                            |  |
|                   |   | SD card error                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                        |  |
| 867               | D | An application SD card is removed<br>from the boot slot while an application<br>is activated.                                                                                                                                                                                                                  | An application SD card is ejected.                                                                                                                                                                                                                                                                                                                     |  |
|                   |   | SD card access error                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                        |  |
|                   |   | (-13 to -3: File system error, other number: Device error)                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                        |  |
| 868               | D | An error report is sent from the SD card reader.                                                                                                                                                                                                                                                               | <ul> <li>SD card not inserted correctly</li> <li>SD card defective</li> <li>Controller board defective</li> <li>For a file system error, format the SD card on PC.</li> <li>For a device error, turn the main switch off and on.</li> <li>Remove and re-install the SD card.</li> <li>Replace the SD card.</li> <li>Replace the controller.</li> </ul> |  |
| 870               | В | Address book data error<br>The address book in the hard disk is<br>accessed. → An error is detected in the<br>address book data; address book data<br>is not read; or data is not written into<br>the address book.<br><b>Note</b><br>• To recover from the error, do any<br>of the following countermeasures: | <ul> <li>Data corruption</li> <li>Defective hard disk</li> <li>Defective controller software</li> <li>Replace the hard disk (the user codes and counters are recovered when the main switch is turned on if those data are stored in Smart Device Monitor for Admin).</li> </ul>                                                                       |  |

| No.<br>Definition |   | Symptom                                                                                                                                                               | Possible Cause/Countermeasure                                                                                                                                                               |
|-------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   |   | <ul> <li>Format the address book by using<br/>SP5-846-050 (all data in the<br/>address book–including the user<br/>codes and counters–is<br/>initialized).</li> </ul> |                                                                                                                                                                                             |
|                   |   | HDD received mail data error                                                                                                                                          |                                                                                                                                                                                             |
| 872               | В | An error is detected in the received mail<br>data partition of the HDD at machine<br>initialization.                                                                  | <ul> <li>Defective HDD</li> <li>Power failure during an access to the HDD</li> <li>Initialize the HDD partition (SP5-832-007).</li> <li>Replace the HDD.</li> </ul>                         |
|                   |   | HDD sent mail data error                                                                                                                                              |                                                                                                                                                                                             |
| 873               | В | An error is detected in the sent mail data<br>partition of the HDD at machine<br>initialization.                                                                      | <ul> <li>Defective HDD</li> <li>Power failure during an access to the HDD</li> <li>Initialize the HDD partition (SP5-832-008).</li> <li>Replace the HDD.</li> </ul>                         |
|                   |   | Delete All error 1: HDD                                                                                                                                               |                                                                                                                                                                                             |
| 874               | D | An error is detected while the all data<br>of the HDD or NVRAM are formatted<br>physically by the Data Overwrite<br>Security Unit (B735).                             | <ul> <li>Not installed Data Overwrite Security<br/>Unit (SD card)</li> <li>Defective HDD</li> <li>Install the Data Overwrite Security<br/>Unit (B735).</li> <li>Replace the HDD.</li> </ul> |
|                   |   | Delete All error 2: Data area                                                                                                                                         |                                                                                                                                                                                             |
| 875               | D | An error is detected while the all data<br>of the HDD or NVRAM are formatted<br>logically by the Data Overwrite<br>Security Unit (B735).                              | <ul> <li>The logical format for HDD fails.</li> <li>1. Turn the main switch off/on and try the operation again.</li> </ul>                                                                  |

| No.<br>Definition |       | Symptom                                                                                                                                                                           | Possible Cause/Countermeasure                                                                                                                     |  |
|-------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 876               | Log [ | Data Error                                                                                                                                                                        |                                                                                                                                                   |  |
|                   |       | Log Data Error 1                                                                                                                                                                  |                                                                                                                                                   |  |
| -001              | D     | An error was detected in the handling<br>of the log data at power on or during<br>machine operation. This can be caused<br>by switching the machine off while it is<br>operating. | <ul> <li>Damaged log data file in the HDD</li> <li>1. Initialize the HDD with SP5832-004.</li> </ul>                                              |  |
|                   |       | Log Data Error 2                                                                                                                                                                  |                                                                                                                                                   |  |
| -002              | D     | Same as -001                                                                                                                                                                      | <ul> <li>An encryption module not installed</li> <li>1. Disable the log encryption setting.</li> <li>2. Install the encryption module.</li> </ul> |  |
|                   |       | Log Data Error 3                                                                                                                                                                  |                                                                                                                                                   |  |
| -003              | D     | Same as -001                                                                                                                                                                      | <ul> <li>Invalid encryption key log due to<br/>defective NVRAM data</li> </ul>                                                                    |  |
|                   |       |                                                                                                                                                                                   | <ol> <li>Initialize the HDD with SP5832-004.</li> <li>Discribing the last sector when setting</li> </ol>                                          |  |
|                   | D     | Log Data Error 4                                                                                                                                                                  | 2. Disable the log encryption setting.                                                                                                            |  |
| -004              |       | Same as -001                                                                                                                                                                      | <ul> <li>Unusual encryption function log due<br/>to the defective NVRAM data</li> </ul>                                                           |  |
|                   |       |                                                                                                                                                                                   | 1. Initialize the HDD with SP5832-004.                                                                                                            |  |
|                   |       | Log Data Error 5                                                                                                                                                                  |                                                                                                                                                   |  |
| -005              | D     |                                                                                                                                                                                   | <ul> <li>Installed NVRAM or HDD, which is<br/>used in other machine</li> </ul>                                                                    |  |
| -005              |       | Same as -001                                                                                                                                                                      | <ol> <li>Reinstall the previous NVRAM or<br/>HDD.</li> </ol>                                                                                      |  |
|                   |       |                                                                                                                                                                                   | 2. Initialize the HDD with SP5832-004.                                                                                                            |  |
|                   |       | Log Data Error 99                                                                                                                                                                 |                                                                                                                                                   |  |
| -099              | D     | Same as -001                                                                                                                                                                      | <ul><li>Other than above causes</li><li>1. Ask your supervisor.</li></ul>                                                                         |  |

| No.<br>Definition |   | Symptom                                                                                                                 | Possible Cause/Countermeasure                                                                                                                                                                           |
|-------------------|---|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   |   | HDD Data Overwrite Security SD card                                                                                     | error                                                                                                                                                                                                   |
| 877               | В | The all delete cannot be executed even<br>though the Data Overwrite Security<br>Unit (B735) is installed and activated. | <ul> <li>Defective SD card (B735)</li> <li>Not installed SD card (B735)</li> <li>Replace the NVRAM and then install the new SD card (B735).</li> <li>Check and reinstall the SD card (B735).</li> </ul> |
|                   | D | File Format Converter (MLB) error                                                                                       |                                                                                                                                                                                                         |
| 880               |   | A request to get access to the MLB was<br>not answered within the specified time.                                       | MLB defective                                                                                                                                                                                           |

## SC9xx

| No.<br>Definition |   | Symptom                                                                           | Possible Cause/Countermeasure                                                                                                                                  |  |
|-------------------|---|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                   |   | Electronic total counter error                                                    |                                                                                                                                                                |  |
| 900               | D | The value of the total counter is out of the normal range.                        | Defective NVRAM                                                                                                                                                |  |
|                   |   | Printer error                                                                     |                                                                                                                                                                |  |
| 920               | В | An application error that stops the machine operation is detected.                | <ul> <li>Defective software</li> <li>Unexpected hardware resource (e.g., memory shortage)</li> </ul>                                                           |  |
|                   |   | Printer font error                                                                |                                                                                                                                                                |  |
| 921               | В | A necessary font is not found in the SD card when the printer application starts. | <ul> <li>A necessary font is not found in the SD card.</li> <li>The SD card data is corrupted.</li> <li>Check that the SD card stores correct data.</li> </ul> |  |
| 990               | D | Software performance error                                                        |                                                                                                                                                                |  |

| No.<br>Definition |   | Symptom                                                                                                                                                                                                                                                                                                                                                       | Possible Cause/Countermeasure                                                                                                                                                                                                                                                                    |  |
|-------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                   |   | The software attempted to perform an<br>unexpected operation.<br>NOTE: When this error occurs, the file<br>name, address, and data will be stored<br>in NVRAM. This information can be<br>checked by using SP7-403. See the<br>data and the situation in which this SC<br>occurs. Then report the data and<br>conditions to your technical control<br>center. | <ul> <li>Software defective</li> <li>Internal parameter incorrect</li> <li>Insufficient working memory</li> </ul>                                                                                                                                                                                |  |
|                   |   | Software continuity error                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                  |  |
| 991               | С | The software attempted to perform an<br>unexpected operation. However,<br>unlike SC990, the process can keep on<br>running.                                                                                                                                                                                                                                   | Logged only; the machine can continue to operate                                                                                                                                                                                                                                                 |  |
|                   |   | Undefined error                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                  |  |
| 992               | D | An error not controlled by the system<br>occurred (the error does not come<br>under any other SC code).                                                                                                                                                                                                                                                       | Defective software program                                                                                                                                                                                                                                                                       |  |
|                   |   | Application function selection error                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                  |  |
| 997               | В | The application selected by a key press<br>on the operation panel does not start or<br>ends abnormally.                                                                                                                                                                                                                                                       | <ul> <li>Software for that application is defective</li> <li>An option required by the application (RAM, DIMM, board) is not installed.</li> <li>Too complicated nest of the fax group address</li> <li>As for the fax operation problem, simplify the nest of the fax group address.</li> </ul> |  |
|                   |   | Application start error                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                  |  |
| 998               | D | After switching the machine on, the<br>application does not start within 60 s.<br>(No applications start or end normally.)                                                                                                                                                                                                                                    | <ul> <li>Software for that application is<br/>defective</li> </ul>                                                                                                                                                                                                                               |  |

| No.<br>Definition |  | Symptom | Possible Cause/Countermeasure                                                                                            |
|-------------------|--|---------|--------------------------------------------------------------------------------------------------------------------------|
|                   |  |         | <ul> <li>An option required by the application<br/>(RAM, DIMM, board) is not installed.</li> </ul>                       |
|                   |  |         | <ol> <li>Check the setting of SP5875-001. If<br/>the setting is set to "1 (OFF)", change<br/>it to "0 (OFF)".</li> </ol> |

### 3

#### NOTE

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

# 4. Service Tables

# Service Program Mode

# 

- Before accessing the service menu, do the following:
- Confirm that there is no print data in the printer buffer (the 'Data In' LED must not be lit or blinking).
- If there is some data in the buffer, wait until all data has been printed.

## 

• Never turn off the main power switch when the power LED is lit or flashing. To avoid damaging the hard disk or memory, press the operation power switch to switch the power off, wait for the power LED to go off, and then switch the main power switch off.

#### Note

The main power LED (\*\*\*) lights or flashes while the platen cover or ARDF is open; while the main
unit is communicating with a facsimile or the network server; or while the machine is accessing the
memory for reading or writing data.

### Enabling and Disabling Service Program Mode

#### Entering the SP Mode

| 8          | 1. | Press the Clear Mode key.                     |  |
|------------|----|-----------------------------------------------|--|
| 107        | 2. | Use the keypad to enter "107".                |  |
| Co         | 3. | Hold down Clear/Stop for at least 3 seconds.  |  |
|            | 4. | Enter the Service Mode.                       |  |
| Printer SP |    | Select "Printer SP" to enter printer SP mode. |  |
| Scanner SP |    | Select "Scanner SP" to enter scanner SP mode. |  |

#### Exiting the Service Mode

Press the cancel key to exit from the service mode.

4

# **GW SP Mode Tables**

The tables in this section list the service programs (SPs).

The following codes are used:

Asterisk (\*): The settings are saved in the NVRAM. Most of them return to the default values when you
execute SP 5801 2.

CTL indicates that the data is contained in the NVRAM on the controller board.

- The DFU menu is for design or factory use only. You must not change the settings.
- Brackets ([]): The brackets enclose the setting rage, default value, and minimum step (with unit) as follows: [Minimum to Maximum / Default / Step].
- SSP: Consult your supervisor before you use this program.

#### SP4-XXX (Mode)

| 4921* | [Image Adj Selection]                                                                                                                                                                                                            |                          |  |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--|
|       | Сору                                                                                                                                                                                                                             | [0 to 10 / <b>0</b> / 1] |  |
| 001   | Selects which mode the settings from SP4-922 to SP4-932 are used for.<br>0 = None, 1 = Text 1, 2 =Text 2, 3= Photo 1, 4 = Photo 2, 5 = Photo 3, 6 = Special 1, 7<br>= Special 2, 8 = Special 3, 9 = Special 4,<br>10 = Special 5 |                          |  |
| 002   | Fax                                                                                                                                                                                                                              | [0 to 5 / 0 / 1]         |  |
|       | Selects which mode the settings from SP4-922 to SP4-932 are used for.<br>0 = None, 1 = Text 1, 2 = Text 2, 3 = Photo 1, 4 = Photo 2,<br>5 = Special 1                                                                            |                          |  |
| 003   | Scanner                                                                                                                                                                                                                          | [0 to 4 / 0 / 1]         |  |
|       | Selects which mode the settings from SP4-922 to SP4-932 are used for.<br>0 = None, 1 = Text 1, 2 = Text 2, 3= Photo 1, 4 = Photo 2                                                                                               |                          |  |

| 4922* | [Scanner Gamma]                                                                                                          |                                              |  |
|-------|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--|
|       | Selects "text" or "photo" as the priority output mode. This setting is applied to all image processing modes of SP4-921. |                                              |  |
| 001   | Сору                                                                                                                     | [ <b>0</b> =System default/ 1=Text/ 2=Photo] |  |

| 02  | Fax     |
|-----|---------|
| 003 | Scanner |

|       | [Notch Selection]                                                               |                                                                                                                                                                                                           |
|-------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4923* | <ul> <li>Normally the center notch<br/>(becomes lighter). If +1 is s</li> </ul> | D adjustment notch for the ID adjustment LEDs.<br>is 3 (range 1-5). If –1 is selected, each notch shifts down<br>selected, each notch shifts up (becomes darker).<br>I image processing modes of SP4-921. |
| 001   | Сору                                                                            |                                                                                                                                                                                                           |
| 002   | Fax                                                                             | [-1 = Light / <b>0</b> = Normal / +1 = Dark]                                                                                                                                                              |
| 003   | Scanner                                                                         |                                                                                                                                                                                                           |

| 4926* | [Texture Removal]                                                                                                                                                                                                 |                              |  |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--|
|       | Adjusts the texture removal level that is used with error diffusion. 0: The default value for each mode is used. Text 1, Photo 2, Special 2, and Special 5 have a default of 3 and Photo 1-3 have a default of 1. |                              |  |
|       | 1: No removal applied.                                                                                                                                                                                            |                              |  |
|       | 2 to 5: Removal applied at the level specified here. The higher the setting (level), the less clear the image will become (more texture removal). This setting is only applied to the originals in SP4-921.       |                              |  |
| 001   | Сору                                                                                                                                                                                                              |                              |  |
| 002   | Fax                                                                                                                                                                                                               | [0 to 6 / <b>0</b> / 1/step] |  |
| 003   | Scanner                                                                                                                                                                                                           |                              |  |

| 4927* | [Line Width Correction]                                                                                                                                                                  |                               |  |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--|
|       | Adjusts the line width correction algorithm. Positive settings produce thicker lines; negative settings produce thinner lines. This setting is only applied to the originals in SP4-921. |                               |  |
| 001   | Сору                                                                                                                                                                                     |                               |  |
| 002   | Fax                                                                                                                                                                                      | [-2 to 2 / <b>0</b> / 1/step] |  |
| 003   | Scanner                                                                                                                                                                                  |                               |  |

| 4928* | [Independent Dot Erase]                                                                                                         |                               |  |
|-------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--|
|       | Selects the dot erase level. Higher settings provide greater erasure. This setting is only applied to the originals in SP4-921. |                               |  |
| 001   | Сору                                                                                                                            |                               |  |
| 002   | Fax                                                                                                                             | [-2 to 2 / <b>0</b> / 1/step] |  |
| 003   | Scanner                                                                                                                         |                               |  |

| 4929* | [Positive/Negative]                                                                | [ <b>0 = No</b> , 1 = Yes] |
|-------|------------------------------------------------------------------------------------|----------------------------|
|       | Inverts white and black. This setting is only applied to the originals in SP4-921. |                            |
| 001   | Сору                                                                               |                            |
| 002   | Fax                                                                                |                            |

| 4930* | [Sharpness-Edge]                                                              | [-2 to 2 / <b>0</b> / 1/step] |
|-------|-------------------------------------------------------------------------------|-------------------------------|
|       | Adjust the clarity. This setting is only applied to the originals in SP4-921. |                               |
| 001   | Сору                                                                          |                               |
| 002   | Fax                                                                           |                               |
| 003   | Scanner                                                                       |                               |

| 4931* | [Sharpness-Solid]                                                             | [-2 to 2 / <b>0</b> / 1/step] |  |
|-------|-------------------------------------------------------------------------------|-------------------------------|--|
| 4731  | Adjust the clarity. This setting is only applied to the originals in SP4-921. |                               |  |
| 001   | Сору                                                                          |                               |  |
| 002   | Fax                                                                           |                               |  |
| 003   | Scanner                                                                       |                               |  |

| 4932* | [Sharpness-Low ID]                                                            | [-2 to 2 / <b>0</b> / 1/step] |  |
|-------|-------------------------------------------------------------------------------|-------------------------------|--|
| 4752  | Adjust the clarity. This setting is only applied to the originals in SP4-921. |                               |  |
| 001   | Сору                                                                          |                               |  |
| 002   | Fax                                                                           |                               |  |

| 003 Scanner |
|-------------|
|-------------|

### SP5-XXX (Mode)

| 5001 | [All Indicators On]                                               |
|------|-------------------------------------------------------------------|
| 001  | All LEDs turn on. The LCDs turn on or off with "ON" or "OFF" key. |

| 5045 | [Counter Model]                                                                    |
|------|------------------------------------------------------------------------------------|
|      | Selects the counting display if the meter charge mode is enabled with SP5-930-001. |
| 001  | <ul> <li>You can change the setting only one time.</li> </ul>                      |
|      | [0 or 1 / <b>0</b> / 1 /step]                                                      |
|      | 0: 1 counter (Total)                                                               |
|      | 1: 2 counters (Total and Prints)                                                   |

| 5055 | [Display IP address] |     |                                                                                                     |
|------|----------------------|-----|-----------------------------------------------------------------------------------------------------|
| 001  | Display IP address   | CTL | Displays or does not display the IP address on the LCD.<br>[0 or 1 / <b>0</b> / -]<br>0: No, 1: Yes |

| 5056 | [Coverage Counter] |     |                                                                                                                           |
|------|--------------------|-----|---------------------------------------------------------------------------------------------------------------------------|
| 001  | Coverage Counter   | CTL | Displays or does not display the coverage counter on<br>the LCD.<br>[0 or 1 / <b>0</b> / -]<br>0: Not display, 1: Display |

| 5104* | [A3 Double Count] SSP                                                                                                                                                                                                |  |  |  |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| 5104  | A3 Double Count CTL [ <b>0 = No</b> / 1 = Yes / 2 = No Unclear]                                                                                                                                                      |  |  |  |
| 001   | Selects whether the machine counts twice for each sheet of A3/11"x 17". If this is set to "Yes", the total (mechanical) counter and the current user counter will both increment by two for each A3/11" x 17" sheet. |  |  |  |

| 5112 | [Non-Std. Paper Set] Non-Standard Paper Set                                                                                                  |  |  |
|------|----------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| 001  | Determines whether a non-standard paper size can be input for the universal cassette trays<br>(Tray 2, Tray 3).<br>[0 or 1 / 1 / -]<br>0: No |  |  |
|      | 1: Yes. If "1" is selected, the customer will be able to input a non-standard paper size using the UP mode.                                  |  |  |

| 5113 | [Optional Counter Type] |     |                                                                                                                                                                                           |
|------|-------------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 001  | Optional Counter Type 1 | CTL | This program specifies the counter type.<br><b>0: None</b><br>1: Key card (RK 3, 4)<br>2: Key card (down)<br>3 to 10: Japan only<br>11: Exp. key card (Add)<br>12: Exp. key card (Deduct) |
| 002  | Optional Counter Type 2 | CTL | This program specifies the external counter type.<br><b>0: None</b><br>1: Expansion device 1<br>2: Expansion device 2<br>3: Expansion device 3                                            |

| 5114 | [Optional Coutner I/F] |     |                                                                  |  |
|------|------------------------|-----|------------------------------------------------------------------|--|
| 001  | MF Key Card Ext.       | CTL | Japan use [0: Not installed/ 1: Installed (scanning accounting)] |  |

| 5118 | [Disable Copying]             | CTL | [ <b>0: Not disabled</b> / 1: Disabled] |
|------|-------------------------------|-----|-----------------------------------------|
| 001  | This program disables copying | g.  |                                         |

| 5120* | [Clr For Cnt Remove] | CTL | [ <b>0=Yes</b> / 1=Standby only / 2=No] |
|-------|----------------------|-----|-----------------------------------------|
|-------|----------------------|-----|-----------------------------------------|

| 001 | Determines under which conditions the copy job settings are reset when the key counter is removed. With 0, the settings are cleared if the counter is removed at the end of a job or midway through a job. With 1, they are only cleared if the counter is removed at the end |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | of a job. With 2, they are not cleared at all, under either condition. With duplex copies,<br>the job settings are always preserved, regardless of the setting of this SP mode.                                                                                               |

| 5121* | [Counter Up Timing]            | CTL       | [ <b>0 = Feed In</b> / 1 = Exit]                        |  |
|-------|--------------------------------|-----------|---------------------------------------------------------|--|
| 001   | Selects whether the key counte | r increme | ents at time of paper feed-in or at time of paper exit. |  |

| 5127 | [APS Mode]                     | CTL | [ <b>0: Not disabled</b> / 1: Disabled] |
|------|--------------------------------|-----|-----------------------------------------|
| 001  | This program disables the APS. |     |                                         |

| 5150                                                                                                                         | [By-pass Long Paper]                                                        | CTL | [ <b>0 = OFF</b> / 1 = ON] |
|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----|----------------------------|
|                                                                                                                              | Determines whether the transfer sheet from the by-pass tray is used or not. |     |                            |
| 001 Normally the paper length for sub scanning paper from the by-pa<br>mm, but this can be extended with this SP to 1260 mm. |                                                                             |     |                            |

|      | [Fax Printing Cnt Off]                                                                                                                                          |     |                                                                        |  |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------|--|
| 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 Counter Off                                                                                                                                        | CTL | [0 or 1 / 0 / – ]<br>0: Automatic printing<br>1: No automatic printing |  |

| 5169 | [CE Login]                                                                                                                     |     |                                                       |  |  |
|------|--------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------------------|--|--|
|      | If you change the printer bit switches, you must 'log in' to service mode with this SP before you go into the printer SP mode. |     |                                                       |  |  |
| 001  | CE Login                                                                                                                       | CTL | [0 or 1 / <b>0</b> / - ]<br>0: Disabled<br>1: Enabled |  |  |

| 5188 | [Copy NV Version] |
|------|-------------------|
|------|-------------------|

| 001 0 | Copy NV Version | CTL | Displays the NVRAM version in the controller board. |
|-------|-----------------|-----|-----------------------------------------------------|
|-------|-----------------|-----|-----------------------------------------------------|

|                          | [Set Time]                                                              |                  |                                              |  |  |
|--------------------------|-------------------------------------------------------------------------|------------------|----------------------------------------------|--|--|
|                          | Adjusts the RTC (real time clock) time setting for the local time zone. |                  |                                              |  |  |
|                          | Examples: For Japan (+9 GM                                              | Γ), enter (      | 540 (9 hours x 60 min.)                      |  |  |
|                          | DOM: +540 (Tokyo)                                                       |                  |                                              |  |  |
| 5302 NA :-300 (New York) |                                                                         |                  |                                              |  |  |
|                          | EU :+ 60 (Paris)                                                        | EU :+ 60 (Paris) |                                              |  |  |
|                          | CH :+480 (Peking)                                                       |                  |                                              |  |  |
|                          | TW :+480 (Taipei)                                                       |                  |                                              |  |  |
|                          | AS :+480 (Hong Kong)                                                    |                  |                                              |  |  |
| 002                      | Time Difference                                                         | CTL<br>#         | [-1440 to 1440 / <b>Area</b> / 1 min./step ] |  |  |

| 5307 | [Summer Time]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |                                                                                                  |  |  |  |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--------------------------------------------------------------------------------------------------|--|--|--|
| 001  | ON/OFF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | - | [ 0 or 1 / <b>NA, EU, ASIA</b> / 1 /step]<br>0: Disabled<br>1: Enabled<br>NA and EUR: 1, ASIA: 0 |  |  |  |
| 001  | <ul> <li>Enables or disables the summer time mode.</li> <li>Note</li> <li>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".</li> </ul>                                                                                                                                                                                                                                                                                                 |   |                                                                                                  |  |  |  |
|      | Start                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | - | -                                                                                                |  |  |  |
| 003  | Specifies the start setting for the summer time mode.<br>There are 8 digits in this SP. For months 1 to 9, the "0" cannot be input in the first digit, so<br>the eight-digit setting for -2 or -3 becomes a seven-digit setting.<br>1 st and 2nd digits: The month. [1 to 12]<br>3rd digit: The week of the month. [1 to 5]<br>4th digit: The day of the week. [0 to 6 = Sunday to Saturday]<br>5th and 6th digits: The hour. [00 to 23]<br>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]                                     |              |        |  |  |
|-----|-----|-------------------------------------------------------------------------------------------------------------|--------------|--------|--|--|
|     |     | For example: 3500010 (EU default)<br>The timer is advanced by 1 hour at am 0:00 on the 5th Sunday in March. |              |        |  |  |
|     |     |                                                                                                             |              |        |  |  |
|     |     | • The digits are counted from the left.                                                                     |              |        |  |  |
|     |     | • Make sure that SP5-307-                                                                                   | -1 is set to | o "]". |  |  |
|     |     | 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]                                                                    |              |        |  |  |
|     | 004 | 3rd digit: The week of the month. [0 to 5]                                                                  |              |        |  |  |
|     | 004 | 4th digit: The day of the week. [O to 6 = Sunday to Saturday]                                               |              |        |  |  |
|     |     | 5th and 6th digits: The hour. [00 to 23]                                                                    |              |        |  |  |
|     |     | The 7th and 8th digits must be set to "00".                                                                 |              |        |  |  |
|     |     | • The digits are counted from the left.                                                                     |              |        |  |  |
|     |     | <ul> <li>Make sure that SP5-307-1 is set to "1".</li> </ul>                                                 |              |        |  |  |
| - 1 |     |                                                                                                             |              |        |  |  |

| 5401 | [Access Control]                                                                          |     |                                                                                        |  |  |  |
|------|-------------------------------------------------------------------------------------------|-----|----------------------------------------------------------------------------------------|--|--|--|
|      | When installing the SDK application, SAS (VAS) adjusts the following settings. <b>DFU</b> |     |                                                                                        |  |  |  |
| 006  | С                                                                                         | CTL |                                                                                        |  |  |  |
| 016  | DS                                                                                        | CTL |                                                                                        |  |  |  |
| 026  | F                                                                                         | CTL |                                                                                        |  |  |  |
| 036  | S                                                                                         | CTL | <b>SSP:</b> These SPs are not disclosed due to the security                            |  |  |  |
| 046  | Р                                                                                         | CTL | protection.                                                                            |  |  |  |
| 076  | SDK 1                                                                                     | CTL |                                                                                        |  |  |  |
| 086  | SDK 2                                                                                     | CTL |                                                                                        |  |  |  |
| 096  | SDK 3                                                                                     | CTL |                                                                                        |  |  |  |
| 200  | SDK1 Unique ID                                                                            | CTL | This ID is overwritten by SAS (VAS) when you install or uninstall the SDK application. |  |  |  |
| 201  | SDK1 Certification<br>Method                                                              | CTL | [ 0 to 255 / 0 / 1 /step] <b>DFU</b>                                                   |  |  |  |

| 210 | SDK2 Unique ID               | CTL | DFU                                  |
|-----|------------------------------|-----|--------------------------------------|
| 211 | SDK2 Certification<br>Method | CTL | [ 0 to 255 / 0 / 1 /step] <b>DFU</b> |
| 220 | SDK3 Unique ID               | CTL | DFU                                  |
| 221 | SDK3 Certification<br>Method | CTL | [ 0 to 255 / 0 / 1 /step] <b>DFU</b> |

| 5404 | [User Code Clear]                                                                                                               |
|------|---------------------------------------------------------------------------------------------------------------------------------|
| 001  | Clears the counts for the user codes assigned by the key operator to restrict the use of the machine. Press [Execute] to clear. |

| 5501 | [PM Alarm Interval] | CTL                                                                                                                                                   | - |
|------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 001  | Printout            | [ 0 to 9999 / <b>0</b> / 1 /step]<br>0: Alarm off<br>1 to 9999: Alarm goes off when the PM counter reaches the<br>specified value (1 to 9999) x 1000. |   |
| 002  | ADF                 | [0 or 1 / 1 / -]<br>0: No alarm sounds<br>1: Alarm sounds after the number of originals passing throug<br>the ARDF ≥ 10,000                           |   |

| 5504 | [Jam Alarm]                   | CTL | -                                                                                          |
|------|-------------------------------|-----|--------------------------------------------------------------------------------------------|
| 001  | [0 to 3 / <b>3</b> / 1 /step] | ·   | ied jam level (document misfeeds are not included).<br>Medium (3K jams), 3: High (6K jams) |

| 5505* | [Error Alarm]                                                                                                                                                                                                                                                                                                               |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 001   | Sets the error alarm level.<br>The error alarm counter counts "1" when any SC is detected. However, the error alarm<br>counter decreases by "1" when any SC is not detected during specified sheets of copies (for<br>example, default 1500 sheets).<br>The error alarm occurs when the SC error alarm counter reaches "5". |

|      | [0 to 255 / <b>35</b> / 100 copies per step] |                                                                                                                                   |  |  |  |
|------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| 5507 | [Supply Alarm]                               | CTL -                                                                                                                             |  |  |  |
| 001  | Paper Size                                   | Enables or disables the automatic alarm call for each paper size (specified with SP5507-128 to -172).<br>[ <b>0: Off</b> , 1: On] |  |  |  |
| 002  | Staple                                       | Enables or disables the automatic alarm call for every 1000 staples.<br>[ <b>0: Off</b> , 1: On]                                  |  |  |  |
| 003  | Toner                                        | Enables or disables the automatic alarm call at toner<br>near end.<br>[ <b>0: Off</b> , 1: On]                                    |  |  |  |
| 128  | Interval :Others                             |                                                                                                                                   |  |  |  |
| 132  | Interval :A3                                 |                                                                                                                                   |  |  |  |
| 133  | Interval :A4                                 |                                                                                                                                   |  |  |  |
| 134  | Interval :A5                                 |                                                                                                                                   |  |  |  |
| 141  | Interval :B4                                 |                                                                                                                                   |  |  |  |
| 142  | Interval :B5                                 | [250 to 10000 / <b>1000</b> / 1 /step]                                                                                            |  |  |  |
| 160  | Interval :DLT                                |                                                                                                                                   |  |  |  |
| 164  | Interval :LG                                 |                                                                                                                                   |  |  |  |
| 166  | Interval :LT                                 |                                                                                                                                   |  |  |  |
| 172  | Interval :HLT                                |                                                                                                                                   |  |  |  |

| 5508*       | [Auto Call Setting]                                            | CTL                                                  | -                            |  |  |
|-------------|----------------------------------------------------------------|------------------------------------------------------|------------------------------|--|--|
| Jam Remains |                                                                | 0: [                                                 | 0: Disable, <b>1: Enable</b> |  |  |
| 001*        | Enables/disables initiating a call                             | ables initiating a call for an unattended paper jam. |                              |  |  |
| 002*        | Frequent Jams                                                  | 0: [                                                 | Disable, <b>1: Enable</b>    |  |  |
| 002         | Enables/disables initiating a call for consecutive paper jams. |                                                      |                              |  |  |
| 003*        | Door Open                                                      | 0: [                                                 | Disable, <b>1: Enable</b>    |  |  |

|      | Enables/disables initiating a call when the front door remains open.                                                                   |                                          |  |  |  |
|------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--|--|--|
|      | Jam Remains: Time                                                                                                                      | [ 03 to 30 / <b>10</b> / 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. |                                          |  |  |  |
|      | Freq Jam: # of Time                                                                                                                    | [ 02 to 10 / <b>5</b> / 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                                                                                                                        | [03 to 30 / <b>10</b> / 1 minute/step]   |  |  |  |
|      | Sets the length of time the door remains open before the machine initiates a call.                                                     |                                          |  |  |  |
|      | This setting is enabled only when SP5508 004 is set to 1.                                                                              |                                          |  |  |  |

|      | [SC/Alarm Setting]       | CTL                                                                                                                | -      |  |
|------|--------------------------|--------------------------------------------------------------------------------------------------------------------|--------|--|
| 5515 |                          | SP codes can be set to issue an SC call when an SC error occurs.<br>SC call is not issued when an SC error occurs. |        |  |
| 001  | SC Call                  |                                                                                                                    |        |  |
| 002  | Service Parts Near End   |                                                                                                                    |        |  |
| 003  | Service Parts End        |                                                                                                                    |        |  |
| 004  | User Call                |                                                                                                                    |        |  |
| 006  | Communication Test       | [0 or 1 /                                                                                                          | 1 / -] |  |
| 007  | Machine Information      | 0: Off, 1:                                                                                                         | On     |  |
| 008  | Alarm Notice             |                                                                                                                    |        |  |
| 010  | Supply Automatic Order   |                                                                                                                    |        |  |
| 011  | Supply Management Report |                                                                                                                    |        |  |
| 012  | Jam/Door Open Call       |                                                                                                                    |        |  |

| 5801 | [Memory Clear]<br>Before executing any of these SP codes, print an SMC Report. |  |
|------|--------------------------------------------------------------------------------|--|
| 001  | All Clear                                                                      |  |

|      | Initializes items SP5801-002 to -014 below.                                                                                                             |                                          |                                                          |  |  |  |  |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|----------------------------------------------------------|--|--|--|--|
|      | Turn the main power switch off and on after executing this SP.                                                                                          |                                          |                                                          |  |  |  |  |
| 002  | SCS                                                                                                                                                     | -                                        | -                                                        |  |  |  |  |
| 003  | Clears the system settings.                                                                                                                             |                                          |                                                          |  |  |  |  |
|      | ІМН                                                                                                                                                     | -                                        | -                                                        |  |  |  |  |
| 004  | Clears IMH data. <b>DFU</b>                                                                                                                             |                                          |                                                          |  |  |  |  |
| 0.05 | MCS                                                                                                                                                     | -                                        | -                                                        |  |  |  |  |
| 005  | Clears MCS data. <b>DFU</b>                                                                                                                             |                                          | 1                                                        |  |  |  |  |
|      | Copier                                                                                                                                                  | -                                        | -                                                        |  |  |  |  |
| 006  | Clears the copy applicatio                                                                                                                              | n settings.                              |                                                          |  |  |  |  |
|      | Fax                                                                                                                                                     | -                                        | -                                                        |  |  |  |  |
| 007  | Clears the fax application                                                                                                                              | settings.                                | 1                                                        |  |  |  |  |
|      | Printer                                                                                                                                                 | -                                        | -                                                        |  |  |  |  |
| 008  | Clears the printer applicati                                                                                                                            | Clears the printer application settings. |                                                          |  |  |  |  |
|      | Scanner                                                                                                                                                 | -                                        | -                                                        |  |  |  |  |
| 009  | Clears the scanner applice                                                                                                                              | ation settings                           | 5.                                                       |  |  |  |  |
|      | GWWS                                                                                                                                                    | -                                        | -                                                        |  |  |  |  |
| 010  | Delete the netfile application management files and thumbnails, and initializes the job login ID.                                                       |                                          |                                                          |  |  |  |  |
|      | NCS                                                                                                                                                     | -                                        | -                                                        |  |  |  |  |
| 011  | Initializes the system default and interface settings (IP address also), SmartNetMonitor for Admin, WebStatusMonitor settings, and the TELNET settings. |                                          |                                                          |  |  |  |  |
|      | • The name of Apple ta executing this SP.                                                                                                               | lk is not clec                           | rred only if this SP is executed. Turns off and on after |  |  |  |  |
|      | R-FAX                                                                                                                                                   | -                                        | -                                                        |  |  |  |  |
| 012  | Initializes the job login ID, SmartNetMonitor for Admin, job history, and local storage file numbers.                                                   |                                          |                                                          |  |  |  |  |

| 014   | Clear DCS Setting                                                        | -           | -                         |  |
|-------|--------------------------------------------------------------------------|-------------|---------------------------|--|
| 014   | Initializes the DCS (Delivery                                            | Control Se  | ervice) settings.         |  |
| 0.1.5 | Clear UCS Setting                                                        | -           | -                         |  |
| 015   | Initializes the UCS (User Info                                           | ormation C  | ontrol Service) settings. |  |
| 016   | MIRS Setting                                                             | -           | -                         |  |
| 010   | Initializes the MIRS (Machine Information Report Service) settings.      |             |                           |  |
| 017   | CCS                                                                      | -           | -                         |  |
| 017   | 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 (Log Cou                                             | nt Service) | settings.                 |  |

| 5811* | [Machine No. Setting] |   |                           |
|-------|-----------------------|---|---------------------------|
| 001   | Code Set              | - | (🖝 "Serial Number Input") |

| 5812 | [Service TEL]                                                                                                                                                                                                                                         |     |   |  |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|--|
|      | Telephone                                                                                                                                                                                                                                             | CTL | - |  |
| 001  | Sets the telephone number for a service representative. This number is printed on the<br>Counter List, which can be printed with the user's "Counter" menu.<br>This can be up to 20 characters (both numbers and alphabetic characters can be input). |     |   |  |
| 002  | Facsimile                                                                                                                                                                                                                                             | CTL | - |  |
|      | Sets the fax or telephone number for a service representative. This number is printed on the<br>Counter List.<br>This can be up to 20 characters (both numbers and alphabetic characters can be input).                                               |     |   |  |

| 5816 | [NRS Function] | CTL         | -                         |
|------|----------------|-------------|---------------------------|
| 001  | I/F Setting    | Selects the | e remote service setting. |
|      |                | [ 0 to 2 /  | 2 / 1 /step]              |

|     |                                                                                                                        | 0: Remote service off<br>1: CSS remote service on<br>2: @Remote service on                                                                                                                                     |  |
|-----|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 002 | CE Call                                                                                                                | Performs the CE Call at the start or end of the service.<br>[0 or 1 / 0 / 1 /step]<br>0: Start of the service, 1: End of the service<br>Note<br>• This SP is activated only when SP 5816-001 is set to<br>"2". |  |
| 003 | Function Flag                                                                                                          | Enables or disables the remote service function.<br>[0 or 1 / <b>0</b> / 1 /step]<br>0: Disabled, 1: Enabled                                                                                                   |  |
| 007 | SSL Disable                                                                                                            | Uses or does not use the RCG certification by SSL when<br>calling the RCG.<br>[0 or 1 / <b>0</b> / 1 /step]<br>0: Uses the RCG certification<br>1: Does no use the RCG certification                           |  |
| 008 | RCG Connect Timeout                                                                                                    | Specifies the connect timeout interval when calling the RCG.<br>[1 to 90 / <b>10</b> / 1 second/step]                                                                                                          |  |
| 009 | RCG Write Timeout                                                                                                      | Specifies the write timeout interval when calling the RCG.<br>[1 to 100 / <b>60</b> / 1 second/step]                                                                                                           |  |
| 010 | RCG Read Timeout                                                                                                       | Specifies the read timeout interval when calling the RCG.<br>[1 to 100 / <b>60</b> / 1 second/step]                                                                                                            |  |
| 011 | Port 80                                                                                                                | Enables/disables access via port 80 to the SOAP method.<br>[0 or 1 / <b>0</b> / – ]<br>0: Disabled, 1: Enabled                                                                                                 |  |
| 021 | Function Flag                                                                                                          |                                                                                                                                                                                                                |  |
|     | This SP displays the embedded RCG installation end flag.<br>1: Installation completed<br>2: Installation not completed |                                                                                                                                                                                                                |  |

|     | Install Status                                                                                                                                                                                                                     |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 022 | This SP displays the RCG device installation status.                                                                                                                                                                               |
|     | 0: RCG device not registered                                                                                                                                                                                                       |
|     | 1: RCG device registered                                                                                                                                                                                                           |
|     | 2: Device registered                                                                                                                                                                                                               |
|     | Connect Mode (N/M)                                                                                                                                                                                                                 |
| 023 | This SP displays and selects the embedded RCG connection method.                                                                                                                                                                   |
| 023 | 0: Internet connection                                                                                                                                                                                                             |
|     | 1: Dial-up connection                                                                                                                                                                                                              |
| 061 | NotiTime ExpTime <b>DFU</b>                                                                                                                                                                                                        |
| 001 | Proximity of the expiration of the certification.                                                                                                                                                                                  |
|     | HTTP Proxy Use                                                                                                                                                                                                                     |
| 062 | This SP setting determines if the proxy server is used when the machine communicates with the service center.                                                                                                                      |
|     | HTTP Proxy Host                                                                                                                                                                                                                    |
|     | This SP sets the address of the proxy server used for communication between embedded RCG-N and the gateway. Use this SP to set up or display the customer proxy server address. The address is necessary to set up embedded RCG-N. |
| 063 | ♦ Note                                                                                                                                                                                                                             |
|     | • The address display is limited to 127 characters. Characters beyond the 127th character are ignored.                                                                                                                             |
|     | • This address is customer information and is not printed in the SMC report.                                                                                                                                                       |
|     | HTTP Proxy Port Number                                                                                                                                                                                                             |
| 064 | This SP sets the port number of the proxy server used for communication between embedded RCG N and the gateway. This setting is necessary to set up embedded RCG-N.                                                                |
|     | • This port number is customer information and is not printed in the SMC report.                                                                                                                                                   |
| 045 | HTTP Proxy Aut Usr                                                                                                                                                                                                                 |
| 065 | This SP sets the HTTP proxy authentication user name.                                                                                                                                                                              |

|     |                                                                                                        | lote                                                                                                                                                                            |  |  |
|-----|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
|     | • The length of the name is limited to 31 characters. Any character beyond the 3 character is ignored. |                                                                                                                                                                                 |  |  |
|     | • This name is customer information and is not printed in the SMC report.                              |                                                                                                                                                                                 |  |  |
|     | HTTP                                                                                                   | Proxy Aut Pass                                                                                                                                                                  |  |  |
|     | This SP sets the HTTP proxy authentication password.                                                   |                                                                                                                                                                                 |  |  |
| 066 |                                                                                                        | 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.                                                                                                         |  |  |
|     | Cer l                                                                                                  | Jpdt Cond                                                                                                                                                                       |  |  |
|     | Displ                                                                                                  | ays the status of the certification update.                                                                                                                                     |  |  |
|     | 0                                                                                                      | The certification used by embedded RCG 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.                                                                                         |  |  |
| 047 | 4                                                                                                      | The period of the certification has expired and a new request for an update is being sent to the GW URL.                                                                        |  |  |
| 067 | 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 been 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 a 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.                                                                                                            |  |
|      | Cer Abnml Cause                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                               |  |
|      |                                                                                                                                                                                                                                                                                                                 | ays a number code that describes the reason for the request for update of the<br>ication.                                                                                                                                                     |  |
|      | 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 (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.                                                                                                                                                                                                      |  |
| 0.40 | Cert Updt ReqID                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                               |  |
| 069  | The ID of the request for certification.                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                               |  |
| 000  | Firm Updating                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                               |  |
| 083  | Displays the status of the firmware update.                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                               |  |
| 004  | Firm UpFlg No HDD                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                               |  |
| 084  | This setting determines if the firmware can be updated, even without the HDD installed.                                                                                                                                                                                                                         |                                                                                                                                                                                                                                               |  |
| 085  | Firm Up Usr Conf                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                               |  |
|      | 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                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                               |  |

| CERT: Macro Version           087         Displays the macro version of the @Remote certification.           088         CERT: PAC Version           088         Displays the PAC version of the @Remote certification.           089         CERT: ID2 Code           089         CERT: Subject           090         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         Displays the common name of the @Remote certification. Asterisks (*) indicate that no DESS exists.           091         CERT: Subject           092         Displays serial number           093         CERT: Serial Number           094         Displays serial number for the @Remote certification. Asterisks (*) indicate that no DESS exists.           093         CERT: Issuer           094         Displays the common name of the issuer of the @Remote certification. CN = the following 30 bytes. Asterisks (*) indicate that no DESS exists.           093         CERT: St ExpTime           094         Displays the start time of the period for which the current @Remote certification is enabled.           094         CERT: End ExpTime           015         Select from the list the name of the country where embedded RCG-M is installed in the machine. After selecting the country, you must also set the following SP c       |      | Allows the service technician to confirm the size of the firmware data files during the firmware update execution. |
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| Displays the macro version of the @Remote certification.           088         CERT: PAC Version           088         Displays the PAC version of the @Remote certification.           089         CERT: ID2 Code           089         Displays ID2 for the @Remote certification. Spaces are displayed as underscores (_).<br>Asterisks (*) indicate that no @Remote certification exists.           090         CERT: Subject           090         Displays the common name of the @Remote certification subject. CN = the following 17<br>bytes. Spaces are displayed as underscores (_). Asterisks (*) indicate that no DESS exists.           091         CERT: Serial Number           092         Displays the common name of the issuer of the @Remote certification. CN = the following<br>30 bytes. Asterisks (*) indicate that no DESS exists.           092         CERT: Issuer           093         CERT: St ExpTime           093         CERT: End ExpTime           094         Displays the eant time of the period for which the current @Remote certification is enabled.           094         Displays the end time of the period for which the current @Remote certification is enabled.           150         Ins Country           Select from the list the name of the country where embedded RCG-M is installed in the<br>machine. After selecting the country, you must also set the following SP codes for embedded<br>RCG-M:<br>SPS816-153<br>SPS816-154 | 0.07 | CERT: Macro Version                                                                                                |
| 088         Displays the PAC version of the @Remote certification.           089         CERT: ID2 Code           089         Displays ID2 for the @Remote certification. Spaces are displayed as underscores (_).<br>Asterisks (*) indicate that no @Remote certification exists.           090         CERT: Subject           090         Displays the common name of the @Remote certification subject. CN = the following 17<br>bytes. Spaces are displayed as underscores (_). Asterisks (*) indicate that no DESS exists.           091         CERT: Serial Number           091         Displays serial number for the @Remote certification. Asterisks (*) indicate that no DESS<br>exists.           092         CERT: Issuer           093         CERT: St ExpTime           094         Displays the start time of the period for which the current @Remote certification is enabled.           094         CERT: End ExpTime           095         Displays the end time of the period for which the current @Remote certification is enabled.           094         Displays the end time of the period for which the current @Remote certification is enabled.           150         Ins Country           Select from the list the name of the country where embedded RCG-M is installed in the<br>machine. After selecting the country, you must also set the following SP codes for embedded<br>RCG-M:           0         SPS816-153<br>• SPS816-154                  | 087  | Displays the macro version of the @Remote certification.                                                           |
| Displays the PAC version of the @Remote certification.         089       CERT: ID2 Code         089       Displays ID2 for the @Remote certification. Spaces are displayed as underscores (_).<br>Asterisks (*) indicate that no @Remote certification exists.         090       CERT: Subject         090       Displays the common name of the @Remote certification subject. CN = the following 17<br>bytes. Spaces are displayed as underscores (_). Asterisks (*) indicate that no DESS exists.         091       CERT: Serial Number         091       Displays serial number for the @Remote certification. Asterisks (*) indicate that no DESS<br>exists.         092       Displays the common name of the issuer of the @Remote certification. CN = the following<br>30 bytes. Asterisks (*) indicate that no DESS exists.         093       CERT: Issuer         094       CERT: St ExpTime         094       Displays the start time of the period for which the current @Remote certification is enabled.         094       CERT: End ExpTime         0isplays the end time of the period for which the current @Remote certification is enabled.         150       Ins Country         Select from the list the name of the country where embedded RCG-M is installed in the<br>machine. After selecting the country, you must also set the following SP codes for embedded<br>RCG-M:<br>SP5816-153<br>SP5816-154                                                            | 000  | CERT: PAC Version                                                                                                  |
| 089       Displays ID2 for the @Remote certification. Spaces are displayed as underscores (_). Asterisks (*) indicate that no @Remote certification exists.         090       CERT: Subject         090       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         091       Displays serial number for the @Remote certification. Asterisks (*) indicate that no DESS exists.         092       CERT: Issuer         092       Displays the common name of the issuer of the @Remote certification. CN = the following 30 bytes. Asterisks (*) indicate that no DESS exists.         093       CERT: St ExpTime         094       Displays the end time of the period for which the current @Remote certification is enabled.         094       CERT: End ExpTime         094       Displays the end time of the period for which the current @Remote certification is enabled.         150       Ins Country         Select from the list the name of 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:         150       SP5816-153         095816-153                                                                                                                                                  | 088  | Displays the PAC version of the @Remote certification.                                                             |
| Displays ID2 for the @Remote certification. Spaces are displayed as underscores [_].         Asterisks (*) indicate that no @Remote certification exists.         090       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         091       Displays serial number for the @Remote certification. Asterisks (*) indicate that no DESS exists.         092       Displays serial number for the @Remote certification. Asterisks (*) indicate that no DESS exists.         092       Displays the common name of the issuer of the @Remote certification. CN = the following 30 bytes. Asterisks (*) indicate that no DESS exists.         093       CERT: St ExpTime         094       Displays the end time of the period for which the current @Remote certification is enabled.         094       CERT: End ExpTime         094       Displays the end time of the period for which the current @Remote certification is enabled.         150       Ins Country         Select from the list the name of 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:         150       SP5816-153         85816-153         85816-154                                                                              |      | CERT: ID2 Code                                                                                                     |
| 090       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         091       Displays serial number for the @Remote certification. Asterisks (*) indicate that no DESS exists.         092       CERT: Issuer         092       Displays the common name of the issuer of the @Remote certification. CN = the following 30 bytes. Asterisks (*) indicate that no DESS exists.         093       CERT: St ExpTime         094       CERT: End ExpTime         094       CERT: End ExpTime         094       Displays the end time of the period for which the current @Remote certification is enabled.         150       Select from the list the name of 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:         150       SP5816-153         • SP5816-154                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 089  |                                                                                                                    |
| 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       Displays serial number for the @Remote certification. Asterisks (*) indicate that no DESS exists.         092       Displays the common name of the issuer of the @Remote certification. CN = the following 30 bytes. Asterisks (*) indicate that no DESS exists.         093       CERT: St ExpTime         094       Displays the end time of the period for which the current @Remote certification is enabled.         094       CERT: End ExpTime         094       Displays the end time of the period for which the current @Remote certification is enabled.         150       RCG-M:         • SP5816-153       • SP5816-154                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      | CERT: Subject                                                                                                      |
| 091       Displays serial number for the @Remote certification. Asterisks (*) indicate that no DESS exists.         092       CERT: Issuer         092       Displays the common name of the issuer of the @Remote certification. CN = the following 30 bytes. Asterisks (*) indicate that no DESS exists.         093       CERT: St ExpTime         094       CERT: End ExpTime         094       CERT: End ExpTime         094       CERT: End ExpTime         095       Displays the end time of the period for which the current @Remote certification is enabled.         094       CERT: End ExpTime         095       Displays the end time of the period for which the current @Remote certification is enabled.         150       Ins Country         Select from the list the name of 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:         150       SP5816-153         • SP5816-154                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 090  |                                                                                                                    |
| Displays serial number for the @Remote certification. Asterisks (*) indicate that no DESS exists.         092       CERT: Issuer         093       Displays the common name of the issuer of the @Remote certification. CN = the following 30 bytes. Asterisks (*) indicate that no DESS exists.         093       CERT: St ExpTime         094       Displays the start time of the period for which the current @Remote certification is enabled.         094       CERT: End ExpTime         094       Displays the end time of the period for which the current @Remote certification is enabled.         150       Select from the list the name of 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:         150       SP5816-153         • SP5816-154                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | CERT: Serial Number                                                                                                |
| 092       Displays the common name of the issuer of the @Remote certification. CN = the following 30 bytes. Asterisks (*) indicate that no DESS exists.         093       CERT: St ExpTime         094       Displays the start time of the period for which the current @Remote certification is enabled.         094       CERT: End ExpTime         094       CERT: End ExpTime         094       Displays the end time of the period for which the current @Remote certification is enabled.         094       Select from the list the name of 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: <ul> <li>SP5816-153</li> <li>SP5816-154</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 091  |                                                                                                                    |
| Displays the common name of the issuer of the @Remote certification. CN = the following 30 bytes. Asterisks (*) indicate that no DESS exists.         093       CERT: St ExpTime         094       Displays the start time of the period for which the current @Remote certification is enabled.         094       CERT: End ExpTime         094       Displays the end time of the period for which the current @Remote certification is enabled.         150       Ins Country         Select from the list the name of 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:         150       SP5816-153         •       SP5816-154                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      | CERT: Issuer                                                                                                       |
| 093       Displays the start time of the period for which the current @Remote certification is enabled.         094       CERT: End ExpTime         094       Displays the end time of the period for which the current @Remote certification is enabled.         1splays the end time of the period for which the current @Remote certification is enabled.         Ins Country         Select from the list the name of 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: <ul> <li>SP5816-153</li> <li>SP5816-154</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 092  |                                                                                                                    |
| Displays the start time of the period for which the current @Remote certification is enabled.         094       CERT: End ExpTime         Displays the end time of the period for which the current @Remote certification is enabled.         Ins Country         Select from the list the name of 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: <ul> <li>SP5816-153</li> <li>SP5816-154</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.00 | CERT: St ExpTime                                                                                                   |
| 094       Displays the end time of the period for which the current @Remote certification is enabled.         1ns Country       Select from the list the name of 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: <ul> <li>SP5816-153</li> <li>SP5816-154</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 093  | Displays the start time of the period for which the current @Remote certification is enabled.                      |
| Displays the end time of the period for which the current @Remote certification is enabled.         Ins Country         Select from the list the name of 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: <ul> <li>SP5816-153</li> <li>SP5816-154</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 004  | CERT: End ExpTime                                                                                                  |
| <ul> <li>Select from the list the name of 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:         <ul> <li>SP5816-153</li> <li>SP5816-154</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 094  | Displays the end time of the period for which the current @Remote certification is enabled.                        |
| <ul> <li>machine. After selecting the country, you must also set the following SP codes for embedded</li> <li>RCG-M:         <ul> <li>SP5816-153</li> <li>SP5816-154</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 150  | Ins Country                                                                                                        |
| • SP5816-154                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | machine. After selecting the country, you must also set the following SP codes for embedded                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                                                                                                                    |

|     | 0: Japan, 1: USA, 2: Canada, 3: UK, 4: Germany, 5: France                                                                                                                                                                                         |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | 6: Italy, 7: Netherlands, 8: Belgium, 9: Luxembourg, 10: Spain                                                                                                                                                                                    |
|     | Aut Line Detect                                                                                                                                                                                                                                   |
|     | Press [Execute].<br>Setting this SP classifies the telephone line where embedded RCG-M is connected as either                                                                                                                                     |
| 151 | dial-up or push 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.                                                                                                                                                   |
|     | <ul> <li>If the execution succeeded, SP5816 153 will display the result for confirmation and<br/>SP5816-154 will display the telephone number for the connection to the outside line.</li> </ul>                                                  |
|     | Line Detect Rst                                                                                                                                                                                                                                   |
|     | 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.                                                                                                                                                                                            |
|     | Dial/Push Select                                                                                                                                                                                                                                  |
| 153 | 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 to 1 / 0 / 1 /step]                                                                                                                                                                                                                            |
|     | 0: Tone Dialing Phone                                                                                                                                                                                                                             |
|     | 1: Pulse Dialing Phone                                                                                                                                                                                                                            |
|     | Inside Japan "2" may also be displayed:                                                                                                                                                                                                           |
|     | 0: Tone Dialing Phone                                                                                                                                                                                                                             |

| 154       RCG-M in a system that employs a PBX (internal line).         154       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.         1 If embedded RCG-M has connected to an external line, a comma is displayed v the number. The comma is inserted for a 2 sec. pause.         • The number setting for the external line can be entered manually (including comm SSP: Sets the length of the timeout for the embedded RCG-M connection to its access por The timeout is the time from when the modem sends the ATD to when it receives the re code.         [1 to 65536 / 60 / 1 /step]         Dial Up User         Use this SP to set a user name for access to remote dial up. Follow these rules when set a user name:         • Name length: Up to 32 characters         • Spaces and # allowed but the entire entry must be enclosed by double quotation marks (").         157         157         157         157         Dial Up Password         157         157         Pial Up Password         157         Pial Up Password         157         Vare length: Up to 32 characters         • Spaces and # allowed but the entire entry must be enclosed by double quotation marks (").                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |                                                                                                                                                                                                          |
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| Outline Phone #         154         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).         154         154         154         154         154         154         154         154         154         154         154         154         154         154         154         154         154         154         155         16       execution of SPS816-151 has succeeded and embedded RCG-M has connected to an internal line, then the number of the connection to the external line is displayed.         155       If embedded RCG-M has connected to an external line, a comma is displayed v the number. The comma is inserted for a 2 sec. pause.         155       The number setting for the external line can be entered manually (including comm Remove Service: PPP Recognition Timeout         SSP: Sets the length of the timeout for the embedded RCG-M connection to its access part The timeout is the time from when the modem sends the ATD to when it receives the recode.         [1 to 65536 / 60 / 1 /step]         Dial Up User         Use this SP to set a user name for access to remote dial up. Follow these rules when set a user name:         Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |                                                                                                                                                                                                          |
| 154       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 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 the mbedded RCG-M has connected to an internal line, then the number of the connection to the external line is displayed.         156       If embedded RCG-M has connected to an external line, a comma is displayed withe number. The comma is inserted for a 2 sec. pause.         155       Remove Service: PPP Recognition Timeout         SSP: Sets the length of the timeout for the embedded RCG-M connection to its access port the imeout is the time from when the modem sends the ATD to when it receives the recode.         11 to 65536 / 60 / 1 /step]       Dial Up User         Use this SP to set a user name for access to remote dial up. Follow these rules when set a user name:         Name length: Up to 32 characters         Spaces and # allowed but the entire entry must be enclosed by double quotation marks (").         157         157         157         157         158         159         159         157         157         158         157                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     | 2: Pulse Dialing Phone 20PPS                                                                                                                                                                             |
| 154       RCG-M in a system that employs a PBX (internal line).         154       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.         1 If embedded RCG-M has connected to an external line, a comma is displayed v the number. The comma is inserted for a 2 sec. pause.         •       The number setting for the external line can be entered manually (including comm         155       Remove Service: PPP Recognition Timeout         SSP: Sets the length of the timeout for the embedded RCG-M connection to its access por The timeout is the time from when the modem sends the ATD to when it receives the re code.         11 to 65536 / 60 / 1 /step]         Dial Up User         Use this SP to set a user name for access to remote dial up. Follow these rules when set a user name:         • Name length: Up to 32 characters         • Spaces and # allowed but the entire entry must be enclosed by double quotation marks (").         157         Dial Up Password         Use this SP to set a password for access to remote dial up. Follow these rules when set a user name:         • Name length: Up to 32 characters         • Spaces and # allowed but the entire entry must be enclosed by double quotation marks (").         157         Dial Up Password                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     | Outline Phone #                                                                                                                                                                                          |
| 154       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.         156       If embedded RCG-M has connected to an external line, a comma is displayed withe number. The comma is inserted for a 2 sec. pause.         155       Remove Service: PPP Recognition Timeout         55       SSP: Sets the length of the timeout for the embedded RCG-M connection to its access part The timeout is the time from when the modem sends the ATD to when it receives the recode.         11 to 65536 / 60 / 1 /step]       Dial Up User         Use this SP to set a user name for access to remote dial up. Follow these rules when set a user name:         • Name length: Up to 32 characters         • Spaces and # allowed but the entire entry must be enclosed by double quotation marks (").         157         158         159         150         156         156         157         158         159         159         150         150         151         152         153         154         155         155         156         157         158                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 154 | 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 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 v the number. The comma is inserted for a 2 sec. pause.         • The number setting for the external line can be entered manually (including comm         155         Remove Service: PPP Recognition Timeout         SSP: Sets the length of the timeout for the embedded RCG-M connection to its access part the timeout is the time from when the modem sends the ATD to when it receives the recode.         [1 to 65536 / 60 / 1 /step]         Dial Up User         Use this SP to set a user name for access to remote dial up. Follow these rules when set a user name:         • Name length: Up to 32 characters         • Spaces and # allowed but the entire entry must be enclosed by double quotation marks (").         157         158         157         159         150         150         151         152         153         154         155         155         156         157         158         159         159         159         150         151         152         153                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                                                          |
| the number. The comma is inserted for a 2 sec. pause.         • The number setting for the external line can be entered manually (including comm         155         Remove Service: PPP Recognition Timeout         SSP: Sets the length of the timeout for the embedded RCG-M connection to its access partice.         [1 to 65536 / 60 / 1 /step]         Dial Up User         Use this SP to set a user name for access to remote dial up. Follow these rules when set 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         Use this SP to set a password for access to remote dial up. Follow these rules when set a user name:         • Name length: Up to 32 characters         • Spaces and # allowed but the entire entry must be enclosed by double quotation marks (").         157         Dial Up Password         Use this SP to set a password for access to remote dial up. Follow these rules when set a user name:         • Name length: Up to 32 characters         • Spaces and # allowed but the entire entry must be enclosed by double quotation marks (").         Phone Number         Use this                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 104 |                                                                                                                                                                                                          |
| 155       Remove Service: PPP Recognition Timeout         155       SSP: Sets the length of the timeout for the embedded RCG-M connection to its access por The timeout is the time from when the modem sends the ATD to when it receives the recode. <ul> <li>[1 to 65536 / 60 / 1 / step]</li> <li>Dial Up User</li> <li>Use this SP to set a user name for access to remote dial up. Follow these rules when set a user name:                 <ul></ul></li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     | • 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.                                                                   |
| 155       SSP: Sets the length of the timeout for the embedded RCG-M connection to its access properties that the time from when the modem sends the ATD to when it receives the recode. <ul> <li>[1 to 65536 / 60 / 1 /step]</li> <li>Dial Up User</li> <li>Use this SP to set a user name for access to remote dial up. Follow these rules when set a user name:             <ul> <li>Name length: Up to 32 characters</li> <li>Spaces and # allowed but the entire entry must be enclosed by double quotation marks (").</li> </ul> </li> </ul> <li>157</li> <li>Dial Up Password</li> <li>Use this SP to set a password for access to remote dial up. Follow these rules when set a user name:                     <ul></ul></li>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |     | • The number setting for the external line can be entered manually (including commas).                                                                                                                   |
| 155       The timeout is the time from when the modem sends the ATD to when it receives the recode.         [1 to 65536 / 60 / 1 /step]         156         156         156         156         Dial Up User         Use this SP to set a user name for access to remote dial up. Follow these rules when set a user name:         • Name length: Up to 32 characters         • Spaces and # allowed but the entire entry must be enclosed by double quotation marks (").         157         158         159         159         Dial Up Password         Use this SP to set a password for access to remote dial up. Follow these rules when set a user name:         • Name length: Up to 32 characters         • Name length: Up to 32 characters         • Name length: Up to 32 characters         • Spaces and # allowed but the entire entry must be enclosed by double quotation marks (").         Phone Number         Use this SP to set the telephone number of the line where embedded RCG-M is connected marks (").                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     | Remove Service: PPP Recognition Timeout                                                                                                                                                                  |
| 156       Use this SP to set a user name for access to remote dial up. Follow these rules when set a user name: <ul> <li>Name length: Up to 32 characters</li> <li>Spaces and # allowed but the entire entry must be enclosed by double quotation marks (").</li> </ul> 157         Dial Up Password           Use this SP to set a password for access to remote dial up. Follow these rules when set a user name: <ul> <li>Name length: Up to 32 characters</li> <li>Spaces and # allowed but the entire entry must be enclosed by double quotation marks (").</li> </ul> 157               157               Phone length: Up to 32 characters               • Name length: Up to 32 characters               • Spaces and # allowed but the entire entry must be enclosed by double quotation marks (").                       Phone Number                        Use this SP to set the telephone number of the line where embedded RCG-M is connected by the set the telephone number of the line where embedded RCG-M is connected by the set the telephone number of the line where embedded RCG-M is connected by the set the telephone number of the line where embedded RCG-M is connected by the set the telephone number of the line where embedded RCG-M is connected by the set the telephone number of the line where embedded RCG-M is connected by the set the telephone number of the line where the telephone number of the line where telephone number to the telephon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 155 |                                                                                                                                                                                                          |
| 156       a user name:       • Name length: Up to 32 characters         • Spaces and # allowed but the entire entry must be enclosed by double quotation marks (").         157       Dial Up Password         157       Use this SP to set a password for access to remote dial up. Follow these rules when set a user name:         • Name length: Up to 32 characters       • Name length: Up to 32 characters         • Spaces and # allowed but the entire entry must be enclosed by double quotation marks (").         161       Use this SP to set the telephone number of the line where embedded RCG-M is connected a set of the line where embedded RCG-M is connected a set of the line where embedded RCG-M is connected a set of the line where embedded RCG-M is connected a set of the line where embedded RCG-M is connected a set of the line where embedded RCG-M is connected a set of the line where embedded RCG-M is connected a set of the line where embedded RCG-M is connected a set of the line where embedded RCG-M is connected a set of the line where embedded RCG-M is connected a set of the line where embedded RCG-M is connected a set of the line where embedded RCG-M is connected a set of the line where embedded RCG-M is connected a set of the line where embedded RCG-M is connected a set of the line where embedded RCG-M is connected a set of the line where embedded RCG-M is connected a set of the line where embedded RCG-M is connected a set of the line where embedded RCG-M is connected a set of the line where embedded RCG-M is connected a set of the line where embedded RCG-M is connected a set of the line where embedded RCG-M is connected a set of the line where embedded RCG-M is connected a set of the line where embedded RCG-M is connected a set of the line where embedded set of the line where                                                                                                                                                                                                 |     | Dial Up User                                                                                                                                                                                             |
| <ul> <li>Name length: Up to 32 characters</li> <li>Spaces and # allowed but the entire entry must be enclosed by double quotation marks (").</li> <li>Dial Up Password</li> <li>Use this SP to set a password for access to remote dial up. Follow these rules when set a user name:         <ul> <li>Name length: Up to 32 characters</li> <li>Spaces and # allowed but the entire entry must be enclosed by double quotation marks (").</li> </ul> </li> <li>Phone Number</li> <li>Use this SP to set the telephone number of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the</li></ul> | 156 | Use this SP to set a user name for access to remote dial up. Follow these rules when setting a user name:                                                                                                |
| marks (").         Dial Up Password         Use this SP to set a password for access to remote dial up. Follow these rules when set a user name:         Name length: Up to 32 characters         Spaces and # allowed but the entire entry must be enclosed by double quotation marks (").         Phone Number         Use this SP to set the telephone number of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedd                                                                                                                                          | 100 | Name length: Up to 32 characters                                                                                                                                                                         |
| 157       Use this SP to set a password for access to remote dial up. Follow these rules when set a user name:         157       Name length: Up to 32 characters         • Name length: Up to 32 characters         • Spaces and # allowed but the entire entry must be enclosed by double quotation marks (").         Phone Number         Use this SP to set the telephone number of the line where embedded RCG-M is connected.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     | <ul> <li>Spaces and # allowed but the entire entry must be enclosed by double quotation<br/>marks (").</li> </ul>                                                                                        |
| <ul> <li>157         <ul> <li>a user name:                 <ul> <li>Name length: Up to 32 characters</li> <li>Spaces and # allowed but the entire entry must be enclosed by double quotation marks (").</li> </ul> </li> <li>Phone Number</li> <li>Use this SP to set the telephone number of the line where embedded RCG-M is connect</li> </ul> <li>Interval a set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of the line where embedded RCG-M is connected by the set of</li></li></ul>                                                                                    |     | Dial Up Password                                                                                                                                                                                         |
| <ul> <li>Name length: Up to 32 characters</li> <li>Spaces and # allowed but the entire entry must be enclosed by double quotation marks (").</li> <li>Phone Number</li> <li>Use this SP to set the telephone number of the line where embedded RCG-M is connected.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 157 | Use this SP to set a password for access to remote dial up. Follow these rules when setting a user name:                                                                                                 |
| marks (").       Phone Number       Use this SP to set the telephone number of the line where embedded RCG-M is connected.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     | Name length: Up to 32 characters                                                                                                                                                                         |
| 161 Use this SP to set the telephone number of the line where embedded RCG-M is connec                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     | <ul> <li>Spaces and # allowed but the entire entry must be enclosed by double quotation<br/>marks (").</li> </ul>                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 161 | Phone Number                                                                                                                                                                                             |
| Limit: 24 numbers (numbers only)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     | Use this SP to set the telephone number of the line where embedded RCG-M is connected.<br>This number is transmitted to and used by the Call Center to return calls.<br>Limit: 24 numbers (numbers only) |

| 162 | Ans Timing Adj                                                                                                                                                                                                                                                                                                        |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | When the Call Center calls out to a 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 + 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 embedded 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 alphanumeric characters                                                                                                                                                                                                                                                                             |
|     | Comm Line                                                                                                                                                                                                                                                                                                             |
|     | This SP sets the connection conditions for the customer. This setting dedicates the line to embedded RCG-M only, or sets the line for sharing between embedded RCG-M and a fax unit.                                                                                                                                  |
|     | [0 or 1 / 0 / - ]                                                                                                                                                                                                                                                                                                     |
| 164 | 0: Line shared by embedded RCG-M/Fax                                                                                                                                                                                                                                                                                  |
|     | 1: Line dedicated to embedded RCG-M only                                                                                                                                                                                                                                                                              |
|     | • Note                                                                                                                                                                                                                                                                                                                |
|     | <ul> <li>If this setting is changed, the copier must be cycled off and on.</li> </ul>                                                                                                                                                                                                                                 |
|     | • SP5816-187 determines whether the off-hook button can be used to interrupt an embedded RCG-M transmission in progress to open the line for fax transaction.                                                                                                                                                         |
| 173 | Modem Serial Number                                                                                                                                                                                                                                                                                                   |
|     | This SP displays the serial number registered for the embedded RCG-M.                                                                                                                                                                                                                                                 |
| 174 | Lmt Resend Cncl                                                                                                                                                                                                                                                                                                       |
|     | 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, embedded 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.                                                                                                                                                                                                         |

| 187 | FAX TX Priority                                                                                                                                                                                                                                                                     |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | This SP determines whether pushing the off-hook button will interrupt an embedded RCG-<br>M transmission in progress to open the line for fax transaction. This SP can be used only if<br>SP5816-164 is set to "0".                                                                 |
|     | [0 or 1/0/-]                                                                                                                                                                                                                                                                        |
|     | 0: Disable. Setting the fax unit off-hook does not interrupt a fax transaction in progress. If the off-hook button is pushed during a embedded RCG-M transmission, the button must be pushed again to set the fax unit on-hook after the embedded RCG-M transmission has completed. |
|     | 1: Enable. When embedded RCG-M shares a line with a fax unit, setting the fax unit off-<br>hook will interrupt a embedded RCG-M transmission in progress and open the line for a<br>fax transaction.                                                                                |
| 200 | Polling Man Exc                                                                                                                                                                                                                                                                     |
|     | Executes the polling test.                                                                                                                                                                                                                                                          |
| 201 | Instl: Condition                                                                                                                                                                                                                                                                    |
|     | Displays a number that indicates the status of the @Remote service device.                                                                                                                                                                                                          |
|     | 0: Neither the registered device by the external RCG nor embedded RCG device is set.                                                                                                                                                                                                |
|     | 1: The embedded RCG device is being set. Only Box registration is completed. In this status the 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 the external RCG is being set. In this status the embedded RCG device cannot be set.                                                                                                                                                                    |
|     | 4: The registered module by the external RCG has not started.                                                                                                                                                                                                                       |
| 202 | Instl: ID#                                                                                                                                                                                                                                                                          |
|     | Allows entry of the number of the request needed for the embedded RCG.                                                                                                                                                                                                              |
| 203 | Instl: Reference                                                                                                                                                                                                                                                                    |
|     | Executes the inquiry request to the @Remote GateWay URL.                                                                                                                                                                                                                            |
| 204 | Instl: Ref Rslt                                                                                                                                                                                                                                                                     |
|     | 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 er                                                                                                | ror          |                                                                                                  |  |  |
|     | 7: Certification upda                                                                                              | te error     |                                                                                                  |  |  |
|     | 8: Other error                                                                                                     |              |                                                                                                  |  |  |
|     | 9: Inquiry executing                                                                                               |              |                                                                                                  |  |  |
|     | Instl: Ref Section                                                                                                 |              |                                                                                                  |  |  |
| 205 |                                                                                                                    |              | n sent to the device from the GW URL in answer to the en the result is registered at the GW URL. |  |  |
| 206 | Instl: Rgstltn                                                                                                     |              |                                                                                                  |  |  |
| 200 | Executes Embedded                                                                                                  | RCG Registra | tion.                                                                                            |  |  |
|     | Instl: Rgstltn Rst                                                                                                 |              |                                                                                                  |  |  |
|     | Displays a number that indicates the registration result.                                                          |              |                                                                                                  |  |  |
|     | 0: Succeeded                                                                                                       |              |                                                                                                  |  |  |
|     | 2: Registration in progress                                                                                        |              |                                                                                                  |  |  |
|     | 3: Proxy error (proxy enabled)                                                                                     |              |                                                                                                  |  |  |
| 207 | 4: Proxy error (proxy disabled)                                                                                    |              |                                                                                                  |  |  |
|     | 5: Proxy error (Illegal user name or password)                                                                     |              |                                                                                                  |  |  |
|     | 6: Communication error                                                                                             |              |                                                                                                  |  |  |
|     | 7: Certification update error                                                                                      |              |                                                                                                  |  |  |
|     | 8: Other error                                                                                                     |              |                                                                                                  |  |  |
|     | 9: Registration executing                                                                                          |              |                                                                                                  |  |  |
|     | Instl Error Code                                                                                                   |              |                                                                                                  |  |  |
|     | Displays a number that describes the error code that was issued when either SP5816 204 or SP5816 207 was executed. |              |                                                                                                  |  |  |
| 208 | Cause                                                                                                              | Code         | Meaning                                                                                          |  |  |
|     | Illegal Modem                                                                                                      | -11001       | Chat parameter error                                                                             |  |  |
|     | Parameter                                                                                                          | -11002       | Chat execution error                                                                             |  |  |

|     |                                                 | -11003 | Unexpected error                                                                              |  |  |
|-----|-------------------------------------------------|--------|-----------------------------------------------------------------------------------------------|--|--|
|     |                                                 | -12002 | Inquiry, registration attempted without acquiring device status.                              |  |  |
|     |                                                 | -12003 | Attempted registration without execution of an inquiry and no previous registration.          |  |  |
|     | Operation Error,                                | -12004 | Attempted setting with illegal entries for certification and ID2.                             |  |  |
|     | Incorrect Setting                               | -12005 | @Remove communication prohibited                                                              |  |  |
|     |                                                 | -12006 | Confirmation requested again after confirmation completed.                                    |  |  |
|     |                                                 | -12007 | Different numbers were used for registration and confirmation.                                |  |  |
|     |                                                 | -12008 | Update certification failed because device was in use.                                        |  |  |
|     |                                                 | -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                                                                       |  |  |
|     | Error Caused by<br>Response from GW<br>URL      | -2390  | Program out of service                                                                        |  |  |
|     |                                                 | -2391  | Two registrations for same device                                                             |  |  |
|     |                                                 | -2392  | Parameter error                                                                               |  |  |
|     |                                                 | -2393  | External RCG not managed                                                                      |  |  |
|     |                                                 | -2394  | Device not managed                                                                            |  |  |
|     |                                                 | -2395  | Box ID for external RCG is illegal                                                            |  |  |
|     |                                                 | -2396  | Device ID for external RCG is illegal                                                         |  |  |
|     |                                                 | -2397  | Incorrect ID2 format                                                                          |  |  |
|     |                                                 | -2398  | Incorrect request number format                                                               |  |  |
| 209 | Instl Clear                                     |        |                                                                                               |  |  |
| 207 | Releases a machine from its embedded RCG setup. |        |                                                                                               |  |  |

| 250 | Print Com Log                 |
|-----|-------------------------------|
| 230 | Prints the communication log. |

| 5821 | [NRS Address]  |                                                                                                                                                             |  |
|------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 001  | CSS-PI Device  | vice Sets the PI device code. After you change this setting, you must turn the machine off and on.                                                          |  |
| 002  | RCG IP Address | Sets the IP address of the RCG (Remote Communication<br>Gate) destination for call processing at the remote service<br>center.<br>[00000000h to FFFFFFFh/1] |  |

| 5824 | [NVRAM Upload]     |
|------|--------------------|
| 001  | (🖝 "NVRAM Upload") |

| 5825 | [NVRAM Download]     |
|------|----------------------|
| 001  | (• "NVRAM Download") |

| 5828 | [Network Setting]                 | CTL                                           |                     |  |
|------|-----------------------------------|-----------------------------------------------|---------------------|--|
|      |                                   | Enables or disables 1284 Compatibility.       |                     |  |
| 050  | 1284 Compatibility (Centro)       | [0 or 1 / 1 / 1 / step]                       |                     |  |
|      |                                   | ): Disabled, 1: Enabled                       |                     |  |
|      |                                   | Enables or disables ECP Compatibility         |                     |  |
|      |                                   | [0 or 1 / 1 / 1 / step]                       |                     |  |
| 052  | ECP (Centro)                      | 0: Disabled, 1: Enabled                       |                     |  |
|      |                                   | NOTE: This SP is activated only when S<br>1". | P5-828-50 is set to |  |
|      |                                   | nables/disables Job Spooling.                 |                     |  |
| 065  | Job Spooling                      | 0 or 1 / <b>0</b> / 1 / step]                 |                     |  |
|      |                                   | ): Disabled, 1: Enabled                       |                     |  |
|      |                                   | reatment of the job when a spooled jo         | b exists at power   |  |
| 066  | Job Spooling Clear: Start<br>Time | on.                                           |                     |  |
|      |                                   | ): ON (Data is cleared)                       |                     |  |

|     |                                                                                                         | 1: OFF (Automatically printed)                                                                                          |  |  |  |
|-----|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|--|--|--|
|     |                                                                                                         | Validates or invalidates the job spooling function for each protocol.                                                   |  |  |  |
|     |                                                                                                         | 0: Validates                                                                                                            |  |  |  |
|     |                                                                                                         | 1: Invalidates                                                                                                          |  |  |  |
|     |                                                                                                         | bitO: LPR                                                                                                               |  |  |  |
|     |                                                                                                         | bit1: FTP                                                                                                               |  |  |  |
| 069 | Job Spooling (Protocol)                                                                                 | bit2: IPP                                                                                                               |  |  |  |
|     |                                                                                                         | bit3: SMB                                                                                                               |  |  |  |
|     |                                                                                                         | bit4: BMLinkS                                                                                                           |  |  |  |
|     |                                                                                                         | bit5: DIPRINT                                                                                                           |  |  |  |
|     |                                                                                                         | bit6: (Reserved)                                                                                                        |  |  |  |
|     |                                                                                                         | bit7: (Reserved)                                                                                                        |  |  |  |
|     | TELNET (0: OFF 1: ON)                                                                                   | Enables or disables the Telnet protocol.                                                                                |  |  |  |
| 090 |                                                                                                         | [ 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                                                                                                   |  |  |  |
|     | Active IPv6 Link                                                                                        |                                                                                                                         |  |  |  |
| 145 | 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 of 128 bits configured in 8 blocks of 16 bits each.                |                                                                                                                         |  |  |  |
| 147 | Active IPv6 Status Address 1                                                                            |                                                                                                                         |  |  |  |
| 149 | Active IPv6 Status Address 2                                                                            | These SPs are the IPv6 status addresses (1 to 5) referenced<br>on the Ethernet or wireless LAN (802.11b) in the format: |  |  |  |
| 151 | Active IPv6 Status Address 3                                                                            | "Status Address" + "Prefix Length"                                                                                      |  |  |  |
| 153 | Active IPv6 Status Address 4                                                                            | The IPv6 address consists of a total of 128 bits configured<br>in 8 blocks of 16 bits each.                             |  |  |  |
| 155 | Active IPv6 Status Address 5                                                                            |                                                                                                                         |  |  |  |
| 156 | IPv6 Manual Setting Address                                                                             |                                                                                                                         |  |  |  |

|                                        | This SP is the IPv6 manually set address referenced on Ethernet or wireless LAN (802.11b) in the format:                                                                          |  |  |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| "Manual Set Address" + "Prefix Length" |                                                                                                                                                                                   |  |  |
|                                        | The IPv6 address consists of a total of 128 bits configured in 8 blocks of 16 bits each.                                                                                          |  |  |
|                                        | IPv6 Gateway Address                                                                                                                                                              |  |  |
| 158                                    | This SP is the IPv6 gateway address referenced on Ethernet or wireless LAN (802.11b).<br>The IPv6 address consists of a total of 128 bits configured in 8 blocks of 16 bits each. |  |  |

5840 [IEEE 802.11b] [1 to 11 or 13 / **11 or 13** / 1 / step] Channel MAX CTL Europe: 1 to 13, default: 13 NA/ Asia: 1 to 11, default: 11 Sets the maximum number of channels available for data transmission via wireless LAN. 006 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. [1 to 11 or 13 / 1 / 1 / step] Channel MIN CTL Europe: 1 to 13 NA/ Asia: 1 to 11 Sets the minimum number of channels available for data transmission via the wireless LAN. 007 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 Note • Do not change the setting. [00 to 11 / **00** / 1 binary] 00: Key #1 WEP Key Select 01: Key #2 (Reserved) CTL 011 10: Key #3 (Reserved) 11: Key #4 (Reserved)

|      | Selects the WEP key. |     |  |
|------|----------------------|-----|--|
| 5842 | [GWWS Analysis] DFU  |     |  |
|      | Setting 1            | CTL |  |

|     |                                                    | Bit | Groups                              |
|-----|----------------------------------------------------|-----|-------------------------------------|
|     |                                                    | 0   | System & other groups (LSB)         |
|     |                                                    | 1   | Capture related                     |
| 001 | This is a debugging tool. It sets the              | 2   | Certification related               |
| 001 | debugging output mode of each Net<br>File process. | 3   | Address book related                |
|     | Default: Bit SW 1000 0000                          | 4   | Machine management related          |
|     |                                                    | 5   | Output related (printing, delivery) |
|     |                                                    | 6   | Repository related                  |
|     |                                                    | 7   | Debug log output                    |
|     | Setting 2                                          | CTL |                                     |
|     | Default: Bit SW 0000 0000                          | Bit | Groups                              |
| 002 |                                                    | 0-6 | Not used                            |
|     |                                                    |     | Log time stamp setting              |
|     |                                                    | 7   | 0: Date/Hour/Minute/Second          |
|     |                                                    |     | 1: Minute/Second/Msecond            |

| 5844 | [USB]                                                                                                     |     |  |
|------|-----------------------------------------------------------------------------------------------------------|-----|--|
| 001  | Transfer Rate                                                                                             | CTL |  |
|      | Sets the speed for USB data transmission.<br>[1 or 4 / <b>4</b> / -]<br>1: [Full Speed], 4: [Auto Change] |     |  |
|      | Vendor ID                                                                                                 | CTL |  |
| 002  | Sets the vendor ID:<br>Initial Setting: 0x05A Ricoh Company                                               |     |  |

|     | [0x0000 to 0xFFFF/1] <b>DFU</b>                                                                          |     |  |  |  |
|-----|----------------------------------------------------------------------------------------------------------|-----|--|--|--|
|     | Product ID                                                                                               | CTL |  |  |  |
| 003 | Sets the product ID.<br>[0x0000 to 0xFFFF/1] <b>DFU</b>                                                  |     |  |  |  |
| 004 | Device Release No.                                                                                       | CTL |  |  |  |
|     | Sets the device release number of the BCD (binary coded decimal) display.<br>[0000 to 9999/1] <b>DFU</b> |     |  |  |  |
|     | Enter as a decimal number. NCS converts the number to hexadecimal number recognized as the BCD.          |     |  |  |  |

| 5845 | [Delivery Server Setting]                                                                                                                                                               | CTL                                       | -                                                        |  |  |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------------|--|--|
| 3843 | Provides items for delivery server settings.                                                                                                                                            |                                           |                                                          |  |  |
| 001  | FTP Port Num                                                                                                                                                                            | [ 0 to                                    | 65535 / <b>3670</b> / 1 /step]                           |  |  |
| 001  | Sets the FTP port number used w                                                                                                                                                         | nen ima                                   | ge files to the Scan Router Server.                      |  |  |
|      | Srv IP (Primary)                                                                                                                                                                        | Rang                                      | e: 000.000.000.000 to 255.255.255.255                    |  |  |
| 002  | Use this SP to set the Scan Router<br>be referenced by the initial system                                                                                                               |                                           | uddress. The IP address under the transfer tab can<br>j. |  |  |
|      | Retry Interval                                                                                                                                                                          | [60 to 999 / <b>300</b> / 1 second /step] |                                                          |  |  |
| 003  | Specifies the interval time for sending the scanned image data to the deliver server or SMTP/FTP/NCP/SMB server after sending error.                                                    |                                           |                                                          |  |  |
|      | Number of Retries                                                                                                                                                                       | [0 to                                     | 99 / <b>3</b> / 1 time/step]                             |  |  |
| 004  | Specifies the retry times for sending the scanned image data to the deliver server or SMTP/<br>FTP/NCP/SMB server after sending error.                                                  |                                           |                                                          |  |  |
|      | Delivery Error Display Time                                                                                                                                                             | [0 to                                     | 999 / <b>300</b> / 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. |                                           |                                                          |  |  |
| 008  | Srv IP (Secondary)                                                                                                                                                                      | Range: 000.000.000 to 255.255.255.255     |                                                          |  |  |

|     | 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 / <b>0</b> / 1 /step]                                             | ]                             |  |  |  |
| 009 | Allows changing the model of the delivery server registered by the I/O device.<br>0: Unknown, 1: SG1 Provided, 2: SG1 Package,<br>3: SG2 Provided, 4: SG2 Package                                                 |                                                                           |                               |  |  |  |
|     | Delivery Svr Capability                                                                                                                                                                                           | [0 to 255 / <b>0</b> / 1 /st                                              | ep]                           |  |  |  |
|     | Bit7 = 1 Comment information e                                                                                                                                                                                    | exits                                                                     |                               |  |  |  |
|     | Bit6 = 1 Direct specification of r                                                                                                                                                                                | nail address possible                                                     | _                             |  |  |  |
|     | Bit5 = 1 Mail RX confirmation se                                                                                                                                                                                  | etting possible                                                           | _                             |  |  |  |
| 010 | Bit4 = 1 Address book automat                                                                                                                                                                                     | ic update function exists                                                 | Changes the capability of the |  |  |  |
| 010 | Bit3 = 1 Fax RX delivery functio                                                                                                                                                                                  | Bit3 = 1 Fax RX delivery function exists                                  |                               |  |  |  |
|     | Bit2 = 1 Sender password funct                                                                                                                                                                                    | - I/O device.<br>-                                                        |                               |  |  |  |
|     | Bit1 = 1 Function to link MK-1 u                                                                                                                                                                                  |                                                                           |                               |  |  |  |
|     | Bit0 = 1 Sender specification re<br>set to "0")                                                                                                                                                                   |                                                                           |                               |  |  |  |
|     | Delivery Svr Capability (Ext)                                                                                                                                                                                     | [0 to 255 / <b>0</b> / 1 /st                                              | ep]                           |  |  |  |
|     | Changes the capability of the se                                                                                                                                                                                  | Changes the capability of the server that is registered as an I/O device. |                               |  |  |  |
| 011 | Bit7 = 1 Address book usage limitation (Limitation for each authorized user)<br>Bit6 = 1 RDH authorization link<br>Bit5 to 0: Not used                                                                            |                                                                           |                               |  |  |  |
| 010 | Svr Schm (Primary)                                                                                                                                                                                                | -                                                                         |                               |  |  |  |
| 013 | Specifies the scheme of the prin                                                                                                                                                                                  | Specifies the scheme of the primary delivery server.                      |                               |  |  |  |
| 014 | Svr Port Num (Pri)                                                                                                                                                                                                | -                                                                         |                               |  |  |  |
| 014 | Specifies the port number of the                                                                                                                                                                                  | Specifies the port number of the primary delivery server.                 |                               |  |  |  |
| 015 | Srv URL Path (Pri)                                                                                                                                                                                                | -                                                                         |                               |  |  |  |
| 015 | Specifies the URL path of the primary delivery server.                                                                                                                                                            |                                                                           |                               |  |  |  |

| 016 | Svr Schm (Sec)                                                               | -                         |  |  |  |  |
|-----|------------------------------------------------------------------------------|---------------------------|--|--|--|--|
|     | Specifies the scheme of the secondary delivery server.                       |                           |  |  |  |  |
| 017 | Svr Port Num (Sec)                                                           | -                         |  |  |  |  |
| 017 | Specifies the port number of the se                                          | econdary delivery server. |  |  |  |  |
| 018 | Srv URL Path (Sec)                                                           | -                         |  |  |  |  |
| 010 | Specifies the URL path of the secondary delivery server.                     |                           |  |  |  |  |
| 019 | CapSvr Schm                                                                  | -                         |  |  |  |  |
| 019 | Specifies the scheme of the capture server.                                  |                           |  |  |  |  |
| 020 | CapSvr Port Num                                                              | -                         |  |  |  |  |
| 020 | Specifies the port number of the capture server.                             |                           |  |  |  |  |
| 021 | CapSrv URL Path                                                              | -                         |  |  |  |  |
| 021 | Specifies the URL path of the s capture server.                              |                           |  |  |  |  |
|     | Rapid-fire Send                                                              | [0 or 1 / 1 / - ]         |  |  |  |  |
| 022 |                                                                              | 0: Disable, 1: Enable     |  |  |  |  |
|     | Enables or disables the prevention function for the continuous data sending. |                           |  |  |  |  |

| 5846 | [UCS Settings]                                                                                                                                                                                                                                                                     | CTL         | - |                         |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---|-------------------------|
|      | Machine ID (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.                                             |             |   |                         |
|      | Machine ID Clear (Delivery Server)                                                                                                                                                                                                                                                 |             |   | Clears ID               |
| 002  | Clears the unique ID of the device used as the name in the file transfer directory. Executive 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. |             |   |                         |
| 002  | Maximum Entries [150 to 999                                                                                                                                                                                                                                                        |             |   | / <b>150</b> / 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 / <b>0</b> / 1 /step]         |  |  |  |  |
| 006 | Sets the interval for retry attempts w<br>server address book.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Sets the interval for retry attempts when the delivery server fails to acquire the delivery server address book. |                                         |  |  |  |  |
|     | Delivery Server Retry Times                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                  | [0 to 255 / <b>0</b> / 1 /step]         |  |  |  |  |
| 007 | Sets the number of retry attempts wh<br>address book.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | en the delivery serve                                                                                            | er fails to acquire the delivery server |  |  |  |  |
|     | Delivery Server Maximum Entries                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | [200 to 999 /                                                                                                    | <b>200</b> / 1/step]                    |  |  |  |  |
| 008 | Sets the maximum number account by UCS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | entries of the deliver                                                                                           | y server user information managed       |  |  |  |  |
| 010 | LDAP Search Timeout                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                  | [1 to 255 / <b>60</b> / 1 /step]        |  |  |  |  |
| 010 | Sets the length of the timeout for the search of the LDAP server.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                  |                                         |  |  |  |  |
|     | [AddrB Acl Info] Address Book Access Control List Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                  |                                         |  |  |  |  |
| 041 | This SP must be executed immediately after installation of an HDD unit in a basic machine<br>that previously had no HDD. The first time the machine is powered on with the new HDD<br>installed, the system automatically takes the address book from the NVRAM and writes it<br>onto the new HDD. However, the new address book on the HDD can be accessed only<br>by the system administrator at this stage. Executing this SP by the service technician<br>immediately after power on grants full address book access to all users. |                                                                                                                  |                                         |  |  |  |  |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | [0 to 10 / 0 / 1 /s                                                                                              | step]                                   |  |  |  |  |
|     | Addr B Mig (SD $\rightarrow$ SD)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0: Not decided yet                                                                                               |                                         |  |  |  |  |
|     | 1: Slot 1 to 10: Slot 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                  |                                         |  |  |  |  |
| 042 | This SP copies an address book data in an SD card to another SD card.                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                  |                                         |  |  |  |  |
|     | Select the destination slot where you want to move an address book data, and then press<br>"Execute" key.                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                  |                                         |  |  |  |  |
|     | You can check where an address book data is in with SP5-846-043.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                  |                                         |  |  |  |  |
| 043 | Addr B Media                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                                                                                |                                         |  |  |  |  |
| 043 | Displays the slot number where an address book data is in.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                  |                                         |  |  |  |  |
| 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.            |  |  |  |
| 0.50 | Initialize All Addr Book                                                                                                                                                                        | Clears all directory information managed by UCS, including all user codes. |  |  |  |
| 050  |                                                                                                                                                                                                 | Turn the main power switch off and on after executing this SP.             |  |  |  |
| 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.                      |  |  |  |
|      | Clear Backup Info                                                                                                                                                                               |                                                                            |  |  |  |
|      | Deletes the address book data fr                                                                                                                                                                | om the SD card in the service slot.                                        |  |  |  |
|      | Deletes only the files that were up                                                                                                                                                             | bloaded from this machine.                                                 |  |  |  |
| 053  | 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.                                                                                                    |                                                                            |  |  |  |
| 060  | Bit0: Checks both upper/lower case characters                                                                                                                                                   |                                                                            |  |  |  |
|      | Bit1: Japan only                                                                                                                                                                                |                                                                            |  |  |  |
|      | Bit2 to 7: Not used                                                                                                                                                                             |                                                                            |  |  |  |
|      | Compl Opt1                                                                                                                                                                                      |                                                                            |  |  |  |
|      | Use this SP to set the conditions for password entry to access the local address book.<br>Specifically, this SP limits the password entry to upper case and sets the length of the<br>password. |                                                                            |  |  |  |
| 062  | [0 to 32 / <b>0</b> / 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.                                                              |                                                                            |  |  |  |

|     | Compl Opt2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                           |  |  |  |  |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| 063 | Use this SP to set the conditions for password entry to access the local address book.<br>Specifically, this SP limits the password entry to lower case and defines the length of the password.<br>[0 to 32 / 0 / 1 /step]<br>Image: Object of the password entry to lower case and defines the length of the password.   Image: Object of the password entry to lower case and defines the length of the password.   Image: Object of the password entry to lower case and defines the length of the password.   Image: Object of the password entry to lower case and defines the length of the password.   Image: Object of the password entry to lower case and defines the length of the password.   Image: Object of the password entry to lower case and defines the length of the password.   Image: Object of the password entry to lower case and defines the length of the password. |                                                                                                                                                           |  |  |  |  |
|     | policy to control access to the<br>Compl Opt3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                           |  |  |  |  |
|     | Use this SP to set the conditions for password entry to access the local address book.<br>Specifically, this SP limits the password entry to numbers and defines the length of the password.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                           |  |  |  |  |
| 064 | [0 to 32 / <b>0</b> / 1 /step]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                           |  |  |  |  |
|     | • This SP does not normally res                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | wire adjustment                                                                                                                                           |  |  |  |  |
|     | <ul> <li>This SP does not normally require adjustment.</li> <li>This SP is enabled only after the system administrator has set up a group password policy to control access to the address book.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                           |  |  |  |  |
|     | Compl Opt4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                           |  |  |  |  |
| 065 | Use this SP to set the conditions for password entry to access the local address book.<br>Specifically, this SP limits the password entry to symbols and defines the length of the password.<br>[0 to 32 / 0 / 1 /step]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                           |  |  |  |  |
|     | This SP does not normally require adjustment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                           |  |  |  |  |
|     | <ul> <li>This SP is enabled only after the system administrator has set up a group password<br/>policy to control access to the address book.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                           |  |  |  |  |
| 091 | FTP Auth Port Setting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Specifies the FTP port for getting a distribution server<br>address book that is used in the identification mode.<br>[0 to 65535 / <b>3671</b> / 1 /step] |  |  |  |  |
| 094 | Encryption Stat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Shows the status of the encryption function for the address book data.                                                                                    |  |  |  |  |

|      | [Web Service]                                                                                                                                                          | CTL                                                                                   | -                                                                     |  |  |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------|--|--|
| 5848 | SP5848-1 sets the 4-bit switch assignment for the access control setting. Setting of 0001 has no effect on access and delivery from Scan Router.<br>ac: Access Control |                                                                                       |                                                                       |  |  |
| 004  | ac: UD (only Lower 4 bits)                                                                                                                                             |                                                                                       |                                                                       |  |  |
| 007  | ac: Log Fax (Lower 4 bits)                                                                                                                                             |                                                                                       |                                                                       |  |  |
| 009  | ac: Job Ctrl (Lower 4 bits)                                                                                                                                            |                                                                                       | es access control on and off.<br>No access control                    |  |  |
| 011  | ac: Device Management (Lower<br>4 bits)                                                                                                                                | 0001: Denies access to DeskTop Binder.                                                |                                                                       |  |  |
| 022  | ac: Uadmin (Lower 4bits)                                                                                                                                               |                                                                                       |                                                                       |  |  |
| 210  | Log Type: Job 1                                                                                                                                                        |                                                                                       |                                                                       |  |  |
| 211  | Log Type: Job2                                                                                                                                                         | Displays the log server settings.<br>These can be adjusted with the Web Image Monitor |                                                                       |  |  |
| 212  | Log Type: Access                                                                                                                                                       |                                                                                       | vs the log server settings.                                           |  |  |
| 213  | Primary Srv                                                                                                                                                            |                                                                                       |                                                                       |  |  |
| 214  | Secondary Srv                                                                                                                                                          |                                                                                       |                                                                       |  |  |
| 215  | Start Time                                                                                                                                                             |                                                                                       |                                                                       |  |  |
|      |                                                                                                                                                                        | Specifi                                                                               | es the transmit interval.                                             |  |  |
| 216  | Interval Time                                                                                                                                                          | [1 to 1                                                                               | 000 / <b>1</b> / 1 hour/step]                                         |  |  |
|      |                                                                                                                                                                        |                                                                                       | is activated only when SP5848-217 is set to "2<br>nit periodically)". |  |  |
|      |                                                                                                                                                                        | Selects                                                                               | the transmit timing.                                                  |  |  |
| 217  | Timing                                                                                                                                                                 | [0 to 2                                                                               | / 0 / 1/step]                                                         |  |  |
| 21/  |                                                                                                                                                                        | 0: No                                                                                 | Transmit, 1: Transmit one by one                                      |  |  |
|      |                                                                                                                                                                        | 2: Tran                                                                               | smit periodically                                                     |  |  |

| 5849 | [Installation Dat                   | e]                                                                               | CTL        |             |
|------|-------------------------------------|----------------------------------------------------------------------------------|------------|-------------|
| J047 | Displays or prints the installation |                                                                                  | date of tl | ne machine. |
| 001  | Display                             | The "Counter Clear Day" has been changed to "Installation Date" or "Inst. Date". |            |             |

| 0 | 02 | Print         | Determines whether the installation date is printed on the printout for the total counter.<br>[0 or 1/1/1/step]<br>0: No Print, 1: Print |
|---|----|---------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 0 | 03 | Total Counter | Displays the total counter when the installation date is registered to the machine.                                                      |

| 5851 | [Bluetooth] |                                               | CTL |                                           |
|------|-------------|-----------------------------------------------|-----|-------------------------------------------|
| 001  | Mode        | Sets the operation <b>O :Public</b> , 1: Priv |     | for the Bluetooth Unit. Press either key. |

|      | [Remote ROM Update]                                                                                |     |                                                         |  |  |
|------|----------------------------------------------------------------------------------------------------|-----|---------------------------------------------------------|--|--|
| 5856 | Allows the technician to upgrade the firmware using a parallel cable when updating the remote ROM. |     |                                                         |  |  |
| 002  | Local Port                                                                                         | CTL | [0 or 1 / <b>0</b> / 1/step]<br>0: Disallow<br>1: Allow |  |  |

| 5857            | [Debug Log Save]                                                                 | CTL           | -                                           |  |  |
|-----------------|----------------------------------------------------------------------------------|---------------|---------------------------------------------|--|--|
|                 | On/Off                                                                           | 0: OFF, 1: ON |                                             |  |  |
| 001             | Switches the debug log feature of feature is switched on.                        | on and off    | The debug log cannot be captured until this |  |  |
| Save to SD Card |                                                                                  |               |                                             |  |  |
| 006             | Specifies the debug log number for saving to an SD card.                         |               |                                             |  |  |
|                 | Erase SD Debug                                                                   |               |                                             |  |  |
| 012             | Erases SD debug logs in the SD card.<br>Turn off and on after executing this SP. |               |                                             |  |  |
| Dsply-SD Space  |                                                                                  |               |                                             |  |  |
| 013             | Displays the remaining space in the SD card.                                     |               |                                             |  |  |
| 014             | SD to SD Latest (Latest 4 MB)                                                    |               |                                             |  |  |

|     | Saves the debug log (latest 4 MB) in memory to the SD card.<br>A unique file name is generated to avoid overwriting existing file names on the SD card.<br>Up to 4MB can be copied to the SD card. 4 MB segments can be copied one by one to<br>the SD card. |  |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|     | SD to SD Any (Latest 4 MB Any Key)                                                                                                                                                                                                                           |  |
| 015 | Saves the specified debug log (with SP5-857-006) in memory to the SD card.                                                                                                                                                                                   |  |
| 015 | A unique file name is generated to avoid overwriting existing file names on the SD card.<br>Up to 4MB can be copied to the SD card. 4 MB segments can be copied one by one to<br>the SD card.                                                                |  |
| 017 | Make SD Debug                                                                                                                                                                                                                                                |  |
| 017 | Executes the making of a file (4MB) for saving debug logs.                                                                                                                                                                                                   |  |

|      | [Debug Log Save: SC]                                                                                                                                                                                                             | CTL       | -                                                                                          |  |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------|--|
| 5858 | These SPs select the content of the debugging information to be saved to the destination selected by SP5857-2.<br>SP5858-3 stores one SC specified by number. Refer to the chapter "Trouble Shooting" fa list of SC error codes. |           |                                                                                            |  |
| 001  | Engine SC                                                                                                                                                                                                                        | copier er | save function on/off for SC codes generated by<br>ngine errors.<br>0 / 1/ step]<br>1: ON   |  |
| 002  | Controller SC                                                                                                                                                                                                                    | GW cont   | save function on/off for SC codes generated by<br>troller errors.<br>0 / 1/ step]<br>I: ON |  |
| 003  | Any SC                                                                                                                                                                                                                           | [0 to 655 | 535 / 0 / 1 /step]                                                                         |  |
| 004  | Jam                                                                                                                                                                                                                              |           | save function on/off for jam errors.<br>0 / 1/ step]<br>1: ON                              |  |

| 5859         [Debug Log Save Key]         CTL         - |  |
|---------------------------------------------------------|--|
|---------------------------------------------------------|--|

| 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 | Кеу б  | [-99999999 to 9999999 / <b>0</b> / - ]                                                                               |
| 007 | Key 7  |                                                                                                                      |
| 008 | Key 8  |                                                                                                                      |
| 009 | Key 9  |                                                                                                                      |
| 010 | Key 10 |                                                                                                                      |

| 5860 | [SMTP/POP3/IMAP4]                                                                                                                                                                                    | CTL | - |                                      |  |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|--------------------------------------|--|
|      | Partial Mail Receive Timeout                                                                                                                                                                         |     |   | [1 to 168 / <b>72</b> / 1 hour/step] |  |
| 020  | Sets the amount of time to wait before saving mail that breaks up during reception. The received mail is discarded if the remaining portion of the mail is not received during this prescribed time. |     |   |                                      |  |
|      | MDN Response RFC2298 Compliance                                                                                                                                                                      |     |   | [0 to 1 / 1 / - ]                    |  |
| 021  | Determines whether RFC2298 compliance is switched on for MDN reply mail.<br>0: No, 1: Yes                                                                                                            |     |   | vitched on for MDN reply mail.       |  |
|      | SMTP Auth. From Field Replacement                                                                                                                                                                    |     |   | [0 to 1 / <b>0</b> / – ]             |  |
| 022  | Determines whether the FROM item of the mail header is switched to the validated account<br>after the SMTP server is validated.<br>0: No. "From" item not switched. 1: Yes. "From" item switched.    |     |   |                                      |  |
|      | SMTP Auth. Direct Setting                                                                                                                                                                            |     |   | [0 or 1 / <b>0</b> / – ]             |  |
|      | Selects the authentication method for SMPT.                                                                                                                                                          |     |   |                                      |  |
| 025  | Bit switch:                                                                                                                                                                                          |     |   |                                      |  |
|      | Bit 0: LOGIN                                                                                                                                                                                         |     |   |                                      |  |
|      | Bit 1: PLAIN                                                                                                                                                                                         |     |   |                                      |  |
|      | Bit 2: CRAM MD5                                                                                                                                                                                      |     |   |                                      |  |

Bit 3: DIGEST MD5 Bit 4 to 7: Not used **Note** • This SP is activated only when SMTP authorization is enabled by UP mode.

| 5866 | [E-mail Report]                                                      |     |                                                      |  |
|------|----------------------------------------------------------------------|-----|------------------------------------------------------|--|
| 001  | Report Validity                                                      | -   | [ 0 or 1 / <b>0</b> / – ]<br>0: Enabled, 1: Disabled |  |
|      | Enables or disables the E-mail alert function.                       |     |                                                      |  |
| 005  | Add Date Field                                                       | CTL | [ 0 or 1 / <b>0</b> / – ] 0: Not add, 1: Add         |  |
|      | Adds or does not add the date field to the header of the alert mail. |     |                                                      |  |

| 5869 | [RAM Disk Setting]                           |        |                                           |  |
|------|----------------------------------------------|--------|-------------------------------------------|--|
| 001  | Mail Function                                | GWINIT | [0 or 1 / <b>0</b> / - ]<br>0: ON, 1: OFF |  |
|      | Turns on or off the e-mail function.         |        |                                           |  |
|      | PDL Storage                                  | GWINIT | [0 to 255 / <b>4</b> / 1 /step]           |  |
| 002  | Specifies the RAM disk storage size for PDL. |        |                                           |  |

| 5870 | [Common Key Info Writing] |     |                                                                                            |
|------|---------------------------|-----|--------------------------------------------------------------------------------------------|
| 001  | Writing                   | CTL | Writes to flash ROM the common proof for validating the device for @Remote specifications. |
| 003  | Initialize                | CTL | Formats the common proof area of the flash ROM.<br>FA                                      |

| 5873 | [SD Card Appli Move] |                                                                                                                      |
|------|----------------------|----------------------------------------------------------------------------------------------------------------------|
| 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 2. |
| 002  | Undo Exec            | This SP copies back the application programs from an SD card in the SD Card Slot 3 to the original SD card in the SD |

| card slot 2. Use this menu when you have mistakenly copied |
|------------------------------------------------------------|
| some programs by using "Move Exec" (SP5873-1).             |

| 5875 | [SC Auto Reboot] |     |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------|------------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 001  | Reboot Mode      | CTL | <ul> <li>Enables or disables the automatic reboot function when an SC error occurs.</li> <li>[0 or 1 / 0 / - ]</li> <li>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.</li> <li>1: The machine does not reboot when an SC error occurs.</li> <li>The reboot is not executed for Type A, B or C SC</li> </ul> |
|      |                  |     | codes.                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 002  | Reboot Method    | CTL | Selects the reboot method for SC.<br>[0 or 1 / <b>0</b> / -]<br>0: Manual reboot, 1: Automatic reboot                                                                                                                                                                                                                                                                                                                        |

| 5878 | [Option Setup] |   |                                                                                                                           |
|------|----------------|---|---------------------------------------------------------------------------------------------------------------------------|
| 001  | Option Setup   | - | Enables the Data Overwrite Security unit. Press<br>"EXECUTE" on the operation panel. Then turn the<br>machine off and on. |

| 5881 | [Delete Fixed Sent] |   |                                  |
|------|---------------------|---|----------------------------------|
| 001  | Delete Fixed Sent   | - | Deletes the fixed form sentence. |

| 5886 | [Permit ROM Update] DFU                            |  |
|------|----------------------------------------------------|--|
|      | This SP determines whether the ROM can be updated. |  |
| 001  | [0 or 1 / 0 / 1/step]                              |  |
|      | 0: Yes, 1: No                                      |  |

| 5887 | [SD GetCounter] |
|------|-----------------|
|------|-----------------|

| 001 |     | This SP saves the counter list of the machine to an SD card in the slot 3. |  |  |
|-----|-----|----------------------------------------------------------------------------|--|--|
|     | 001 | The folder of "SD_COUNTER" must be made in an SD card for this SP.         |  |  |

| 5913 | [Switch Permission]                                                                                                                                                                                              |  |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|      | Print Application Timer                                                                                                                                                                                          |  |
| 002  | Sets the length of time to elapse before allowing another application to take control of the display when the application currently controlling the display is not operating because a key has not been pressed. |  |
|      | [3 to 30 / <b>3</b> / 1 second/step]                                                                                                                                                                             |  |

| 5974 | [Cherry Server]                                                                                               |  |
|------|---------------------------------------------------------------------------------------------------------------|--|
|      | Selects which version of the Scan Router application program, "Light" or "Full (Professional)", is installed. |  |
| 001  | [0 to 1 / 0 / 1 /step]                                                                                        |  |
|      | 0: Light version (supplied with this machine)                                                                 |  |
|      | 1: Full version (optional)                                                                                    |  |

| [Device Setting] |                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                            |  |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 5985             | The NIC and USB support features are built into the GW controller. Use this SP to enable<br>and disable these features. In order to use the NIC and USB functions built into the controller<br>board, these SP codes must be set to "1". |                                                                                                                                                                                                                                                            |  |
|                  | On Board NIC                                                                                                                                                                                                                             | [0 to 2 / 0 / 1 /step]                                                                                                                                                                                                                                     |  |
|                  |                                                                                                                                                                                                                                          | 0: OFF, 1: ON, 2: ON: Limited                                                                                                                                                                                                                              |  |
|                  |                                                                                                                                                                                                                                          | When the "Function limitation" is set, "On board NIC" is limited only for the @Remote or LDAP/NT authentication.                                                                                                                                           |  |
| 001              |                                                                                                                                                                                                                                          | ♦ Note                                                                                                                                                                                                                                                     |  |
|                  |                                                                                                                                                                                                                                          | <ul> <li>Other network applications than @Remote or LDAP/NT<br/>authentication are not available when this SP is set to "2". Even<br/>if you can change the initial settings of those network<br/>applications, settings may not actually work.</li> </ul> |  |
| 002              | On Board USB                                                                                                                                                                                                                             | [0 or 1 / <b>0</b> / 1/step]<br>0: OFF, 1: ON                                                                                                                                                                                                              |  |

|      | [SP Print Mode]                                                                                                                                                                                                                                                              | SMC Print         |  |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--|
| 5990 | In the SP mode, press Copy Window to move to the copy screen, select the paper size, then press Start. Select A4/LT (Sideways) or larger to ensure that all the information prints. Press SP Window to return to the SP mode, select the desired print, and press "EXECUTE". |                   |  |
| 001  | All (Data List)                                                                                                                                                                                                                                                              |                   |  |
| 002  | SP (Mode Data List)                                                                                                                                                                                                                                                          |                   |  |
| 003  | User Program Data                                                                                                                                                                                                                                                            | User Program Data |  |
| 004  | Logging Data                                                                                                                                                                                                                                                                 |                   |  |
| 005  | Diagnostic Report                                                                                                                                                                                                                                                            |                   |  |
| 006  | Non-Default (Prints only SPs set to values other than defaults.)                                                                                                                                                                                                             |                   |  |
| 007  | NIB Summary                                                                                                                                                                                                                                                                  |                   |  |
| 021  | Copier User Program                                                                                                                                                                                                                                                          |                   |  |
| 022  | Scanner SP                                                                                                                                                                                                                                                                   |                   |  |
| 023  | Scanner User Program                                                                                                                                                                                                                                                         |                   |  |
|      |                                                                                                                                                                                                                                                                              |                   |  |

| 5998 | [Engine Memory Clear]                           |  |
|------|-------------------------------------------------|--|
| 001  | See the section "Memory Clear" in this chapter. |  |

# SP6-xxx (Peripherals)

| 6010* | [Stamp Position]                               | CTL       | [-5 to 5 / <b>0</b> / 1 mm/step]                  |
|-------|------------------------------------------------|-----------|---------------------------------------------------|
| 001   | Adjusts the stamp position in the leading edge | ne sub-sc | an direction for the fax mode5 mm: closest to the |

# SP7-XXX (Data Log)

| 7401* | [Counter–SC Total]                              | CTL | [0 to 9999 / <b>0</b> / 1/step] |
|-------|-------------------------------------------------|-----|---------------------------------|
| 001   | Displays how many times SC codes are generated. |     |                                 |

| 7403 | [SC History] |            |                                                                           |
|------|--------------|------------|---------------------------------------------------------------------------|
| 001  | Latest       |            |                                                                           |
| 002  | Latest 1     |            |                                                                           |
| 003  | Latest 2     |            |                                                                           |
| 004  | Latest 3     |            | Logs the SC codes detected.<br>The 10 most recently detected SC Codes are |
| 005  | Latest 4     | - CTL<br>- | displayed on the screen.                                                  |
| 006  | Latest 5     |            | L: Asset line                                                             |
| 007  | Latest 6     |            | V: Assert location<br>F: Assert file                                      |
| 008  | Latest 7     |            |                                                                           |
| 009  | Latest 8     |            |                                                                           |
| 010  | Latest 9     |            |                                                                           |

| 7502*  | [Counter-Paper Jam] [0 to 9999 / 0 / 1/step] |  |
|--------|----------------------------------------------|--|
| 7502 1 | Displays the total number of paper jams.     |  |
|        |                                              |  |

| 7503*  | [Counter–Orgn Jam]                          | [0 to 9999 / <b>0</b> / 1/step] |
|--------|---------------------------------------------|---------------------------------|
| 7503 1 | Displays the total number of original jams, |                                 |

|       | [Paper Jam/Loc]                                                        | [0 to 9999 / <b>0</b> / 1/step]      |  |
|-------|------------------------------------------------------------------------|--------------------------------------|--|
| 7504* | Displays the total number of the paper jam                             | s classified by timing and location. |  |
|       | <ul><li>"Counter-Each Paper Jam (SP7-504)", in this chapter.</li></ul> |                                      |  |

|       | [Original Jam/Loc]                                                                                                              | [0 to 9999 / <b>0</b> / 1/step] |  |
|-------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--|
| 7505* | Displays the total number of the original jams on the ADF/ARDF that have occurred at a certain timing or at a certain location. |                                 |  |
|       | <ul><li>"Original Jam History Display (SP7-508)", in this chapter.</li></ul>                                                    |                                 |  |
|       |                                                                                                                                 |                                 |  |

| 7506 [Paper Jam/ Size] Jam Counter: Paper Size |  |
|------------------------------------------------|--|
|------------------------------------------------|--|

| 7506 5   | A4 LEF  |     |                                                                                                       |
|----------|---------|-----|-------------------------------------------------------------------------------------------------------|
| 7506 6   | A5 LEF  |     |                                                                                                       |
| 7506 14  | B5 LEF  |     |                                                                                                       |
| 7506 38  | LT LEF  |     |                                                                                                       |
| 7506 44  | HLT LEF |     |                                                                                                       |
| 7506 132 | A3 SEF  | _   |                                                                                                       |
| 7506 133 | A4 SEF  |     | Displays the number of jams according to the pape<br>size.<br>[ 0 to 9999 / <b>0</b> / 1 sheet/step ] |
| 7506 134 | A5 SEF  | CTL |                                                                                                       |
| 7506 141 | B4 SEF  |     |                                                                                                       |
| 7506 142 | B5 SEF  |     |                                                                                                       |
| 7506 160 | DLT SEF |     |                                                                                                       |
| 7506 164 | LG SEF  |     |                                                                                                       |
| 7506 166 | LT SEF  |     |                                                                                                       |
| 7506 172 | HLT SEF |     |                                                                                                       |
| 7506 255 | Others  | 1   |                                                                                                       |

| 7507*  | [Disply-P Jam Hist] Display: Paper Jam History |                                                         |  |
|--------|------------------------------------------------|---------------------------------------------------------|--|
| 7507 1 | Last                                           | Displays the copy jam history (the most recent 10 jams) |  |
| 7507 2 | Latest 1                                       | Sample Display:                                         |  |
| 7507 3 | Latest 2                                       | CODE:007                                                |  |
| 7507 4 | Latest 3                                       | SIZE:05h                                                |  |
|        |                                                | TOTAL:0000334                                           |  |
| 7507 5 | Latest 4                                       | DATE:DEC 1 09:44/06 2005                                |  |
| 7507 6 | Latest 5                                       | where:                                                  |  |
| 75077  | Latest 6                                       | <b>CODE</b> is the SP7504-*** number (see above.)       |  |
|        |                                                | SIZE is the ASAP paper size code in hex.                |  |
| 7507 8 | Latest 7                                       | TOTAL is the total jam error count (SP7003)             |  |
| 7507 9 | Latest 8                                       | DATE is the date the jams occurred.                     |  |

| 7507 10 Lates | 19   |        |      |         |      |
|---------------|------|--------|------|---------|------|
| Size          | Code | Size   | Code | Size    | Code |
| A4 (S)        | 05   | A3 (L) | 84   | DLT (L) | AO   |
| A5 (S)        | 06   | A4 (L) | 85   | LG (L)  | A4   |
| B5 (S)        | OE   | A5 (L) | 86   | LT (L)  | A6   |
| LT (S)        | 26   | B4 (L) | 8D   | HLT (L) | AC   |
| HLT (S)       | 2C   | B5 (L) | 8E   | Others  | FF   |

|       | [Disply-O Jam Hist] Display:                                                                                                                    | [Disply-O Jam Hist] Display: Original Jam History |  |  |  |  |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|--|--|--|--|
|       | Displays the original jam history of the transfer unit in groups of 10, starting with the most recent 10 jams. Display contents are as follows: |                                                   |  |  |  |  |
| 7508* | <b>CODE</b> is the SP7-505-***                                                                                                                  | number.                                           |  |  |  |  |
|       | SIZE is the paper size code                                                                                                                     | in hex. (See "Paper Size Hex Codes" below.)       |  |  |  |  |
|       | TOTAL is the total jam error                                                                                                                    | count (SP7-003)                                   |  |  |  |  |
|       | DATE is the date the previous jam occurred                                                                                                      |                                                   |  |  |  |  |
| 1*    | Latest                                                                                                                                          |                                                   |  |  |  |  |
| 2*    | Latest 1                                                                                                                                        |                                                   |  |  |  |  |
| 3*    | Latest 2                                                                                                                                        |                                                   |  |  |  |  |
| 4*    | Latest 3                                                                                                                                        | Sample Display:                                   |  |  |  |  |
| 5*    | Latest 4                                                                                                                                        | CODE: 007<br>SIZE: 05h                            |  |  |  |  |
| 6*    | Latest 5                                                                                                                                        | TOTAL: 0000334                                    |  |  |  |  |
| 7*    | Latest 6                                                                                                                                        | DATE: Mon Mar 15 11:44:50 2000                    |  |  |  |  |
| 8*    | Latest 7                                                                                                                                        |                                                   |  |  |  |  |
| 9*    | Latest 8                                                                                                                                        |                                                   |  |  |  |  |
| 10*   | Latest 9                                                                                                                                        |                                                   |  |  |  |  |

| 7801 | [Memory/Version/PN]                                              |
|------|------------------------------------------------------------------|
| 7801 | Displays the part number and version of all ROMs in the machine. |

| 7801<br>255 | Memory/Version/PN |  |
|-------------|-------------------|--|
|-------------|-------------------|--|

| 7803   | [PM Counter]                              |  |  |  |  |
|--------|-------------------------------------------|--|--|--|--|
| 7803   | Displays the PM counter for each PM part. |  |  |  |  |
| 7803 1 | Paper CTL [0 to 99999999 / 0 / 1/step]    |  |  |  |  |

| 7804   | [PM Count. Reset]                              |  |  |  |  |  |
|--------|------------------------------------------------|--|--|--|--|--|
| 7804   | Clears the PM counter for each PM part.        |  |  |  |  |  |
| 7804 1 | Paper CTL This clears the counter of SP7803-1. |  |  |  |  |  |

| 7807   | [Reset–SC/Jam Counters]                                                                                                                                                                                                                                    |  |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 7807 1 | Resets the SC, paper, original, and total jam counters. When the program ends normally, the message "Completed" is displayed. SP 7807-1 does not reset the following logs: SP 7507 (Display-Paper Jam History) and SP 7508 (Display-Original Jam History). |  |

| 7904                                                                  | [MF Error Counter] Japan Only |                                                                                                                       |  |  |
|-----------------------------------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------|--|--|
| 7826 Displays the number of counts requested of the card/key counter. |                               | ts requested of the card/key counter.                                                                                 |  |  |
| 001                                                                   | Error Total                   | A request for the count total failed at power on. This error will occur if the device is installed but disconnected.  |  |  |
| 002                                                                   | Error Staple                  | The request for a staple count failed at power on. This error will occur if the device is installed but disconnected. |  |  |

| 7827  | [MF Error Counter Clear]                                     |
|-------|--------------------------------------------------------------|
| / 02/ | Press Execute to reset to 0 the values of SP7826. Japan Only |

| 7832*  | [Display-Self-Diag]                                                                                  |
|--------|------------------------------------------------------------------------------------------------------|
| 7832 1 | Displays the SC codes and the number of their occurrences. Each number is in the range of 0 to 9999. |

| 7836 [Residen | nt Memory] |
|---------------|------------|
|---------------|------------|

| Dis | plays the | contents | of the | memory | on the | controller | board. |  |
|-----|-----------|----------|--------|--------|--------|------------|--------|--|
|-----|-----------|----------|--------|--------|--------|------------|--------|--|

|                                                                                                                       | [Assert Info]   |   |   |
|-----------------------------------------------------------------------------------------------------------------------|-----------------|---|---|
| 7901 Records the location where a problem is detected in the program. The dat<br>SP is used for problem analysis. DFU |                 |   |   |
| 79011                                                                                                                 | File Name       | - | - |
| 7901 2                                                                                                                | Number of Lines | - | - |
| 7901 3                                                                                                                | Location        | - | - |

| 7992*  | [Reset-Info Count]                                |
|--------|---------------------------------------------------|
| 7000 5 | Reset-ID Er Count                                 |
| 7992 5 | Clears the ID sensor error counter (SP7-991-005). |

### SP8-XXX (History)

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                                                                                                                           |
| P:       | Print application.                                                    | when the job was not stored on the document server.                                                                                                                                |
| S:       | Scan application.                                                     |                                                                                                                                                                                    |
| O:       | Other applications<br>(external network<br>applications, for example) | Refers to network applications such as Web Image<br>Monitor. Utilities developed with the SDK (Software<br>Development Kit) will also be counted with this group in the<br>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.

| Abbreviation | What it means                                                                                                            |  |
|--------------|--------------------------------------------------------------------------------------------------------------------------|--|
| 1            | "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                                                                                                                 |  |
| DesApl       | Designated Application. The application (Copy, Fax, Scan, Print) used 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                                                                                                     |  |

#### Key for Abbreviations

| Abbreviation | What it means                                                                                                                                                                                                                        |  |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| GPC          | Get Print Counter. For jobs 10 pages or less, this counter does not count up<br>For jobs larger than 10 pages, this counter counts up by the number that<br>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.                                                                                                                     |  |
| К            | Black (YMCK)                                                                                                                                                                                                                         |  |
| LS           | Local Storage. Refers to the document server.                                                                                                                                                                                        |  |
| LSize        | Large (paper) Size                                                                                                                                                                                                                   |  |
| Mag          | Magnification                                                                                                                                                                                                                        |  |
| МС           | One color (monochrome)                                                                                                                                                                                                               |  |
| NRS          | NRS (@Remote), which allows a service center to monitor machines remotely. "@Remote" 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 to be distributed evenly among the printers on the network, and allows to moved around, combined, and converted to different formats.                       |  |
| PC           | Personal Computer                                                                                                                                                                                                                    |  |
| PGS          | Pages. A page is the total scanned surface of the original. Duplex pages count as two pages, and A3 simplex count as two pages if the A3/DLT counter SP is switched ON.                                                              |  |
| PJob         | Print Jobs                                                                                                                                                                                                                           |  |
| Ppr          | Paper                                                                                                                                                                                                                                |  |
| PrtJam       | Printer (plotter) Jam                                                                                                                                                                                                                |  |
| PrtPGS       | Print Pages                                                                                                                                                                                                                          |  |
| R            | Red (Toner Remaining). Applies to the wide format model A2 only. This machine is under development and currently not available.                                                                                                      |  |

| Abbreviation | What it means                                                                               |  |
|--------------|---------------------------------------------------------------------------------------------|--|
| RCG          | Remote Communication Gate                                                                   |  |
| 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                                                                              |  |
| ѕмс          | 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                                                                          |  |
| ҮМС          | Yellow, Magenta, Cyan                                                                       |  |
| ҮМСК         | Yellow, Magenta, Cyan, Black                                                                |  |

#### • Note

• All of the Group 8 SPs are reset with SP5 801 1 Memory All Clear.

| 8 191 | T:Total Scan PGS | CTL |                                                                                             |
|-------|------------------|-----|---------------------------------------------------------------------------------------------|
| 8 192 | C:Total Scan PGS | CTL | These SPs count the pages scanned by each application that uses the scanner to scan images. |
| 8 193 | F:Total Scan PGS | CTL | [0 to 9999999 / 0 / 1]                                                                      |
| 8 195 | S: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 is not counted. |                |                                               |  |  |
|       | • These counters are a                                                                                                                                                | displayed in t | he SMC Report, and in the User Tools display. |  |  |
| 8 203 | F:LSize Scan PGS                                                                                                                                                      | CTL            | [0 to 9999999 / 0 / 1]                        |  |  |
| 0 203 | These SPs count the number of large pages scanned by original type for Fax jobs.                                                                                      |                |                                               |  |  |
|       | 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.    |                |                                               |  |  |
|       | • These counters are displayed in the SMC Report, and in the User Tools display.                                                                                      |                |                                               |  |  |

|       | ADF Org Fe               | eeds                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CTL      | [0 to 9999999 / 0 / 1]                          |
|-------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------|
| 8 221 | These SPs c<br>scanning. | ount the numb                                                                                                                                                                                                                                                                                                                                                                                                                                          | er of pa | ges fed through the ADF for front and back side |
| 001   | Front                    | Number of front sides fed for scanning:<br>With an ADF/ARDF that can scan both sides simultaneously, the Front side<br>count is the same as the number of pages fed for either simplex or duplex<br>scanning.<br>With an ADF/ARDF that cannot scan both sides simultaneously, the Fron<br>side count is the same as the number of pages fed for duplex front side<br>scanning. (The front side is determined by which side the user loads face<br>up.) |          |                                                 |
| 002   | Back                     | Number of rear sides fed for scanning:<br>With an ADF/ARDF that can scan both sides simultaneously, the Back<br>count is the same as the number of pages fed for duplex scanning.                                                                                                                                                                                                                                                                      |          |                                                 |

| With an ADF/ARDF 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.

| 8 281 | T:Scan PGS/TWAIN       | CTL | These SPs count the number of pages scanned using a                                                                   |  |
|-------|------------------------|-----|-----------------------------------------------------------------------------------------------------------------------|--|
|       | 8 285 S:Scan PGS/TWAIN |     | TWAIN driver. These counters reveal how the TWAIN<br>driver is used for delivery functions.<br>[0 to 9999999 / 0 / 1] |  |
| 8 285 |                        | CTL | <pre>[0 10 9999999 0 / 1]</pre>                                                                                       |  |
|       |                        |     | <ul> <li>At the present time, these counters perform<br/>identical counts.</li> </ul>                                 |  |

| 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.                               |
| 8 295 | S:Scan PGS/Stamp | CTL | [0 to 9999999 / 0 / 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 applicati<br>these totals to compare original page size (scanning) and output (printing)<br>[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.<br>Use these totals to compare original page size (scanning) and output (printing) page<br>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. Us 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.<br>Use these totals to compare original page size (scanning) and output page size [SP<br>8-445].            |     |                        |  |

|      | 1                |
|------|------------------|
| -001 | A3               |
| 002  | A4               |
| 003  | A5               |
| 004  | В4               |
| 005  | В5               |
| 006  | DLT              |
| 007  | LG               |
| 008  | LT               |
| 009  | HLT              |
| 010  | Full Bleed       |
| -254 | Other (Standard) |
| -255 | Other (Custom)   |

| 8 381 | T:Total PrtPGS | CTL |                                                                                                       |
|-------|----------------|-----|-------------------------------------------------------------------------------------------------------|
| 8 382 | C:Total PrtPGS | CTL | These SDs count the number of names printed by the                                                    |
| 8 383 | F:Total PrtPGS | CTL | These SPs count the number of pages printed by the customer. The counter for the application used for |
| 8 384 | P:Total PrtPGS | CTL | storing the pages increments.<br>[0 to 9999999 / 0 / 1]                                               |
| 8 385 | S:Total PrtPGS | CTL |                                                                                                       |
| 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 is 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 | <ul> <li>Note</li> <li>In addition to being a</li> </ul> | displayed | aper sizes A3/DLT and larger.<br>in the SMC Report, these counters are also<br>play on the copy machine. |

| 8 41 1 | Prints/Duplex | CTL | This SP counts the amount of paper (front/back<br>counted as 1 page) used for duplex printing. Last<br>pages printed only on one side are not counted.<br>[O to 9999999 / O / 1] |
|--------|---------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|--------|---------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|       | 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 and combining, 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 combining, 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 | 24 These SPs count by binding and combining, and n-Up settings the nur 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 combining, and n-Up settings the number of pages processed for printing by the scanner application.            |                                                                                                                                   |                        |  |  |  |
| 8 427 | O:PrtPGS/Dup Comb                                                                                                                             | O:PrtPGS/Dup Comb CTL [0 to 9999999 / 0 / 1]                                                                                      |                        |  |  |  |

# 4

|     | These SPs count by binding and combining, and n-Up settings the number of pages processed for printing by Other applications. |                            |  |  |  |
|-----|-------------------------------------------------------------------------------------------------------------------------------|----------------------------|--|--|--|
| 001 | Simplex> Duplex                                                                                                               | -                          |  |  |  |
| 002 | Duplex> Duplex                                                                                                                | -                          |  |  |  |
| 003 | Book> Duplex                                                                                                                  | -                          |  |  |  |
| 004 | Simplex Combine                                                                                                               | -                          |  |  |  |
| 005 | Duplex Combine                                                                                                                | -                          |  |  |  |
| 006 | 2>                                                                                                                            | 2 pages on 1 side (2-Up)   |  |  |  |
| 007 | 4>                                                                                                                            | 4 pages on 1 side (4-Up)   |  |  |  |
| 008 | 6>                                                                                                                            | 6 pages on 1 side (6-Up)   |  |  |  |
| 009 | 8>                                                                                                                            | 8 pages on 1 side (8-Up)   |  |  |  |
| 010 | 9>                                                                                                                            | 9 pages on 1 side (9-Up)   |  |  |  |
| 011 | 16>                                                                                                                           | 16 pages on 1 side (16-Up) |  |  |  |
| 012 | Booklet                                                                                                                       | -                          |  |  |  |
| 013 | 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:

|       | LSize PrtPGS                                              | CTL        | [0 to 9999999 / 0 / 1]                                                                             |
|-------|-----------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------|
| 8 391 | <ul> <li>Note</li> <li>In addition to being di</li> </ul> | splayed in | per sizes A3/DLT and larger.<br>The SMC Report, these counters are also<br>ay on the copy machine. |

| 8 41 1 | Prints/Duplex | CTL | This SP counts the amount of paper (front/back<br>counted as 1 page) used for duplex printing. Last<br>pages printed only on one side are not counted.<br>[0 to 9999999 / 0 / 1] |
|--------|---------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|--------|---------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|       |     | 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 bir<br>processed for printing                                                                                              | •                        |          | bining, and n-Up settings the number of pages<br>application. |
|       |     | F:PrtPGS/Dup Comb                                                                                                                             |                          | CTL      | [0 to 9999999 / 0 / 1]                                        |
| 8 423 |     | These SPs count by bir<br>processed for printing                                                                                              |                          |          | bining, and n-Up settings the number of pages<br>lication.    |
|       |     | P:PrtPGS/Dup Comb                                                                                                                             |                          | CTL      | [0 to 9999999 / 0 / 1]                                        |
| 8 424 |     | These SPs count by bir<br>processed for printing                                                                                              | -                        |          | pining, and n-Up settings the number of pages<br>application. |
|       |     | S:PrtPGS/Dup Comb                                                                                                                             |                          | CTL      | [0 to 9999999 / 0 / 1]                                        |
| 8 425 |     | These SPs count by bir<br>processed for printing                                                                                              | -                        |          | pining, and n-Up settings the number of pages application.    |
|       |     | O:PrtPGS/Dup Comb                                                                                                                             |                          | CTL      | [0 to 9999999 / 0 / 1]                                        |
| 8 427 |     | These SPs count by bir<br>processed for printing                                                                                              | •                        |          | pining, and n-Up settings the number of pages cations.        |
|       | 001 | Simplex> Duplex                                                                                                                               | -                        |          |                                                               |
|       | 002 | Duplex> Duplex                                                                                                                                | -                        |          |                                                               |
|       | 003 | Book> Duplex                                                                                                                                  | -                        |          |                                                               |
|       | 004 | Simplex Combine                                                                                                                               | -                        |          |                                                               |
|       | 005 | Duplex Combine                                                                                                                                | -                        |          |                                                               |
|       | 006 | 2>                                                                                                                                            | 2 pa                     | ges on 1 | side (2-Up)                                                   |
|       | 007 | 4>                                                                                                                                            | 4 pa                     | ges on 1 | side (4-Up)                                                   |
|       | 800 | 6>                                                                                                                                            | 6 pa                     | ges on 1 | side (6-Up)                                                   |
|       | 009 | 8>                                                                                                                                            | 8 pa                     | ges on 1 | side (8-Up)                                                   |
|       | 010 | 9>                                                                                                                                            | 9 pages on 1 side (9-Up) |          |                                                               |

| 011 | 16>      | 16 pages on 1 side (16-Up) |
|-----|----------|----------------------------|
| 012 | Booklet  | -                          |
| 013 | 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:

| Booklet        |       | Magazine       |       |
|----------------|-------|----------------|-------|
| 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     |

| 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 4 4 3 | F:PrtPGS/Ppr Size                                                                        | CTL | [0 to 9999999 / 0 / 1] |  |
| 0 443   | These SPs count by print paper size the number of pages printed by the fa                |     |                        |  |
| 8 444   | P:PrtPGS/Ppr Size                                                                        | CTL | [0 to 9999999 / 0 / 1] |  |

|       | 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 p application.                                                     | aper size t  | he number of pages printed by the scanner        |  |  |
| 8 447 | O:PrtPGS/Ppr Size                                                                           | CTL          | [0 to 9999999 / 0 / 1]                           |  |  |
| 8 44/ | These SPs count by print po                                                                 | iper size th | e number of pages printed by Other applications. |  |  |
| 001   | A3                                                                                          |              |                                                  |  |  |
| 002   | A4                                                                                          |              |                                                  |  |  |
| 003   | A5                                                                                          |              |                                                  |  |  |
| 004   | B4                                                                                          |              |                                                  |  |  |
| 005   | B5                                                                                          |              |                                                  |  |  |
| 006   | DLT                                                                                         |              |                                                  |  |  |
| 007   | LG                                                                                          |              |                                                  |  |  |
| 008   | LT                                                                                          |              |                                                  |  |  |
| 009   | HLT                                                                                         |              |                                                  |  |  |
| 010   | Full Bleed                                                                                  |              |                                                  |  |  |
| 254   | Other (Standard)                                                                            |              |                                                  |  |  |
| 255   | Other (Custom)                                                                              |              |                                                  |  |  |

#### • These counters do not distinguish between LEF and SEF.

| 8 451 | PrtPGS/Ppr Tray |                                                       | CTL | [0 to 9999999 / 0 / 1] |  |
|-------|-----------------|-------------------------------------------------------|-----|------------------------|--|
|       |                 | he number of sheets fed from each paper feed station. |     |                        |  |
| 001   | Bypass          | Bypass Tray                                           |     |                        |  |
| 002   | Tray 1          | Copier                                                |     |                        |  |
| 003   | Tray 2          | Copier                                                |     |                        |  |
| 004   | Tray 3          | Paper Tray Unit (Option)                              |     |                        |  |

| 005 | Tray 4 | Paper Tray Unit (Option) |  |
|-----|--------|--------------------------|--|
| 006 | Tray 5 | Currently not used.      |  |
| 007 | Tray 6 | Currently not used.      |  |
| 008 | Tray 7 | Currently not used.      |  |
| 009 | Tray 8 | Currently not used.      |  |
| 010 | 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 o                                                                                                                                                                         | covers, slip | o sheets) are also counted.                  |  |  |
|       | During duplex printing, pages<br>one side counts as 1.                                                                                                                                                  | printed on   | both sides count as 1, and a page printed on |  |  |
| 8 462 | C:PrtPGS/Ppr Type                                                                                                                                                                                       | CTL          | [0 to 9999999 / 0 / 1]                       |  |  |
| 0 402 | These SPs count by paper type                                                                                                                                                                           | the numb     | er pages printed by the copy application.    |  |  |
| 8 463 | F:PrtPGS/Ppr Type                                                                                                                                                                                       | CTL          | [0 to 9999999 / 0 / 1]                       |  |  |
| 0 403 | These SPs count by paper type                                                                                                                                                                           | the numb     | er pages printed by the fax application.     |  |  |
| 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.                                                                                                                      |              |                                              |  |  |
| 001   | Normal                                                                                                                                                                                                  |              |                                              |  |  |
| 002   | Recycled                                                                                                                                                                                                |              |                                              |  |  |
| 003   | Special                                                                                                                                                                                                 | Special      |                                              |  |  |
| 004   | Thick                                                                                                                                                                                                   |              |                                              |  |  |
| 005   | Normal (Back)                                                                                                                                                                                           |              |                                              |  |  |
| 006   | Thick (Back)                                                                                                                                                                                            | Thick (Back) |                                              |  |  |
| 007   | ОНР                                                                                                                                                                                                     |              |                                              |  |  |

| 008   | Other                                                                                           |             |                                                   |  |  |
|-------|-------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------|--|--|
|       | 1                                                                                               |             |                                                   |  |  |
| 8 521 | T:PrtPGS/FIN                                                                                    | CTL         | [0 to 9999999 / 0 / 1]                            |  |  |
| 0.521 | These SPs count by finishing n                                                                  | node the to | otal number of pages printed by all applications. |  |  |
|       | C:PrtPGS/FIN                                                                                    | CTL         | [0 to 9999999 / 0 / 1]                            |  |  |
| 8 522 | These SPs count by finishing application.                                                       | mode the    | total number of pages printed by the Copy         |  |  |
|       | 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.     |             |                                                   |  |  |
|       | Print finishing options fo                                                                      | r received  | faxes are currently not available.                |  |  |
|       | P:PrtPGS/FIN                                                                                    | CTL         | [0 to 9999999 / 0 / 1]                            |  |  |
| 8 524 | These SPs count by finishing application.                                                       | mode the    | total number of pages printed by the Print        |  |  |
|       | 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 Scanner application. |             |                                                   |  |  |
| 001   | Sort                                                                                            |             |                                                   |  |  |
| 002   | Stack                                                                                           |             |                                                   |  |  |
| 003   | Staple                                                                                          |             |                                                   |  |  |
| 004   | Booklet                                                                                         |             |                                                   |  |  |
| 005   | Z-Fold                                                                                          |             |                                                   |  |  |
| 006   | Punch                                                                                           |             |                                                   |  |  |
| 007   | Other                                                                                           |             |                                                   |  |  |

## 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.

4

| 8 531   | Staples                                                                                                                                                                                                                          | *CTL                                                                                                                                                                     |     | ounts the amount of staples used by the machine.<br>29999 / 0 / 1] |  |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------|--|
|         |                                                                                                                                                                                                                                  |                                                                                                                                                                          |     |                                                                    |  |
|         | T:Counter                                                                                                                                                                                                                        |                                                                                                                                                                          | CTL | [0 to 9999999 / 0 / 1]                                             |  |
| 8 581   | This SP counts the total output broken down by color output, regardless of the application used. In addition to being displayed in the SMC Report, these counters calso displayed in the User Tools display on the copy machine. |                                                                                                                                                                          |     |                                                                    |  |
| 001     | Total                                                                                                                                                                                                                            |                                                                                                                                                                          |     |                                                                    |  |
|         |                                                                                                                                                                                                                                  |                                                                                                                                                                          |     |                                                                    |  |
| 8 591   | O:Counter                                                                                                                                                                                                                        |                                                                                                                                                                          | CTL | [0 to 9999999 / 0 / 1]                                             |  |
| 8 591 1 | A3/DLT                                                                                                                                                                                                                           | These SPs count the totals for A3/DLT paper use, number of duple<br>pages printed, and the number of staples used. These totals are for<br>Other (O:) applications only. |     |                                                                    |  |
| 8 591 2 | Duplex                                                                                                                                                                                                                           |                                                                                                                                                                          |     |                                                                    |  |
| L       | 1                                                                                                                                                                                                                                | 1                                                                                                                                                                        |     |                                                                    |  |
| 8 601   | Cvg Counter                                                                                                                                                                                                                      |                                                                                                                                                                          | CTL | [0 to 9999999 / 0 / 1]                                             |  |
|         |                                                                                                                                                                                                                                  |                                                                                                                                                                          |     |                                                                    |  |

| 0 001    | Cvg Counier   | CIL                                                | [0 10 9999999 / 0 / 1]         |
|----------|---------------|----------------------------------------------------|--------------------------------|
| 8 601 1  | Cvg: BW %     | Displays the                                       | e total coverage of each mode. |
| 8 601 11 | Cvg: BW Pages | Displays the number of the printouts in each mode. |                                |

| 8 631                                                                              | T:FAX TX PGS                                                                        | CTL | [0 to 9999999 / 0 / 1] |  |  |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|------------------------|--|--|
| 0 03 1                                                                             | This SP counts by color mode the number of pages sent by fax to a telephone number. |     |                        |  |  |
| 0 4 2 2                                                                            | F:FAX TX PGS                                                                        | CTL | [0 to 9999999 / 0 / 1] |  |  |
| 8 633<br>This SP counts by color mode the number of pages sent by fax to a telepho |                                                                                     |     |                        |  |  |
| 001                                                                                | B/W                                                                                 |     |                        |  |  |

- 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 This SP counts by color mode the number of pages sent by fax to as fax in I-Fax. |                                                                                       |     |                        |  |
|                                                                                        | F:IFAX TX PGS                                                                         | CTL | [0 to 9999999 / 0 / 1] |  |
| 8 643                                                                                  | This SP counts by color mode the number of pages sent by Fax as fax images using Fax. |     |                        |  |
| 00                                                                                     | B/W                                                                                   |     |                        |  |

- 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 | mber of pages attached to an e-mail for both<br>ons.                                                         |     |                        |  |
|       | S:S-to-Email PGS                                                                                             | CTL | [0 to 9999999 / 0 / 1] |  |
| 8 655 | This SP counts by color mode the total number of pages attached to an e-mail for t<br>Scan application only. |     |                        |  |
| 001   | B/W                                                                                                          |     |                        |  |

#### 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] |  |
|-------|-------------------------------------------------------------------------------------------------------|-----|------------------------|--|
| 8 661 | tal number of pages sent to a Scan Router server                                                      |     |                        |  |
|       | 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 Route by the Scan application. |     |                        |  |
| 001   | B/W                                                                                                   |     |                        |  |

#### **Vote**

- 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 count is not done.
- The count is executed even if there is confirmation of the arrival at the Scan Router server.

|       | T:Deliv PGS/PC                                                                                           | CTL | [0 to 9999999/0/1]     |  |
|-------|----------------------------------------------------------------------------------------------------------|-----|------------------------|--|
| 8 671 | al number of pages sent to a folder on a PC (Scan-<br>ons.                                               |     |                        |  |
|       | 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 t<br>Scan application. |     |                        |  |
| 001   | B/W                                                                                                      |     |                        |  |

#### **Vote**

- 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.

| 8 681 | T:PCFAX TXPGS |     | 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<br>the counts for SP8-681 and SP8-683 are the same.<br>[O to 9999999 / O / 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.)

|         | 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)                                                                                                                                                                                | -   |                        |  |  |  |  |
| 8 701 5 | Network                                                                                                                                                                                     | -   |                        |  |  |  |  |

| 8 <i>7</i> 11 | T:Scan PGS/Comp             | CTL                                                               | [0 to 9999999 / 0 / 1] |  |  |
|---------------|-----------------------------|-------------------------------------------------------------------|------------------------|--|--|
| 0.715         | S:Scan PGS/Comp             | CTL                                                               | [0 to 9999999 / 0 / 1] |  |  |
| 8715          | These SPs count the num     | hese SPs count the number of pages sent by each compression mode. |                        |  |  |
| -001          | JPEG/JPEG2000               | -                                                                 |                        |  |  |
| -002          | TIFF M/S (Multi/<br>Single) | -                                                                 |                        |  |  |
| -003          | PDF                         | -                                                                 |                        |  |  |
| -004          | Other                       | -                                                                 |                        |  |  |

| 0 771    | Dev Counter                | CTL                                                  | [0 to 9999999 / 0 / 1] |  |  |
|----------|----------------------------|------------------------------------------------------|------------------------|--|--|
| 8771 Thi | This SP counts the total r | This SP counts the total number of developed images. |                        |  |  |

| 8 77 1 1                                                                   | Total             | -    |                        |
|----------------------------------------------------------------------------|-------------------|------|------------------------|
| 0.701                                                                      | Toner Botol Info. | *BCU | [0 to 9999999 / 0 / 1] |
| 8 781<br>This SP displays the number of already replaced toner cartridges. |                   |      |                        |

| 8 781 1 | ВК | The number of black toner cartridges |
|---------|----|--------------------------------------|

|         | Toner Remain                                                                                                                   | CTL                                                                                                | [0 to 100 / 0 / 1] |  |  |  |
|---------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------|--|--|--|
|         | This SP displays the percent of toner remaining for each color. This SP allows the user to check the toner supply at any time. |                                                                                                    |                    |  |  |  |
| 8 801   | ↓Note                                                                                                                          |                                                                                                    |                    |  |  |  |
|         |                                                                                                                                | g remaining toner supply (1% steps) is better than<br>at can only measure in increments of 10 (10% |                    |  |  |  |
| 8 801 1 | К                                                                                                                              |                                                                                                    |                    |  |  |  |

|                                                                                                  | Cvr Cnt:0-10% | *BCU | [0 to 9999999 / 0 / 1] |  |  |
|--------------------------------------------------------------------------------------------------|---------------|------|------------------------|--|--|
| 8 851 These SPs display the number of scanned sheets on which the coverage or is from 0% to 10%. |               |      |                        |  |  |
| 8 851 11                                                                                         | 0-2%:Bk       |      |                        |  |  |
| 8 851 21                                                                                         | 3-4%: Bk      |      |                        |  |  |
| 8 851 31                                                                                         | 5-7%: Bk      |      |                        |  |  |
| 8 851 41                                                                                         | 8-10%: Bk     |      |                        |  |  |

|         | Cvr Cnt: 11-20% *BCU [0 to 9999999 / 0 / 1]                                                  |  |  |  |  |
|---------|----------------------------------------------------------------------------------------------|--|--|--|--|
| 8 861   | This SP displays the number of scanned sheets on which the coverage of each from 11% to 20%. |  |  |  |  |
| 8 851 1 | ВК                                                                                           |  |  |  |  |

|       | Cvr Cnt: 21-30%                              | *BCU         | [0 to 9999999 / 0 / 1]                           |
|-------|----------------------------------------------|--------------|--------------------------------------------------|
| 8 871 | This SP displays the number from 21% to 30%. | er of scanne | ed sheets on which the coverage of each color is |

|  |         | 0.0.010 | *> <> / |  |
|--|---------|---------|---------|--|
|  | 8 871 1 | ВК      |         |  |

|         | Cvr Cnt: 31%-                                                                                       | *BCU | [0 to 9999999 / 0 / 1] |  |  |  |
|---------|-----------------------------------------------------------------------------------------------------|------|------------------------|--|--|--|
| 8 881   | This SP displays the number of scanned sheets on which the coverage of each color is 31% or higher. |      |                        |  |  |  |
| 8 881 1 | ВК                                                                                                  |      |                        |  |  |  |

| 8 891   | Page/Toner Bottle         * BCU         [0 to 9999999 / 0 / 1]        |  |                                 |  |  |
|---------|-----------------------------------------------------------------------|--|---------------------------------|--|--|
| 0 0 7 1 | This SP displays the number of sheets output by the scan application. |  | output by the scan application. |  |  |
| 8 891 1 | ВК                                                                    |  |                                 |  |  |

|         | Page/Toner Prev1                                                                              | *BCU | [0 to 9999999/0/1]                              |
|---------|-----------------------------------------------------------------------------------------------|------|-------------------------------------------------|
| 8 901   | This SP displays the number of sheets output by the scan application with the replaced units. |      | out by the scan application with the previously |
| 8 901 1 | ВК                                                                                            |      |                                                 |

|                                                                                                                                                  | Page/Toner Prev2 | *BCU                                    | [0 to 9999999 / 0 / 1] |
|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------------------------|------------------------|
| 8 911 This SP displays the number of sheets output by the scan application replaced before the previously replaced unit (two steps back from the |                  | , , , , , , , , , , , , , , , , , , , , |                        |
| 8 911 1                                                                                                                                          | ВК               |                                         |                        |

| 8 921    | Cvr Cnt/Total   | *BCU                                                                              | [0 to 9999999 / 0 / 1] |
|----------|-----------------|-----------------------------------------------------------------------------------|------------------------|
| 8 921 1  | Coverage(%): BK | These SPs display the total coverage percentage of shee<br>output by the machine. |                        |
| 8 921 11 | Covwerage/P: Bk | These SPs display the total coverage pages output by machine.                     |                        |

|       | Machine Status         CTL         [0 to 9999999 / 0 / 1] |              |                                                                                                            |  |  |
|-------|-----------------------------------------------------------|--------------|------------------------------------------------------------------------------------------------------------|--|--|
| 8 941 |                                                           | ers who need | e machine spends in each operation mode. These<br>d to investigate machine operation for<br>ISO Standards. |  |  |

| 8 941 1 | Operation Time   | Engine operation time. Does not include time while controller is saving data to HDD (while engine is not operating).                               |
|---------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 8 941 2 | Standby Time     | Engine not operating. Includes time while controller saves<br>data to HDD. Does not include time spent in Energy Save,<br>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<br>printing. Does not include time machine remains powered off<br>with the power switches.    |
| 8 941 6 | SC               | Total down time due to SC errors.                                                                                                                  |
| 8 941 7 | PrtJam           | Total down time due to paper jams during printing.                                                                                                 |
| 8 941 8 | OrgJam           | Total down time due to original jams during scanning.                                                                                              |
| 8 941 9 | Spl PM Unit End  | Total down time due to toner end.                                                                                                                  |

| 8 999     | AdominCounter         |                                                      | CTL [0 to 9999999 / 0 / 1] |  |  |  |
|-----------|-----------------------|------------------------------------------------------|----------------------------|--|--|--|
| 0 777     | Displays the user set | Displays the user setting counter for administrator. |                            |  |  |  |
| 8 999 1   | Total                 | -                                                    |                            |  |  |  |
| 8 999 3   | Сору: ВW              | -                                                    |                            |  |  |  |
| 8 999 7   | Printer: BW           | -                                                    |                            |  |  |  |
| 8 999 10  | FaxP: BW              | -                                                    |                            |  |  |  |
| 8 999 12  | A3/DLT                | -                                                    |                            |  |  |  |
| 8 999 13  | Duplex                | -                                                    |                            |  |  |  |
| 8 999 15  | Cvr: BW %             | -                                                    |                            |  |  |  |
| 8 999 17  | Cvr: BW Pages         | -                                                    |                            |  |  |  |
| 8 999 102 | SendTtl: BW           | -                                                    |                            |  |  |  |
| 8 999 103 | FaxSend               | -                                                    |                            |  |  |  |

| 8 999 105 Fo | FaxSend: BW | - |
|--------------|-------------|---|
|--------------|-------------|---|

# **Printer Service Mode**

## Service Mode Table

| SP No. | Description     | Function and Setting                                                                                 |
|--------|-----------------|------------------------------------------------------------------------------------------------------|
| 1001   | BitSw#1 Set     | Adjusts bit switch settings.<br>Note: Currently the bit switches are not being used.                 |
| 1003   | Clear Setting   | Not used                                                                                             |
| 1004   | Print Summary   | Prints the service summary sheet<br>(An error log is printed in addition to the configuration page). |
| 1005   | Display Version | Displays the version of the controller firmware.                                                     |

## SP Modes Related to Printer Controller

The following SP modes are located in the copier SP mode. Refer to section 5.1 of the main unit service manual.

| SP No. | Description                             | Function and Setting                                                                                                                                                                |
|--------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        |                                         | Specifies whether the counter is doubled for A3/DLT.                                                                                                                                |
| 5104   | A3/DLT Double Count                     | 0: No, 1: Yes                                                                                                                                                                       |
| 3104   | AS/ DEI Double Couli                    | If ① is selected, the total counter and the current user code counter count up twice when A3 or DLT paper is used.                                                                  |
| 5801   | Memory All Clear                        | Resets data for process control and all software counters, and<br>returns all modes and adjustments to their defaults values.<br>retion "Memory Clear" in this chapter for details. |
| 5907   | Plug & Play                             | Selects the brand name and the production name for Windows<br>Plug & Play. This information is stored in NVRAM.                                                                     |
| 7832   | Detailed Display of<br>Self-Diagnostics | Displays the controller self-diagnostic result.                                                                                                                                     |

# Scanner Service Mode

## Scanner Program Mode Table

## Service Table Key

| Notation                           | What it means                                                                                                                                                                                             |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [range / <b>default</b> /<br>step] | Example: [-9 to +9 / <b>+3.0</b> / 0.1 mm step]. The setting can be adjusted in the range ±9, value reset to +3.0 after an NVRAM reset, and the value can be changed in 0.1 mm steps with each key press. |
| italics                            | Comments added for your reference.                                                                                                                                                                        |
| *                                  | This value is stored in NVRAM. After a RAM reset, the default value (factory setting) is restored.                                                                                                        |
| DFU                                | Denotes "Design or Factory Use". Do not change this value.                                                                                                                                                |

| SP1   | Mode Number         |                     | Function and [Setting]                                                                                                                                                         |
|-------|---------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1001* | 005 Scan Nv Version |                     | Displays the scanner NV version.                                                                                                                                               |
| 1004* | 001                 | Compression Type    | Selects the compression type for binary picture processing.<br>[ <b>1: MH</b> , 2: MR, 3: MMR]                                                                                 |
| 1005* | 001                 | Erase Margin        | Creates an erase margin for all edges of the scanned<br>image.<br>If the machine has scanned the edge of the original,<br>create a margin.<br>[O to 5 / <b>Omm</b> / 1mm step] |
| 1009* | 001                 | Remote scan disable | Enables or disables the remote scanner function<br>(TWAIN).<br>[ <b>O: enable</b> , 1: disable]                                                                                |

For the settings of the image quality, see the copier SP-mode table.

## **Using SP Mode**

## Memory Clear

#### **GW Machine**

The GW machine (the machine with the optional controller box) stores the engine data in the NVRAM on the BICU, and stores the other data in the NVRAM on the optional controller. To distinguish between the engine data and the other data, see SP5-801-003 through 019. This service program (SP5-801) handles the controller data. Any data that is not handled by SP5-801 is the engine data. The data in the BICU NVRAM (engine data) is cleared by SP5-998-001 while the data in the controller NVRAM (controller data) is cleared by SP5-801-xxx (for exceptions, see "").

| Machine | Data               | NVRAM      | Cleared by  | Remarks                                                                                                                                                          |
|---------|--------------------|------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | Engine data        | BICU       | SP5-998-001 | Any data other than controller data                                                                                                                              |
| GW      | Controller<br>data | Controller | SP5-801-xxx | SCS, IMH, MCS, Copier application,<br>Fax application, Printer application,<br>Scanner application, Web service/<br>network application, NCS, R-Fax,<br>DCS, UCS |

#### **Exceptions**

SP5-998-001 clears most of the settings and counters stored in the NVRAM on the BICU (the values return to their default values). However, the following settings are not cleared:

- SP5-807 (Area Selection)
- SP5-811-001 (Serial Num Input [Code Set])
- SP5-811-003 (Serial Num Input [ID2 Code Display])
- SP5-812-001 (Service TEL [Telephone])
- SP5-812-002 (Service TEL [Facsimile])
- SP5-907 (Plug & Play)
- SP7 (Data Log)
- SP8 (History)

Use SP5-998-001 after you have replaced the BICU NVRAM or when the BICU NVRAM data is corrupted. When the program ends normally, the message "Completed" is displayed. When you have replaced the

controller NVRAM or when the controller NVRAM data is corrupted, use SP5-801-001. The message is the same as the basic machine.

#### Memory Clear Procedure

- 1. Print out all SMC data lists (
   "SMC Print").
- 2. Do SP5-998-001.
- 3. Press the OK key.
- 4. Select "Execute." The messages "Execute?" followed by "Cancel" and "Execute" are displayed.
- 5. Select "Execute."
- 6. When the program has ended normally, the message "Completed" is displayed. If the program has ended abnormally, an error message is displayed.
- 7. Turn the main switch off and on.
- 8. Adjust the printer and scanner registration and magnification (
   "Copy Adjustment" in the chapter "Replacement and Adjustment").
- 9. Refer to the SMC lists, and enter any values that differ from the factory settings. Double-check the values for SP4-901.
- 10. Adjust the standard white level (SP4-428).
- 11. Initialize the TD sensor (SP 2-214).
- 12. Check the copy quality and the paper path.

#### Serial Number Input (SP5-811)

#### **Specifying Characters**

SP5-811-001 specifies the serial number. For the machine with the optional controller, you use the numeric keypad and the optional operation panel.

#### **GW Machine**

You can use the numeric keypad to type numbers. In addition, you can use the operation panel to type other characters. When you press the "ABC" key, the letter changes as follows:  $A \rightarrow B \rightarrow C$ . To input the same letter two times, for example "AA," you press the "ABC" key, the "Space" key, and the "ABC" key. To switch between uppercase letters and lowercase letters, press the "Shift" key.

#### Serial Number and NVRAM

Serial numbers are stored in the NVRAM before shipment and are not cleared. You must specify a serial number after you replace the NVRAM.

#### SMC Print (SP5-990)

SP5-990 outputs machine status lists.

- 1. Select SP5-990.
- 2. Select a menu:
  - GW machine: 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 Net File Log, 021 Copier User Program, 022 Scanner SP, 023 Scanner User Program, 040 Parts Alarm Counter Print, 064 Normal Count Print, 065 User Code Counter, 066 Key Operator Counter, 067 Contact List Print, 069 Heading1 print, 071 Heading3 print, 072 Group List Print, 128 ACC Pattern, 129 User Color Pattern, or 160:ACC Pattern Scan

#### Vote

- The output given by the menu "Big Font" is suitable for faxing.
- 3. Press the "Execute" key.
  - GW machine: The machine status list is output.
- 4. To return to the SP mode, press the 🐑 key.

## Counter-Each Paper Jam (SP7-504)

The table lists the menu numbers (the last three digits of SP7-504-XXX) and the paper jam timings and locations.

| Code |                                                                   |
|------|-------------------------------------------------------------------|
| 001  | Paper jam occurs at power on.                                     |
| 010  | Paper does not reach the registration sensor (from a paper tray). |
| 011  | Paper does not reach the relay sensor.                            |
| 012  | Paper is caught at the relay sensor.                              |
| 021  | Paper does not reach the vertical transport sensor.               |
| 022  | Paper is caught at the vertical transport sensor.                 |

| 031 | Paper does not reach the vertical transport sensor in the optional paper feed unit.              |
|-----|--------------------------------------------------------------------------------------------------|
| 032 | Paper is caught at the vertical transport sensor in the optional paper feed unit.                |
| 050 | Paper does not reach the registration sensor (from the by-pass tray).                            |
| 060 | Paper does not reach the registration sensor during reverse-side printing (for duplex printing). |
| 070 | Paper is caught at the registration sensor.                                                      |
| 120 | Paper is caught at the exit sensor (previous page).                                              |
| 121 | Paper does not reach the exit sensor.                                                            |
| 122 | Paper is caught at the exit sensor.                                                              |
| 123 | Paper does not reach the duplex inverter sensor (from the registration roller).                  |
| 125 | Paper is caught at the duplex inverter sensor.                                                   |
| 126 | Paper does not reach the duplex entrance sensor.                                                 |
| 127 | Paper is caught at the duplex entrance sensor.                                                   |
| 128 | Paper does not reach the duplex exit sensor.                                                     |
| 129 | Paper is caught at the duplex exit sensor.                                                       |
| 130 | Paper does not reach the one-bin tray.                                                           |
| 131 | Paper is caught at the one-bin tray.                                                             |
|     |                                                                                                  |

## Original Jam History Display (SP7-508)

### Viewing the Copy Jam History

You can view the information for the most recent 10 events. The information on older events is deleted automatically.

Note

- The information on jam history is saved in the NVRAM.
- 1. Select SP7-508.
- 2. Select one of the menu items ("Latest 1" through Latest 10").
- 3. Press the OK key. The summary of the jam history is displayed.

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4. To view more information, select "Detail."

#### Jam History Code

| Code | Meaning                                              |
|------|------------------------------------------------------|
| 210  | Original does not reach the registration sensor.     |
| 211  | Original caught at the registration sensor.          |
| 212  | Original does not reach the original exit sensor.    |
| 213  | Original caught at the original exit sensor.         |
| 214  | Original does not reach the original reverse sensor. |
| 215  | Original caught at the original reverse sensor.      |

## Firmware Update Procedure

This section illustrates how to update the firmware of the GW machine (the machine with the optional controller box).

To update the firmware for the GW machine, you must have the new version of the firmware downloaded onto an SD (Secure Digital) Card. The SD Card is inserted into the uppermost slot on the right side of the controller box, viewed from the back of the machine.

#### Before You Begin...

An SD card is a precision device, so always observe the following precautions when handling SD cards:

- Always switch the machine off before inserting an SD card. Never insert the SD card into the slot with the power on.
- When the power is switched on, never remove the SD card from the service slot.
- Never switch the machine off while the firmware is downloading from the SD card.
- Store SD cards in a safe location where they are not exposed high temperature, high humidity, or exposure to direct sunlight.
- Always handle SD cards with care to avoid bending or scratching them. Never drop an SD card or expose it to other shock or vibration.

Keep the following points in mind while you are using the firmware update software:

• "Upload" means to send data from the machine to the SD card, and "download" means to send data from the SD card to the machine.

- To select an item on the LCD screen, press the appropriate key on the operation panel, or press the appropriate number key on the 10-key pad of the operation panel.
- Before starting the firmware update procedure, always make sure that the machine is disconnected from the network to prevent a print job for arriving while the firmware update is in progress.

#### Firmware Update Procedure

#### Note

• Before beginning the following, first confirm which firmware version(s) are currently installed in the machine with SP7-801-255.

#### SD Card Preparation

- 1. Format an SD card with, for example, SD Formatter v1.1.
- 2. Create a "romdata" folder on the card.
- 3. Create the following folders within the "romdata" folder: D010/D327/D359, etc.
- 4. Download the firmware from the server and store the files in the folder with the corresponding model code on the SD card.

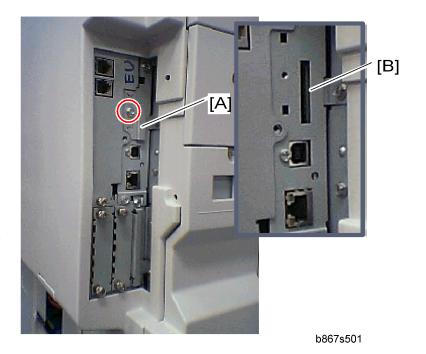
#### Example:

File D0405540B should be stored in the "D040" folder, whereas files B6585902B, B6585903B, and B6585905B should be stored in the "B658" folder.

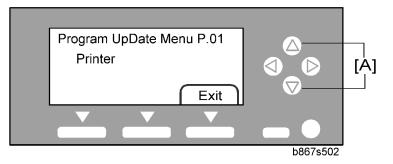
#### Firmware Update

#### Note

 It is strongly recommended to store only D010/D043 files on SD cards used for downloading to D010/D043. With the controller used on this model, a firmware update may sometimes be interrupted if there is software for multiple models stored on the same SD card.

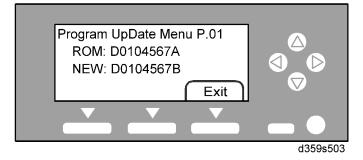


- 1. Turn off the main power switch.
- 2. If the machine is connected to a network, disconnect the network cable from the copier.
- 3. Remove the slot cover [A] ( $\hat{\mathscr{F}} \times 1$ )
- 4. With the label on the SD card facing the rear side of the machine, insert the SD card into the upper slot [B] on the controller box. Slowly push the SD card into the slot so it locks in place.
- Make sure the SD card is locked in place. (To remove the SD card, push it in to unlock the spring lock and then release it so it pops out of the slot.)
- 6. Switch the main power switch on. After about 5 seconds, the LCD will display "Please wait..." Then, about 60 seconds later, the LCD will display "Program UpDate Menu P.01" on the first line and the name of the firmware on the second line (e.g. System/Copy).



1. Press the "OK" key to select a module.

• To scroll through the menus, press the  $\Delta$  or  $\nabla$  keys [A].

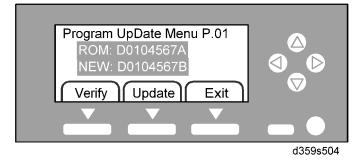


- To view the firmware version, press the right key. "ROM" is the information on the current firmware. "NEW" is the information on the firmware in the SD card.
- To return to the menu, press the ⊲ key.
- To select the module, press the OK key.
- To scroll through the module name, the serial number, and the version, press the < key or ▷ key.
- If you wish to install the following firmware simultaneously, press the START key. The scroll keys can be used to confirm that this firmware has been selected (highlighted with a dark background).

[Engine, FCU, Scanner, Printer, Printer Font, Security Module]

#### C Important

- Please note that the following firmware cannot be updated simultaneously. The update procedure must be repeated for each individually.
- System/Copy, ServiceCardNetFile, ServiceCardNIB, ServiceCardFAX, ServiceCardWebSystem.

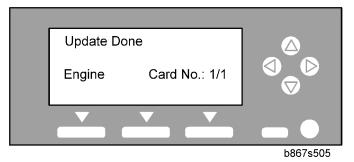


- When you have selected a module, the text lines are highlighted, and the "Verify" key and the "Update" key are displayed.
- 2. Select a module and press the "Update" key.

#### 😪 Important

• Do NOT press the "Verify" key.

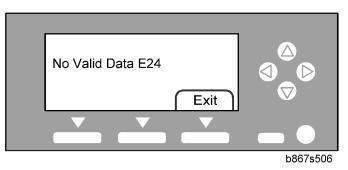
- 3. The firmware update program starts and the message "Loading" is displayed.
  - The update will begin, and then will take a few minutes to complete. The LCD will initially display, "Updating... \*\*\*------".
  - When the update is completed, the LCD display will change to "Update done" or "Updated / Power Off On".



4. Check that the message "Update Done" is displayed.

#### Confirmation

- 1. Turn the main power switch off and on.
  - The LCD will display "Please wait..." for about 60 seconds, after which it will return to the "Program UpDate Menu" screen.
- 2. Repeat Steps 1-8 above until all firmware updates are complete.
- 3. Turn the main power switch off.
- 4. Remove the SD card from the lower slot on the controller by pushing on the card to release the spring lock.



If an error occurs, the error code is displayed. For a list of information on error codes, see the following table.

| Code | Cause                             | Necessary Action                                                            |
|------|-----------------------------------|-----------------------------------------------------------------------------|
| E20  | Physical address mapping<br>error | <ul><li>Insert the SD card correctly.</li><li>Use another SD card</li></ul> |

| Code | Cause                             | Necessary Action                                                                                            |
|------|-----------------------------------|-------------------------------------------------------------------------------------------------------------|
| E22  | Decompression error               | • Store correct data in the SD card.                                                                        |
| E23  | Update program error              | <ul><li>Update controller program.</li><li>Replace the controller.</li></ul>                                |
| E24  | SD card access error              | <ul><li>Insert the SD card correctly.</li><li>Use another SD card.</li></ul>                                |
| E31  | Download data<br>inconsistency*   | <ul> <li>Insert the SD card that was used when the previous<br/>update procedure is interrupted.</li> </ul> |
| E32  | Download data<br>inconsistency*   | • Insert the SD card that stores the correct data.                                                          |
| E33  | Version data error                | • Store the correct data in the SD card.                                                                    |
| E34  | Locale data error                 | • Store the correct data in the SD card.                                                                    |
| E35  | Machine model data error          | • Store the correct data in the SD card.                                                                    |
| E36  | Module data error                 | • Store the correct data in the SD card.                                                                    |
| E40  | Engine program error**            | <ul><li>Store the correct data in the SD card.</li><li>Replace BICU.</li></ul>                              |
| E42  | Operation panel program<br>error* | <ul><li>Store the correct data in the SD card.</li><li>Replace the operation panel board.</li></ul>         |
| E44  | Controller program error*         | <ul><li>Store the correct data in the SD card.</li><li>Replace the controller board.</li></ul>              |
| E50  | Authentication error              | • Store the correct data in the SD card.                                                                    |

\*You need to reinstall the program.

If the firmware update program is interrupted (for example, by a power failure), keep the SD card inserted and turn the mains switch off and on. The firmware update program restarts. If you do not do so, the message "Reboot after Card insert" is displayed when you turn the main switch on.

## NVRAM Data Upload/Download

#### Uploading Content of NVRAM to an SD card

Follow this procedure to upload SP code settings from NVRAM to an SD card.

#### **Vote**

- This data should always be uploaded to an SD card before the NVRAM is replaced.
- Before switching the machine off, execute SP 5990-1 (SMC Print). You will need a record of the NVRAM settings if the upload fails.
- 2. Turn off the main power of the copier.
- 3. Remove the slot cover 3 (uppermost one) ( $\hat{\mathscr{F}} \times 1$ ).
- 4. Insert the SD card into the service slot 3 (uppermost one), then turn on the main power of the copier.
- 5. Execute SP 5824-1 (NVRAM Data Upload) then press the "Execute" key.
  - When uploading is finished, a file is coped to an NVRAM folder on the SD card. The file is saved to the path and filename:

#### NVRAM\<serial number>.NV

Here is an example with Serial Number "B0700017":

NVRAM\B0700017.NV

6. In order to prevent an error during the download, be sure to mark the SD card that holds the uploaded (saved) data with the number of the machine from which the data was uploaded (saved).

#### Vote

- NVRAM data from more than one machine can be uploaded (saved) to the same SD card.
- 1. Turn off the main power, and then remove the SD card from the slot 3 (the uppermost one).
- 2. Reassemble the machine.

#### Downloading an SD Card to NVRAM

Follow this procedure to download (save) SP data from an SD card to the NVRAM in the machine.

- If the SD card with the NVRAM data is damaged, or if the connection between the controller and BICU is defective, the NVRAM data download may fail.
- If the download fails, repeat the download procedure.
- 1. Turn off the main power of the copier.
- 2. Remove the slot cover 3 (the uppermost one) ( $\hat{\mathscr{F}} \times 1$ ).

- 3. Insert the SD card with the NVRAM data into the service slot 3 (the uppermost one).
- 4. Turn on the main power of the copier.
- 5. Execute SP 5825-1 (NVRAM Data Download) and press the "Execute" key.
- Turn off the main power of the copier, and then remove the SD card from the slot 3 (the uppermost one).
- 7. Reassemble the machine.

#### Vote

• In order for the NVRAM data to download successfully, the serial number of the file on the SD card must match the serial number of the machine. If the serial numbers do not match, the download will fail.

This procedure downloads (saves) the following data to the NVRAM:

- Total Count
- C/O, P/O Count

#### **Power-on Self Test**

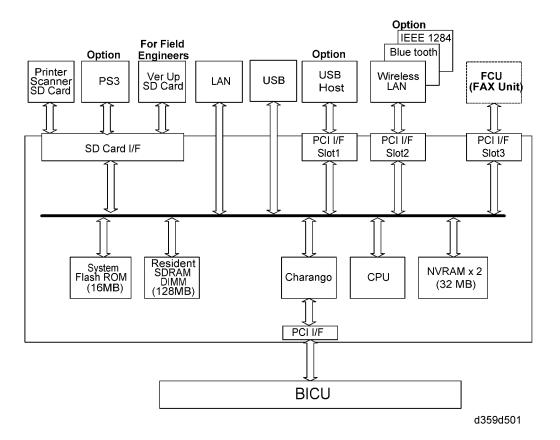
The controller tests the following devices at power-on. If an error is detected, an error code is stored in the controller board.

- CPU, ASIC and clock
- Flash ROM
- Resident and optional SDRAM
- NVRAM
- PS fonts (if installed)

4. Service Tables

# 5. Detailed Section Descriptions

## Overview



This machine uses the GW architecture. To enable printer features, install the printer option SD Card in the controller.

#### Main components:

- CPU: PMC-Sierra: RM5231A-400
- Charango: GW architecture ASIC. It controls all the functions of the controller board.
- Flash ROM: 16 MB Flash ROM for the system program
- SDRAM: On board 128 MB (resident)
- NVRAM: FRAM (SPI) 32 KB × 2
- LAN interface
- USB 2.0 interface
- SD Card: Printer/Scanner program

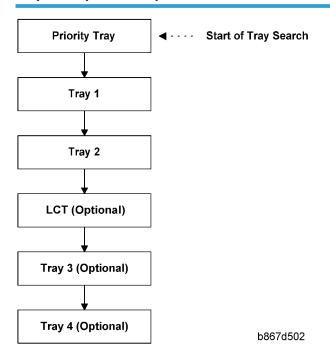
## Optional components:

- PostScript3
- Bluetooth interface
- Wireless LAN interface
- IEEE1284 interface
- USB Host

## **Controller Functions**

## **Paper Source Selection**

#### Tray Priority (Auto Tray Select)



The Tray Priority setting determines the start of the tray search when the user selects "Auto Tray Select" with the driver.

The machine searches for a paper tray with the specified paper size and type.

When no tray contains paper that matches the paper size and type specified by the driver, the controller stops printing until the user loads the correct paper.

The Tray Priority setting can be specified using the Paper Size Setting in the user tools.

(User Tools/ System Settings/ Paper Size Settings)

Note

• The by-pass tray is not part of the tray search.

#### Tray Lock

If Tray Lock is enabled for a tray, the controller skips the "locked" tray in the tray search process.

The Tray Lock setting can be specified by selecting "No" for the "Apply Auto Paper Select" setting in the Paper Size Setting screen in the user tools.

(User Tools/ System Settings/ Paper Size Settings)

#### 🕗 Note

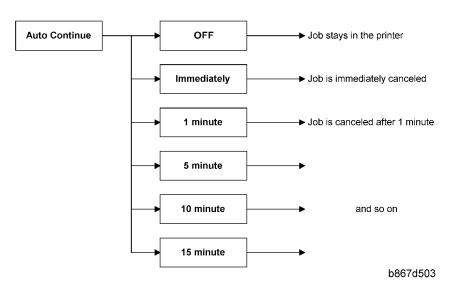
• The by-pass feeder cannot be locked.

#### **Manual Tray Select**

If the selected tray does not have the paper size and type specified by the driver, the controller stops printing until the user loads the correct paper.

### Auto Continue

5



If no paper tray matches the paper size and paper type specified by the driver:

When this function is enabled, the machine stops printing and cancels the print job if there is no paper tray which matches the paper size and paper type specified by the driver.

If Auto Continue is enabled, the machine waits for a specified period (0, 1, 5, 10, 15 minutes) for the correct size paper to be set in the tray, then cancels the print job if the interval expires.

• The interval can be set via Printer Settings in the user tools.

(User Tools/ Printer Settings/ System/ Auto Continue)

If Auto Continue is disabled, the machine will not print the job, but will not cancel it, so the job stays in the print queue.

#### Note

• The default setting for Auto Continue is "Off."

## Paper Output Tray

The default paper output tray for each application (copy/fax/printer) can be selected using the System Settings menu within User Tools.

(User Tools/ System Settings/ General Features)

If a print job does not specify an output tray or if the driver specifies the default tray, the default paper output tray is used.

#### **Output Tray Selected**

- If an output tray is specified by the driver, it overrides the default tray setting in User Tools.
- If the machine cannot print to the selected output tray, it prints to the default paper output tray.
- If the mailbox unit is installed, paper larger than B4 cannot be output to the standard (internal) tray.
- If paper overflow is detected at the selected output tray, the controller stops printing until the overflow detector indicates that the tray is no longer full.

#### Sequential Stacking

When the nine-tray mailbox is selected as the output tray and "Printer Default" is specified as the output tray in the driver, the machine automatically sends the output to the top tray (1st tray). When that tray fills up, the machine sends the output to the next tray.

This feature is called "Sequential Stacking."

- If a tray becomes full and the next tray is also full, the machine displays an error and stops printing. When the paper in the next tray is removed, the machine automatically resumes printing to the next tray.
- If all trays become full (overflow detected in all trays), the machine displays an error and stops printing. This time, all paper in all trays must be removed.

#### **Duplex Printing**

Duplex printing is available with all output bin options but not all paper sizes. If a job specifies duplex printing but the paper size to be used cannot be used by the duplex unit, the job will be printed single-sided.

• When the by-pass feeder is selected as the paper source, duplex printing is automatically disabled.

5

## **Scanner Functions**

#### Image processing for scanner mode

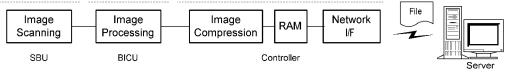
The image processing for scanner mode is done in the IPU chip on the BICU board. The IPU chip chooses the most suitable image processing methods (gamma tables, dither patterns, etc) depending on the settings made in the driver.

The image compression method can be selected with SP mode (MR/MH/MMR for binary picture processing).

Whether the user selects the image mode using the driver (TWAIN mode) or from the operation panel (Delivery mode), the IPU chip does the image processing using the appropriate image processing methods mentioned above.

#### Image Data Path

1. Image Store/Image Delivery Mode



b867d505

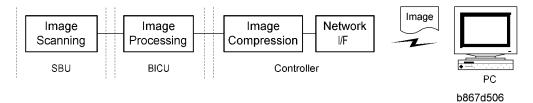
The user can select the following modes from the LCD.

• Delivery only

After image processing and image compression, all image data for the job are stored in the printer controller RAM using TIFF file or PDF file format (binary picture processing). The type of file format used depends on the user's scanner settings.

When the delivery mode is selected, the controller creates a file which contains the destination and page information, and then the controller sends the file to a server.

2. Twain Mode

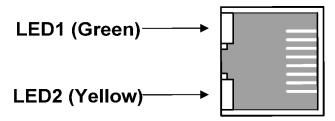


After image processing and image compression, the data (TIFF or PDF) is sent to the scanner Twain driver directory on the computer.

# Network Interface

## LED Indicators

The LEDs are on the optional controller box.



b867d507

| Description               | On           | Off          |
|---------------------------|--------------|--------------|
| LED1 (Green): Link status | Link success | Link failure |
| LED2 (Yellow): Data rate  | 100 Mbps     | 10 Mbps      |

# IEEE 802.11b (Wireless LAN)

## **Specifications**

The IEEE 802.11b wireless LAN interface card is available as an option for this machine.

A wireless LAN is a flexible data communication system used to extend or replace a wired LAN. Wireless LAN employs radio frequency technology to transmit and receive data over the air and minimize the need for wired connections.

- With wireless LANs, users can access information on a network without looking for a place to plug into the network.
- Network managers can set up or expand networks without installing or moving wires.
- Most wireless LANs can be integrated into existing wired networks. Once installed, the network treats wireless nodes like any other physically wired network component.
- Flexibility and mobility make wireless LANs both effective extensions of and attractive alternatives to wired networks.

| Standard applied:        | IEEE802.11b                                                             |                 |  |
|--------------------------|-------------------------------------------------------------------------|-----------------|--|
|                          | Speed                                                                   | Distance        |  |
|                          | 11 Mbps                                                                 | 140 m (153 yd.) |  |
| Data transmission rates: | 5.5 Mbps                                                                | 200 m (219 yd.) |  |
|                          | 2 Mbps                                                                  | 270 m (295 yd.) |  |
|                          | 1 Mbps                                                                  | 400 m (437 yd.) |  |
| Network protocols:       | TCP/IP, Apple Talk, NetBEUI, IPX/SPX                                    |                 |  |
| Bandwidth:               | 2.4GHz<br>(divided over 14 channels, 2400 to 2497 MHz for each channel) |                 |  |

#### Note

• The wireless LAN cannot be active at the same time as the Ethernet LAN. The following user tool setting determines which LAN is active: System Settings - Interface Settings - Network - LAN Type.

#### **LED Indicators**

| LED            | Description        | ON       | OFF       |
|----------------|--------------------|----------|-----------|
| LED 1 (Green)  | Link Status        | Linked   | No Link   |
| LED 2 (Orange) | Power Distribution | Power On | Power Off |

#### **Transmission Modes**

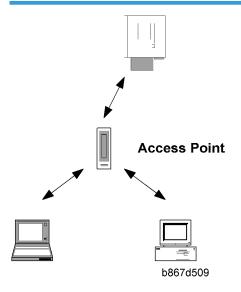
Wireless communication has two modes: 1) ad hoc mode, and 2) infrastructure mode.

### Ad Hoc Mode

The ad hoc mode allows communication between each device (station) in a simple peer-to-peer network. In this mode, all devices must use the same channel to communicate. In this machine, the default transmission mode is ad hoc mode and the default channel is 11. First, set up the machine in ad hoc mode and program the necessary settings, even if the machine will be used in the infrastructure mode.

To switch between ad hoc and infrastructure modes, use the following user tool: Host Interface Menu - IEEE802.11b - Comm Mode

#### Infrastructure Mode



The infrastructure mode allows communication between each computer and the printer via an access point equipped with an antenna and wired into the network. This arrangement is used in more complex

topologies. The wireless LAN client must use the same SSID (Service Set ID) as the access point in order to communicate.

#### **Security Features**

#### SSID (Service Set ID)

The SSID is used by the access point to recognize the client and allow access to the network. Only clients that share the same SSID with the access point can access the network.

#### Note

- If the SSID is not set, clients connect to the nearest access point.
- The SSID can be set using the web status monitor or telnet.

#### Using the SSID in Ad hoc mode

When the SSID is used in ad hoc mode and nothing is set, the machine automatically uses "ASSID" as the SSID. In such a case, "ASSID" must also be set at the client.

#### Vote

• SSID in ad hoc mode is sometimes called "Network Name."

Some devices automatically change from ad hoc mode to infrastructure mode when the same SSID is used in ad hoc mode and infrastructure mode. In such a case, to use the device in ad hoc mode, use a specified SSID in infrastructure mode and use "ASSID" in the ad hoc mode.

#### WEP (Wired Equivalent Privacy):

WEP is a coding system designed to protect wireless data transmission. In order to unlock encoded data, the same WEP key is required on the receiving side. There are 64 bit and 128 bit WEP keys. However, this machine supports only 64 bit WEP.

#### Note

• The WEP key can be set using the Web Status Monitor or Telnet.

## MAC Address:

When the infrastructure mode is used, access to the network can also be limited at the access points using the MAC address. This setting may not be available with some types of access points.

## Wireless LAN Troubleshooting Notes

#### **Communication Status**

Wireless LAN communication status can be checked with the UP mode "W.LAN Signal" in the Maintenance menu. This can also be checked using the Web Status Monitor or Telnet.

The status is described on a simple number scale.

| Status Display | Communication Status |
|----------------|----------------------|
| Good           | 76 <sup>~</sup> 100  |
| Fair           | 41 ~ 75              |
| Poor           | 21 ~ 40              |
| Unavailable    | 0~20                 |

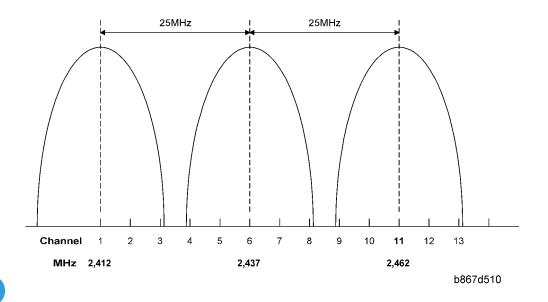
#### • Note

• Communication status can be measured only when the infrastructure mode is being used.

#### **Channel Settings**

If a communication error occurs because of electrical noise, interference with other electrical devices, etc., you may have to change the channel settings.

To avoid interference with neighboring channels, it is recommended that you use a channel separated from another in use by 3 channels. For example, if there are problems using channel 11 (default), try using channel 8.



### **Troubleshooting Procedure**

If there are problems using the wireless LAN, check the following.

- 1. Check the LED indicator on the wireless LAN card.
- Check if "IEEE802.11b" is selected in the following user tool: Host Interface menu Network Setup
   - LAN Type.
- 3. Check if the channel settings are correct.
- 4. Check if the SSID and WEP are correctly set.

If infrastructure mode is being used,

- 1. Check if the MAC address is properly set.
- 2. Check the communication status.
- If the communication status is poor, bring the machine closer to the access point, or check for any
  obstructions between the machine and the access point. If the problem cannot be solved, try changing
  the channel setting.

# Bluetooth

## Specifications

Bluetooth wireless provides radio links between mobile computers, mobile phones and other portable handheld devices.

Bluetooth contains the following features.

- Cheaper compared to the IEEE802.11b wireless LAN.
- Many protocols for infrared transmission (IrDA) can be used with Bluetooth.
- A Bluetooth device can connect to other Bluetooth devices without any settings.

|                                       | Standard applied: Bluetooth 1.1 (Bluetooth Special Interest Group) |                                                 |  |
|---------------------------------------|--------------------------------------------------------------------|-------------------------------------------------|--|
|                                       | Data transfer rates:                                               | 1 Mbps                                          |  |
| Bandwidth: 2.4GHz Frequency Hopping S |                                                                    | 2.4GHz Frequency Hopping Spread Spectrum (FHSS) |  |

### Piconet:

Bluetooth devices communicate with other Bluetooth devices in the ad hoc mode. This network is called a "Piconet". A Piconet may contain a maximum of 8 Bluetooth devices.

There is one master device and seven slave devices in a Piconet. The master device controls the hopping frequency and timing, as well as storing the ID codes of the slave devices. The master and slave devices can be swapped. Once the master device leaves the Piconet, a slave device becomes the new master.

Machines with the Bluetooth option become potential slave devices to connect to a PC.

### FHSS (Frequency Hopping Spread Spectrum):

The Bluetooth device divides 2402 to 2480 MHz into 79 channels of 1 MHz width, and changes the channel 1600 times per second. If other devices in the LAN are using the same radio band, Bluetooth can avoid interference from the other devices.

### **Bluetooth Profiles**

A Bluetooth device will not operate if it is located overly close to another Bluetooth device. However, the Bluetooth device should support the protocols to communicate with each other. There are many types of Bluetooth and service protocols. These are listed below.

Here are 14 profiles for Bluetooth, as follows.

- Generic Access Profile
- Service Discovery Profile
- Cordless Telephony Profile
- Intercom Profile
- Serial Port Profile
- Headset Profile
- Dial-up Networking Profile
- Fax Profile
- LAN Access Profile
- Generic Object Exchange Profile
- Object Push Profile
- File Transfer Profile
- Synchronization Profile
- Hardcopy Cable Replacement Profile

Serial Port Profile (SPP) and Hardcopy Cable Replacement Profile (HCRP) are used for the printer products. SPP is used in place of the serial port, while HCRP is used in place of the parallel port.

### **Bluetooth Security Features**

### Public and Private Mode.

A computer can browse Bluetooth devices. The machine's default is public mode. A computer cannot browse the machine if it has been changed to private mode.

#### PIN Code (Personal Identification Number).

When the PIN code is used, a computer connects to the device that sent the PIN code. The PIN code is a 4 digit number. This machine uses the last four digits of the machine's serial number. It cannot be changed.

# **Specifications**

USB connectivity is provided as an option for this machine.

| Interface:  | USB 1.1, USB 2.0                                                                                                   |
|-------------|--------------------------------------------------------------------------------------------------------------------|
| Data rates: | 480 Mbps (high speed), 12 Mbps (full speed), 1.5 Mbps (low speed)<br>High speed mode is only supported by USB 2.0. |

### USB 1.1/2.0

USB (Universal Serial Bus) offers simple connectivity for computers, printers, keyboards, and other peripherals. In a USB environment, terminators, device IDs (like SCSI), and DIP switch settings are not necessary.

USB 1.1 provides the following features:

- Plug & Play. As soon as a new device is connected via USB, the operating system recognizes it, and the appropriate driver is installed for it automatically if the driver is available. If the driver is not available, a message prompts the user for the driver disk for immediate installation.
- Hot swapping (cables can be connected and disconnected while the computer and other devices are switched on)
- No terminator or device ID required
- Data rates of 12 Mbps (full speed), and 1.5 Mbps (low speed)
- Common connectors for different devices
- Bi-directional data communication between device and host computer via a 4-byte header and DEVICE ID.

USB 2.0 is an evolution of the USB 1.1 specification. It uses the same cables, connectors, and software interfaces so the user will see no change. It provides an easy-to-use connection to a wide range of products with a maximum data rate of 480 Mbps (high speed).

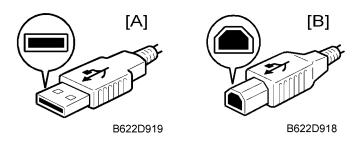
Up to 127 devices can be connected and 6 cascade connections are allowed. Power is supplied from the computer and the maximum cable length is 5 m.

### **USB** Connectors

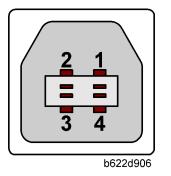
USB is a serial protocol and a physical link, which transmits all data on a single pair of wires. Another pair provides power to downstream peripherals. The USB standard specifies two types of connectors, type "A"

USB

connectors for upstream connection to the host system, and type "B" connectors for downstream connection to the USB device.



## **Pin Assignment**



The controller has a type "B" receptacle.

| Pin No. | Signal Description | Wiring Assignment |
|---------|--------------------|-------------------|
| 1       | Power              | Red               |
| 2       | Data –             | White             |
| 3       | Data +             | Green             |
| 4       | Power GND          | White             |

### Remarks about USB

- The machine does not print reports specifically for USB.
- Only one host computer is allowed for the USB connection.
- After starting a job using USB, do not switch the printer off until the job has been completed. When a user cancels a print job, if data transmitted to the printer has not been printed at the time of cancellation, the job will continue to print up to the page where the print job was cancelled.

• When the controller board is replaced, the host computer will recognize the machine as a different device.

### **Related SP Mode**

"USB Settings" in the printer engine service mode. Data rates can be adjusted to full speed fixed (12 Mbps). This switch may be used for troubleshooting if there is a data transfer error using the high speed mode (480 Mbps).

Data rates can also be adjusted using the UP mode "USB Setting" in the Host Interface in the System menu. This mode can be accessed only when the "Enter", "Escape", then "Menu" keys are pressed to enter the UP mode.

USB

# **General Specifications**

# Printer

| Printing Speed:      | Maximum 25 ppm (A4/LT LEF)                                                                                                                                                                                    |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Printer Languages:   | PCL6/PCL5e<br>PostScript 3 (option)<br>RPCS (Refined Printing Command Stream) - an original Ricoh PDL)                                                                                                        |
| Resolution:          | 600 dpi (PCL 6/PCL5e/PS3/RPCS)<br>300 dpi (PCL6 PCL5e/PS3)<br>200 dpi (RPCS)                                                                                                                                  |
| Resident Fonts:      | PCL:<br>35 Intellifonts<br>10 True Type fonts<br>PS3:<br>136 fonts (24 Type 2 fonts, 112 Type 14 fonts)                                                                                                       |
| Host Interfaces:     | USB 2.0 interface (standard)<br>Ethernet (100 Base-TX/10 Base-T) (standard)<br>Bi-directional IEEE1284 parallel x 1 (option)<br>IEEE802.11 (Wireless LAN) (option)<br>Bluetooth (option)<br>USB Host (option) |
| Network Protocols:   | TCP/IP, IPX/SPX, AppleTalk, SMB                                                                                                                                                                               |
| Memory:              | 128 MB + 256 MB (RAMM DIMM)                                                                                                                                                                                   |
| Supported Paper Size | See the copier service manual.                                                                                                                                                                                |

# Scanner

| Standard Scanner<br>Resolution:         | Main scan/Sub scan<br>600 dpi                                                                                    |  |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------|--|
| Available scanning<br>Resolution Range: | Twain Mode:<br>100 to 600 dpi<br>E-mail/Network Delivery Scanner:<br>100 dpi, 200 dpi, 300 dpi, 400 dpi, 600 dpi |  |
| Scanning Throughput:                    | 40 spm for Delivery mode<br>(A4L, ADF mode)                                                                      |  |
| Interface:                              | Ethernet (100 Base-TX/10 Base-T for TCP/IP),<br>IEEE 802.11b (Wireless LAN)                                      |  |
| Compression Method:                     | Binary: TIFF (MH, MR, MMR)                                                                                       |  |

# **Software Accessories**

### Printer

The printer drivers and utility software are provided on one CD-ROM. An auto-run installer allows you to select which components to install.

### **Printer Drivers**

| Printer Language | Windows<br>95/98/ME | Windows NT4.0 | Windows 2000/<br>XP/2003 | Macintosh OS8.6<br>to 9.x/10.1 or<br>later |
|------------------|---------------------|---------------|--------------------------|--------------------------------------------|
| PCL 6            | Yes                 | Yes           | Yes                      | No                                         |
| PCL 5e           | Yes                 | Yes           | Yes                      | No                                         |
| PS3              | Yes                 | Yes           | Yes                      | Yes                                        |
| RPCS             | Yes                 | Yes           | Yes                      | No                                         |

### Note

- The printer drivers for Windows NT 4.0 are only for the Intel x86 platform. There is no Windows NT 4.0 printer driver for the PowerPC, Alpha, or MIPS platforms.
- The PS3 drivers are all genuine AdobePS drivers, except for Windows 2000, which uses Microsoft PS. A PPD file for each operating system is provided with the driver.

### **Utility Software**

| Software                                                      | Description                                                                                         |
|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Agfa Font Manager<br>(Win 95/98/ME, NT4, 2000,<br>XP)         | A font management utility with screen fonts for the printer.                                        |
| SmartNetMonitor for Admin<br>(Win 95/98/ME, NT4, 2000,<br>XP) | A printer management utility for network administrators. NIB setup<br>utilities are also available. |

| Software                                                          | Description                                                                                                                         |  |  |
|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--|--|
| SmartNetMonitor for Client<br>(Win 95/98/ME, NT4, 2000,<br>XP)    | A printer management utility for client users. Peer-to-peer printing utility and parallel/recovery printing functions are included. |  |  |
| LAN-Fax<br>(Win 95/98/ME, NT4, 2000,<br>XP)                       | PC LAN FAX driver                                                                                                                   |  |  |
| Bitmap Installer<br>(Win 95/98/ME, NT4, 2000,<br>XP)              | -                                                                                                                                   |  |  |
| Install Manager<br>(Win 95/98/ME, NT4, 2000,<br>XP)               | -                                                                                                                                   |  |  |
| Install Manager Configuration<br>(Win 95/98/ME, NT4, 2000,<br>XP) | -                                                                                                                                   |  |  |
| Printer Utility for Mac                                           | This software provides several convenient functions for printing from Macintosh clients.                                            |  |  |

# SCANNER

The scanner driver and utility software are provided on one CD-ROM.

### **Scanner Driver**

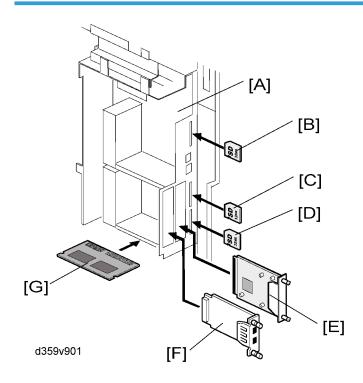
Network Twain Driver for Win95/98/ME/NT3.51/NT4.0/2000

### **Scanner Utilities**

- Scan Router V2 Lite (Cherry-Lite) for Win95/98/ME/NT4.0/2000/XP
- Desk Top Binder V2 Lite (Plumeria-Lite) for Win95/98/ME/NT4.0/2000/XP

# Machine Configuration

# System Components



| ltem                 | Machine Code |     | Remarks                                      |
|----------------------|--------------|-----|----------------------------------------------|
| GW Board             | D327         | [A] | Required to install the printer/scanner unit |
| Printer/Scanner unit | D359-17      | [D] | -                                            |
| RAM DIMM             | _            | [G] | Distributed with the GW controller           |
| PostScript 3         | D359-00      | [C] | -                                            |
| VM Card              | G874         | [B] | -                                            |
| IEEE 1284            | B679         | [E] |                                              |
| Wireless LAN         | G813         | [E] | One from the five                            |
| Bluetooth            | B826         | [E] |                                              |

| ltem           | Machine Code |     | Remarks |
|----------------|--------------|-----|---------|
| Embedded RCG-M | B818         | [E] |         |
| NRS Cumin-M    | B818         | [E] |         |
| USB Host       | B825         | [F] | -       |