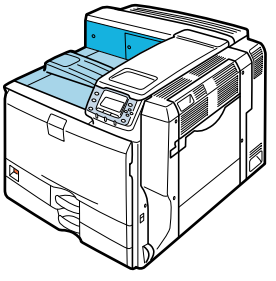
Operating Instructions

Hardware Guide



1 Guide to the Printer

2 Installing Options

3 Connecting the Printer Cables

4 Configuration

5 Paper and Other Media

6 Replacing Consumables

7 Cleaning the Printer

8 Adjusting the Printer

9 Troubleshooting

10 Removing Misfed Paper

11 Appendix

Read this manual carefully before you use this machine and keep it handy for future reference. For safe and correct use, be sure to read the Safety Information before using the machine.

Introduction

This manual contains detailed instructions and notes on the operation and use of this printer. For your safety and benefit, read this manual carefully before using the printer. Keep this manual in a handy place for quick reference. For safe and correct use, be sure to read the "Safety Information" before using the machine.

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  Microsoft® Windows® 2000 Advanced Server
  Microsoft® Windows® 2000 Server
  Microsoft® Windows® 2000 Professional
* The product names of Windows XP are as follows:
  Microsoft® Windows® XP Professional
  Microsoft® Windows® XP Home Edition
* The product names of Windows Vista are as follows:
  Microsoft® Windows Vista® Ultimate
  Microsoft® Windows Vista® Enterprise
  Microsoft® Windows Vista® Business
  Microsoft® Windows Vista® Home Premium
  Microsoft® Windows Vista® Home Basic
* The product names of Windows Server 2003 are as follows:
  Microsoft® Windows Server® 2003 Standard Edition
  Microsoft® Windows Server® 2003 Enterprise Edition
  Microsoft® Windows Server® 2003 Web Edition
* The product names of Windows Server 2003 R2 are as follows:
  Microsoft® Windows Server® 2003 R2 Standard Edition
  Microsoft® Windows Server® 2003 R2 Enterprise Edition
  Microsoft® Windows Server® 2003 R2 Web Edition
* The product names of Windows Server 2008 are as follows:
  Microsoft® Windows Server® 2008 Standard
  Microsoft® Windows Server® 2008 Enterprise
  Microsoft® Windows Server® 2008 Datacenter

Some illustrations in this manual might be slightly different from the machine.

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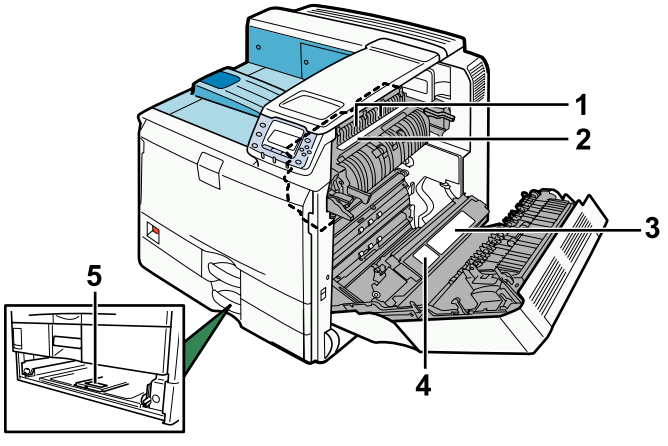
Positions of WARNING and CAUTION Labels

This machine has labels for ⚠WARNING and ⚠CAUTION at the positions shown below. For safety, please follow the instructions and handle the machine as indicated.



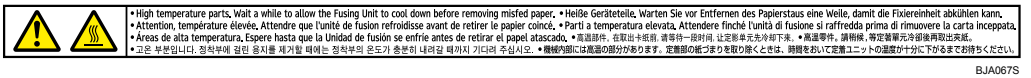
BMW036S

1

BJA052S

Do not touch the parts a label indicates. The inside of the machine could be very hot. Caution should be taken when removing misfed paper.

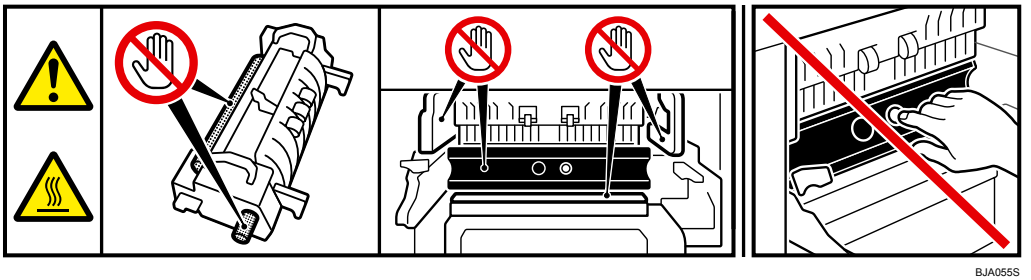
2



BJA067S

High temperature parts. Wait a while to allow the Fusing Unit to cool down before removing misfed paper.

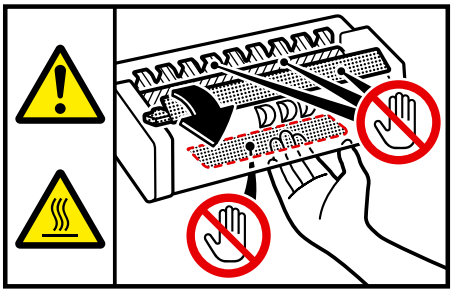
3



BJA055S

Do not touch the parts a label indicates. The inside of the machine could be very hot. Caution should be taken when removing misfed paper.

4



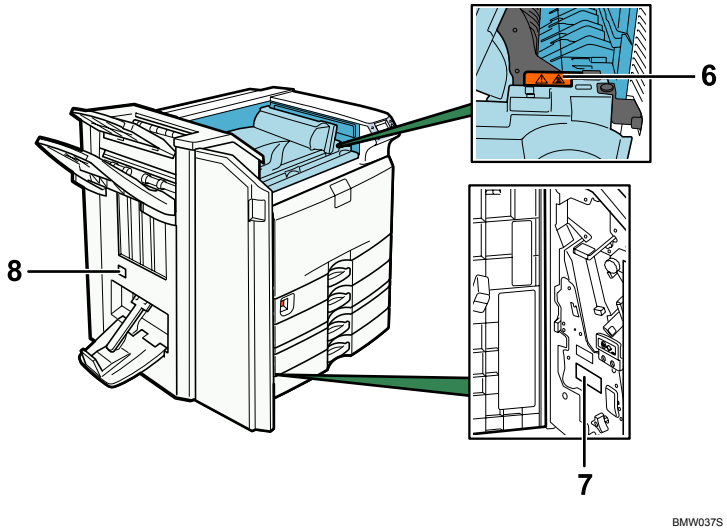
BJA065S

Do not touch the parts a label indicates. The inside of the machine could be very hot. Caution should be taken when removing misfed paper.

5

BJA046S

The inside of the machine could be very hot. Do not touch the parts which a label is put on. Otherwise, an injury might occur.



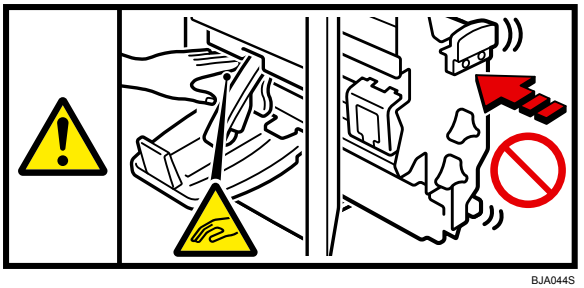
BMW037S

6

BJA066S

Do not touch! Surface may be very hot.

7



BJA044S

Keep your hands clear of the booklet finisher tray when pulling out or pushing in the finisher's staple unit, or removing paper jam. You might trap your fingers if you do not. Take care not to touch the booklet finisher tray during operation. Otherwise, an injury might occur.

8

BJA043S

Keep your hands clear of the booklet finisher tray when pulling out or pushing in the finisher's staple unit, or removing paper jam. You might trap your fingers if you do not.

Manuals for This Printer

Refer to the manuals that are relevant to what you want to do with the printer.

Important

- **Media differ according to manual.**
- **The printed and electronic versions of a manual have the same contents.**
- **Adobe Acrobat Reader/Adobe Reader must be installed in order to view the manuals as PDF files.**
- **A Web browser must be installed in order to view the html manuals.**

Safety Information

Contains information about safe usage of this printer.

To avoid injury and prevent damage to the printer, be sure to read this.

Quick Installation Guide

Contains procedures for removing the printer from its box, connecting it to a computer, and installing its driver.

Hardware Guide (This manual)

Contains information about paper and procedures such as installing options, replacing consumables, responding to error messages, and resolving jams.

Software Guide

Contains information about using this printer, its software, and its security functions.

Security Guide

Contains information for administrators of the printer. It explains security functions that the administrators can use to prevent data tampering or unauthorized use of the printer. Also refer to this manual for the procedure for registering an administrator, as well as setting user and administrator authentication.

UNIX Supplement

For "UNIX Supplement", please visit our Web site or consult an authorized dealer.

This manual includes descriptions of functions and settings that might not be available on this printer.

Note

- Manuals provided are specific to machine types.

How to Read This Manual

Symbols

This manual uses the following symbols:

⚠WARNING

Indicates important safety notes.

Ignoring these notes could result in serious injury or death. Be sure to read these notes. They can be found in the “Safety Information” section of this manual.

⚠CAUTION

Indicates important safety notes.

Ignoring these notes could result in moderate or minor injury, or damage to the machine or to property. Be sure to read these notes. They can be found in the “Safety Information” section of this manual.

Important

Indicates points to pay attention to when using the machine, and explanations of likely causes of paper misfeeds, damage to originals, or loss of data. Be sure to read these explanations.

Note

Indicates supplementary explanations of the machine's functions, and instructions on resolving user errors.

Reference

This symbol is located at the end of sections. It indicates where you can find further relevant information.

[ ]

Indicates the names of keys that appear on the machine's display panel.

[ ]

Indicates the names of keys on the machine's control panel.

Model-Specific Information

In this manual, the following symbols indicate information that relates to a specific printer model.

220-240V

This indicates information about the 220 to 240 V model printer.

Read if you have purchased this model.

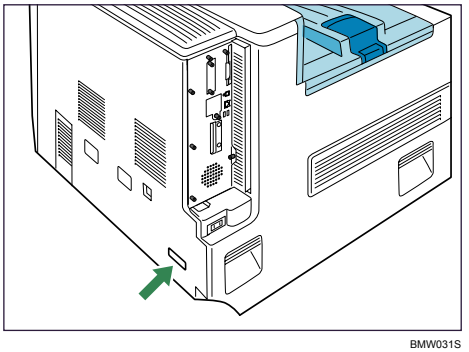
120V

This indicates information about the 120 V model printer.

Read if you have purchased this model.

Note

- Check the label on the rear of the printer to identify the printer's model.



BMW031S

List of Options

This section provides a list of options for this printer, and how they are referred to as in this manual.

Some printer models have a hard disk installed by default. In this manual, the models with the hard disk drive are referred to as the HDD standard model. The models for which the hard disk drive is optional are referred to as the Basic model.

Option name	Referred to as
IEEE802.11a/g Interface Unit Type J IEEE802.11g Interface Unit Type K	Wireless LAN interface board
Memory Unit Type J 256 MB Memory Unit Type J 512 MB	SDRAM module
Printer Hard Disk Drive Type 820	Hard disk
Gigabit Ethernet Type B	Gigabit Ethernet board
IEEE 1284 Interface Board Type A	IEEE 1284 interface board
Bluetooth Interface Unit Type 3245	Bluetooth interface unit
HDD ENCRYPTION UNIT Type D	HDD encryption unit
Data Overwrite Security Unit Type M	Data overwrite security unit
Camera Direct Print Card Type F	Camera direct print card
SD card for NetWare printing Type A	NetWare card
VM Card Type K	VM card
Finisher SR3030	2 tray finisher
Booklet Finisher SR3000	Booklet finisher
Punch Unit Type 3260 NA 3/2 Punch Unit Type 3260 EU 2/4 Punch Unit Type 3260 SC	Punch unit
Output Jogger Unit Type 3260	Output jogger unit
Paper Feed Unit PB3080	500-sheet paper feed unit
Paper Feed Unit PB3040	1000-sheet paper feed unit

Option name	Referred to as
LCIT PB3050	2000-sheet paper feed unit
Bridge Unit BU3030	Bridge unit
Punch Kit PU3000 NA Punch Kit PU3000 EU Punch Kit PU3000 SC	Punch kit
Mail Bin Type C820	Mailbox

Installing the Operating Instructions

This section explains how to use HTML format manuals.

Installing the HTML Format Manuals

The supplied "Manuals" CD-ROMs contain HTML format manuals. For easy access, we recommend you install the manuals on a computer.

Important

- The system requirements for installing the manuals are as follows:
  - Minimum display resolution: 800 × 600 pixels
- Recommended browsers:
  - Microsoft Internet Explorer 4.01 SP2 or later
  - Netscape 6.2 or later
- Non-recommended browsers can display the simplified manual only.
- If you are using a Macintosh, click [Read HTML manuals] to view manuals.

1. Select a language and a product, and then click [OK].
2. Click [Install manuals].

   If you want to read manuals from the CD-ROM, click [Read HTML manuals].
3. Install the manual you require according to the displayed instructions.
4. When installation is complete, click [Finish].
5. Click [Finish].

Note

- Depending on the printer model, PDF manuals may be supplied in the CD-ROM. To open PDF manuals, click [Read PDF manuals] in step 2.
- If you cannot install a manual, copy the "MANUAL_HTML" folder to your computer's hard drive, and then run "Setup.exe".
- To delete an installed manual, on the [Start] menu, point to [All Programs], then [Product Name], and then click [Uninstall]. Follow the instructions to delete the manual.

Opening the HTML Format Manuals

This section explains how to open the HTML format manuals.

Opening from the Icon

This section explains how to open a manual using its desktop icon.

1. **Double-click the icon on your desktop.**

   The browser opens and the manual appears.

Opening from the [Start] Menu

This section explains how to open a manual from the [Start] menu.

1. **On the [Start] menu, point to [All Programs] (for operating systems other than Windows XP: [Programs]), then [Product Name], and then click the manual you want to view.**

   The browser opens, and then the manual appears.

Note

- Depending on the settings made during installation, menu folder names may differ.

Opening from the CD-ROM

This section explains how to open a manual from the supplied "Manuals" CD-ROM.

1. **Click [Read HTML manuals].**
2. **Click the title of the manual you want to view.**

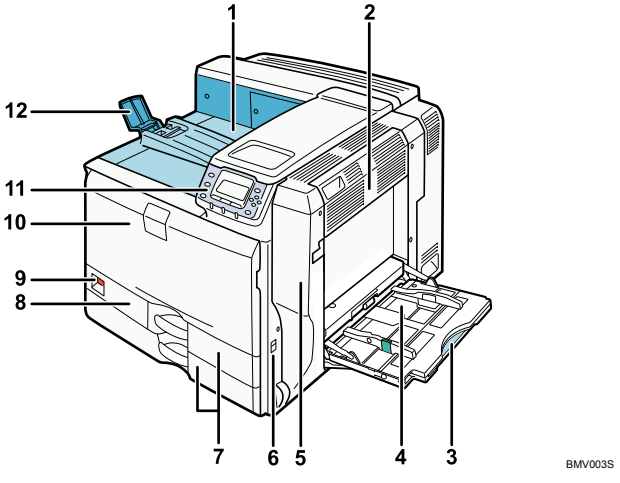
   The browser opens, and then the manual appears.

1. Guide to the Printer

This chapter explains the names and functions of the printer's components.

Exterior: Front View

This section explains names and functions of the parts on the front and right side of the printer.



1. **Standard Output Tray**

   Printed pages are output here.

2. **Upper Right Cover**

   Open this cover to remove jammed paper.

3. **Bypass Tray**

   Up to 100 sheets of plain paper can be loaded.

4. **Bypass Tray Extension**

   When loading paper larger than A4, pull out the bypass tray extension. For details about the sizes and types of paper that can be used, see "Supported Paper for Each Tray".

5. **Right Cover**

   Open this cover to replace the fusing unit and transfer roller, or to remove jammed paper.

6. **Handle**

   Pull out this handle when lifting the printer.

7. **Tray 1, Tray 2**

   Up to 550 sheets of paper can be loaded in each tray, when using plain paper.

   In this manual, tray 1, tray 2, the optional 500-sheet paper feed unit tray, and the 1000-sheet paper feed unit trays (trays 3 to 5) are collectively referred to as 500-sheet trays.

8. **Left Front Cover**

   Open this cover when replacing the waste toner bottle. The waste toner bottle collects toner that is left over during printing.

   If the "Waste Toner Bottle full" message appears on the display, replace the waste toner bottle.

9. **Power Switch**

   Use this switch to turn the power on or off.

   Perform the shutdown procedure before turning the power off. For details about how to shut down the printer, see "Power on and off".

10. **Front Cover**

    Open this when replacing the toner, black drum unit/color drum units or transfer unit.

11. **Control Panel**

    Contains keys for printer control and a display that shows printer status.

12. **Paper Support**

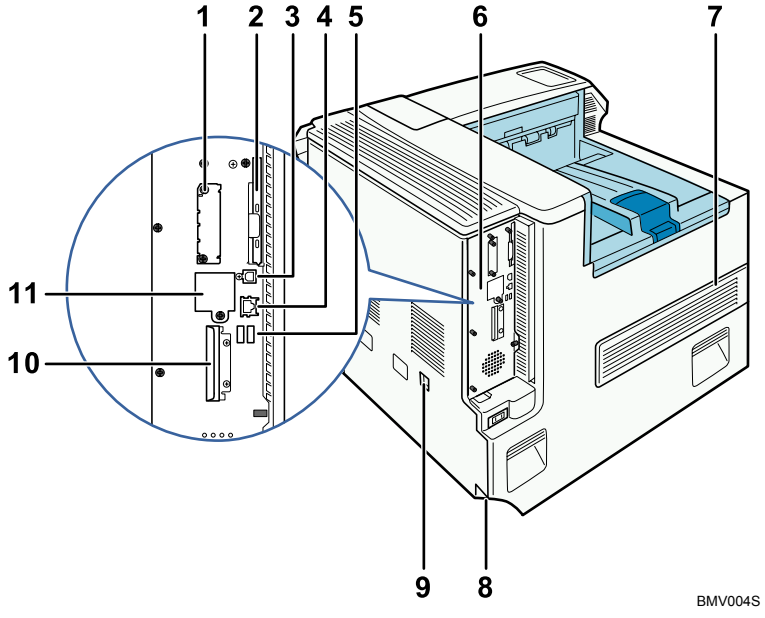
    Extend the paper support when printing to paper larger than A3.

Reference

- p.25 "Power on and off"
- p.101 "Supported Paper for Each Tray"

Exterior: Side View

This section explains names and functions of the parts on the rear side of the printer.



1. **Optional Interface Board Slot**

   Optional interface boards can be inserted.

   Insert an optional IEEE 802.11 wireless interface unit, Bluetooth interface unit or IEEE 1284 interface board.

2. **Expansion Card Slots**

   Remove the cover to install SD cards.

   Upper slot: Data overwrite security unit, camera direct print card, NetWare card

   Lower slot: HDD encryption unit, VM card

3. **USB Port B**

   Use a USB cable to connect the printer to a host computer.

4. **Ethernet Port**

   Use a network interface cable to connect the printer to the network.

5. **USB Port A**

   Connect external devices to the printer, such as a digital camera.

6. **Controller Board**

   Slide this out to install options such as the SDRAM module, hard disk, or Gigabit Ethernet board.

7. **Ventilator**

   Releases heat from internal components to prevent overheating. Do not place objects against or near these holes. Doing so results in printer malfunction.

Replace the dustproof filter when the "Replace IntTrans Unit soon." message appears on the display. Replace it with the transfer unit together.

8. **Power Connector**

   Connect the power cable to the printer. Insert the other end into an electrical outlet.

9. **Drying Heater Switch**

   If the paper in the paper tray is moist due to high humidity, the print quality may decrease. The drying heater prevents moisture. If humidity is high, turn the switch on.

10. **Handle**

    Hold this handle when you pull out the controller board.

11. **Optional Gigabit Ethernet Board Slot**

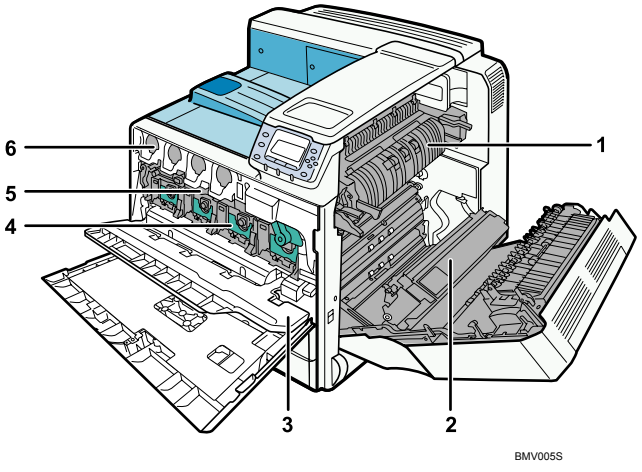
    By removing this cover and installing the optional Gigabit Ethernet board, you can connect an Ethernet cable to the printer.

Note

- A hard disk is pre-installed in the HDD standard model.

Interior

This section explains names and functions of the parts inside of the printer.



1. **Fusing Unit**

   Replace the fusing unit when the following messages appear:

   - "Replace Fusing Unit."

   Replace the fusing unit and the transfer roller together.

2. **Transfer Roller**

   Replace the transfer roller when the following messages appear:

   - "Replace Fusing Unit."

   Replace the transfer roller and the fusing unit together.

3. **Inner Cover**

   Open this cover when replacing the black drum unit/color drum units or transfer unit.

4. **Black Drum Unit/Color Drum Units**

   From the left, the drum units are installed in the order of yellow (Y), cyan (C), magenta (M), and black (K). Replace the relevant black drum unit/color drum units when the following messages appear:

   - "Replace PCU:Black."
   - "Replace PCU:Color."

5. **Transfer Unit**

   Replace the transfer unit when the following messages appear:

   - "Replace IntTrans Unit soon."
   - "Replace IntTrans Unit."

6. **Toner**

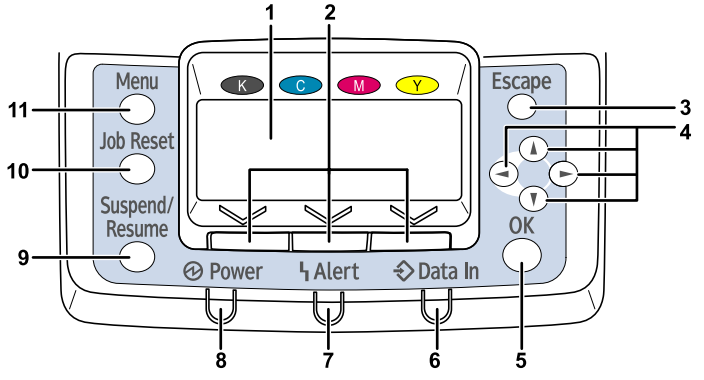
   From the left, the toner is installed in the order of black (K), yellow (Y), cyan (C), and magenta (M).

Replace the relevant toner when the following messages appear:

- "Out of toner."
- "Add toner<K,C,M,Y>"

Control Panel

This section explains names and usage of the parts of the control panel.



1. **Display**

   Displays current printer status and error messages.

   Entering energy saver mode turns off the back light. For details about energy saver mode, see Software Guide.

2. **Selection Keys**

   Correspond to the function items shown on the bottom line of the display.

3. **[Escape] Key**

   Press this key to return to the previous display.

4. **Scroll Keys**

   Press to move the cursor in each direction.

   When the [▲] [▼] [◀] [▶] keys appear in this manual, press the scroll key of the same direction.

5. **[OK] Key**

   Use this key to confirm settings, or setting values, or move to the next menu level.

6. **Data In Indicator**

   Blinks when the printer is receiving data from a computer. Lights up if there is data to be printed.

7. **Alert Indicator**

   Lights up in red or yellow when a printer error occurs.

   Red: printing is not possible/possible but print quality cannot be ensured.

   Yellow: printer requires maintenance, such as replacing consumables, shortly.

   Follow the instructions that appear on the display.

8. **Power Indicator**

   Remains lit while the power is on. It is unlit when the power is off or while the printer is in energy saver mode.

9. **[Suspend/Resume] Key**

   Press this key to suspend a print job. The key lights up while the job is suspended. To resume the job, press this key again.

10. **[Job Reset] Key**

    Press this key to cancel an ongoing print job.

11. **[Menu] Key**

    Press this key to configure and check the current printer settings.

    While configuring settings, press this key to return to the initial screen.

Power on and off

This section explains how to turn on or off the printer's power.

⚠WARNING

- It is dangerous to handle the plug with wet hands. Doing this may result in receiving an electric shock.

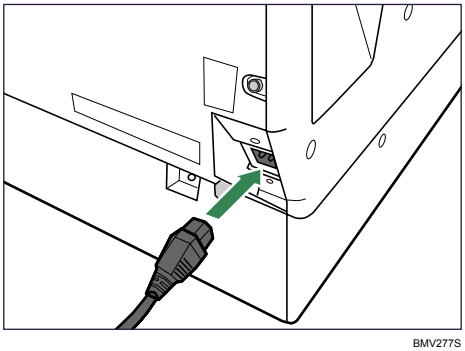
Important

- **Do not turn off the power switch before following the shutdown procedure shown here. Doing so can result in damage to the hard disk or memory, leading to malfunction.**
- **Do not physically disturb the printer while printing is in progress. Doing so may damage the printer.**

Turning on the Power

This section explains how to turn on the printer's power.

1. **Make sure the power switch is set to Off.**
2. **Plug the power cord into the rear of the printer.**

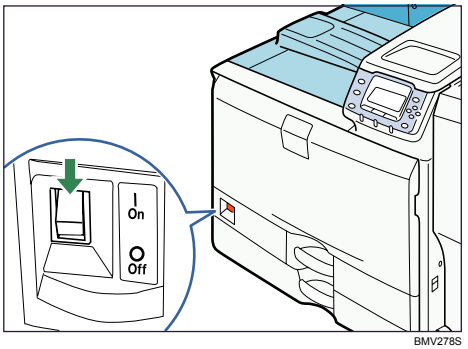


BMV277S

Make sure the power cord is plugged securely into the wall outlet.

Turn the power switch off when plugging and unplugging the power plug.

3. **Turn the power switch on.**



BMV278S

The power indicator on the control panel lights up.

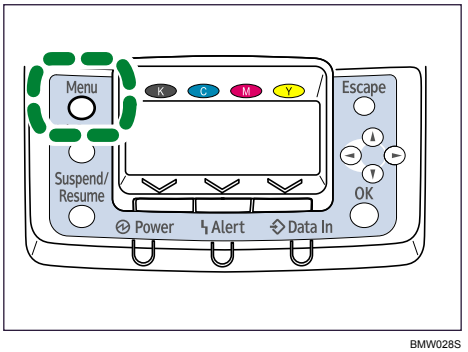
Note

- Wait until "Ready" appears on the display panel.
- The machine may make a noise while initializing. This noise does not indicate a malfunction.

Turning off the Power

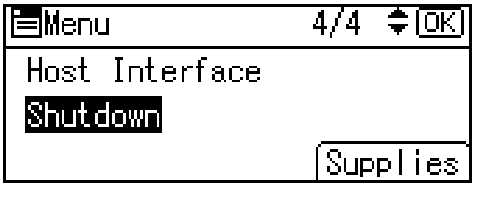
This section explains how to turn off the printer's power.

1. **Press the [Menu] key.**

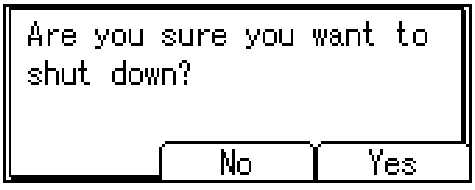


BMW028S

2. **Press the [▼] or [▲] key to select [Shutdown], and then press the [OK] key.**



3. **Press [Yes].**



4. **Wait until a screen prompting you to turn off the main power appears, then turn off the main power switch.**

Note

- Even if you follow the shutdown procedure, the machine might not shutdown in the following cases:
  - If it is communicating with external devices.
  - If the hard disk is active.
  - If the printer's cover is opened.

Display Panel

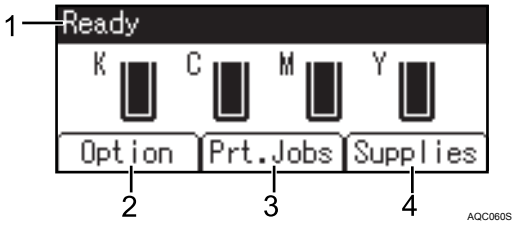
This section explains configuration using the initial screen of the display panel.

The items are highlighted when selected.

Important

- **Do not touch the display panel.**

The following screen appears when you turn on the printer.



1. **Operational Status or Messages**

   Displays the printer status or the messages.

2. **[Option]**

   Press to display the status of options installed in the printer.

3. **[Prt.Jobs]**

   Press to display print jobs sent from a computer.

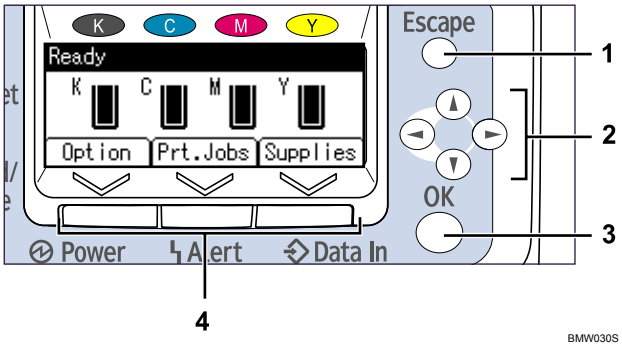
4. **[Supplies]**

   Press to display the menu of supplies for the printer.

Note

- [Prt.Jobs] is displayed only when the hard disk is installed in the printer.
- By default, the remaining amount of toner is displayed. To not display the remaining amount of toner, press the [Menu] key, and then select [Maintenance] on the display. Select [General Settings], then [Display Supply Info], and then select [Off].
- Adjust the brightness if the screen is dark. To adjust the display contrast, press the [Menu] key, and then select [Maintenance] on the display. Select [General Settings] and then [Display Contrast].

Reading the Display and Using Keys



1. **[Escape] key**

   Cancels an operation or returns to the previous display.

2. **Scroll keys**

   Move the cursor in each direction.

   When the [▲] [▼] [▶] [◀] keys appear in this manual, press the scroll key of the same direction.

3. **[OK] key**

   Confirms settings and setting values, or moves to the next menu level.

4. **Selection keys**

   Correspond to the function items shown on the bottom line of the display.

   When this manual instructs you to "press [Option]", press the left selection key.

2. Installing Options

This chapter explains how to install various options for this printer.

Available Options

By installing options, you can improve printer performance and expand the available features.

⚠CAUTION

- Before installing options, the machine should be turned off and unplugged for at least an hour. Components inside the machine become very hot, and can cause a burn if touched.

Order of Option Installation

When installing multiple options, the following order is recommended:

1. **Attach the 500-sheet paper feed unit**

   The 500-sheet paper feed unit can be used in combination with the 1000-sheet paper feed unit. In this case, attach the 500-sheet paper feed unit to the 1000-sheet paper feed unit before attaching to the printer.

2. **Attach the 1000-sheet paper feed unit or 2000-sheet paper feed unit**

   Either the 1000-sheet paper feed unit or 2000-sheet paper feed unit can be attached, but not both.

3. **Install the SDRAM module**

   Install in the slot inside the controller board.

4. **Install the hard disk**

   Install inside the controller board.

5. **Install the Gigabit Ethernet board**

   Install inside the controller board.

6. **Install the interface board**

   Install in the slot of the controller board.

   Only one interface board can be installed.

7. **Insert SD card options**

   Insert in the SD card slot of the controller board.

   There are two slots for SD cards.

   Each slot supports different types of SD cards.

   If you want to use two or more SD cards that can be inserted in the same slot, contact your sales or service representative.

8. **Attach the bridge unit**

   To attach this option, contact your sales or service representative.

9. **Attach the booklet finisher or 2 tray finisher**

   Either the booklet finisher or 2 tray finisher can be attached, but not both.

   The bridge unit and the 1000-sheet paper feed unit or 2000-sheet paper feed unit must have been attached.

   To attach this option, contact your sales or service representative.

10. **Attach the punch unit to the finisher**

    To attach this option, contact your sales or service representative.

11. **Attach the output jogger unit to the 2 tray finisher**

    To attach this option, contact your sales or service representative.

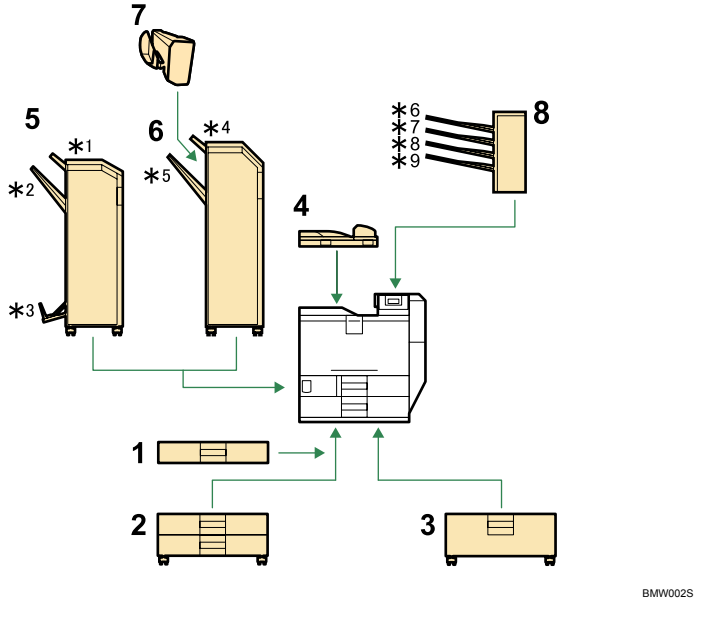
12. **Attach the mailbox**

    To attach this option, contact your sales or service representative.

Where to Install Options

Install options in the locations shown in the following illustrations.

External options



1. 500-sheet paper feed unit.

Attach to the underside of the printer. If you are also attaching the 1000-sheet paper feed unit, attach the 500-sheet paper feed unit to the 1000-sheet paper feed unit first. See "Attaching the Paper Feed Unit".

2. 1000-sheet paper feed unit

   Attach to the underside of the printer. See “Attaching the Paper Feed Unit”.

3. 2000-sheet paper feed unit

   Attach to the underside of the printer. See “Attaching the Paper Feed Unit”.

4. Bridge unit

   Remove the output tray and attach the bridge unit.

   To attach this option, contact your sales or service representative.

5. Booklet finisher

   Attach to the left side of the printer.

   This option is not available when the 500-sheet paper feed unit is attached to the printer.

   - *1: Finisher upper tray
   - *2: Finisher shift tray
   - *3: Finisher booklet tray

   To attach this option, contact your sales or service representative.

6. 2 Tray finisher

   Attach to the left side of the printer.

   This option is not available when the 500-sheet paper feed unit is attached to the printer.

   - *4: Finisher upper tray
   - *5: Finisher shift tray

   To attach this option, contact your sales or service representative.

7. Output jogger unit

   Attach to the 2 tray finisher.

   To attach this option, contact your sales or service representative.

8. Mailbox

   Attach to the topside of the printer.

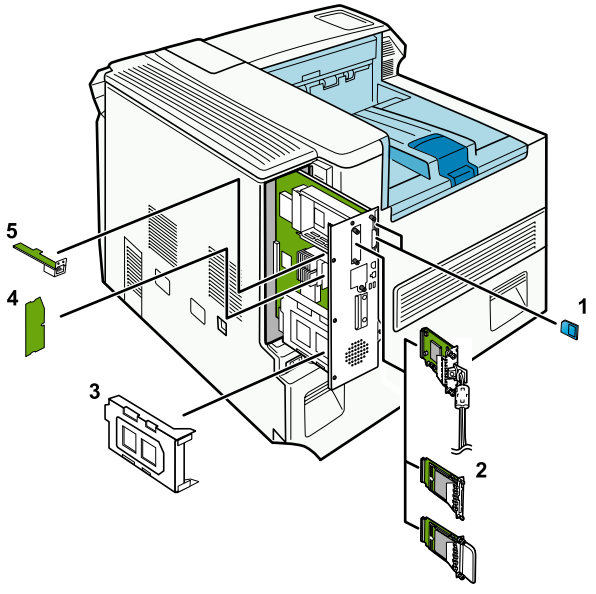
   This option is not available when the 500-sheet paper feed unit is attached to the printer.

   - *6: Mailbox tray 4
   - *7: Mailbox tray 3
   - *8: Mailbox tray 2
   - *9: Mailbox tray 1

   To attach this option, contact your sales or service representative.

2

Internal options



BMV141S

1. Data overwrite security unit/HDD encryption unit/NetWare card/Camera direct print card/VM card

   If you want to use two or more SD cards that can be inserted in the same slot, contact your sales or service representative.

   - Upper slot: Data overwrite security unit, camera direct print card, or NetWare card
   - Lower slot: HDD encryption unit or VM card

   See “Installing SD Card Options”.

2. Optional interface board

   Only one interface board can be installed.

   - IEEE 1284 interface board
   - IEEE 802.11 g interface board
   - IEEE 802.11 a/g interface board
   - Bluetooth interface unit

   See “Installing the Interface Units”.

3. Hard disk

   See "Installing the Memory Expansion Units".

4. SDRAM module

See "Installing the Memory Expansion Units".

5. Gigabit Ethernet board

See "Installing the Interface Units".

Note

- For the specifications of each option, see "Specifications".

Reference

- p.36 "Attaching the Paper Feed Unit"
- p.67 "Installing SD Card Options"
- p.54 "Installing the Interface Units"
- p.45 "Installing the Memory Expansion Units"
- p.265 "Specifications"

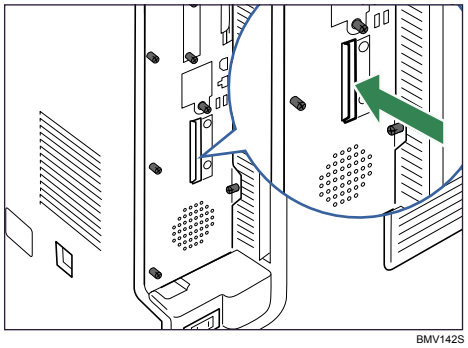
Cautions When Re-installing the Controller Board

When installing options inside the controller board, handle the board carefully while it is outside the printer.

To re-install the controller board, holding the handle in the center of the board, push the board firmly into the printer.

Important

- **The following may occur if the controller board is not correctly installed:**
  1. **All control panel indicators are lit.**
  2. **No control panel indicators are lit.**
  3. **The "SC670" error message appears on the display.**



BMV142S

Attaching the Paper Feed Unit

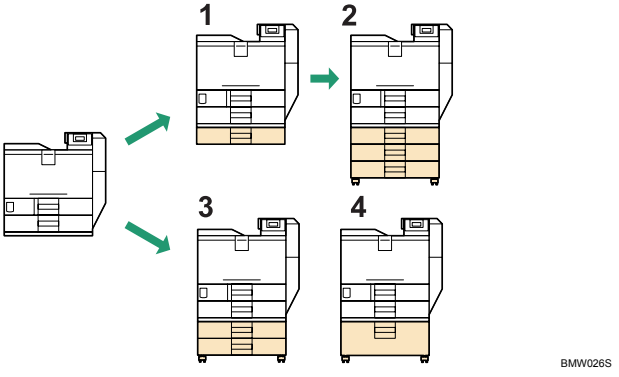
This section explains how to attach the paper feed units.

Important

- **When attaching multiple options, attach the paper feed unit first.**
- **Four people are required to attach the paper feed unit. Make sure that the necessary number of people is available before beginning.**

Option configurations

The table below shows the possible configurations of printer and options.



1. **Printer + 500-sheet paper feed unit**

   See "Attaching the 500-sheet/1000-sheet/2000-sheet Paper Feed Unit" for attachment instructions.

2. **Printer + 500-sheet paper feed unit + 1000-sheet paper feed unit**

   To install options in this configuration, first see "Attaching the 500-sheet Paper Feed Unit to the 1000-sheet Paper Feed Unit" for instructions about attaching the 500-sheet paper feed unit to the 1000-sheet paper feed unit. Then, see "Attaching the 500-sheet/1000-sheet/2000-sheet Paper Feed Unit" for instructions about attaching this to the printer.

3. **Printer + 1000-sheet paper feed unit**

   See "Attaching the 500-sheet/1000-sheet/2000-sheet Paper Feed Unit" for attachment instructions.

4. **Printer + 2000-sheet paper feed unit**

   See "Attaching the 500-sheet/1000-sheet/2000-sheet Paper Feed Unit" for attachment instructions.

Reference

- p.37 "Attaching the 500-sheet Paper Feed Unit to the 1000-sheet Paper Feed Unit"
- p.39 "Attaching the 500-sheet/1000-sheet/2000-sheet Paper Feed Unit"

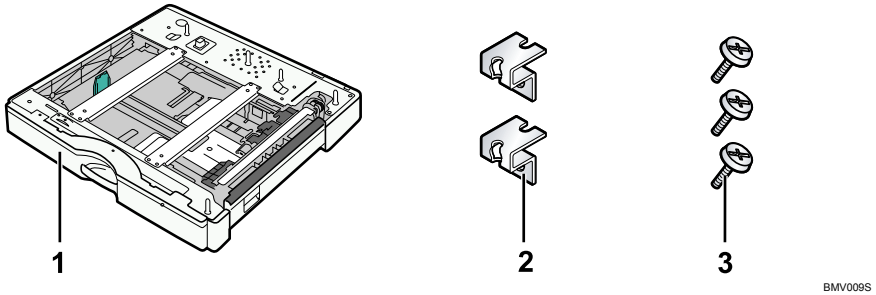
Attaching the 500-sheet Paper Feed Unit to the 1000-sheet Paper Feed Unit

The 500-sheet paper feed unit can be used in combination with the 1000-sheet paper feed unit. In this case, attach the 500-sheet paper feed unit to the 1000-sheet paper feed unit before attaching to the printer. This section explains how to attach the 500-sheet paper feed unit to the 1000-sheet paper feed unit.

⚠CAUTION

- The 500-sheet paper feed unit weighs approximately 15 kg (33.1 lb.).
- When moving the paper feed unit, hold the bottom at both sides, and then lift the optional paper feed unit slowly. Lifting it carelessly or dropping it may cause an injury.

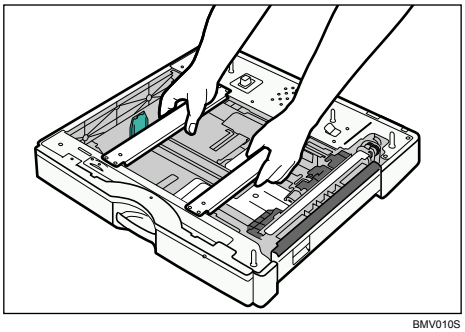
1. **Check the contents of the package.**



BMV009S

1. **500-sheet paper feed unit**
2. **Two brackets**
3. **Three screws**

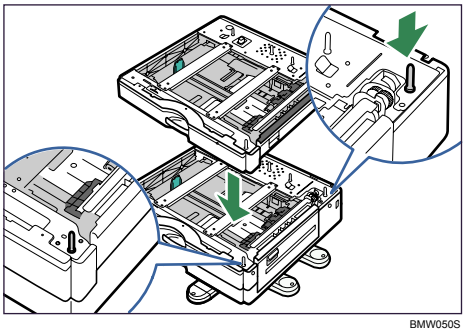
2. **Remove the packaging from the paper feed unit.**
3. **Hold the 500-sheet paper feed unit as shown in the illustration below, and then lift it.**



BMV010S

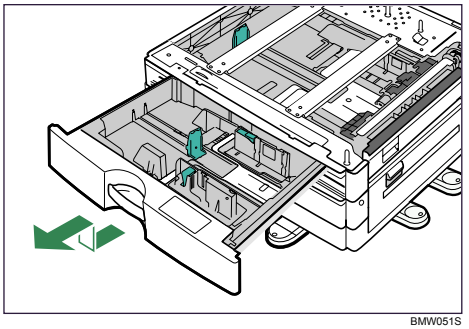
4. **Align it with the top of the 1000-sheet paper feed unit, and slowly lower it straight down.**

   Place it so that it is held firmly in place by the vertical pins.



BMW050S

5. **Pull the tray of the 500-sheet paper feed unit out slowly until it stops, then lift the front of the tray slightly, and pull it out completely.**

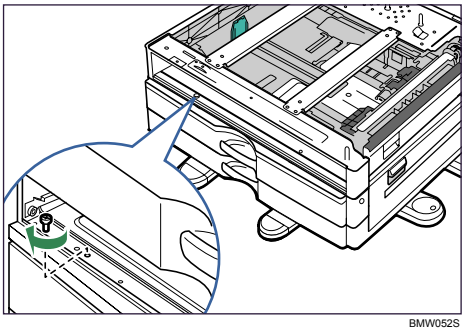


BMW051S

Place the tray on a flat surface.

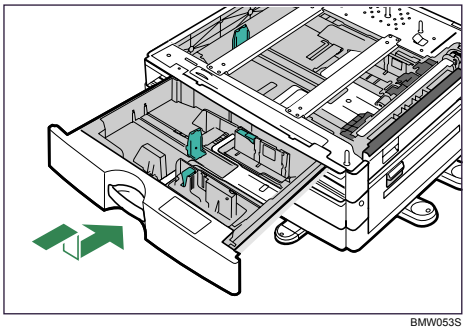
6. **Attach a screw in the hole on the left side of the tray opening to secure it to the paper feed unit.**

Tighten the screw firmly using a coin.



BMW052S

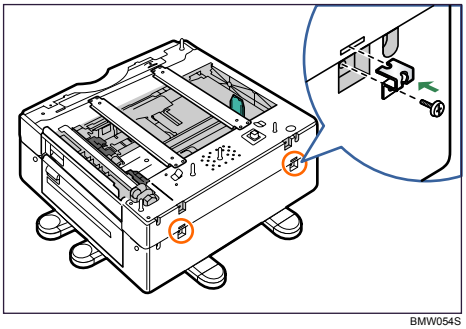
7. **Lift the front of the tray, and slide it carefully into the paper feed unit until it stops.**



BMW053S

8. **On the rear of the unit, attach two brackets using the remaining screws.**

   Tighten the screws firmly using a coin.



BMW054S

Attaching the 500-sheet/1000-sheet/2000-sheet Paper Feed Unit

This section describes how to attach the 500-sheet paper feed unit, 1000-sheet paper feed unit, and 2000-sheet paper feed unit. The procedure is the same for all three units. The 1000-sheet paper feed unit is used as an example.

⚠CAUTION

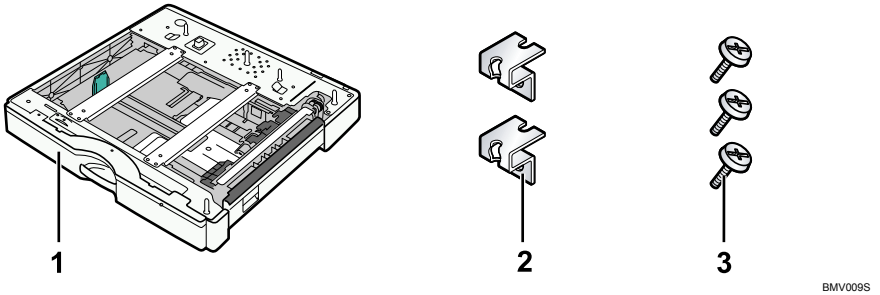
- The printer weights approximately 97 kg (214 lb.).
- Four or more people are required to move the printer. Hold the handles located on both sides, and then lift it slowly. Lifting it carelessly or dropping it may cause an injury.

Important

- **When using the 1000-sheet paper feed unit with the 500-sheet paper feed unit, attach the 500-sheet paper feed unit to the 1000-sheet paper feed unit before attaching to the printer.**
- **When the 1000-sheet paper feed unit is attached, the 2000-sheet paper feed unit cannot be attached.**
- **When the 2000-sheet paper feed unit is attached, neither the 500-sheet paper feed unit nor the 1000-sheet paper feed unit can be attached.**

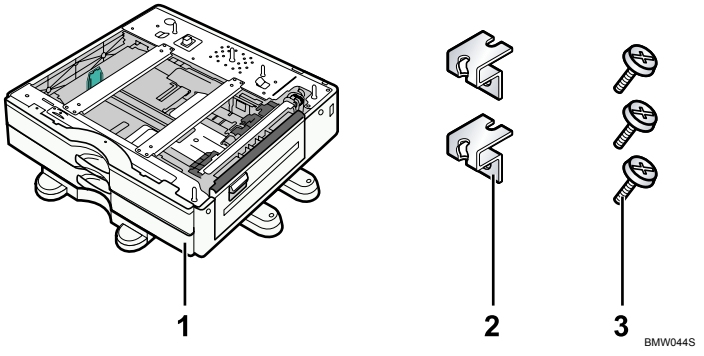
- Before using the new paper feed unit, you must configure settings in the printer driver.
- Four or more people are required for installation.

1. Check the contents of the package.
   - Package contents for 500-sheet paper feed unit



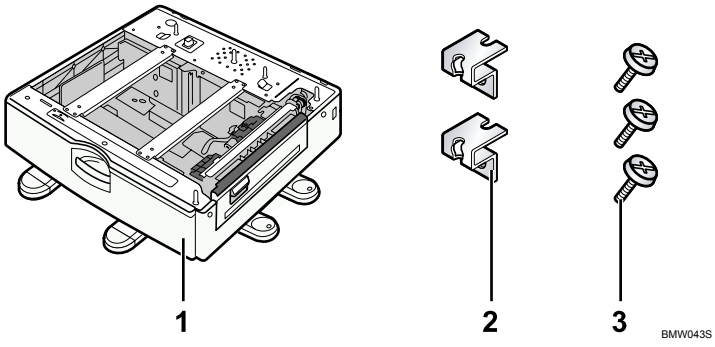
1. 500-sheet paper feed unit
2. Two brackets
3. Three screws

   - Package contents for 1000-sheet paper feed unit



1. 1000-sheet paper feed unit
2. Two brackets
3. Three screws

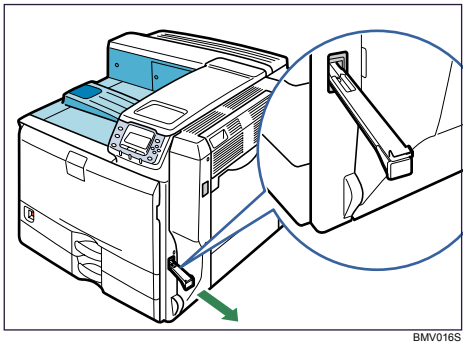
   - Package contents for 2000-sheet paper feed unit



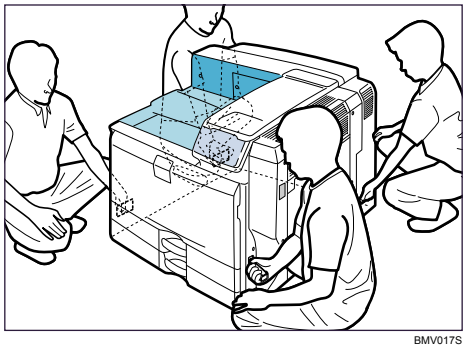
1. **2000-sheet paper feed unit**
2. **Two brackets**
3. **Three screws**

2. **Turn the printer off and unplug the power cable.**
3. **Remove the packaging from the paper feed unit.**
4. **When using the 1000-sheet paper feed unit with the 500-sheet paper feed unit, attach the units to each other first, and then attach them to the printer.**

   For instructions, see "Attaching the 500-sheet Paper Feed Unit to the 1000-sheet Paper Feed Unit".
5. **Pull out the handle from the right side of the printer.**



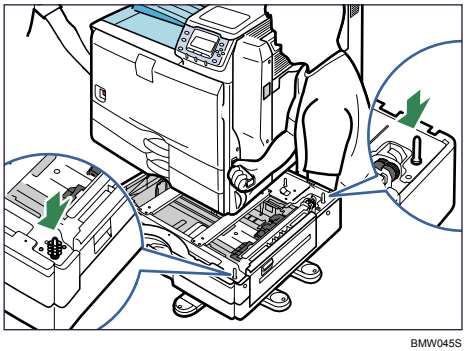
6. **Lift the printer using the handles on both sides of it.**



The printer should always be lifted by at least four people.

7. **Align the front of the printer with the front of the paper feed unit, and slowly lower it.**

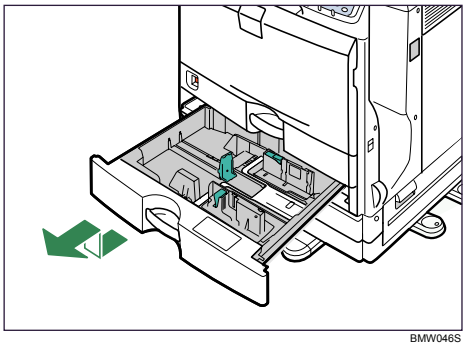
   Place it so that it is held firmly in place by the vertical pins.



BMW045S

Return the handle you pulled out from the printer to its original position.

8. **Pull tray 2 of the printer out slowly until it stops, then lift the front of the tray slightly, and pull it out completely.**

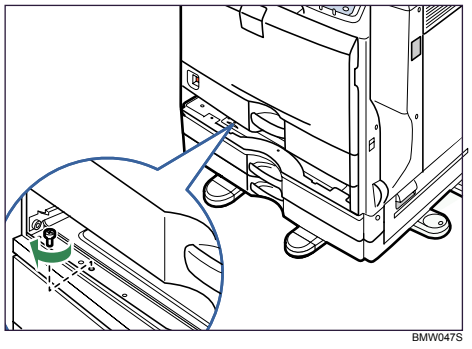


BMW046S

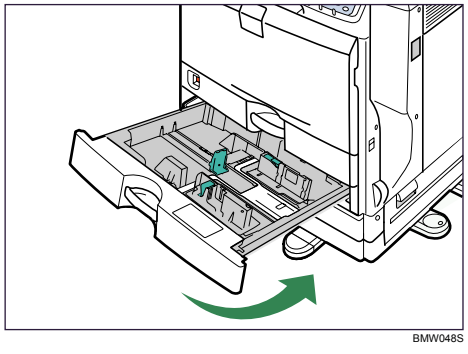
Place the tray on a flat surface.

9. **Attach a screw in the hole on the left side of the tray opening to secure the printer to the paper feed unit.**

   Tighten the screw firmly using a coin.

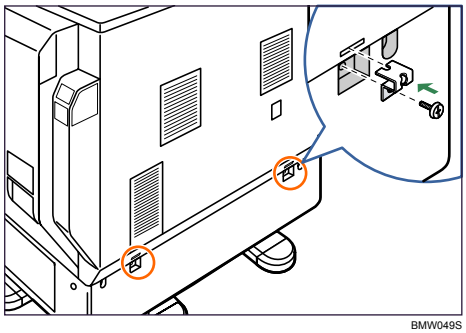

BMW047S

10. **Lift the front of the tray, and slide it carefully into the printer until it stops.**


BMW048S

11. **On the rear of the unit, attach two brackets using the remaining screws.**

    Tighten the screws firmly using a coin.


BMW049S

12. **Plug in the power cable, and then turn on the printer.**
13. **Print the configuration page to confirm that the unit was attached correctly.**

Note

- To confirm whether the optional paper feed unit was correctly attached, print the configuration page, and check "Attached Equipment" on the configuration page. If the unit was attached correctly, the following will be displayed:
  - 500-sheet paper feed unit: Single Tray

- 1000-sheet paper feed unit: Twin Trays
- 2000-sheet paper feed unit: LCT

- If the optional paper feed unit was not installed properly, repeat the procedure from the beginning. If it cannot be installed correctly even after reattempting installation, contact your sales or service representative.
- If the print area is not centered correctly, adjust the printing position for the 500-sheet paper feed unit (tray 3) and/or the 1000-sheet paper feed unit (tray 3 to tray 5). For details, see "Adjusting Printing Position".
- For information about printing the configuration page, see "List/Test Print Menu", Software Guide.
- To use the 500-sheet, 1000-sheet or 2000-sheet paper feed unit, configure the printer options in "Change Accessories" in the printer driver. For details about opening "Change Accessories", see "Making printer default settings - the printer properties", Software Guide.

Reference

- p.194 "Adjusting Printing Position"

Installing the Memory Expansion Units

This section describes how to install the memory expansion units.

Installing the SDRAM Module

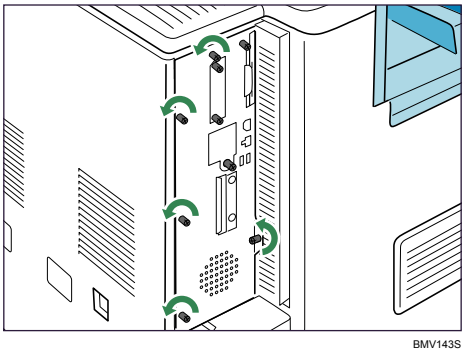
⚠CAUTION

- Do not touch the inside of the controller board compartment. It may cause a machine malfunction or a burn.

Important

- Before beginning work, ground yourself by touching something metal to discharge any static electricity. Static electricity can damage the SDRAM module.
- Do not subject the SDRAM module to physical shocks.
- When installing the SDRAM module and wireless LAN interface board together, install the SDRAM module first, and then install the wireless LAN interface board. If the wireless LAN interface board is already installed, remove it before installing the SDRAM module.
- The printer comes equipped with 512 MB of memory. This can be expanded to a maximum of 1024 MB.
- Before using the new SDRAM module, you must configure settings in the printer driver.

1. **Turn the printer off and unplug the power cord.**
2. **Remove the five screws securing the controller board.**

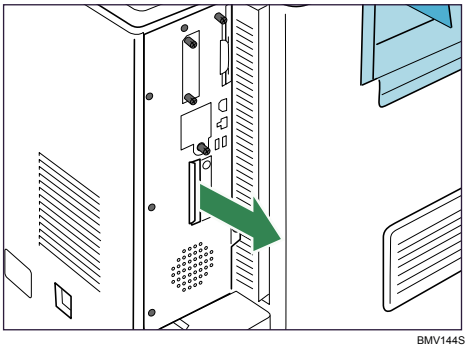


BMV143S

The removed screws will be used to secure the controller board again later.

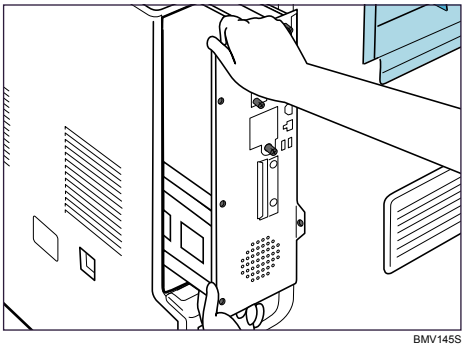
3. **Holding the handle, carefully pull out the controller board.**

Slide the controller board completely out and place it on a flat surface such as a table.



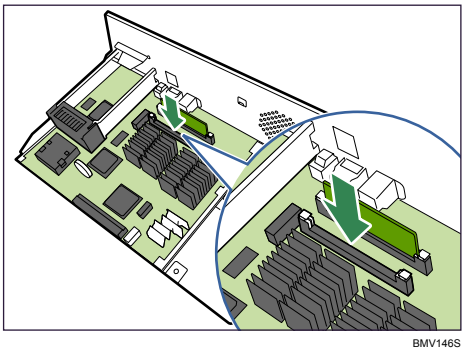
BMV144S

Use both hands to slide the controller board completely out, and then place it on a flat surface such as a table.



BMV145S

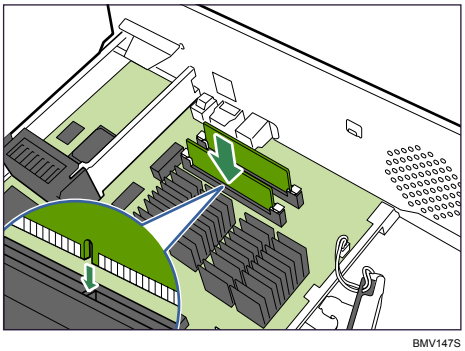
4. **Install the SDRAM module in the indicated position.**



BMV146S

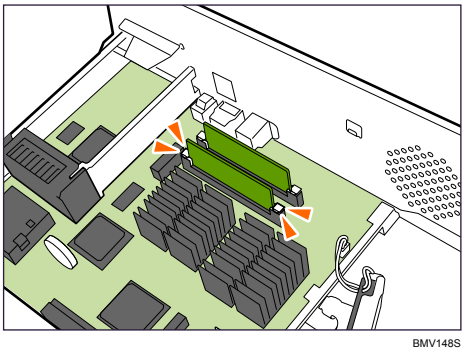
There are two SDRAM slots. A 512 MB SDRAM module is installed in the outer slot. When installing an expansion SDRAM module, install the module in the free, inner slot.

5. **Align the notch on the SDRAM module with the slot, and then carefully push in the SDRAM module perpendicularly.**



BMV147S

6. **Press the SDRAM module straight down until it clicks into place.**

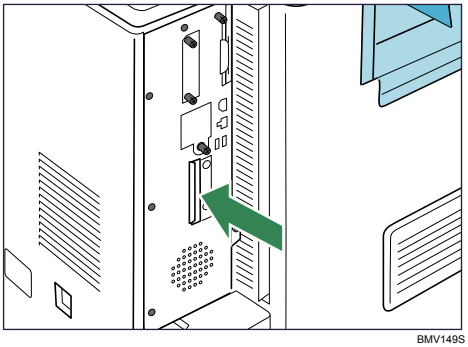


BMV148S

7. **When also installing the hard disk, install it before returning the controller board to the printer.**

   See "Installing the Hard Disk" for instructions about installing the hard disk.

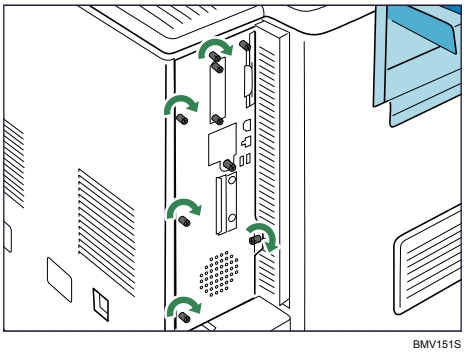
8. **Fit the controller board into the printer, and push it carefully in until it stops.**



BMV149S

Push it firmly into the printer using the handle. The printer may malfunction if the controller board is not properly installed.

9. **Fasten the controller board to the printer using the five screws.**



BMV151S

Note

- Confirm that the SDRAM module was correctly installed by printing the configuration page. Check that the total memory value is shown in "Device Connection" on the configuration page.
- The table below shows the total SDRAM module capacities.

Standard	Extended	Total
512 MB	256 MB	768 MB
512 MB	512 MB	1024 MB

- If the SDRAM module was not installed properly, repeat the procedure from the beginning. If it cannot be installed correctly even after reattempting installation, contact your sales or service representative.
- For information on printing the configuration page, see "List/Test Print Menu", Software Guide.
- Install the controller board carefully. For details, see "Cautions When Re-installing the Controller Board".
- To use the installed SDRAM module, configure the printer options in "Change Accessories" in the printer driver. For details about opening "Change Accessories", see "Making printer default settings - the printer properties", Software Guide.

Reference

- p.35 "Cautions When Re-installing the Controller Board"

Installing the Hard Disk

This section explains how to install the hard disk in the basic model.

A hard disk is pre-installed in the HDD standard model.

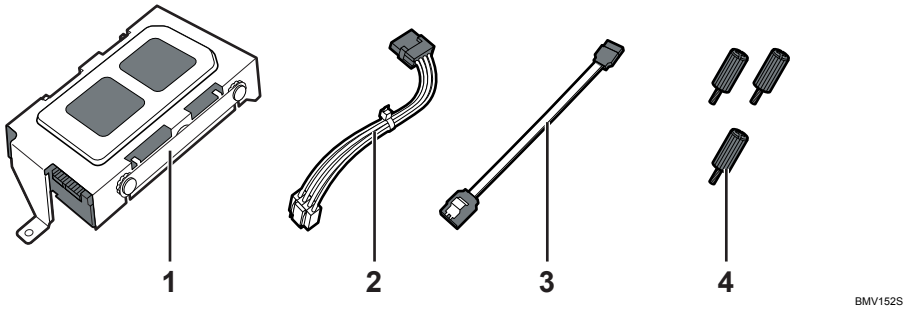
⚠CAUTION

- Do not touch the inside of the controller board compartment. It may cause a machine malfunction or a burn.

Important

- Before beginning work, ground yourself by touching something metal to discharge any static electricity. Static electricity can damage the hard disk.
- Do not subject the hard disk to physical shocks.
- When installing the hard disk and wireless LAN interface board together, install the hard disk first, and then install the wireless LAN board. If the wireless LAN interface board is already installed, remove it before installing the hard disk.
- Install the hard disk carefully if the SDRAM module is already installed. If the hard disk comes in contact with the SDRAM module, the SDRAM module may become damaged.
- Before using the new hard disk, you must configure settings in the printer driver.

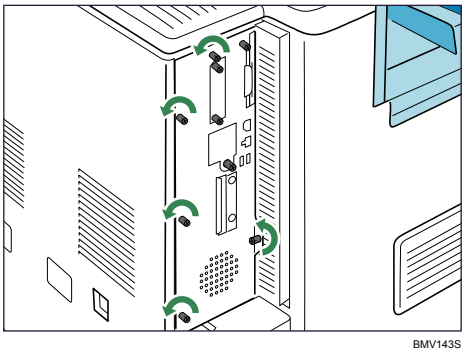
1. Check the contents of the package.



1. Hard Disk
2. Power Cable
3. Flat Cable
4. Three Screws

2. Turn the printer off and unplug the power cord.

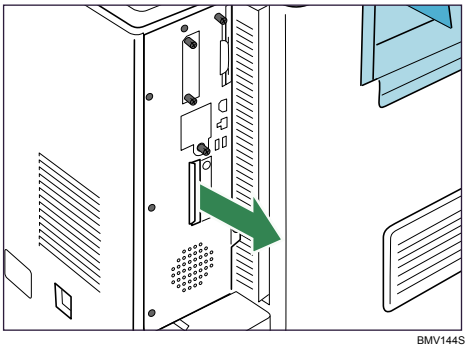
3. **Remove the five screws securing the controller board.**



BMV143S

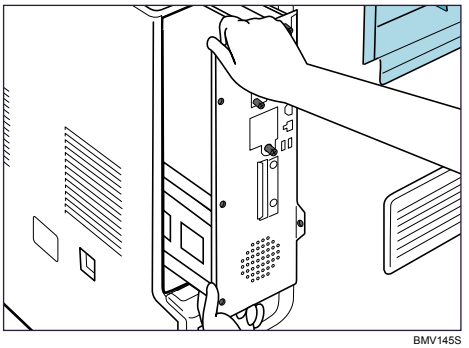
The removed screws will be used to secure the controller board again later.

4. **Holding the handle, carefully pull out the controller board.**



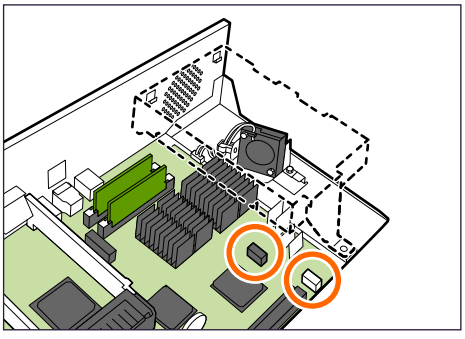
BMV144S

Use both hands to slide the controller board completely out, and then place it on a flat surface such as a table.



BMV145S

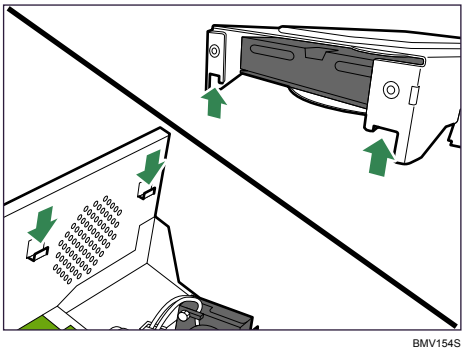
5. **Install the hard disk in the indicated position.**



BMV153S

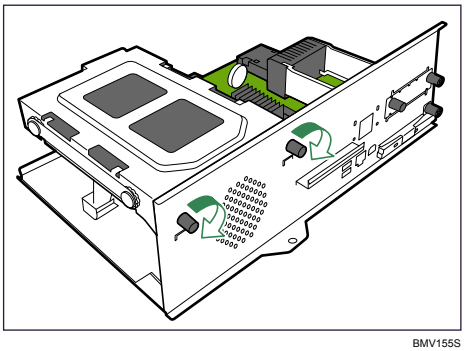
Install the hard disk carefully if the SDRAM module is already installed. If the hard disk comes in contact with the SDRAM module, the SDRAM module may become damaged.

6. **Hook the mounting indents on the hard drive onto the tabs on the controller board panel.**



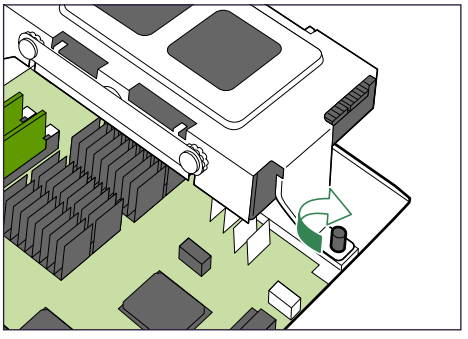
BMV154S

7. **Use two coin screws to fasten the hard disk to the controller board panel.**



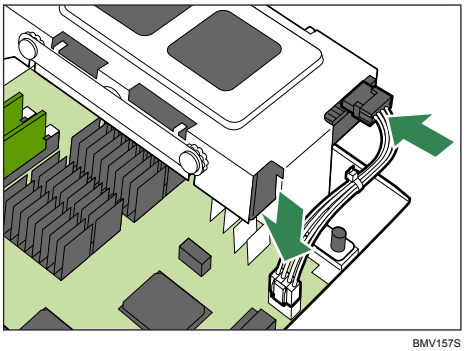
BMV155S

8. Fasten the hard disk to the circuit board with the remaining coin screw.



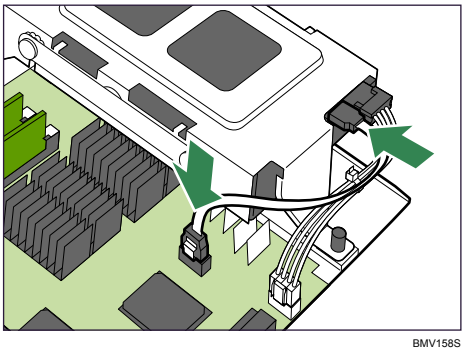
BMV156S

9. Connect the power cable to the hard disk and the controller board.



BMV157S

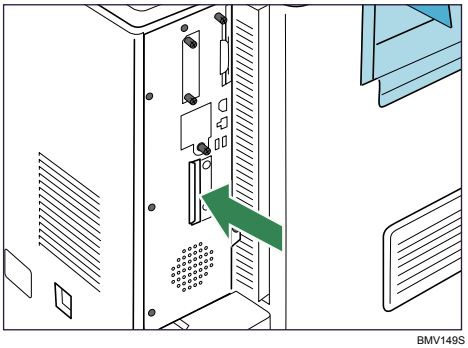
10. Connect the flat cable to the hard disk and the controller board.



BMV158S

11. If you are installing other options onto the controller board, proceed to install the next option without reinserting the controller board.

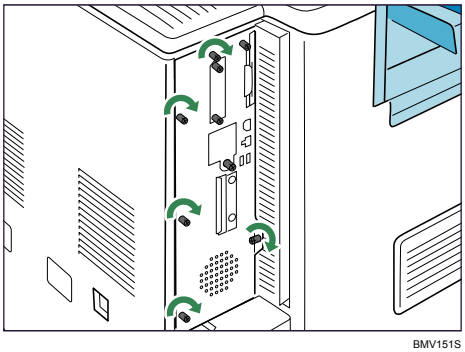
12. Fit the controller board into the printer, and push it carefully until it stops.



BMV149S

Push it firmly into the printer using the handle. The printer may malfunction if the controller board is not properly installed.

13. Fasten the controller board to the printer using the five screws.



BMV151S

When you turn the power to the printer on, the hard disk will be formatted automatically.

Note

- Confirm that the hard disk was correctly installed by printing the configuration page. If it is correctly installed, "Hard Disk Drive" will appear for "Device Connection" on the configuration page.
- If the hard disk was not installed properly, repeat the procedure from the beginning. If it cannot be installed correctly even after reattempting installation, contact your sales or service representative.
- For information on printing the configuration page, see "List/Test Print Menu", Software Guide.
- Install the controller board carefully. For details, see "Cautions When Re-installing the Controller Board".
- To use the installed hard disk, configure the printer options in "Change Accessories" in the printer driver. For information about opening "Change Accessories", see "Making printer default settings - the printer properties", Software Guide.

Reference

- p.35 "Cautions When Re-installing the Controller Board"

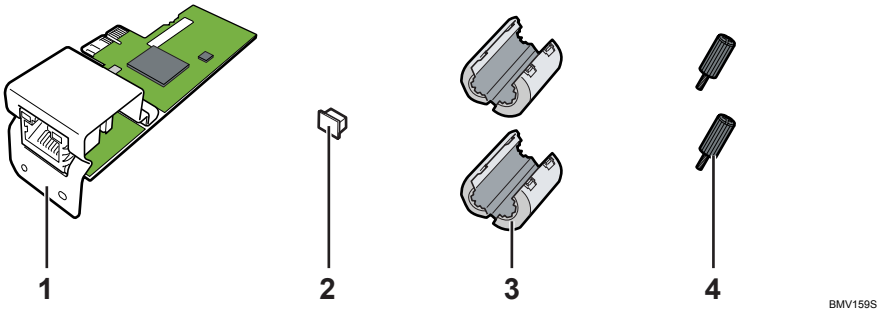
Installing the Interface Units

Installing the Gigabit Ethernet Board

Important

- Before beginning work, ground yourself by touching something metal to discharge any static electricity. Static electricity can damage the board.
- Do not subject the board to physical shocks.
- The printer's Ethernet port is not available when the Gigabit Ethernet board is attached to the printer. Use the Ethernet port on the Gigabit Ethernet board.
- When installing the Gigabit Ethernet board and wireless LAN interface board together, install the Gigabit Ethernet board first, and then install the wireless LAN interface board. If the wireless LAN interface board is already installed, remove it before installing the Gigabit Ethernet board.

1. Check the contents of the package.

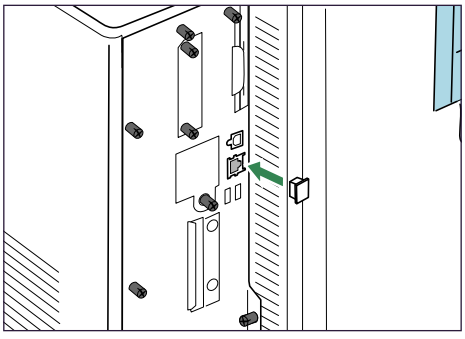


1. **Gigabit Ethernet Board**
2. **One Protective Cap**
3. **Two Ferrite Cores**

   Use the included ferrite cores when connecting an Ethernet cable to the board.
4. **Two coin screws**

2. Turn the printer off and unplug the power cord.

3. **Unplug the cable from the Ethernet port, and then cover it with the protective cap.**



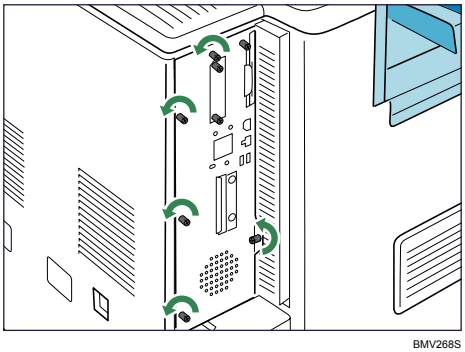
BMV160S

4. **Loosen the screw and remove the slot cover.**

BMV161S

The removed cover will not be reused.

5. **Remove the 5 screws securing the controller board.**

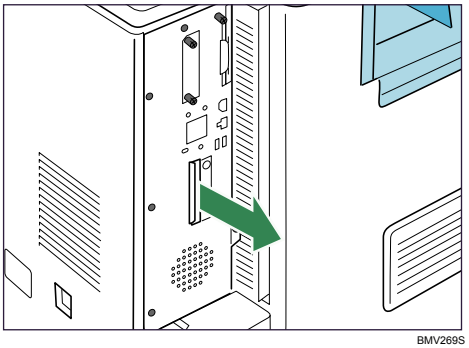


BMV268S

The removed screws will be used to secure the controller board again later.

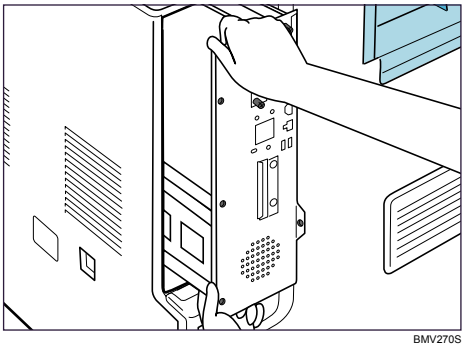
6. **Holding the handle, carefully pull out the controller board.**

Slide the controller board completely out, and then place it on a flat surface such as a table.



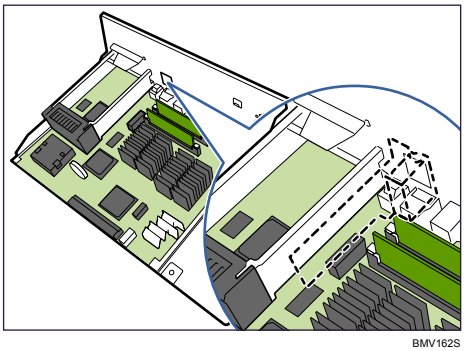
BMV269S

Use both hands to slide the controller board completely out.



BMV270S

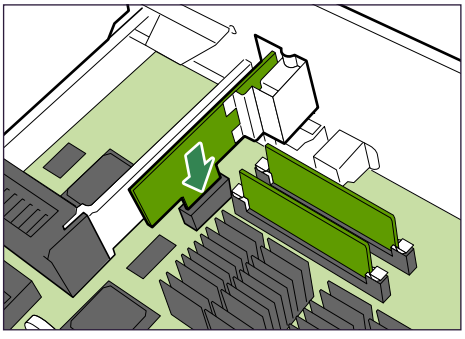
7. **Install the Gigabit Ethernet board in the indicated position.**



BMV162S

Install the hard disk carefully if the SDRAM module is already installed. If the hard disk comes in contact with the SDRAM module, the SDRAM module may become damaged.

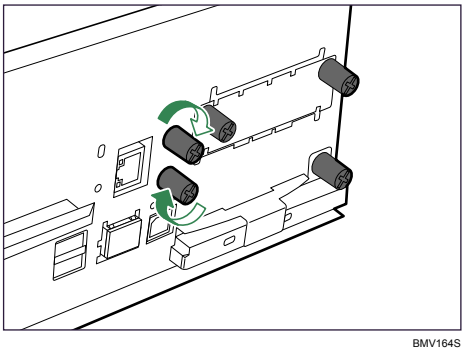
8. **Carefully insert the Gigabit Ethernet board vertically, all the way to the back.**



BMV163S

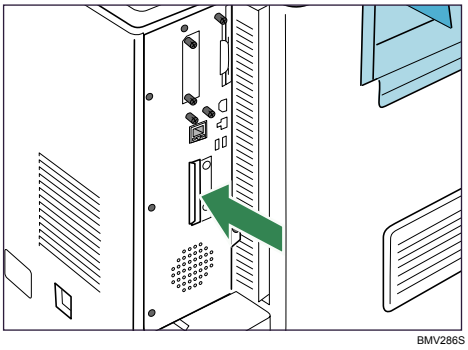
Push the Gigabit Ethernet board all the way to the back, and confirm that it is securely connected to the controller board.

9. **Use 2 coin screws to fasten the Gigabit Ethernet board to the controller board panel.**



BMV164S

10. **Fit the controller board into the printer, and push it carefully until it stops.**



BMV286S

Push it firmly into the printer using the handle. The printer may malfunction if the controller board is not properly installed.

11. **Fasten the controller board to the printer using the five screws.**

BMV271S

Note

- Confirm that the board was correctly installed by printing the configuration page. If it is correctly installed, "Gigabit Ethernet Board" will appear for "Device Connection" on the configuration page.
- If the board was not installed properly, repeat the procedure from the beginning. If it cannot be installed correctly even after reattempting installation, contact your sales or service representative.
- For information on printing the configuration page, see "List/Test Print Menu", Software Guide.
- Before using the board, you must configure settings from the control panel. For details, see "Ethernet Configuration".

Reference

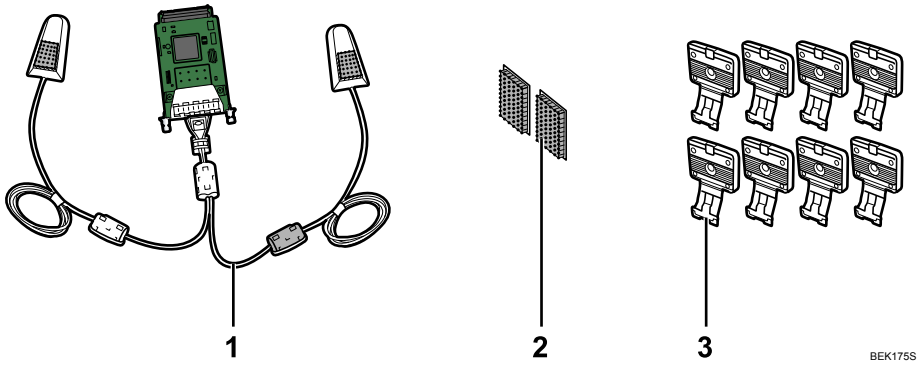
- p.71 "Ethernet Cable Connection"
- p.79 "Ethernet Configuration"

Installing the Wireless LAN Interface Board

Important

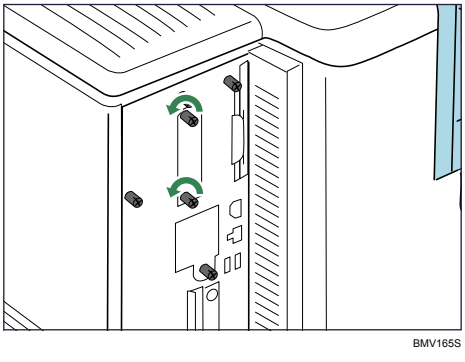
- **Before beginning work, ground yourself by touching something metal to discharge any static electricity. Static electricity can damage the board.**
- **Do not subject the board to physical shocks.**
- **When installing the SDRAM module, hard disk, and wireless LAN interface board together, install them in the following order: SDRAM module, hard disk, wireless LAN interface board.**

1. **Check the contents of the package.**



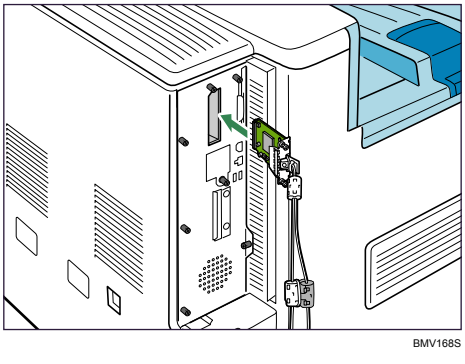
1. **Wireless LAN Interface Board**
2. **Two Hook-and-loop Fasteners**
3. **Eight Hooks**

2. **Turn the printer off and unplug the power cord.**
3. **Loosen the two screws and remove the slot cover.**



The removed cover will not be reused.

4. **Fully insert the interface board.**

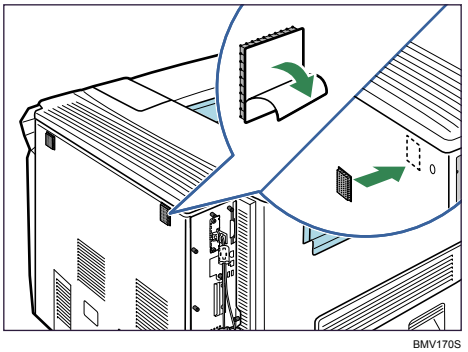


Confirm that the interface board is firmly connected to the controller board.

5. **Tighten the two screws to secure the interface board.**

BMV169S

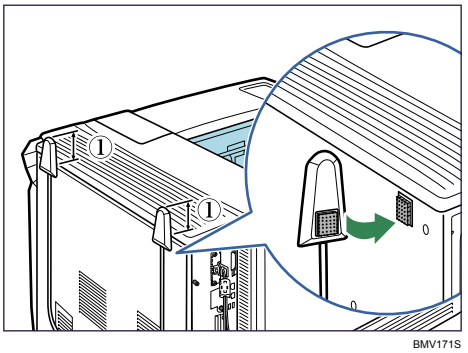
6. **Remove protective paper from the hook-and-loop fasteners, and then place them as far away from each other as possible on the upper side of the printer rear.**



BMV170S

Make sure that the hook-and-loop fasteners are not placed over any screw holes or seams on the printer body.

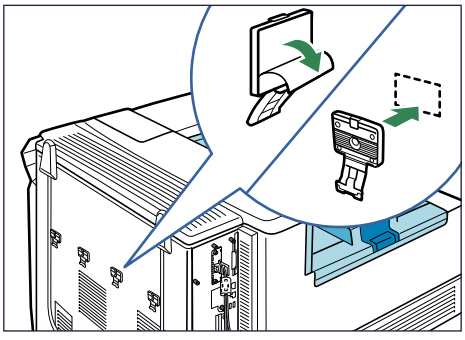
7. **Remove protective paper from antennas, and then attach the antennas upright to the hook-and-loop fasteners. Attach the antenna coming from a black ferrite core on the right side of the printer rear.**



BMV171S

①: Attach the antennas so that they protrude above the top of the printer.

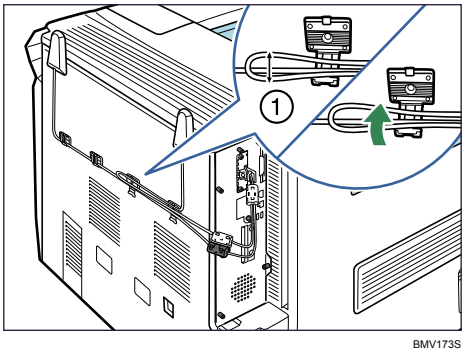
8. **Remove protective paper from four hooks, and then attach the hooks evenly above the ventilators on the printer rear.**



BMV172S

Extra hooks are spare accessories.

9. **Secure the cables using the four hooks. Loop the cable for the antenna on the right as shown.**

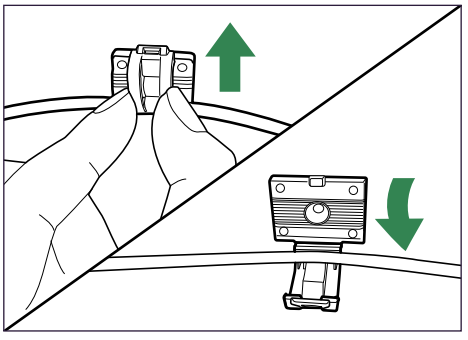


BMV173S

①: The loop must have a diameter of at least 1 cm (0.4 inches).

Note

- Confirm that the board was correctly installed by printing the configuration page. If it is correctly installed, "Wireless LAN" will appear for "Device Connection" on the configuration page.
- If the board was not installed properly, repeat the procedure from the beginning. If it cannot be installed correctly even after reattempting installation, contact your sales or service representative.
- For information on printing the configuration page, see "List/Test Print Menu", Software Guide.
- If you need to open the hook, hold the tab of the hook, raise it slightly upward, and then pull it open.



BEK173S

- Before using the board, you must configure settings from the printer control panel. For details, see "Wireless LAN Configuration".

Reference

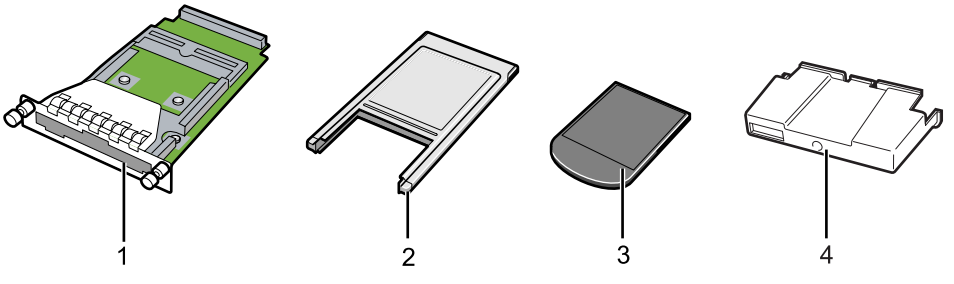
- p.88 "Wireless LAN Configuration"

Installing the Bluetooth Interface Unit

Important

- When the Bluetooth interface unit is installed in the printer, Bluetooth-equipped devices such as computers and digital cameras can print wirelessly.
- Before beginning work, ground yourself by touching something metal to discharge any static electricity. Static electricity can damage the Bluetooth interface unit.
- Do not subject the unit to physical shocks.

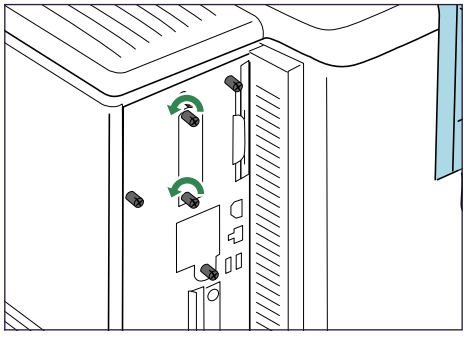
1. Check the contents of the package.



BMV251S

1. Interface unit
2. Card adapter
3. Card
4. Cover

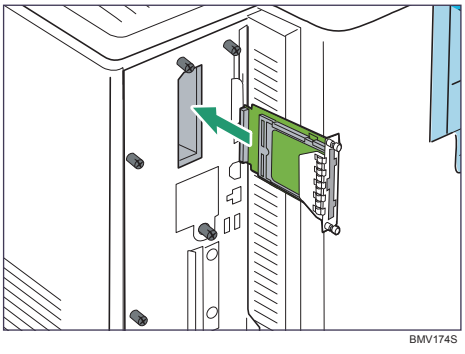
2. **Turn the printer off and unplug the power cable.**
3. **Loosen the two screws and remove the slot cover.**



BMV165S

The removed cover will not be reused.

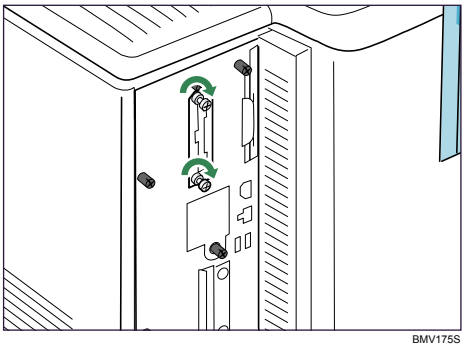
4. **Fully insert the interface unit.**



BMV174S

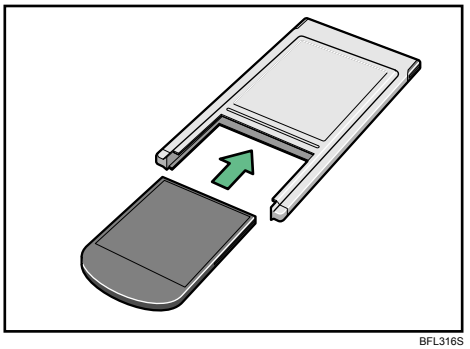
Confirm that the interface unit is firmly connected to the controller board.

5. **Tighten the two screws to secure the interface unit.**



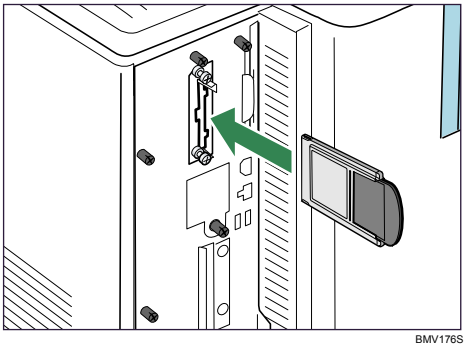
BMV175S

6. **Attach the card to the card adapter. Attach them so that the label on both the card and adapter is facing up.**



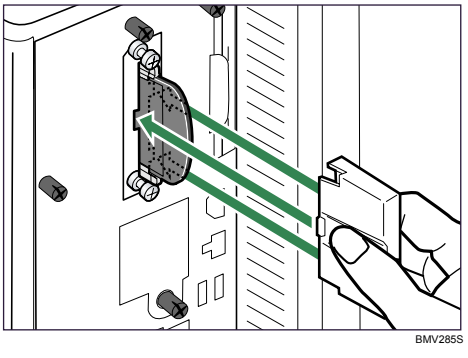
BFL316S

7. **With the label side facing left, slowly push the card adapter into the interface unit until it stops.**



BMV176S

8. **While holding the cover close to the tabs, align the three tabs on the cover with the three indentations on the interface board, and then attach the cover.**



BMV285S

Note

- Confirm that the Bluetooth interface unit was correctly installed by printing the configuration page. If it is correctly installed, "Bluetooth" will appear for "Device Connection" on the configuration page.

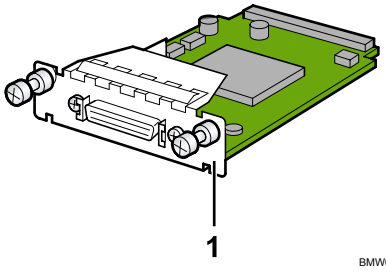
- If the board was not installed properly, repeat the procedure from the beginning. If it cannot be installed correctly even after reattempting installation, contact your sales or service representative.
- For details, see the operating instructions included with the Bluetooth interface unit.
- For information on printing the configuration page, see "List/Test Print Menu", Software Guide.

Installing the IEEE 1284 Interface Board

Important

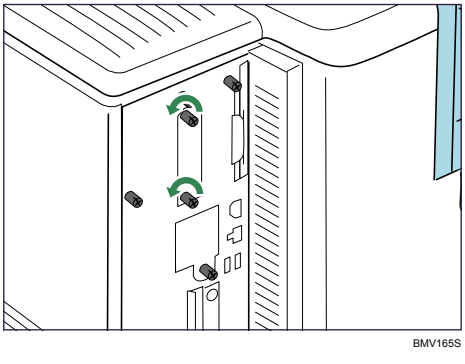
- **Before beginning work, ground yourself by touching something metal to discharge any static electricity. Static electricity can damage the board.**
- **Do not subject the board to physical shocks.**
- **For connection to the IEEE 1284 interface board, use a half pitch 36-pin interface cable.**

1. **Check the contents of the package.**



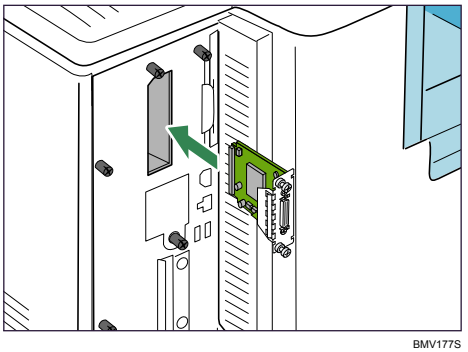
1. **IEEE 1284 Interface Board**

2. **Turn the printer off and unplug the power cord.**
3. **Loosen the two screws and remove the slot cover.**



The removed cover will not be reused.

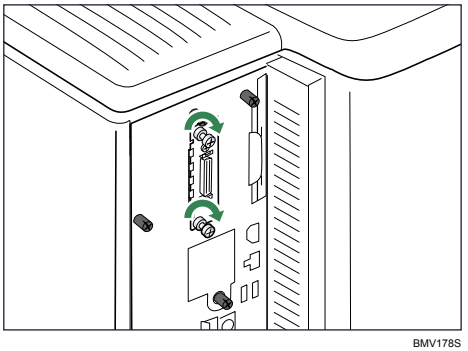
4. **Fully insert the IEEE 1284 interface board.**



BMV177S

Confirm that the IEEE 1284 interface board is firmly connected to the controller board.

5. **Tighten the two screws to secure the interface board.**



BMV178S

6. **Plug in the power cord, and then turn on the printer.**
7. **Print the configuration page to confirm that the board was attached correctly.**

Note

- Confirm that the board was correctly installed by printing the configuration page. If it is correctly installed, "Parallel Interface" will appear for "Device Connection" on the configuration page.
- If the board was not installed properly, repeat the procedure from the beginning. If it cannot be installed correctly even after reattempting installation, contact your sales or service representative.
- For information on printing the configuration page, see "List/Test Print Menu", Software Guide.

Reference

- p.77 "Parallel Cable Connection"

Installing SD Card Options

This section provides the procedure for installing the following SD cards: the HDD encryption unit, Data overwrite security unit, camera direct print card, NetWare card, and VM card.

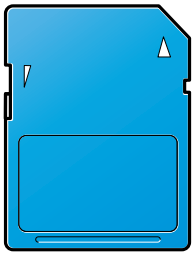
⚠CAUTION

- Keep SD cards out of reach of children. If a child swallows a SD card, consult a doctor immediately.

Important

- **Do not subject the card to physical shocks.**

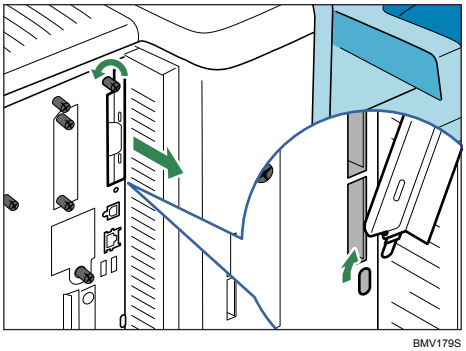
1. **Check the contents of the package.**



BFL308S

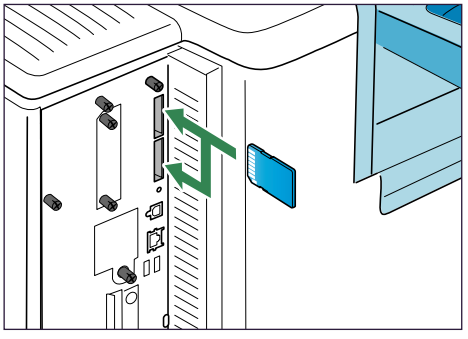
1. **SD card**

2. **Turn the printer off and unplug the power cord.**
3. **Loosen the screw and remove the SD card slot cover in angle.**



BMV179S

4. **Insert the SD card into the slot until it clicks.**

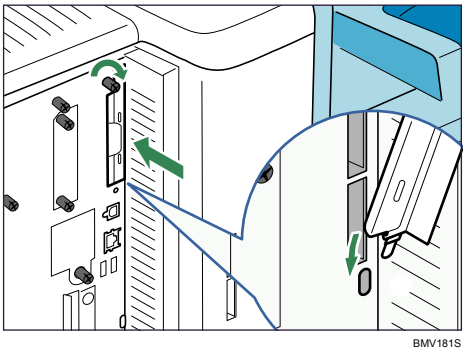


BMV180S

Insert the SD card in the appropriate slot as follows:

- Upper slot: Data overwrite security unit, camera direct print card, or NetWare card
- Lower slot: HDD encryption unit or VM card

5. **Hook the SD card slot cover onto the opening, attach it flat against the controller board, and then fasten it using the screw.**



BMV181S

6. **Plug in the power cord, and then turn on the printer.**
7. **See the control panel menu to confirm that the SD card was installed correctly.**

Note

- Do not touch the card while the printer is in use. The card may come loose, even if it is pushed only slightly. The SD card slot cover must be reattached.
- You can confirm that the SD card was installed correctly by checking the control panel menu. Depending on the SD card, certain menu items appear on the display.
  - Data overwrite security unit: [Memory Erase Status] appears on the top level menu.
  - HDD encryption unit: [Machine Data Encryption] appears in [Security Options].
  - NetWare card: [NetWare] appears when you select [Host Interface], then [Network], and then [Effective Protocol].

- Confirm that the camera direct print card is correctly installed by printing the configuration page. If the camera direct print card is installed properly, [PictBridge] will appear for [Printer Language] in [System Reference].
- If the card is not installed properly, repeat the procedure from the beginning. If it cannot be installed correctly even after reattempting installation, contact your sales or service representative.
- For information on printing the configuration page, see "List/Test Print Menu", Software Guide.

3. Connecting the Printer Cables

This chapter explains how to connect network and USB cables.

Ethernet Cable Connection

Prepare a hub and other network devices, and connect the Ethernet cable to the printer.

If you are connecting the printer using the printer's standard Ethernet port, use a 10BASE-T or 100BASE-TX cable.

If you are connecting the printer using the optional Gigabit Ethernet board, you can use a 1000BASE-T cable, instead of a 10BASE-T or 100BASE-TX cable.

⚠CAUTION

- A network interface cable with a ferrite core must be used for RF interference suppression.
- For users outside the United States of America: properly shielded and grounded cables and connectors must be used for connections to a host computer (and/or peripheral) in order to meet emission limits.
- For users in the United States of America: properly shielded and grounded cables and connectors must be used for connections to a host computer (and/or peripheral) in order to meet FCC emission limits.

Important

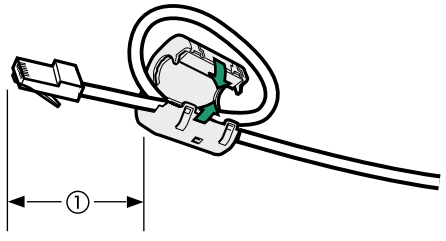
- **An Ethernet cable is not supplied with this printer. Select your cable according to the network environment.**
- **The printer's Ethernet port is not available when the Gigabit Ethernet board is attached to the printer.**
- **Use the following Ethernet cables:**
  - **When using 100Base-TX/10Base-T**

    Unshielded twisted pair (UTP) cable or Shielded twisted pair (STP) cable, category 5 or greater.
  - **When using 1000Base-T:**

    Unshielded twisted pair (UTP) cable or Shielded twisted pair (STP) cable, category 5e or greater.

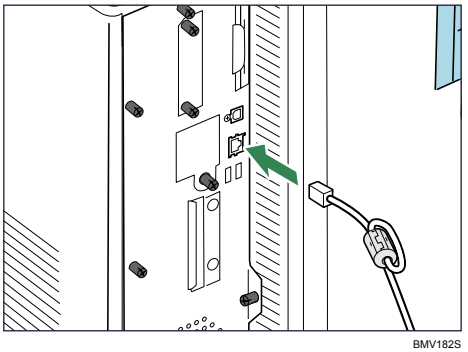
Connecting to the standard Ethernet port

1. **Attach the ferrite core supplied with this printer at the printer end of the Ethernet cable about 5 cm (2.5 inches) (①) from the connector, making a loop as shown.**



BBM011S

2. **Connect the Ethernet cable to the Ethernet port that is located on the left side of the printer.**



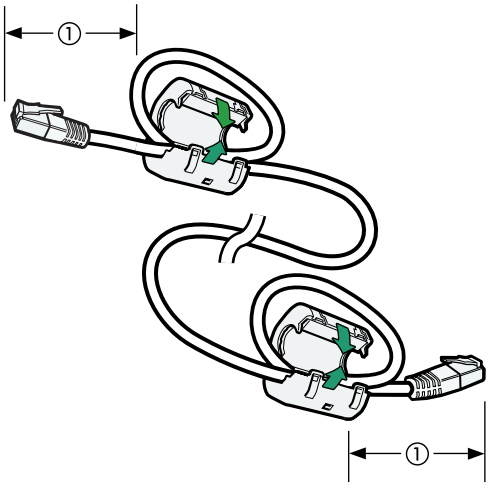
BMV182S

3. **Connect the other end of the cable to the network, for example using a hub.**

Connecting to the Ethernet port of the Gigabit Ethernet board

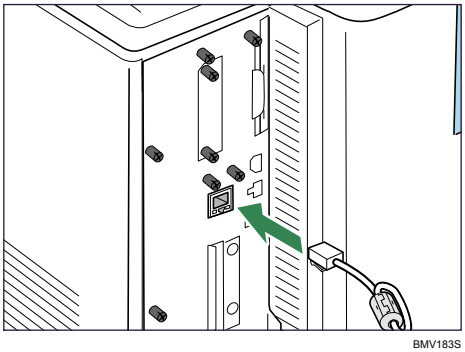
1. **Attach the two ferrite cores to the Ethernet cable.**

   Attach the ferrite cores supplied with the Gigabit Ethernet board about 5 cm (2.5 inches) (①) from the connector at both ends of the Ethernet cable, making a loop as shown.



BAX007S

2. **Connect the Ethernet cable to the Ethernet port of the Gigabit Ethernet board.**



BMV183S

3. **Connect the other end of the cable to a network hub, for example, to connect the printer to the network.**

Note

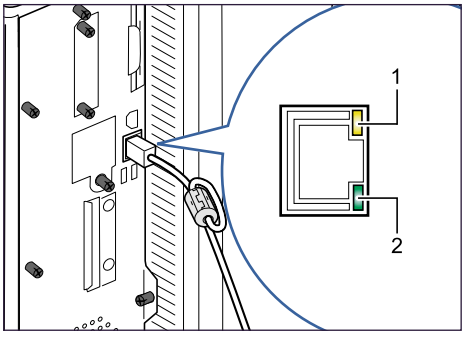
- For details about configuring the network environment, see "Ethernet Configuration".

Reference

- p.54 "Installing the Gigabit Ethernet Board"
- p.79 "Ethernet Configuration"

Reading the LED Lamps

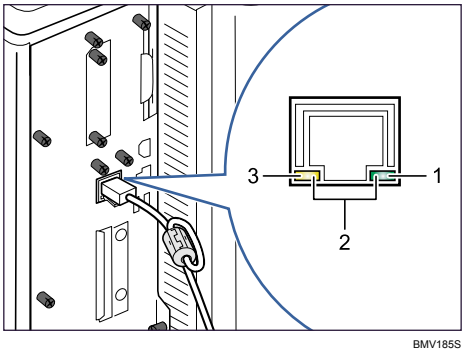
Standard Ethernet port



BMV184S

1. Yellow: turns on when 100BASE-TX is in use. It turns off when 10BASE-T is in use.
2. Green: turns on when the printer is properly connected to the network.

Ethernet port of the Gigabit Ethernet board



BMV185S

1. Green: turns on when 10BASE-T is in use.
2. Both the green and yellow lamps are lit when 1000BASE-T is in use.
3. Yellow: turns on when 100BASE-TX is in use.

USB Cable Connection

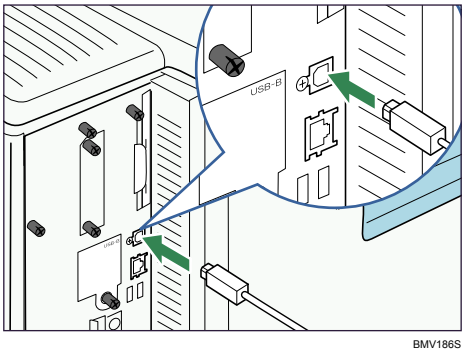
⚠CAUTION

- For users outside the United States of America: properly shielded and grounded cables and connectors must be used for connections to a host computer (and/or peripheral) in order to meet emission limits.
- For users in the United States of America: properly shielded and grounded cables and connectors must be used for connections to a host computer (and/or peripheral) in order to meet FCC emission limits.

Important

- **USB connection is possible under Windows 2000/XP/Vista, Windows Server 2003/2003 R2/2008, Mac OS 9, and Mac OS 10.3.3 or later.**
- **USB connection with a Macintosh is only possible via the printer's USB port.**
- **A USB cable is not supplied with this printer. Select your cable according to the computer.**

1. **Connect the square-shaped connector of the USB cable to USB port B on the left side of the printer.**

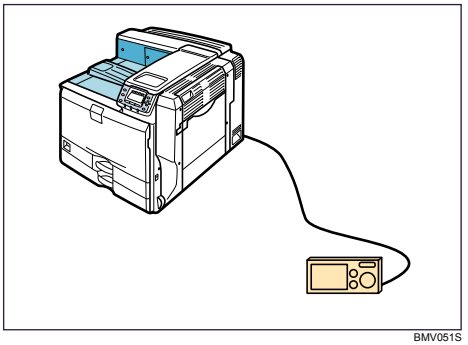


BMV186S

2. **Connect the opposite end's flat connector to the desired device such as your computer's USB interface, or a USB hub.**

Digital Camera Connection

This printer supports direct printing, which allows you to print images taken with a digital camera by connecting the camera directly to the printer. The following describes how to connect the printer to a digital camera.

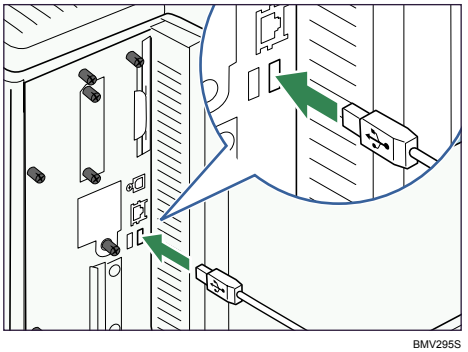


BMV051S

Important

- This function requires Camera direct print card.
- Make sure your digital camera supports PictBridge.
- A USB cable is not supplied. Use the USB cable that was included with your digital camera.

1. Confirm that the printer and digital camera are turned on.
2. Connect the USB cable to USB port A on the printer and to your digital camera.



BMV295S

3. When a digital camera is not connected to the printer, store the USB cable in a location where it will not be damaged.

Note

- For the printing method, see "PictBridge Printing", Software Guide.

Reference

- p.67 "Installing SD Card Options"

Parallel Cable Connection

The type of cable required varies depending on the computer you are using. Make sure to use the interface cable compliant with your computer.

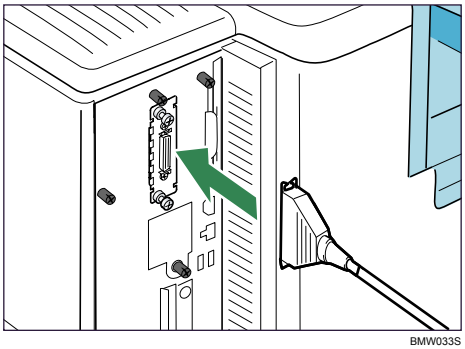
⚠CAUTION

- For users outside the United States of America: properly shielded and grounded cables and connectors must be used for connections to a host computer (and/or peripheral) in order to meet emission limits.
- For users in the United States of America: properly shielded and grounded cables and connectors must be used for connections to a host computer (and/or peripheral) in order to meet FCC emission limits.

Important

- **The printer's parallel connection is a standard bidirectional interface that requires an IEEE 1284-compliant half pitch 36-pin parallel cable and host computer parallel port.**
- **Use shielded interface cable. Unshielded cables create electromagnetic interference.**

1. **Turn off the printer and computer.**
2. **Connect the interface cable to the IEEE 1284 interface board.**



BMW033S

3. **Connect the other end of the interface cable to your computer, and then secure the cable.**

Note

- "Preparing for Printing", Software Guide

Reference

- p.65 "Installing the IEEE 1284 Interface Board"

4. Configuration

This chapter explains supported network connections, and settings for the IP addresses and the Wireless LAN security.

Ethernet Configuration

Configure the following network settings according to the network environment using the control panel.

Important

- **The following table shows the control panel settings and their default values. These items appear in the [Host Interface] menu.**

Setting Name	Default
Machine IPv4 Address	• DHCP: On • IPv4 Address: 11.22.33.44 • Subnet Mask: 0.0.0.0 • Gateway Address: 0.0.0.0
IPv6 Stateless Setting	Active
IPsec	Inactive
NW Frame Type	Auto Select
Effective Protocol	• IPv4: Active • IPv6: Inactive • NetWare: Inactive • SMB: Active • AppleTalk: Inactive
Ethernet Speed	Auto Select
IEEE802.1X Auth.(Ethernet)	Inactive
Restr.IEEE802.1X Auth.Def.	-
LAN Type	Ethernet

Note

- If DHCP is in use on your network, the IP address, subnet mask, and gateway address are all set automatically.

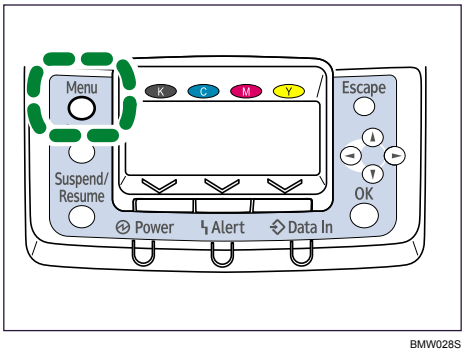
- If the printer is already placed on a TCP/IP-capable environment, you can also use SmartDeviceMonitor for Admin or a Web browser to configure IP address-related settings.

Specifying an IP Address (No DHCP)

Follow this procedure to assign a specific IP address to the printer. This is only necessary when you will use the printer on a network without DHCP, or want to prevent the printer's IP address from changing.

Before beginning, make sure that you know the IP address, subnet mask and gateway address that the printer will use.

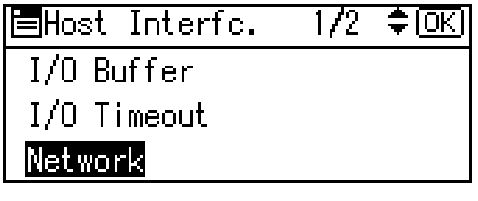
1. **Press the [Menu] key.**



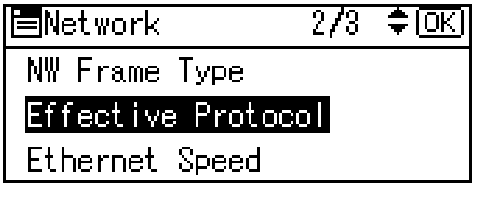
BMW028S

2. **Press the [▼] or [▲] key to select [Host Interface], and then press the [OK] key.**

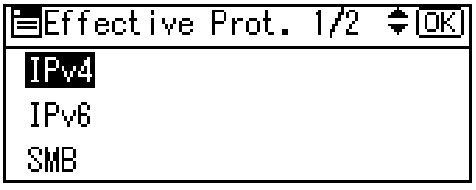
3. **Press the [▼] or [▲] to select [Network], and then press the [OK] key.**



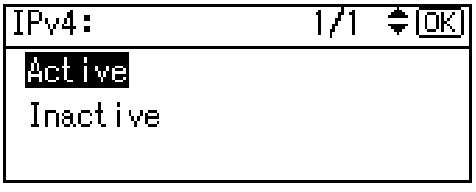
4. **Press the [▼] or [▲] key to select [Effective Protocol], and then press the [OK] key.**



5. **Press the [▼] or [▲] key to select the appropriate network protocol, and then press the [OK] key.**



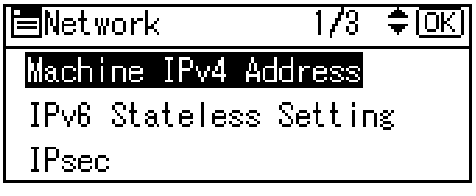
6. **Press the [▼] or [▲] key to select [Active] or [Inactive], and then press the [OK] key.**



Set other protocols you need to set in the same way.

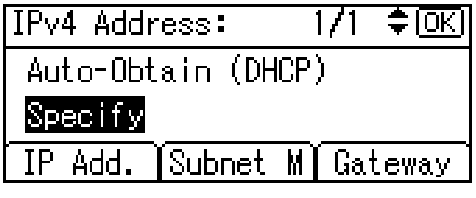
- Select [Inactive] for unused protocols.
- Enable IPv4 to use the pure IPv4 environment of NetWare5/5.1, Netware 6/6.5.

7. **Press the [Escape] key until the screen returns to the [Network] menu.**
8. **If you use IPv4, assign the IPv4 address to the printer. Press the [▼] or [▲] key to select [Machine IPv4 Address], and then press the [OK] key.**



To get the IP address for the printer, contact your network administrator.

9. **To specify the IP address, press [IP Add.].**



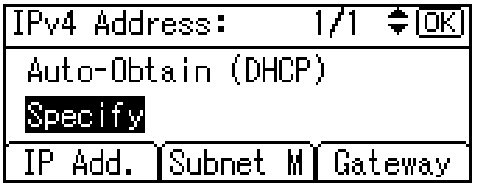
If you use IPv4, also assign the subnet mask and gateway address. To assign these, press [Subnet M] or [Gateway].

10. **Press the [▼] or [▲] to enter the address, and then press the [OK] key.**

Press the [▼] or [▲] key to enter the left-most entry field of the address. After entering the left field, press the [▶] key, and then you can enter the next field. After completing entry of the all fields, press the [OK] key. Use the same method to assign the subnet mask and gateway address.

- Change the IP address from "11.22.33.44" to an IP address supported by your network.

11. **Press the [▼] or [▲] key to select [Specify], and then press the [OK] key.**



If you do not select [Specify] in this step, the address you set will not be saved.

12. **Press the [Menu] key to return to the initial screen.**
13. **Print a configuration page to confirm the settings.**

4

Note

- For details about printing the configuration page, see "List/Test Print Menu", Software Guide.

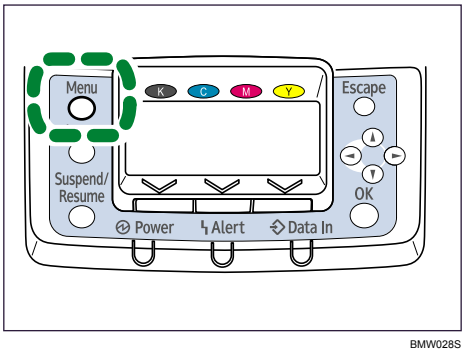
Receiving an IP Address Automatically (DHCP)

Follow this procedure to set the printer to receive an IP address automatically using DHCP. The DHCP feature is active by default, so this procedure is only required if you have changed the default settings.

Important

- **When [DHCP] is selected, you cannot configure the IP address, subnet mask, or gateway address.**
- **Consult your network administrator for information about configuring network settings.**

1. **Press the [Menu] key.**



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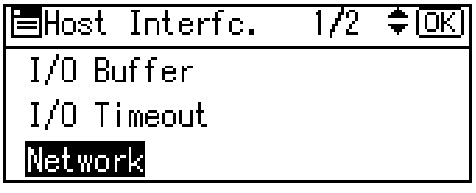
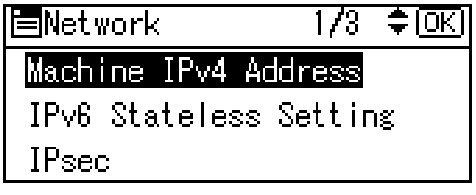
2. **Press the [▼] or [▲] key to select [Host Interface], and then press the [OK] key.**

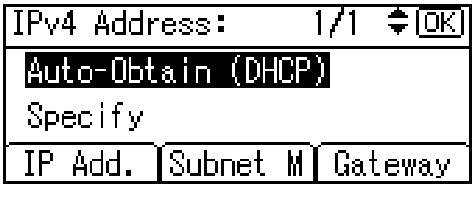
3. **Press the [▼] or [▲] key to select [Network], and then press the [OK] key.**



4. **Press the [▼] or [▲] key to select [Machine IPv4 Address], and then press the [OK] key.**



5. **Press the [▼] or [▲] key to select [Auto-Obtain (DHCP)], and then press the [OK] key.**



The printer will automatically receive an IP address.

To check the detected addresses, press the following:

- [IP Add.] : IP address
- [Subnet M] : Subnet mask
- [Gateway] : Gateway address

6. **Press the [Menu] key to return to the initial screen.**
7. **Print a configuration page to confirm the settings.**

Note

- For details about printing the configuration page, see "List/Test Print Menu", Software Guide.

Configuring Network Settings When Using NetWare

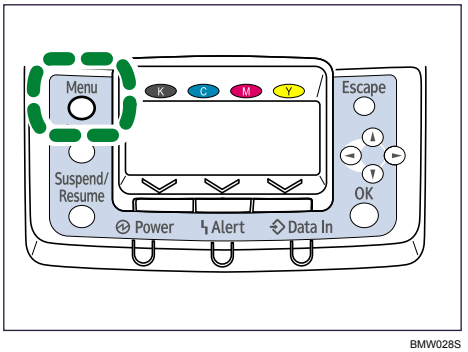
If you use NetWare, select the appropriate NetWare frame type.
Select one of the items below as necessary.

- Auto Select
- Ethernet II
- Ethernet 802.2
- Ethernet 802.3
- Ethernet SNAP

Important

- Usually, you can use the default (Auto Select). When you first select [Auto Select], the frame type detected by the printer is adopted. However, if your network can use more than two frame types, the printer may fail to select the correct frame type with [Auto Select] selected. In this case, select the preferred frame type.

1. Press the [Menu] key.



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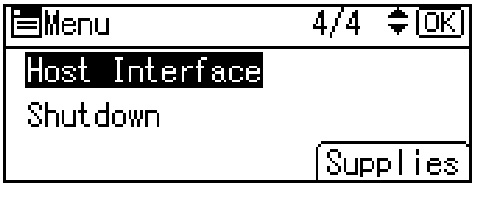
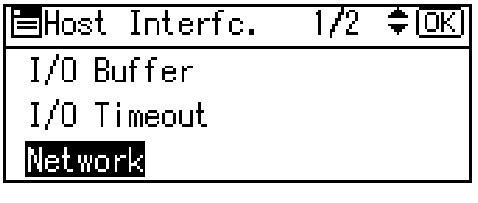
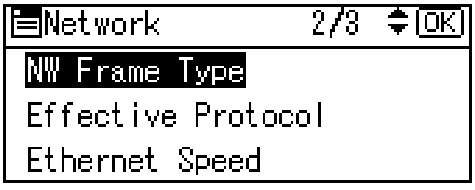
2. Press the [▼] or [▲] key to select [Host Interface], and then press the [OK] key.



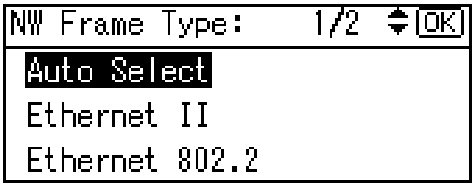
3. Press the [▼] or [▲] key to select [Network], and then press the [OK] key.



4. **Press the [▼] or [▲] key to select [NW Frame Type], and then press the [OK] key.**



5. **Press the [▼] or [▲] key to select the frame type to use, and then press the [OK] key.**



6. **Press the [Menu] key to return to the initial screen.**
7. **Print a configuration page to confirm the settings.**

Note

- For details about printing the configuration page, see "List/Test Print Menu", Software Guide.

Setting the Ethernet Speed

You can set the speed that the printer will use for Ethernet communications. In most cases, this should be left on the default setting, [Auto Select]. This setting allows two interfaces to automatically determine the optimum speed when they are connected.

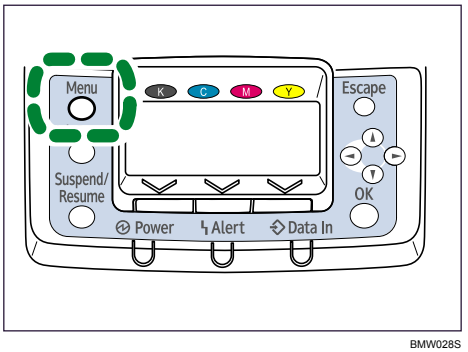
Router/HUB	Printer				
	[10Mbps Half Duplex]	[10Mbps Full Duplex]	[100Mbps Half Duplex]	[100Mbps Full Duplex]	[Auto Select]
10 Mbps half duplex	○	-	-	-	○
10 Mbps full duplex	-	○	-	-	-
100 Mbps half duplex	-	-	○	-	○
100 Mbps full duplex	-	-	-	○	-

Router/HUB	Printer				
	[10Mbps Half Duplex]	[10Mbps Full Duplex]	[100Mbps Half Duplex]	[100Mbps Full Duplex]	[Auto Select]
auto-negotiation (auto selection)	○	-	○	-	○

Important

- Connection cannot be established if the selected Ethernet speed does not match your network's transmission speed.
- The auto-negotiation mechanism allows two interfaces to automatically determine an optimum Ethernet speed as soon as they are connected. We recommend you select [Auto Select].

1. Press the [Menu] key.



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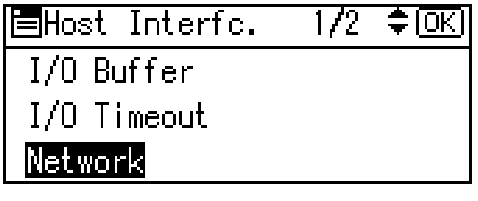
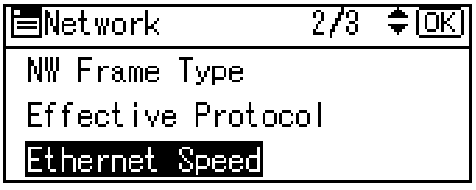
2. Press the [▼] or [▲] key to select [Host Interface], and then press the [OK] key.

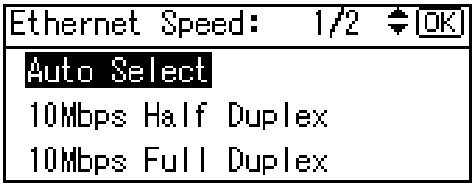
3. Press the [▼] or [▲] key to select [Network], and then press the [OK] key.



4. **Press the [▼] or [▲] key to select [Ethernet Speed], and then press the [OK] key.**



5. **Press the [▼] or [▲] key to select the Ethernet speed, and then press the [OK] key.**



6. **Press the [Menu] key to return to the initial screen.**
7. **Print a configuration page to confirm the settings.**

Note

- For details about printing the configuration page, see "List/Test Print Menu", Software Guide.

Wireless LAN Configuration

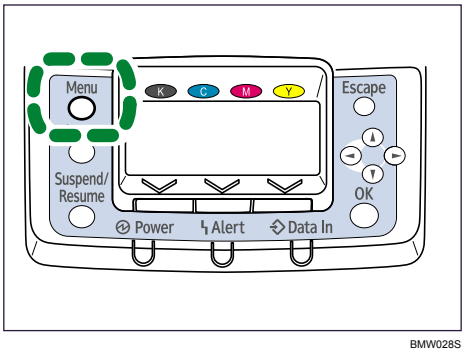
Configure the following wireless LAN settings according to the network environment using the control panel.

Important

- **Ethernet and Wireless LAN cannot be used at the same time.**
- **To use wireless LAN, set as follows using the control panel: press the [Menu] key, select [Host Interface], [Network], [LAN Type], and then select [Wireless LAN]. In addition, you must set the IP address, subnet mask, gateway address, DHCP, Frame Type (NW), and active protocol as explained in "Ethernet Configuration".**
- **The following table shows the control panel settings and their defaults. These items appear in the [Host Interface] menu.**

Setting Name	Default
Communication Mode	Infrastructure Mode
SSID Setting	blank
Ad-hoc Channel	11
Security Method	Off
Wireless LAN Signal	-
Restore Defaults	-

1. **Press the [Menu] key.**



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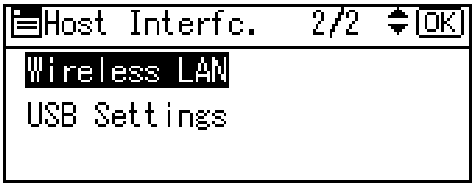
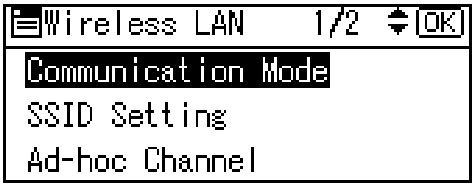
2. **Press the [▼] or [▲] key to select [Host Interface], and then press the [OK] key.**

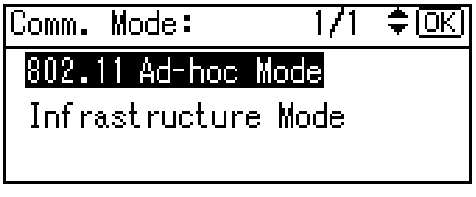
3. **Press the [▼] or [▲] key to select [Wireless LAN], and then press the [OK] key.**



4. **Press the [▼] or [▲] key to select [Communication Mode], and then press the [OK] key.**

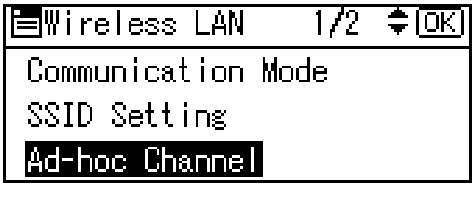


5. **Press the [▼] or [▲] key to select the transmission mode of the wireless LAN, and then press the [OK] key.**

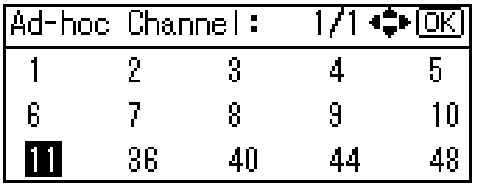


- To communicate wirelessly with a device that does not require an SSID to be set, select [802.11 Ad-hoc Mode].
- The transmission mode of the wireless LAN can also be set using Web Image Monitor.

6. **If [802.11 Ad-hoc Mode] is selected for [Communication Mode], press the [▼] or [▲] key to select [Ad-hoc Channel], and then press the [OK] key.**



7. **Press the [▼] or [▲] key to select the Ad-hoc channel, and then press the [OK] key.**



Select an Ad-hoc channel according to the IEEE 802.11 standard you are using.

When using IEEE 802.11 b/g:

220-240V Channels 1 to 13

120V Channels 1 to 11

When using IEEE 802.11 a:

220-240V 120V Channels 36,40,44,48

8. **Press the [▼] or [▲] key to select the appropriate channel, and then press the [OK] key.**
9. **Press the [▼] or [▲] key to select [Communication Speed], and then press the [OK] key.**
10. **Press the [▼] or [▲] key to select the appropriate speed, and then press the [OK] key.**

The default is [Auto]. If you need to change the transmission speed depending on the environment you are using, select the appropriate speed.

11. **Print a configuration page to confirm the settings.**

Note

- For details, see Web Image Monitor Help, and "Using Web Image Monitor", Software Guide.
- For details about printing the configuration page, see "List/Test Print Menu", Software Guide.

Reference

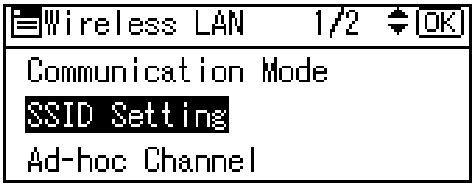
- p.79 "Ethernet Configuration"

Setting the SSID

When [Communication Mode] is set to [Infrastructure Mode] or [802.11 Ad-hoc Mode], you must specify the Service Set Identifier (SSID) of the wireless access point that the printer will connect to for network access.

Ask the network administrator for the SSID to use.

1. **In the [Wireless LAN] menu, press the [▼] or [▲] key to select [SSID Setting], and then press the [OK] key.**



   If an SSID has been set, you can check the current SSID setting.

2. **Press [Enter].**
3. **Press the [▼] or [▲] key to enter characters, and then press [Accept].**

   You can switch among upper/lower cases, numeric codes, and symbols by pressing [ABC/123].

   The characters that can be used are ASCII 0 × 20-0 × 7e (32 bytes).

4. **Print a configuration page to confirm the settings.**

Note

- The SSID can also be set using a Web browser. For details, see the Web Image Monitor Help, and "Configuring the Network Interface Board", Software Guide. For details about printing the configuration page, see "List/Test Print Menu", Software Guide.

Cautions When Using a Wireless LAN

A wireless LAN uses radio waves instead of cables to send and receive data. Because radio waves usually pass through walls and other obstructions, the following problems may arise if you do not configure wireless security settings.

Information leakage

Information such as IDs, passwords, credit card numbers, and e-mail content may be seen by an unauthorized 3rd party.

Unauthorized network access

- Damage to or alteration of data and/or system configurations by viruses or other malware.
- Impersonation of legitimate network users, resulting in data theft.
- Theft of sensitive or confidential data.

To minimize the possibility of these threats, it is recommended that you check the available features of this printer, wireless access points, and other equipment that uses the wireless LAN, and configure security settings for the wireless LAN.

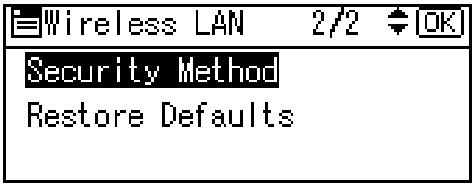
Setting Security Method of Wireless LAN

Setting a WEP Key

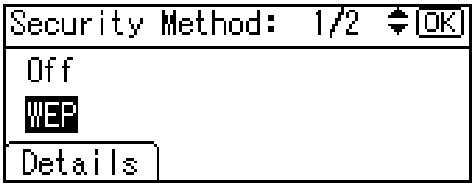
If the wireless network uses WEP to encrypt transmitted data, the corresponding WEP key must be set to the printer to allow communications with other network devices.

Ask the network administrator for the WEP key to use.

1. **In the [Wireless LAN] menu, press the [▲] or [▼] key to select [Security Method], and then press the [OK] key.**

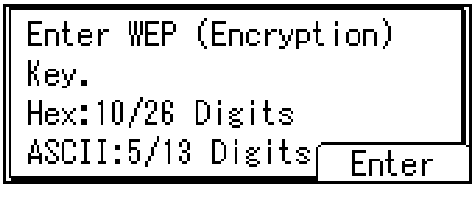


2. **Press the [▲] or [▼] key to select [WEP], and then press [Details].**



When activating the WEP setting, you will need to enter the WEP key. If you have not entered the key, be sure to enter it.

3. **A confirmation message appears. Press [Enter].**



4. **Press the [▲] or [▼] key to enter characters, and then press [Accept].**

- When entering a character, pressing [Accept] will mask it with an asterisk for security reasons.

- When using 64-bit WEP, up to 10 hexadecimal characters or five ASCII characters can be entered. When using 128-bit WEP, up to 26 hexadecimal characters or 13 ASCII characters can be used.
- Up to 10 or 26 hexadecimal characters and 5 or 13 ASCII characters can be entered.
- For ASCII character strings, uppercase and lowercase letters are differentiated, so be sure to enter characters in the required case.

5. **Press the [Menu] key to return to the initial screen.**
6. **Print a configuration page to confirm the settings.**

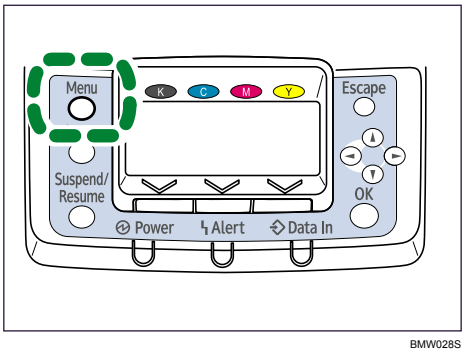
Note

- The WEP key can also be set using a Web browser. For details, see the Web Image Monitor Help.
- For details about printing the configuration page, see "List/Test Print Menu", Software Guide.

Setting WPA

In the case of using WPA on a network, activate the WPA setting to be used for communication along with WPA. Consult your network administrator for information about making authentication settings.

1. **Press the [Menu] key.**



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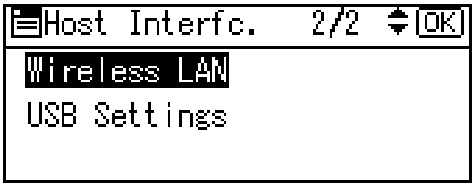
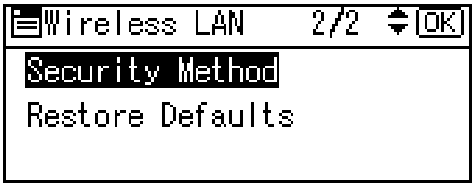
2. **Press the [▲] or [▼] key to select [Host Interface], and then press the [OK] key.**

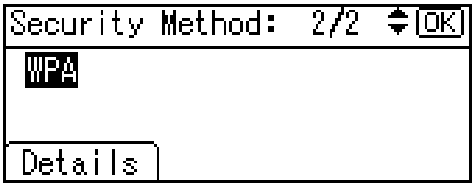
3. **Press the [▲] or [▼] key to select [Wireless LAN], and then press the [OK] key.**



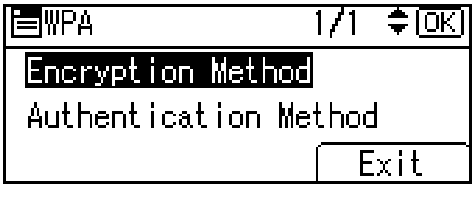
4. **Press the [▲] or [▼] key to select [Security Method], and then press the [OK] key.**



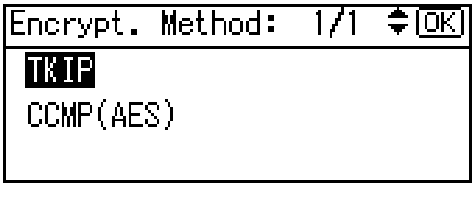
5. **Press the [▲] or [▼] key to select [WPA], and then press [Details].**



6. **Press the [▲] or [▼] key to select [Encryption Method], and then press the [OK] key.**



7. **Press the [▲] or [▼] key to select encryption method, and then press the [OK] key.**



Consult your network administrator for information about making encryption settings.

Encryption settings are as follows:

- [TKIP]

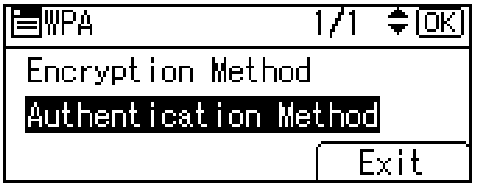
  Uses the same algorithm as RC4, but further reduces vulnerability using methods such as key mixing.

- [CCMP(AES)]

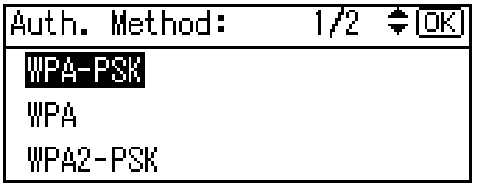
  Increases security using AES (Advanced Encryption Standard).

Wait for two seconds. The display returns to the [WPA] menu.

8. **Press the [▲] or [▼] key to select [Authentication Method], and then press the [OK] key.**



9. **Press the [▲] or [▼] key to select authentication method, and then press the [OK] key.**



Authentication settings are as follows:

- [WPA-PSK]

  Performs authentication using an encryption key (a Pre-Shared Key) that is shared by the access point and client.

- [WPA]

  WPA uses CA certificates and a RADIUS server to provide secure wireless communication.

- [WPA2-PSK]

  As with WPA-PSK, authenticate using the encryption key (a Pre-Shared Key) shared by the access point and client.

- [WPA2]

  WPA2 is an expanded version of WPA that fully supports IEEE802.11i.

10. **If [WPA] or [WPA2] is selected in step 9, a confirmation message appears. Press the [OK] key.**

Wait for two seconds. The display returns to the [WPA] menu.

11. **If [WPA-PSK] or [WPA2-PSK] is selected in step 9, a confirmation message appears. Press [Enter].**

12. **Press the [▲] or [▼] key to enter the Pre-Shared Key, and then press the [OK] key.**

- When entering a character, pressing [OK] will mask it with an asterisk for security reasons.
- Enter the Pre-Shared Key using between 8 and 63 ASCII characters.
- Uppercase and lowercase letters are differentiated, so be sure to enter characters in the required case.

13. **When all characters have been entered, press [Accept].**

Wait for two seconds. The display returns to the [Authentication Method] menu.

14. **Press the [Menu] key.**

The initial screen appears.

15. **Print a configuration page to confirm the settings.**

Note

- For details about printing a configuration page, see "List/Test Print Menu", Software Guide.

Configuring 802.1X (WPA/WPA2)

WPA/WPA2 uses an authentication server to provide greatly enhanced security compared to WPA-PSK/WPA2-PSK

IEEE 802.1X (WPA/WPA2) can be configured using Web Image Monitor's administrator mode.

To configure the settings when using Ethernet; select [Host Interface] and [IEEE802.1X Auth.(Ethernet)] in [Network] on the display, and then select [Active].

To configure the settings when using a wireless LAN; configure WPA using the control panel or Web Image Monitor.

Important

- To set WPA/WPA2 for the wireless LAN, you must enable SSL.
- To set WPA/WPA2 for the wireless LAN, you must use Web Image Monitor.

Installing a Site Certificate

1. Access the authentication server and obtain the CA certificate.

   Methods of obtaining certificates differ according to the operating system you are using.
2. Start your Web browser.
3. Enter "http://(printer's address)/" in the address bar of a Web browser.
4. Enter your user name and password, and then click [Login].

   For details about the login user name and password, contact your administrator.
5. Click [Configuration].
6. [Site Certificate] in the “Security” area.
7. Click [Browse] on the “Site Certificate to Import” window, and then select the CA certificate you obtained.
8. Click [Import].
9. Click [OK].
10. Click [Logout].
11. Quit the Web browser.

Installing Device Certificate

Depending on the settings of your choice, certain steps in the following procedure may not be required.

1. Start your Web browser.

2. **Enter "http://(printer's address)/" in the address bar of a Web browser.**
3. **Enter your user name and password, and then click [Login].**
   For details about the login user name and password, consult your administrator.
4. **Click [Configuration].**
5. **Click [Device Certificate] in "Security" area.**
6. **Check [Certificate 2] on the "Device Certificate" window, and then click [Request].**
7. **Enter appropriate "Common Name" and "Country Code" on "Certificate Information" page, and then click [OK].**
8. **"Updating..." appears. Wait for about 2 minutes, and then click [OK].**
9. **Click [Details], shown in the "Device Certificate" window as the memo pad icon for "Requesting".**
10. **Select all, and then copy the entire "Text for Requested Certificate" text that is displayed in the "Certificate Status" window.**
11. **Access the certificate authority server, and then obtain the CA signified certificate using the text copied into "Text for Requested Certificate" windows.**

    Obtaining the certificate differs depending on the environment you want to use.
12. **Click [Certificate 2] on "Device Certificate" window, and then click [Install].**
13. **Using a text editor, open the CA signified certificate downloaded in step 11, and then copy over all the text.**
14. **In the [Install Certificate] window, paste all the text copied into the CA signified certificate.**
15. **Click [OK].**
16. **"Updating..." appears. Wait for about one or two minutes, and then click [OK].**

    Check that the "Device Certificate" shows "Installed".
17. **Click [Certificate 2] on "Certification", and then click [OK].**
18. **Click [Logout].**
19. **Quit the Web browser.**

Note

- You can select any Certificate between 1 and 4 in the "Device Certificate" window. Be sure to select the same Certificate number in both the " Device Certificate " window and the "Certification".
- If you request two certificates simultaneously, the certificate authority might not display either certificate. Click [Cancel Request] to cancel the request.
- Click [Cancel Request] to cancel the request for the server certificate.
- If "Not found" appears after clicking [OK] in steps 8 and 16, wait one or two minutes, and then click [Refresh].

Setting Items of WPA/WPA2

1. **Start your Web browser.**
2. **Enter "http://(printer's address)/" in the address bar of a Web browser.**
3. **Enter your user name and password, and then click [Login].**

   For details about the login user name and password, consult your administrator.
4. **Click [Configuration], and then click [Wireless LAN Settings] in the "Interface" area.**
5. **Select [Infrastructure Mode] in "Communication Mode".**
6. **Enter the alphanumeric characters (a-z, A-Z, or 0-9) in [SSID] according to the access point you want to use.**
7. **Select [WPA] in "Security Method".**
8. **Select [TKIP] or [CCMP (AES)] in "WPA Encryption Method" according to the access point you want to use.**
9. **Select [WPA] or [WPA2] in "WPA Authentication Method".**
10. **Click [OK].**
11. **Click [Logout].**
12. **Quit the Web browser.**

Note

- You can select [Certificate 1] or [Certificate 2] in the "Device Certificate" window. Note that if you select [Certificate 1] in the "Device Certificate" window, you must select [Certificate 1] in the "IEEE 802.11a" drop down menu in the "Certification" window.
- If there is a problem with settings, you might not be able to communicate with the printer. To identify the problem, print a network summary.
- If you cannot identify the problem, reset the printer interface to normal, and then repeat the procedure from the beginning.

5. Paper and Other Media

This chapter explains the paper sizes and type supported by this printer, and how to load paper in the paper trays.

Supported Paper for Each Tray

This section describes the paper size, feed direction, and the maximum amount of paper that can be loaded into each paper tray in this printer.

Symbols

In this manual	On the display	Paper feed direction
⇨ (Feed direction)	A4 (210×297) $8^1/_2$×11	Short-edge feed direction
⇨ (Feed direction)	A5 (210×148) $8^1/_2$×$5^1/_2$	Long-edge feed direction

Note

- Be careful of the paper feed direction when loading paper. The direction is determined for each paper size.
- If you want to change the default setting, contact your sales or service representative.

Tray 1

	220-240 V	120 V
Paper sizes	A4	$8^1/_2$" × 11" (Letter)

	220-240 V	120 V
Types of Paper	Plain Paper Recycled Paper Special Paper 1 to 3 Color Paper Letterhead Coated Paper:Gloss Print Coated Paper Preprinted Bond Paper Cardstock Middle Thick Thick Paper 1 to 3 +Custom 1 to 8	

Note

- +Custom X (X: 1 to 8) is the paper type that is named under a unique name, according to usage. For details about registering, see "Registering Names to Paper Types".
- The paper tray guides are fixed. However, you can switch the setting between A4, B5, A5 and $8\frac{1}{2}$" × 11" (Letter). If you wish to use a paper size other than the default, contact your sales or service representative.

Reference

- p.136 "Registering Names to Paper Types"

Tray 2, 500/1000-sheet Paper Feed Unit (Tray 3 to 5)

	220-240 V	120 V
Paper sizes selected automatically	A3, A4, A5, B4 JIS, B5 JIS, $8\frac{1}{2}$" × 11" (Letter)	11" × 17", $8\frac{1}{2}$" × 14" (Legal), $8\frac{1}{2}$" × 11" (Letter), $7\frac{1}{4}$" × $10\frac{1}{2}$" (Executive), A4, A5, B5 JIS

	220-240 V	120 V
Paper sizes requiring manual setting	11" × 17"□, 8 1/2" × 14" (Legal)□, 8" × 13" (F/GL)□, 8 1/2" × 13" (Foolscap)□, 8 1/2" × 11" (Letter)□, 8 1/4" × 13" (Folio)□, 7 1/4" × 10 1/2" (Executive)□, 8K□, 16K□□ Custom size: 182 to 297 mm in width, 148 to 432 mm in length *1	8 1/2" × 13" (Foolscap)□, 8 1/4" × 13" (Folio)□, 8" × 13" (F/GL)□, 7 1/4" × 10 1/2" (Executive)□, A3□, A4□, B4 JIS□, B5 JIS□, 8K□, 16K□□ Custom size: 7.17" to 11.69" in width, 5.83" to 17.00" in length *1
Types of Paper	Plain Paper Recycled Paper Special Paper 1 to 3 Color Paper Letterhead Coated Paper:Gloss Print Coated Paper Preprinted Bond Paper Cardstock Middle Thick Thick Paper 1 to 3 +Custom 1 to 8	

*1 If the length of custom size paper is 420 mm (16.54 inches) or more, the maximum width is 279 mm (10.98 inches)

Note

- +Custom X (X: 1 to 8) is the paper type that is named under a unique name, according to usage. For details about registering, see "Registering Names to Paper Types".
- When using paper whose sizes are not automatically selected, select the paper size manually using the control panel. See "Loading Paper".

Reference

- p.136 "Registering Names to Paper Types"
- p.118 "Loading Paper"

2000-sheet Paper Feed Unit (Tray 3)

	220-240 V	120V
Paper sizes	A4	$8\frac{1}{2}$" × 11" (Letter)
Types of Paper	Plain Paper Recycled Paper Special Paper 1 to 3 Color Paper Letterhead Coated Paper:Gloss Print Coated Paper Preprinted Bond Paper Cardstock Middle Thick Thick Paper 1 to 3 +Custom 1 to 8	

Note

- +Custom X (X: 1 to 8) is the paper type that is named under a unique name, according to usage. For details about registering, see "Registering Names to Paper Types".
- The paper tray guides are fixed. However, you can switch the setting between A4 and $8\frac{1}{2}$" × 11" (Letter). If you wish to use a paper size other than the default, contact your sales or service representative.

Reference

- p.136 "Registering Names to Paper Types"

Bypass Tray

	220-240 V	120 V
Paper sizes selected automatically	A3, A4, A5, A6	11" × 17", $8\frac{1}{2}$" × 11" (Letter), $5\frac{1}{2}$" × $8\frac{1}{2}$" (Half Letter)

	220-240 V	120 V
Paper sizes requiring manual setting	B4 JIS, B5 JIS, B6 JIS, 11" × 17", 8 1/2" × 14" (Legal), 8 1/2" × 13" (Foolscap), 8 1/2" × 11" (Letter), 8 1/4" × 13" (Folio), 8" × 13" (F/GL), 7 1/4" × 10 1/2" (Executive), 5 1/2" × 8 1/2" (Half Letter), 4 1/8" × 9 1/2", 3 7/8" × 7 1/2", C5 Env., C6 Env., DL Env., 8K, 16K, 12" × 18" Custom size: 90 to 305 mm in width, 148 to 1260 mm in length	8 1/2" × 14" (Legal), 8 1/2" × 13" (Foolscap), 8 1/4" × 13" (Folio), 8" × 13" (F/GL), 7 1/4" × 10 1/2" (Executive), 4 1/8" × 9 1/2", 3 7/8" × 7 1/2", C5 Env., C6 Env., DL Env., A3, A4, A5, A6, B4 JIS, B5 JIS, B6 JIS, 8K, 16K, 12" × 18" Custom size: 3.55" to 12.00" in width, 5.83" to 49.60" in length
Types of Paper	Plain Paper Recycled Paper Special Paper 1 to 3 Color Paper Letterhead Labels Transparency Envelope Coated Paper:Gloss Print Coated Paper Preprinted Bond Paper Cardstock Thin Paper Middle Thick Thick Paper 1 to 3 +Custom 1 to 8	

5

Note

- +Custom X (X: 1 to 8) is the paper type that is named under a unique name, according to usage. For details about registering, see "Registering Names to Paper Types".

- Tracing paper can curl easily due to humidity. If the paper has curled considerably, flatten it first, and then load it.
- Some types of paper have a clear vertical or horizontal orientation depending on the direction of the fibers. If you feed this type of paper in the opposite orientation, paper jams can occur. When loading tracing paper, load the paper so that it is fed in the direction of the fibers.
- Print quality may not be guaranteed for custom size paper that is wider than 297 mm (11.69 inches) in width or longer than 433 mm (17.05 inches) in length.
- When using paper whose sizes are not automatically selected, select the paper size manually using the control panel. See "Loading Paper".

Reference

- p.136 "Registering Names to Paper Types"
- p.118 "Loading Paper"

Paper Weight and Capacity

Tray	Supported paper weight	Supported capacity (Plain paper)
Tray 1	60 to 256 g/m^2 (16 to 68 lb.)	550 sheets (80 g/m^2, 20 lb.)
Tray 2	60 to 256 g/m^2 (16 to 68 lb.)	550 sheets (80 g/m^2, 20 lb.)
500-sheet paper feed unit	60 to 256 g/m^2 (16 to 68 lb.)	550 sheets (80 g/m^2, 20 lb.)
1000-sheet paper feed unit	60 to 256 g/m^2 (16 to 68 lb.)	550 sheets × 2 (80 g/m^2, 20 lb.)
2000-sheet paper feed unit	60 to 256 g/m^2 (16 to 68 lb.)	1000 sheets × 2 (80 g/m^2, 20 lb.)
Bypass tray	52 to 256 g/m^2 (14 to 68 lb.)	100 sheets (80 g/m^2, 20 lb.)

Note

- Do not load the paper so that the top of the stack exceeds the under limit mark inside the tray.

Paper Recommendations

This section describes loading and storing paper, details of each type of paper, and the printable area. Configure the settings depending on the type of paper you are using.

Important

- **Print quality cannot always be guaranteed for all types of paper that are sold at stores.**

Storing Paper

Take care when storing paper. Improperly stored paper might result in poor print quality, paper misfeeds, or printer damage. Recommendations are as follows:

- Avoid storing paper in humid areas.
- Avoid exposing paper to direct sunlight.
- Store on a flat surface.
- Keep paper in its original package until time to use it.

Types of Paper and Other Media

This section describes the types of paper and required settings.

Plain paper

Paper thickness	60 to 90 g/m^2 (16 to 24 lb.)
Printer setup	Select [Paper Input] → [Paper Type: (tray name)] → [Plain Paper].
Printer driver setup	Select [Plain] in [Paper type].
Supported paper feeding tray	Any input tray can be used.

Paper capacity	• Tray 1, 2: 550 • Tray 3: 550 (500/1000-sheet paper feed unit) or 2000 (2000-sheet paper feed unit) • Tray 4: 550 • Tray 5: 550 • Bypass tray: 100 Make sure paper is not stacked higher than the upper limit mark (▼) inside the tray. When using the bypass tray, make sure paper is not stacked higher than the paper guides inside it.
Duplex printing	Supported
Additional Cautions	• Default: [Plain Paper 2] • When loading paper with a weight of 60 to 74 g/m2 (16to 20 lb.), change the plain paper setting to [Plain Paper 1]. To do this, press the [Menu] key, and select [Maintenance] on the display. Select [General Settings], then [Plain Paper Setting], and then select [Plain Paper 1].

Middle Thick

Paper thickness	91 to 105 g/m^2 (24 to 28 lb.)
Printer setup	Select [Paper Input] → [Paper Type: (tray name)] → [Middle Thick].
Printer driver setup	Select [Middle Thick] in [Paper type].
Supported paper feeding tray	Any input tray can be used.

Paper capacity	• Tray 1, 2: 550 • Tray 3: 550 (500/1000-sheet paper feed unit) or 2000 (2000-sheet paper feed unit) • Tray 4: 550 • Tray 5: 550 • Bypass tray: 100 Make sure paper is not stacked higher than the upper limit mark (▼) inside the tray. When using the bypass tray, make sure paper is not stacked higher than the paper guides inside it.
Duplex printing	Supported

Thick paper

Paper thickness	106 to 256 g/m^2 (28 to 68 lb.) • [Thick Paper 1]: 106 to 169 g/m^2 (28 to 45 lb.) • [Thick Paper 2]: 170 to 220 g/m^2 (45 to 59 lb.) • [Thick Paper 3]: 221 to 256 g/m^2 (59 to 68 lb.)
Printer setup	Select [Paper Input] → [Paper Type: (tray name)] → [Thick Paper 1] to [Thick Paper 3].
Printer driver setup	Select [Thick 1 (106 - 170g/m2)] to [Thick 3 (221 - 256g/m2)] in [Paper type].
Supported paper feeding tray	Any input tray can be used.
Paper capacity	• Bypass tray: 40 for [Thick Paper 1], 20 for [Thick Paper 2] and [Thick Paper 3] Make sure paper is not stacked higher than the upper limit mark (▼) inside the tray. When using the bypass tray, make sure paper is not stacked higher than the paper guides inside it.

Duplex printing	• [Thick Paper 1]: Supported • [Thick Paper 2], [Thick Paper 3]: Not supported
Additional cautions	• Print speed is slightly slower than when using plain paper. • When loading paper in the printer paper trays or the paper feed units, load at least 20 sheets. Also, adjust the side guide so that it lightly touches the paper. • Curled paper: If the paper is curled, flatten the paper before loading it. • If you are using thick paper with a smooth surface, paper jams or multiple feeding can occur. Fan the paper before loading it. If a paper jam or multiple feeding occurs even after you have fanned the paper, set the paper one sheet at a time.

Thin paper

Paper thickness	52 to 59 g/m^2 (14 to 16 lb.)
Printer setup	Select [Paper Input] → [Paper Type: Bypass Tray] → [Thin Paper].
Printer driver setup	Select [Thin (52 - 60 g/m2)] in [Paper type].
Supported paper feeding tray	Bypass tray
Paper capacity	Make sure paper is not stacked higher than the upper limit mark (▼) inside the tray. When using the bypass tray, make sure paper is not stacked higher than the paper guides inside it.
Duplex printing	Not supported
Additional cautions	When printing on thin paper, make a test print and check the print quality. Depending on the type of paper you are using, print quality may degrade.

OHP transparencies

Printer setup	Select [Paper Input] → [Paper Type: Bypass Tray] → [OHP (Transparency)].
Printer driver setup	Select [OHP Transparency] in [Paper type].
Supported paper feeding tray	Bypass tray
Paper capacity	Make sure paper is not stacked higher than the paper guides inside the bypass tray.
Duplex printing	Not supported
Additional cautions	• When loading OHP transparencies, take care not to load them upside down. Doing so may cause a malfunction. • It is recommended to place one sheet at a time. • Make sure to fan OHP transparencies every time before printing. Leaving OHP transparencies loaded in the paper tray may cause them to stick together and result in a misfeed. • If multiple OHP transparencies are fed at the same time, load them one by one. • When printing on OHP transparencies, remove the transparencies one by one as they are output.

Letterhead

Printer setup	Select [Paper Input] → [Paper Type: (tray name)] → [Letterhead].
Printer driver setup	Select [Letterhead] in [Paper type].
Supported paper feeding tray	Any input tray can be used.
Paper capacity	Make sure paper is not stacked higher than the upper limit mark (▼) inside the tray. When using the bypass tray, make sure paper is not stacked higher than the paper guides inside it.

Duplex printing	Supported
Letterhead setup	Default: [Letterhead 1] If the print quality needs to be improved, select [Maintenance] → [General Settings] → [Letterhead] → [Letterhead 1] to [Letterhead 3] to change the setting value to a different number depending on the paper thickness that you are using. High numbered settings allow thicker paper to be used, but are printed more slowly.
Additional cautions	When loading paper whose orientations are specified such as letterhead or letter paper, misprints may occur. Refer to "Printing on paper whose orientations are specified" for loading paper.

Label paper

Printer setup	Select [Paper Input] → [Paper Type: Bypass Tray] → [Label Paper].
Printer driver setup	Select [Labels] in [Paper type].
Supported paper feeding tray	Bypass tray
Paper capacity	1
Duplex printing	Not supported
Additional cautions	• Print speed is slightly slower than when using plain paper. • Shuffle paper before loading the stack onto the tray, so multiple sheets are not fed in together.

Coated paper: gloss print

Printer setup	Select [Paper Input] → [Paper Type: (tray name)] → [Coated Paper: Gloss Print].
Printer driver setup	Select [Coated paper: gloss print] in [Paper type].

Supported paper feeding tray	Any input tray can be used. Make sure paper is not stacked higher than the upper limit mark (▼) inside the tray. When using the bypass tray, make sure paper is not stacked higher than the paper guides inside it.
Duplex printing	Not supported
Additional cautions	• Print speed is slightly slower than when using plain paper. • If the paper is curled, flatten it before loading. • Fan the paper before loading it. When using the bypass tray, set the paper one page at a time if multiple sheets are fed, paper jams occur, or you hear a strange noise.

Coated paper

Printer setup	Select [Paper Input] → [Paper Type: (tray name)] → [Coated Paper].
Printer driver setup	Select [Coated paper] in [Paper type].
Supported paper feeding tray	Any input tray can be used. Make sure paper is not stacked higher than the upper limit mark (▼) inside the tray. When using the bypass tray, make sure paper is not stacked higher than the paper guides inside it.
Duplex printing	Not supported

Coated paper setup	Default: [Coated Paper 1] If the print quality needs to be improved, select [Maintenance] → [General Settings] → [Coated Paper Setting] → [Coated Paper 1] to [Coated Paper 7]. When selecting the paper setting depending on the thickness, select [Coated Paper 1] to [Coated Paper 5]. High numbered settings allow thicker paper to be used, but are printed more slowly. When selecting the paper setting depending on the type, select [Coated Paper 6], [Coated Paper 7]. High numbered settings allow thicker paper to be used, but are printed more slowly.
Additional cautions	• Print speed is slightly slower than when using plain paper. • Fan the paper before loading it. When using the bypass tray, set the paper one page at a time if multiple sheets are fed, paper jams occur, or you hear a strange noise.

Special paper

Special paper standard	When you cannot print successfully with other paper type settings, set special paper.
Printer setup	Select [Paper Input] → [Paper Type: (tray name)] → [Special Paper 1] to [Special Paper 3].
Printer driver setup	Select [Special 1] to [Special 3] in [Paper type].
Supported paper feeding tray	Any input tray can be used.
Paper capacity	Make sure paper is not stacked higher than the upper limit mark (▼) inside the tray. When using the bypass tray, make sure paper is not stacked higher than the paper guides inside it.
Duplex printing	Supported

Envelopes

Printer setup	Select [Paper Input] → [Paper Type: Bypass Tray] → [Envelope].
Printer driver setup	Select [Envelope] in [Paper type].
Supported paper feeding tray	Bypass tray
Paper capacity	Make sure paper is not stacked higher than the paper guides inside the bypass tray.
Duplex printing	Not supported
Additional cautions	• Load envelopes with the print side down, and the open end of the envelope facing out from the printer. • When printing on envelopes, set the envelope size using the printer driver or control panel. See "Loading Paper" for details. • Before loading envelopes, remove any air inside and make sure all edges are sharply creased. If envelopes are curled, straighten them before loading. • If envelopes are curled when they are output, straighten them by rubbing. • Depending on the printing environment, envelopes may be output with the edges wrinkled, with toner marks on the back, or blurred. In addition, when printing solid black areas, streaks may appear where two envelopes touch. • Depending on the type of envelope or printing environment, envelopes might be output creased or printed improperly. In such cases, try changing the loading orientation.

Reference

• p.118 "Loading Paper"

Paper Not Supported by This Printer

Important

- Do not use the following types of paper:
  - Ink-jet printer paper
  - GelJet special paper
  - Bent, folded, or creased paper
  - Curled or twisted paper
  - Wet paper
  - Paper that is dry enough to emit static electricity
  - Paper that has already been printed on

    Misprints are especially likely when using paper printed on by printers other than a laser printer (e.g. monochrome and color copiers, ink-jet printers, etc.) Refrain from printing on the side on which nothing is printed.
  - Surface-processed paper (excluding specified paper)
  - Special paper, such as thermal paper and carbon paper
  - Paper whose weight is heavier or lighter than the limitation
  - Perforated paper
  - Adhesive label paper on which glue or base paper is exposed
  - Paper with clips or staples

Note

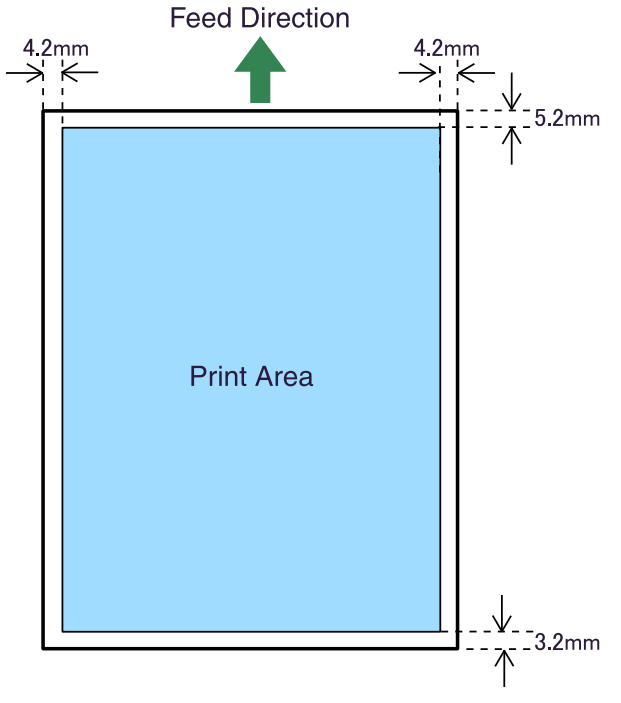
- Even if paper is adequate for the printer, poorly stored paper can cause paper misfeeds, print quality degradation, or malfunctions.
- Using pre-punched paper may cause paper misfeed or undetected paper size.

Print Area

This section describes the area of a page that is available for printing.

The following diagram shows the print area for this printer.

Paper



Note

- While printing may be possible on the entire page depending on the settings of the printer driver or print conditions, the quality cannot be guaranteed for the 5.2 mm (0.21 inches) margin of the upper side, the 4.2 mm (0.17 inches) margins of the right and left sides, and the 3.2 mm (0.13 inches) margin of the lower side.
- The print area of long paper is restricted to 1260 mm (49.60 inches) long in the feed direction.

Loading Paper

This section describes how to load paper into the paper tray or onto the bypass tray.

Do not add paper to a tray before it runs out of paper. If you do so, multiple sheets of paper may be fed at one time, which results in a paper jam.

Paper Tray, 500/1000-sheet Paper Feed Unit

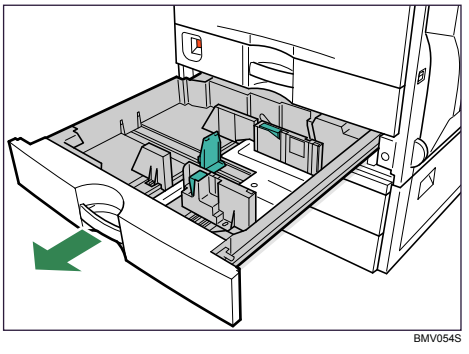
The following example explains how to load paper into paper trays, and how to change paper size.

The same procedure can be used for all trays. Tray 2 is used as an example.

Important

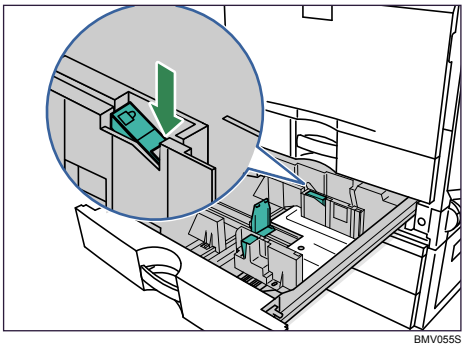
- **Make sure paper is not stacked higher than the upper limit mark inside the paper tray. Paper misfeeds might occur.**
- **Do not mix different types of paper in the same paper tray.**
- **During printing, do not open or close the printer covers or bypass tray, or pull out or push in the paper tray.**

1. **Carefully pull out the paper tray until it stops.**



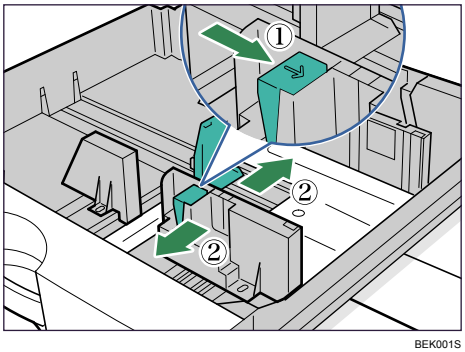
When printing using the bypass tray, do not pull out the paper tray.

2. **Unlock the side guides.**



BMV055S

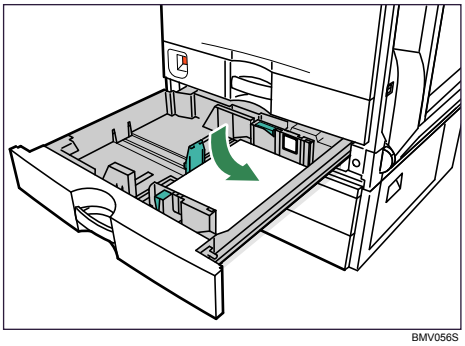
3. **Pinch the clip on the side guide (①), and match the guides to the paper size (②).**



BEK001S

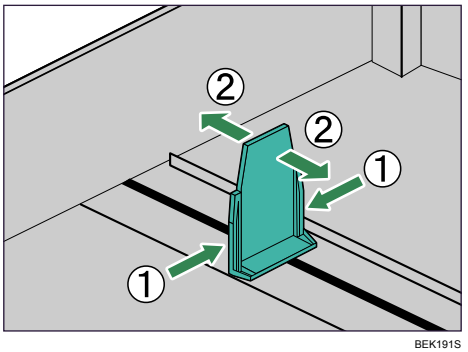
4. **Align and load paper in the tray with the print side up.**

   You can load up to 550 sheets in each tray.



BMV056S

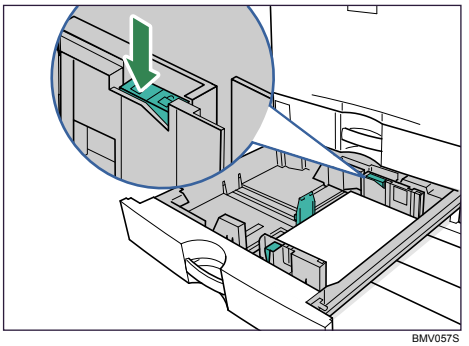
5. **Pinch the clips on the end guide (①), and match the guide to the paper size (②).**



BEK191S

Confirm that there are no gaps between the paper and paper guides. If there are gaps, adjust the guides.

6. **Lock the side guides.**



BMV057S

7. **Push the paper tray carefully into the printer until it stops.**

If you push the tray forcefully, the paper guides might move.

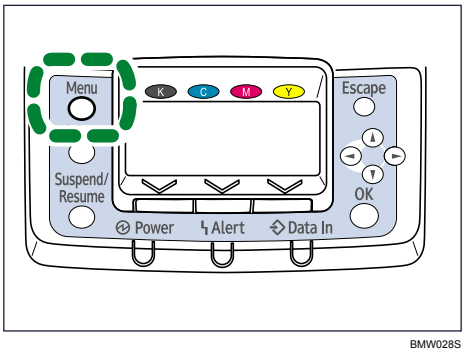
Reference

- For details about types of paper supported by this printer, see p.101 "Supported Paper for Each Tray".

Setting paper size not selected automatically

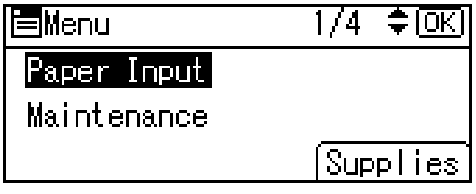
Set the paper size using the control panel when loading paper whose size cannot be selected automatically.

1. **Press the [Menu] key.**

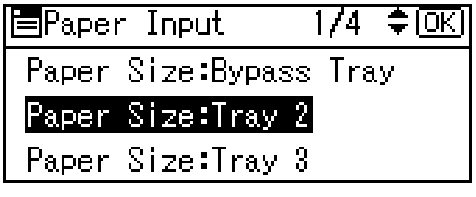


BMW028S

2. **Press the [▼] or [▲] key to select [Paper Input], and then press the [OK] key.**



3. **Press the [▼] or [▲] key to select [Paper Size: (tray name)], and then press the [OK] key. For example, [Paper Size: Tray 2] is selected for Tray 2 as shown.**



4. **Select the paper size you want to set using the scroll keys, and then press the [OK] key.**

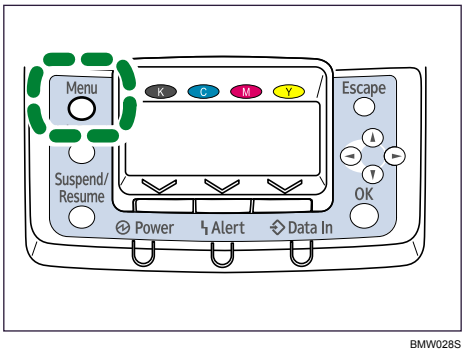
About two seconds later, the display returns to the [Paper Input] screen.

5. **Press the [Menu] key.**

The display returns to the initial screen. This completes the paper size setting.

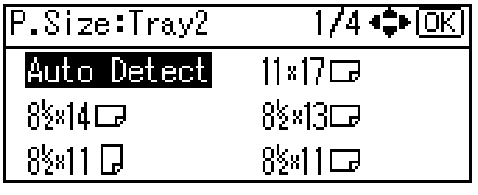
If you want to return the settings to [Auto Detect], load paper into the paper tray and follow the procedure below.

6. **Press the [Menu] key.**



BMW028S

7. **Press the [▼] or [▲] key to select [Paper Input], and then press the [OK] key.**
8. **Press the [▼] or [▲] key to select [Paper Size: Tray 2], and then press the [OK] key.**
9. **Select [Auto Detect] using the scroll keys, and then press the [OK] key.**



About two seconds later, the display returns to the [Paper Input] screen.

10. **Press the [Menu] key.**

The display returns to the initial screen.

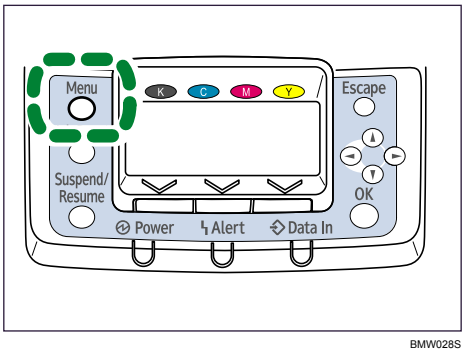
Setting custom size paper

Set the custom paper size using the control panel when loading custom size paper.

Important

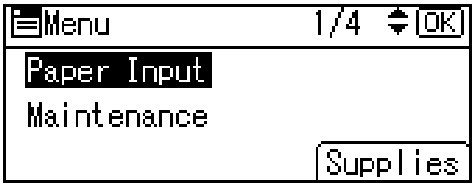
- When printing on custom size paper, specify the paper size using the control panel or printer driver.
- The custom size paper selected using the printer driver overrides that selected using the control panel. Do not configure settings using the control panel if you have already configured settings using the printer driver. However, when printing with a printer driver other than the RPCS printer driver, you must configure the settings using the control panel.
- The following is the range of paper size that can be set as custom size: 182 to 297 mm (7.17 to 11.69 inches) in width and 148 to 432 mm (5.83 to 17.00 inches) in length.
- The printer cannot print to custom size paper from applications that do not support custom size paper.

1. Press the [Menu] key.

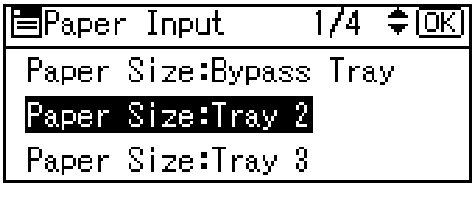


BMW028S

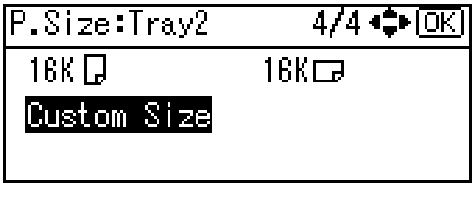
2. Press the [▼] or [▲] key to select [Paper Input], and then press the [OK] key.



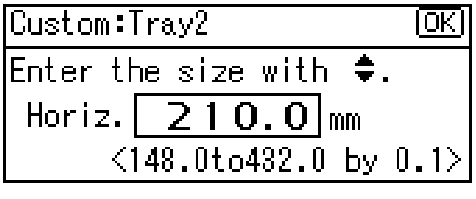
3. Press the [▼] or [▲] key to select [Paper Size: (tray name)], and then press the [OK] key. For example, [Paper Size: Tray 2] is selected for Tray 2 as shown.



4. Select [Custom Size] using the scroll keys, and then press the [OK] key.

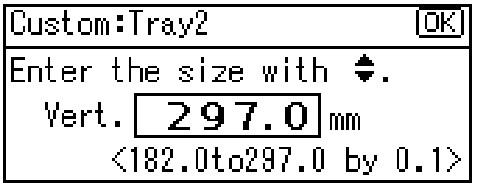


5. Press the [▼] or [▲] key to enter the horizontal value, and then press the [OK] key.



If you press and hold the key, the value increases/decreases by 1 or 10 mm.

6. **Press the [▼] or [▲] key to enter the vertical value, and then press the [OK] key.**



If you press and hold the key, the value increases/decreases by 1 or 10 mm.

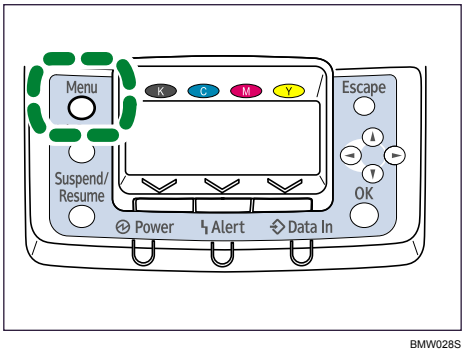
The settings appear and about two seconds later, the display returns to the [Paper Input] screen.

7. **Press the [Menu] key.**

The display returns to the initial screen.

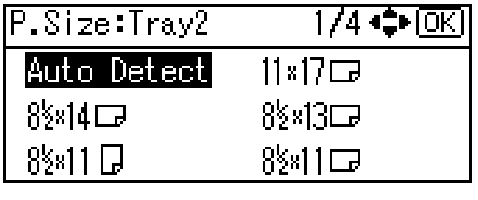
If you want to return the settings to [Auto Detect], load paper into the paper tray, and follow the procedure below.

8. **Press the [Menu] key.**



BMW028S

9. **Press the [▼] or [▲] key to select [Paper Input], and then press the [OK] key.**
10. **Press the [▼] or [▲] key to select [Paper Size: Tray 2], and then press the [OK] key.**
11. **Select [Auto Detect] using the scroll keys, and then press the [OK] key.**



About two seconds later, the display returns to the [Paper Input] screen.

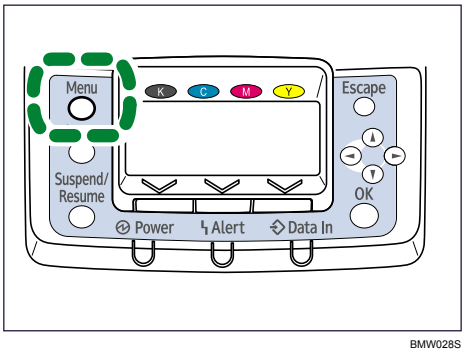
12. **Press the [Menu] key.**

The display returns to the initial screen.

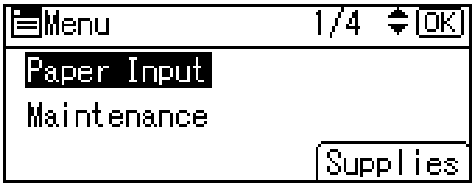
Specifying a paper type

This section describes how to specify a paper type. You can improve printer performance by selecting the optimum paper type for the tray.

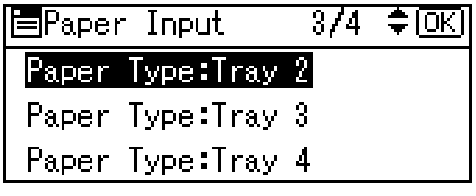
1. **Press the [Menu] key.**



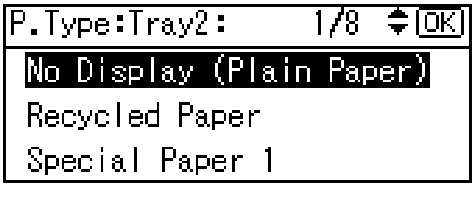
2. **Press the [▼] or [▲] key to select [Paper Input], and then press the [OK] key.**



3. **Press the [▼] or [▲] key to select [Paper Type: (tray name)], and then press the [OK] key. For example, [Paper Type: Tray 2] is selected for Tray 2 as shown.**



4. **Press the [▼] or [▲] key to select the paper type that is loaded, and then press the [OK] key.**



About two seconds later, the display returns to the [Paper Input] screen.

5. **Press the [Menu] key.**

The display returns to the initial screen.

Note

- The tray does not support envelopes and OHP transparencies.
- Duplex printing is not supported for the following paper types: labels, Thin paper, cardstock, OHP transparency, envelopes, thick paper ([Thick Paper 2], [Thick Paper 3]), coated paper, coated paper: gloss print.

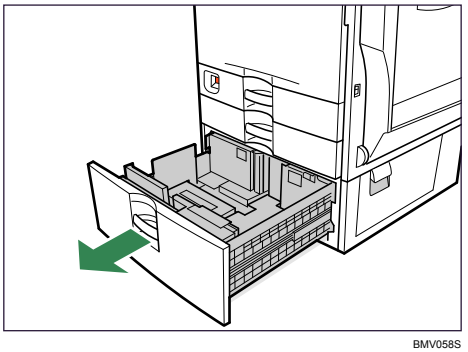
2000-sheet Paper Feed Unit

This section describes how to load paper into the 2000-sheet paper feed unit (tray 3).

Important

- **Make sure paper is not stacked higher than the upper limit mark inside the paper tray. Paper misfeeds might occur.**
- **Do not mix different types of paper in the same paper tray.**
- **During printing, do not open or close the printer covers, bypass tray, or paper tray.**
- **Make sure to align paper and push it neatly to both sides of the tray. If you do not, it can cause a paper misfeed.**
- **The paper tray guides are fixed at A4 (220-240V) or 8 1/2 × 11 (Letter) (120V) size positions. However, you can switch the setting between A4 and 8 1/2 × 11 (Letter). If you wish to use a paper size other than the default, contact your sales or service representative.**

1. **Carefully pull out the paper tray until it stops.**

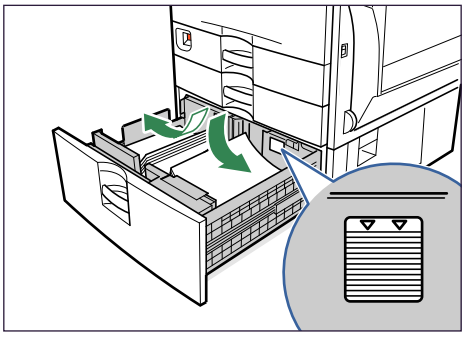


BMV058S

When printing using the bypass tray, do not pull out the paper tray.

2. **Align and load paper into the right and left sides with the print side up.**

You can load up to 1000 sheets in each side.



BMV059S

3. **Push the paper tray carefully into the printer until it stops.**

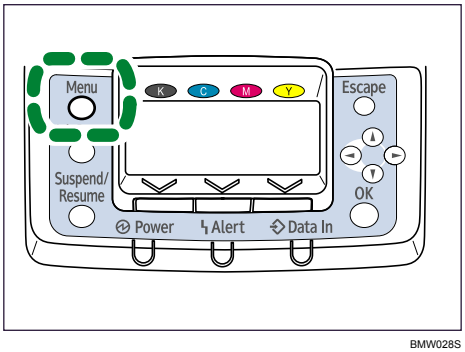
Reference

- For details about types of paper supported by this printer, see p.101 "Supported Paper for Each Tray".

Specifying a paper type

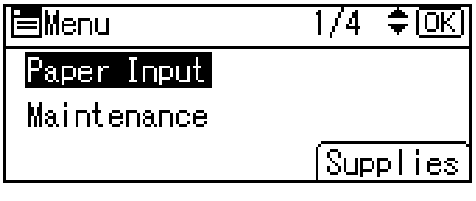
This section describes how to specify a paper type. You can improve printer performance by selecting the optimum paper type for the tray.

1. **Press the [Menu] key.**

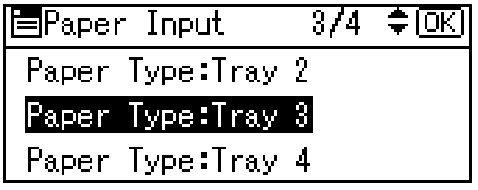


BMW028S

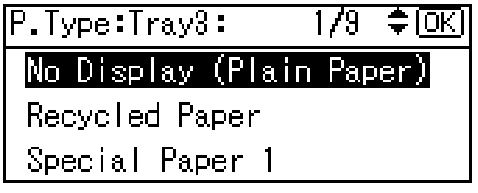
2. **Press the [▼] or [▲] key to select [Paper Input], and then press the [OK] key.**



3. **Press the [▼] or [▲] key to select [Paper Type: Tray 3], and then press the [OK] key.**



4. **Press the [▼] or [▲] key to select the paper type that is loaded, and then press the [OK] key.**



About two seconds later, the display returns to the [Paper Input] screen.

5. **Press the [Menu] key.**

The display returns to the initial screen.

Note

- The tray does not support envelopes and OHP transparencies.
- Duplex printing is not supported for the following paper types: Thin paper, cardstock, OHP transparency, envelopes, thick paper ([Thick Paper 2], [Thick Paper 3]), coated paper, coated paper: gloss print.

Bypass Tray

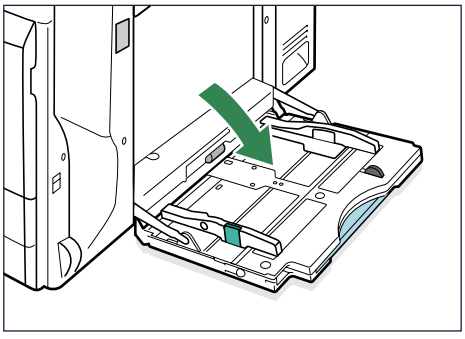
This section explains how to load paper into the bypass tray and change paper size.

Loading standard size paper

Important

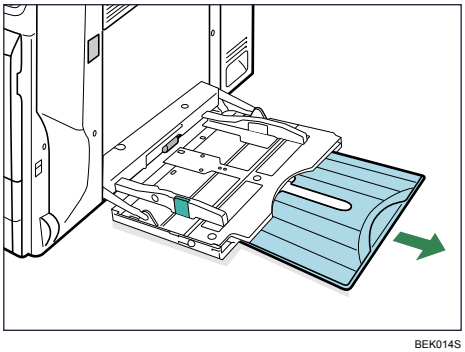
- **Shuffle paper before loading the stack onto the tray, so multiple sheets are not fed in together.**
- **Set the size and direction of the loaded paper on the control panel or with the printer driver. Make sure the settings do not conflict. Otherwise, the paper may jam or the print quality may be affected.**
- **Load paper with the print side down and in the short-edge feed direction.**
- **The bypass tray does not support duplex printing.**
- **When setting long paper to the bypass tray, support it with your hand to ensure it is fed properly.**
- **Paper feeding process or image quality varies depending on the paper thickness or width.**
- **Check the print in advance using the same type of paper.**

1. **Open the bypass tray.**



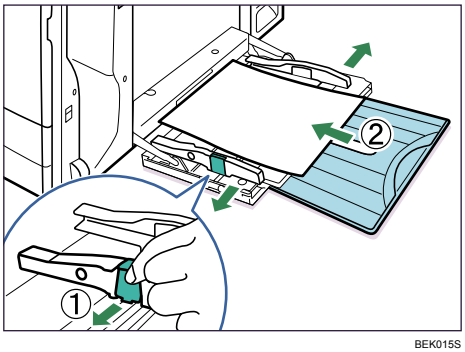
BMW072S

2. **If you load paper longer than A4□, pull out the bypass tray extension.**



BEK014S

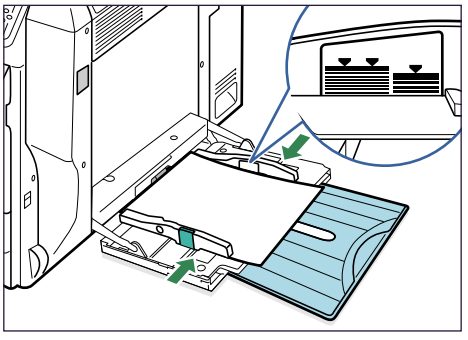
3. **Slide the side guides outward (①), and then load paper with the print side down (②), flush against the printer.**



BEK015S

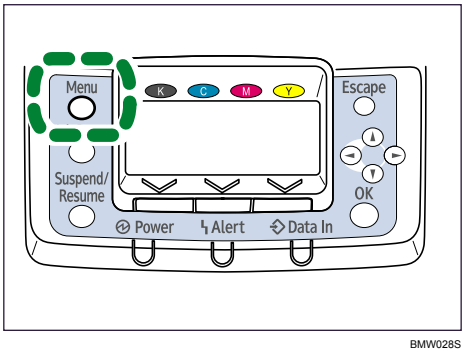
4. **Adjust the side guides to fit the paper width.**

   Paper capacity of the bypass tray differs between plain and thick paper. Check the limit marks on the paper guide of the bypass tray.



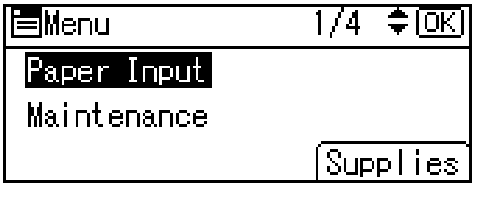
BEK016S

5. Press the [Menu] key.

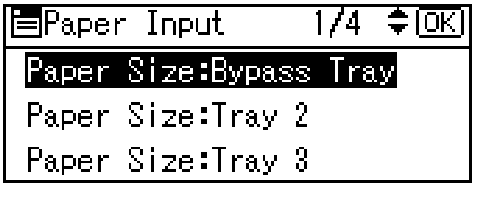


BMW028S

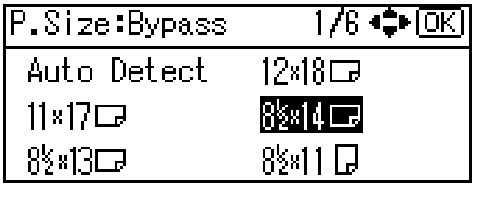
6. Press the [▼] or [▲] key to select [Paper Input], and then press the [OK] key.



7. Press the [▼] or [▲] key to select [Paper Size: Bypass Tray], and then press the [OK] key.



8. Select the paper size you want to set using the scroll keys, and then press the [OK] key.



About two seconds later, the display returns to the [Paper Input] screen.

9. **Press the [Menu] key.**

   The display returns to the initial screen.

Note

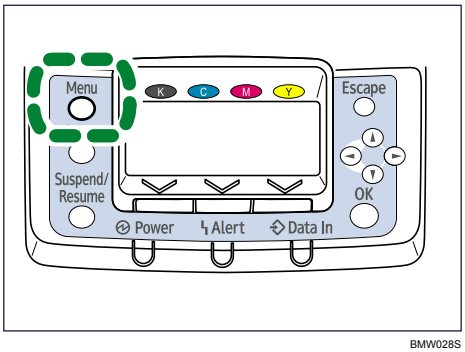
- Make sure paper is not stacked higher than the paper guides inside the bypass tray.
- Be sure to select the appropriate paper type when you load labels, thick paper, envelopes, or OHP transparencies in the bypass tray.

Setting custom size paper

Important

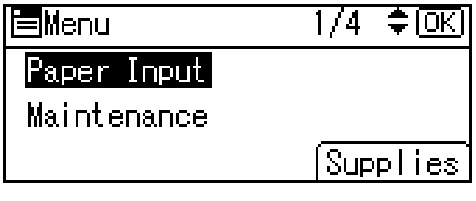
- When printing on custom size paper, specify the paper size using the control panel or printer driver.
- The custom size paper selected using the printer driver overrides that selected using the control panel. Do not configure settings using the control panel if you have already configured settings using the printer driver. However, when printing with a printer driver other than the RPCS printer driver, you must configure the settings using the control panel.
- The following is the range of paper size that can be set as custom size: 90 to 305 mm (3.55 to 12 inches) in width and 148 to 1260 mm (5.83 to 49.60 inches) in length.
- The printer cannot print to custom size paper from applications that do not support custom size paper.

1. **Press the [Menu] key.**

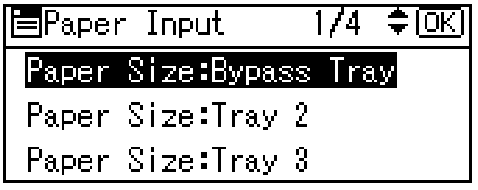


BMW028S

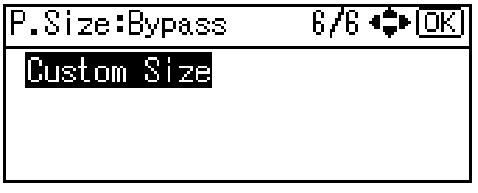
2. **Press the [▼] or [▲] key to select [Paper Input], and then press the [OK] key.**



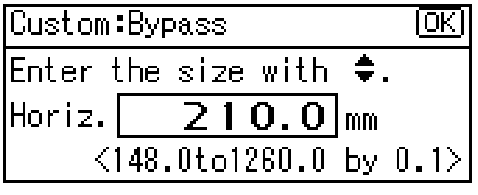
3. **Press the [▼] or [▲] key to select [Paper Size: Bypass Tray], and then press the [OK] key.**



4. **Select [Custom Size] using the scroll keys, and then press the [OK] key.**

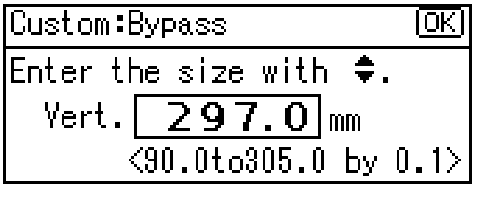


5. **Press the [▼] or [▲] key to enter the horizontal value, and then press the [OK] key.**



If you press and hold the key, the value increases/decreases by 1 or 10 mm.

6. **Press the [▼] or [▲] key to enter the vertical value, and then press the [OK] key.**



If you press and hold the key, the value increases/decreases by 1 or 10 mm.

The settings appear and about two seconds later, the display returns to the [Paper Input] screen.

7. **Press the [Menu] key.**

The display returns to the initial screen.

Note

- Print quality may not be guaranteed for custom size paper that is wider than 297 mm (11.69 inches) in width or longer than 433 mm (17.05 inches) in length.

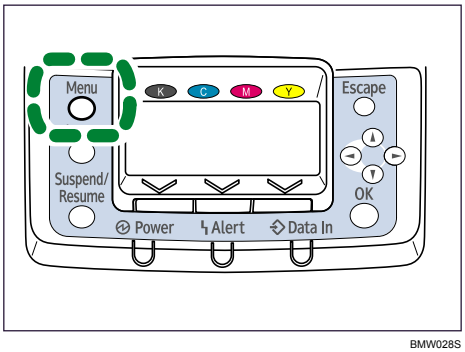
Specifying a paper type

This section describes how to specify a paper type. You can improve printer performance by selecting the optimum paper type for the tray.

Important

- Be sure to select the appropriate paper type when you load labels, thick paper, envelopes, or OHP transparencies in the bypass tray.
- The paper type selected using the printer driver overrides that selected using the control panel.

1. **Press the [Menu] key.**



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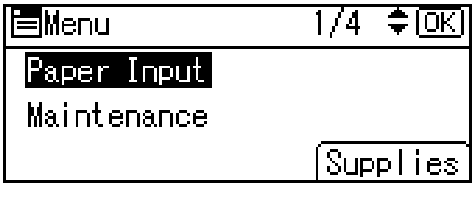
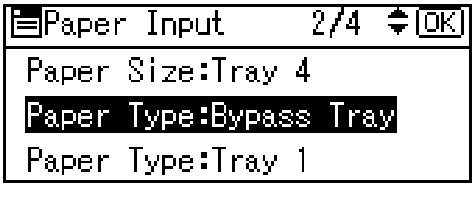
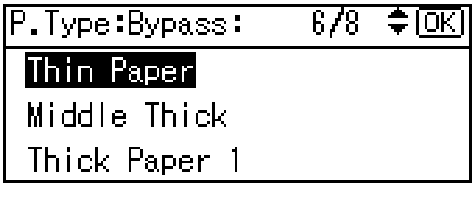
2. **Press the [▼] or [▲] key to select [Paper Input], and then press the [OK] key.**



3. **Press the [▼] or [▲] key to select [Paper Type: Bypass Tray], and then press the [OK] key.**



4. **Press the [▼] or [▲] key to select the paper type that is loaded, and then press the [OK] key.**



About two seconds later, the display returns to the [Paper Input] screen.

5. **Press the [Menu] key.**

The display returns to the initial screen.

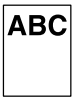
Printing on Orientation-Fixed or Two-Sided Paper

This section explains how to print on paper whose orientation and printing side are unchangeable (letterhead paper, for example).

When loading paper with a fixed orientation, such as letterhead or letter paper, misprints may occur.

To make sure documents are printed correctly, press the [Menu] key using control panel, and in the [Maintenance] menu, select [General Settings], [Letterhead Setting] and [On (Always)]. Select [Letterhead] as the paper type in the RPCS printer driver's settings when you have selected [Auto Detect] or [Off] in the [Maintenance] menu

For the letterhead print settings, see "Types of Paper and Other Media".

Paper Orientation	Paper Trays 1-5		Bypass tray	
	Letterhead Setting [On]	Letterhead Setting [Off]	Letterhead Setting [On]	Letterhead Setting [Off]
1-sided print				
2-sided print				
1-sided print				
2-sided print				

Note

- If a print job is changed partway through printing from 1-sided to 2-sided printing, 1-sided output after the first copy may print facing a different direction.
- To ensure all 1-sided copies are output on the same print side, use separate paper trays for 1-sided and 2-sided printing, and disable 2-sided printing for the tray used for 1-sided printing.

Reference

- p.107 "Paper Recommendations"

Using Paper Types that Have Unique Names

From Registration of User Paper Types to Use

This section explains the procedures for selecting the paper type according to usage, registering the paper type under a unique name, and printing a file using the registered paper type.

Important

- This function can be used
  - when the printer is operating in a network,
  - in conjunction with the RPCS printer driver, and
  - under Windows 2000 or higher (under earlier systems, registered paper types appear as [Plain] in the printer driver).
- This function cannot be used
  - with the printer driver's [Save/Restore Settings] function (registered paper types appear as [Plain] in the printer driver) and
  - if the printer and computer are not using bi-directional communication.
- Also, be aware that
  - the printer driver might not display the paper type name correctly if it is registered using an unsupported language,
  - the control panel might not display the paper type name correctly if it is registered using nonalphanumeric characters (i.e., other than a-z, A-Z, or 0-9), and
  - the printer's logs do not record names of user paper types.

The example below explains setting a custom size paper under the name "Invoice A" and feeding it from a bypass tray.

1. **Using Web Image Monitor, register the name under [User Paper Type].**
   - Enter "Invoice A" for [Paper Name] and select [Plain Paper] for [Paper Type].
   - When printing a file, the paper type is automatically set by selecting [User Paper Type] on the printer driver setting screen.
   - For details about this procedure, see “Registering Names to Paper Types”.
2. **In Web Image Monitor, set [User Paper Type] for the bypass tray.**
   - Set [Paper Type] for the tray to "Invoice A".
   - For details about this procedure, see “Setting User Paper Types to Trays”.
3. **Load the paper you want to use on the bypass tray.**
   - Set an unprinted paper on the bypass tray.

- For details about this procedure, see "Loading Paper", Hardware Guide.

4. **Using RPCS Printer Driver, print a document on the registered custom size paper.**
   - Select [Invoice A] for [Paper Type:], then proceed with the printing. When [Paper Type:] is set to [Invoice A], Plain paper that is suitable for "Invoice A" is selected automatically. Registering a descriptive name makes selecting a paper type from the [Paper Type:] list easier.
   - For details about this procedure, see “Printing Using Registered Paper Types”.

Note

- You can register up to eight user paper types.

Reference

- p.136 "Registering Names to Paper Types"
- p.137 "Setting User Paper Types to Trays"
- p.138 "Printing Using Registered Paper Types"

Registering Names to Paper Types

Log on to Web Image Monitor in the administrator mode.

Important

- **The control panel might not display the paper type name correctly if it is registered using nonalphanumeric characters (i.e., other than a-z, A-Z, or 0-9).**

1. **Start your Web browser.**
2. **Enter "http://(printer's address)/" in the address bar of the Web browser.**

   The Top of Web Image Monitor appears.

   If the printer's host name has been registered on the DNS or WINS server, you can enter it in the address bar.

   If SSL (encrypted HTTP) is running in a server authentication environment, enter "https://(printer's address)".
3. **On the Top Page, click [Login].**

   A dialog box for entering the user name and password appears.
4. **Enter your login user name and password, and then click [Login].**

   For details about the login user name and password, consult your administrator.
5. **In the menu area, click [Configuration].**
6. **On the [Device Settings], click [User Paper Type], and then change the settings as necessary.**

   The screen for selecting [User Paper Type] appears.

7. **Make changes to the following settings:**

   Paper Name: Enter a descriptive name for easier recognition.

   Paper Type: Select a suitable paper type from the list.

   The example below is for printing invoices.

   - Enter "Invoice A" for [Paper Name].
   - Select [Plain Paper] for [Paper Type]. If the setting is incorrect, the paper might become jammed or print quality could be affected.
   - For details about combinations of paper sizes types, paper type, see "Paper and Other Media", Hardware Guide.

8. **Click [OK].**

Note

- You can register up to eight user paper types.

Setting User Paper Types to Trays

Before printing, set the paper registered on the user paper type to the paper tray, and then set the paper type already registered. Paper types can be set either from Web Image Monitor or from the printer's control panel.

1. **Log on to Web Image Monitor in administrator mode.**
2. **In the menu area, click [Configuration].**
3. **On the [Device Settings], click [Paper].**
4. **Set the paper tray you want to use as a user paper type, and then select the registered paper type.**

   The example below is for printing invoices.

   The registered paper type "Invoice A" is displayed as [+ Invoice A (Custom x)] on this screen. Select [+ Invoice A (Custom x)] for [User Paper Type]. Make the appropriate changes to other settings as required.

5. **Click [OK].**
6. **Click [Logout].**
7. **Quit Web Image Monitor.**

Note

- For details about loading paper, see "Loading Paper", Hardware Guide.
- For details about setting the paper type from control panel, see "Loading Paper", Hardware Guide.

Printing Using Registered Paper Types

Select a registered paper type to print onto.

Important

- This function can be used when the printer is operating in a network, in conjunction with the RPCS printer driver, and under Windows 2000 or higher (under earlier systems, registered paper types appear as [Plain] in the printer driver).
- This function cannot be used with the printer driver's [Save/Restore Settings] function (registered paper types appear as [Plain] in the printer driver) and if the printer and computer are not using bidirectional communication.
- The printer driver might not display the paper type name correctly if it is registered using an unsupported language.
- The control panel might not display the paper type name correctly if it is registered using nonalphanumeric characters (i.e., other than a-z, A-Z, or 0-9).
- The printer's logs do not record names of user paper types.

1. Select your application's print command.
2. On the tab in the properties dialog box that appears, select a registered paper type under [Paper type:].

   If you select Custom Setting, click the [Print Settings] tab.
3. Execute the print command.

   The preregistered settings are applied and print is performed.

Note

- For details about printer driver settings, see the printer driver Help.

6. Replacing Consumables

This chapter explains how to replace consumables.

Adding Toner

⚠WARNING

- Do not incinerate spilled toner or used toner. Toner dust is flammable and might ignite when exposed to an open flame.
- Disposal should take place at an authorized dealer or an appropriate collection site.
- Dispose of used toner containers in accordance with local regulations.

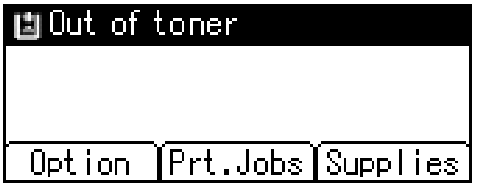
⚠CAUTION

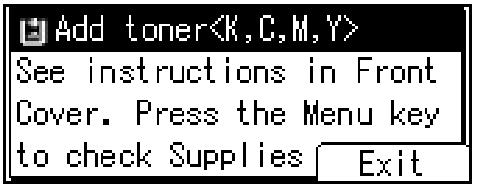
- Keep toner (used or unused) and toner containers out of reach of children. If a child swallows toner, consult a doctor immediately.
- If toner or used toner is inhaled, gargle with plenty of water and move into a fresh air environment. Consult a doctor if necessary.
- If toner or used toner gets into your eyes, flush immediately with large amounts of water. Consult a doctor if necessary.
- If toner or used toner is swallowed, dilute by drinking a large amount of water. Consult a doctor if necessary.
- Avoid getting toner on your clothes or skin when removing a paper jam or replacing toner. If your skin comes into contact with toner, wash the affected area thoroughly with soap and water.
- If toner gets on your clothing, wash with cold water. Hot water will set the toner into the fabric and may make removing the stain impossible.
- Our products are engineered to meet high standards of quality and functionality. When purchasing expendable supplies, we recommend using only those specified by an authorized dealer.
- Do not open toner containers forcefully. Toner can spill, dirtying your clothes or hands, and possibly resulting in accidental ingestion.

Important

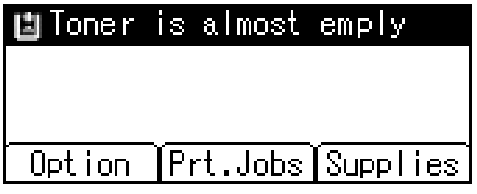
- **When removing toner, be careful not to drop it.**
- **Do not forcefully push toner in.**
- **When handling toner, never stand them up on either end or position them upside down.**
- **Store toner in a cool dark place.**
- **Toner is a consumable and not covered by warranty. If there is a problem, contact the store where it was purchased.**

Replace the toner when the following message appears on the display:

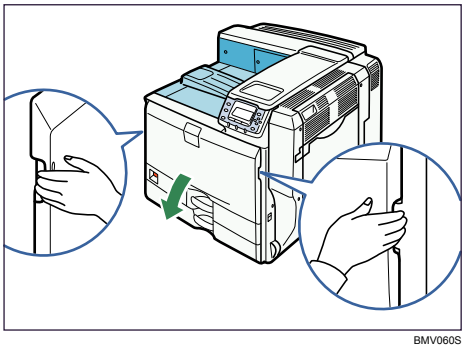




When the following message appears on the display, the toner should be replaced soon. Prepare a new toner.

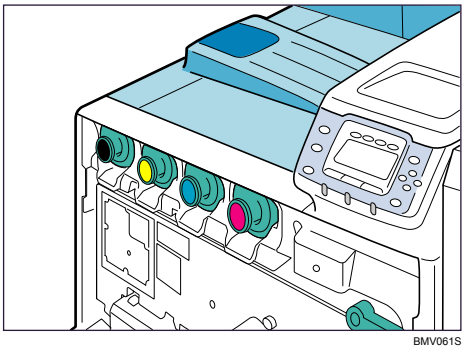


1. **Holding the left and right side grips, carefully open the front cover.**



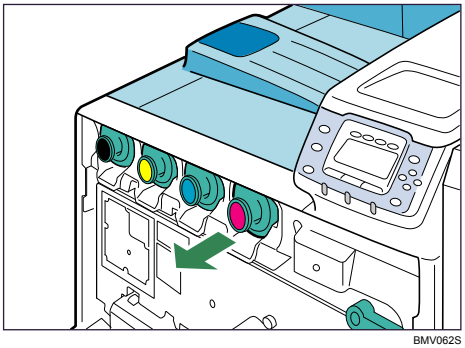
BMV060S

From the left, the toner is installed in the order of black (K), yellow (Y), cyan (C), and magenta (M).



BMV061S

2. **Holding the toner of the color to replace, pull it out carefully.**



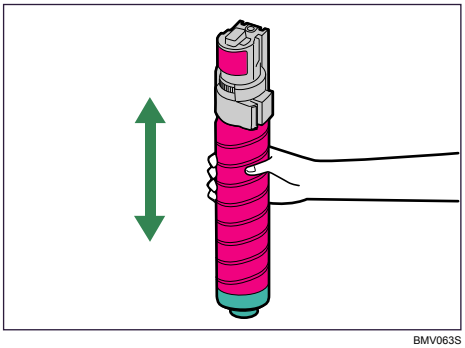
BMV062S

Do not shake the removed toner. Any remaining toner may leak.

Pull the toner out slowly and carefully to prevent leakage.

Place the old toner on paper or some other material to avoid dirtying your workspace.

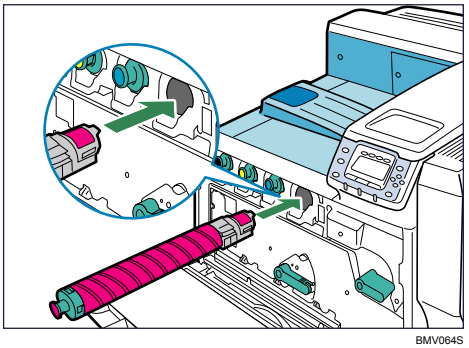
3. **Take the new toner out of the box.**
4. **Shake the toner up and down five or six times.**



BMV063S

Even distribution of toner within the container improves print quality.

5. **With the label facing up, fully insert toner into place, keeping the container horizontal.**



BMV064S

Do not install and remove toner repeatedly. Doing so results in toner leak.

6. **Carefully close the front cover.**

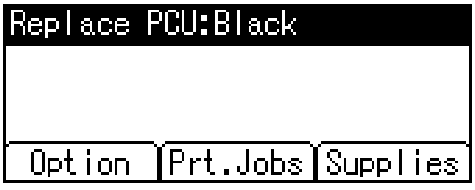
   Wait until "Loading toner" disappears from the display.

Note

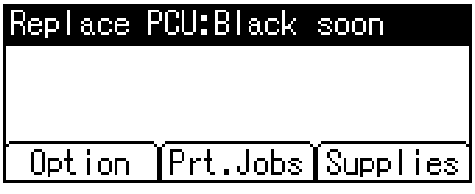
- Cooperate with the Toner Recycling Program, whereby are collected used toner. For details, consult with the dealer where you purchased the printer, or with a sales or service representative.

Replacing the Black Drum Unit/Color Drum Units

Replace the black drum unit/color drum units if any of the following messages appear on the display:



When the following messages appear on the display, the black drum unit/color drum units should be replaced soon. Prepare a new Black Drum Unit/Color Drum Unit.

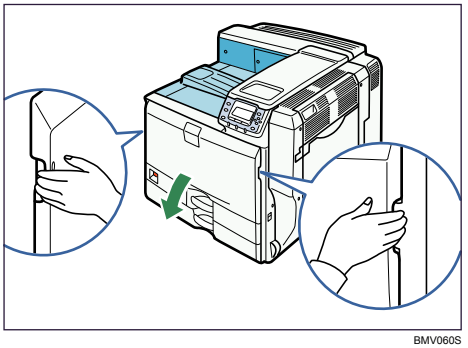


Important

- Exposure to light reduces black drum unit/color drum units performance. Replace the unit as quickly as possible.
- Do not pull out the black drum unit/color drum units quickly or with force as it may fall.
- Take care that nothing comes into contact with the top surface of the black drum unit/color drum units.
- When holding the black drum unit/color drum units, grab the green grip on the left and the handle on the front together. Do not move the black drum unit/color drum units by only grabbing the grip. Doing so may damage the grip.
- Place no objects on the front or inner cover.

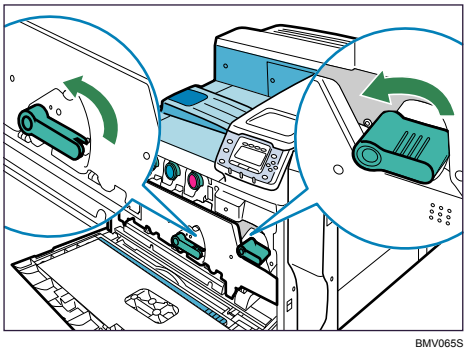
The following is the replacement procedure for the yellow drum unit located at the left end. This procedure applies to the replacement of other drum units.

1. **Turn off the printer and unplug the power cable.**
2. **Holding the left and right side grips, carefully open the front cover.**



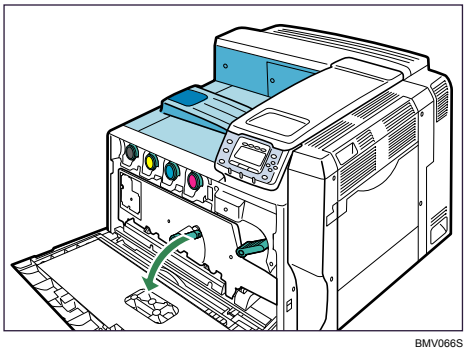
BMV060S

3. **Turn the two green levers counterclockwise.**



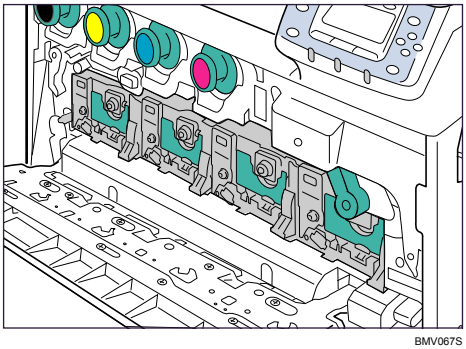
BMV065S

4. **Pulling the handle, slowly open the inner cover.**



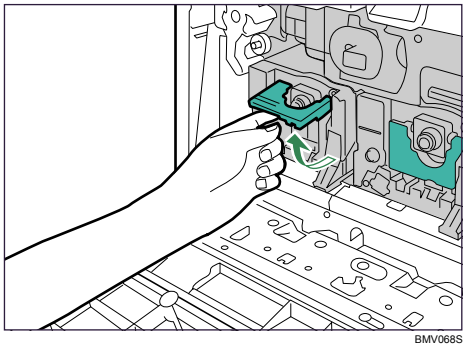
BMV066S

The drum units are installed as shown. From the left, the units are attached in the order of yellow (Y), cyan (C), magenta (M), and black (K).



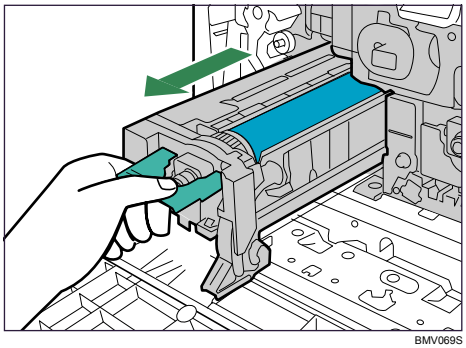
BMV067S

5. Pull out the ring pull handle of the yellow drum unit.



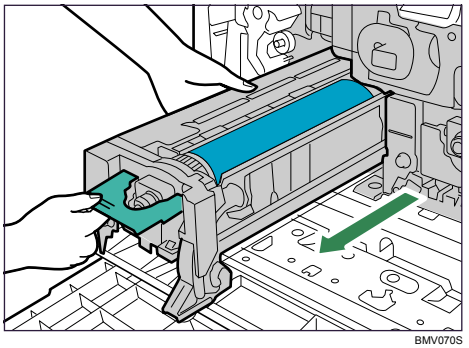
BMV068S

6. Holding the handle, pull the drum unit out until the green grip area is completely visible on the left side.



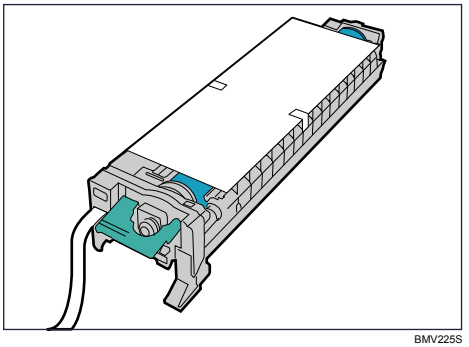
BMV069S

7. **Holding the green grip on the left and the handle on the front, pull out the drum unit.**



BMV070S

8. **Take the new yellow drum unit out of the box.**



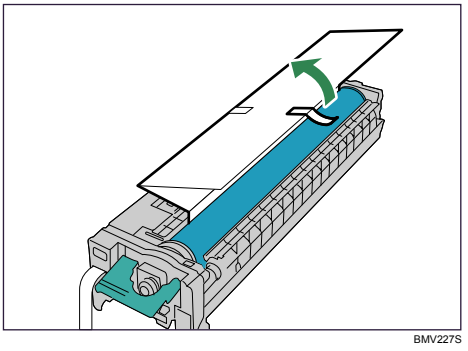
BMV225S

For black, install one black drum unit; for color, install all three together.

Exposure to light reduces black drum unit/color drum units performance. Replace the unit as quickly as possible.

9. **Remove the protecting cover. Do not remove the tape hanging from the front yet.**

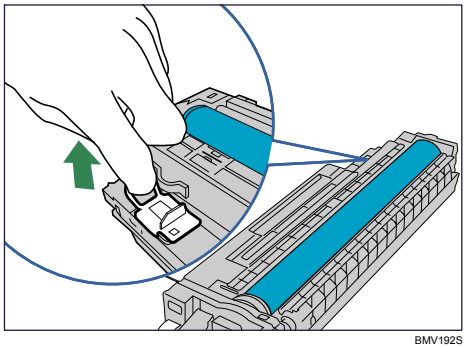
Take care that nothing comes into contact with the top surface of the drum unit.



BMV227S

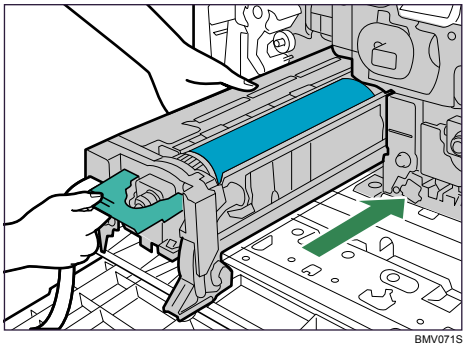
When holding the drum unit, hold the green grip on the left and the handle on the front together. Do not move the drum unit by only holding the grip. Doing so may damage the grip.

10. **Remove all the orange tape from the drum unit. Do not remove the tape coming out of the unit.**
11. **Remove the cap.**



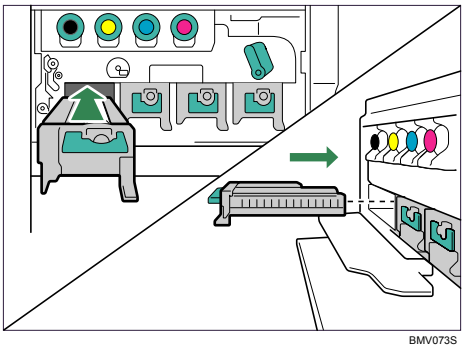
BMV192S

12. **Holding the green grip on the left and the handle on the front, carefully insert the front end into the space horizontally.**



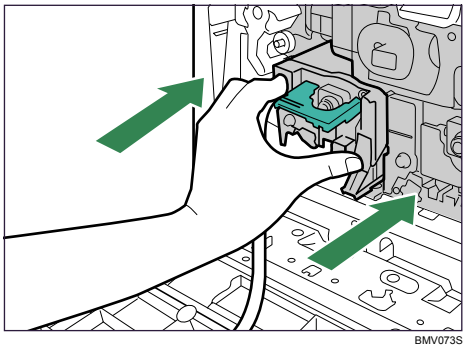
BMV071S

Insert it horizontally as shown below.



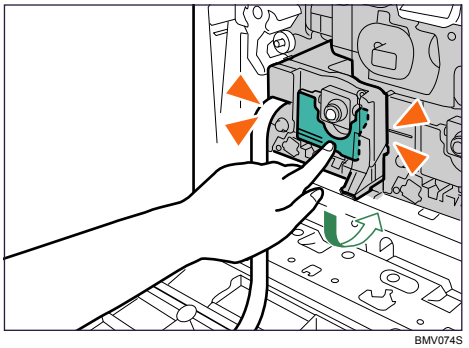
BMV073S

13. **Pushing the front of the drum unit, fully insert it into the printer.**



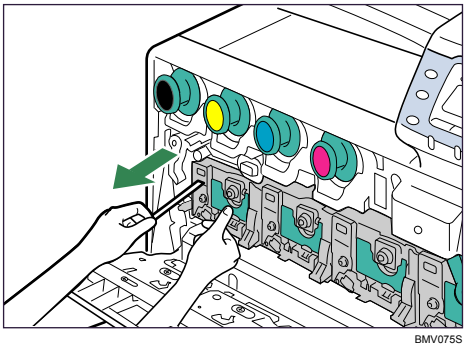
BMV073S

14. **Lower the handle located on the front of the drum unit, and push it until it clicks into place.**



BMV074S

15. **Holding the drum unit firmly in place, pull out the tape.**

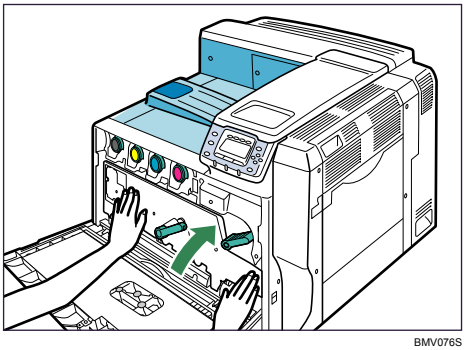


BMV075S

- Remember to pull out the tape. Malfunctions occur if you attempt to print while the tape is still attached.
- The removed tape is dirty. Be careful not to let it touch your hands or clothes.

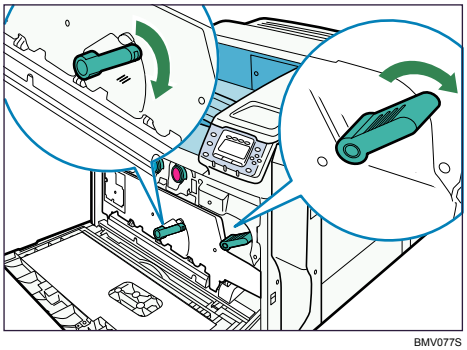
16. **When replacing a color drum unit, replace the other two color units together using the same procedure, before closing the inner cover.**

17. **Pressing both sides, firmly close the inner cover.**



BMV076S

18. **Turn the two green levers clockwise to lock the cover.**



BMV077S

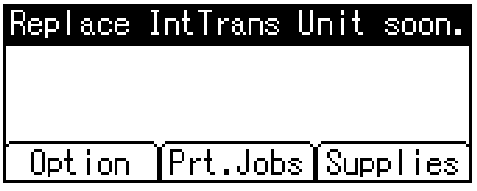
19. **Carefully close the front cover.**

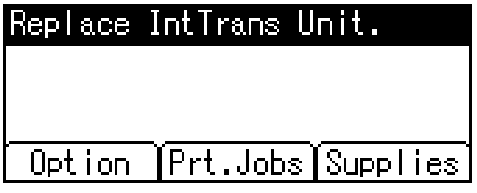
20. **Plug in the power cable, and then turn on the printer.**

    [Calibrating...] appears on the display, and the printer starts calibration. Wait until it stops. Calibration takes four to five minutes. Do not turn off the power during calibration. Doing so results in a malfunction.

Replacing the Transfer Unit

Replace the transfer unit if any of the following messages appear on the display:





Replacing the Transfer Unit

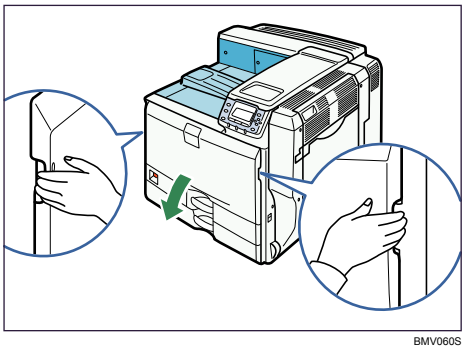
⚠CAUTION

- The inside of this printer becomes very hot. Do not touch parts labeled "⚠" (indicating a hot surface). Touching these parts will result in burns.

Important

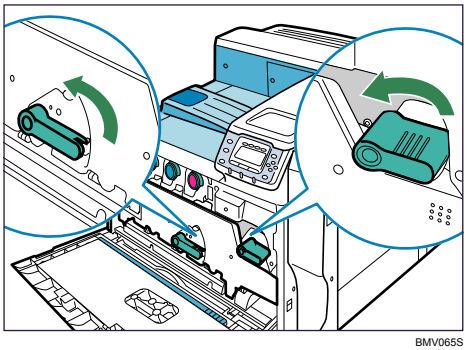
- **If the transfer unit is not installed correctly, a message appears on the control panel. Re-install the transfer unit. If installation fails three times in a row, "SC443" appears on the control panel. If this message appears, contact your sales or service representative.**

1. **Turn off the printer and unplug the power cable.**
2. **Holding the left and right side grips, carefully open the front cover.**



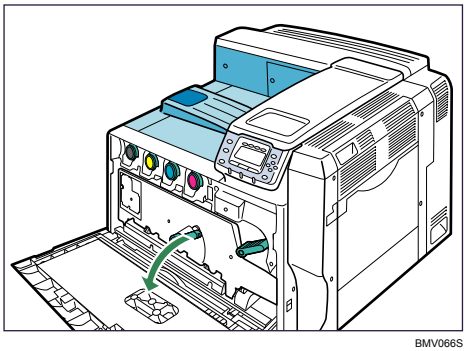
BMV060S

3. **Turn the two green levers counterclockwise.**



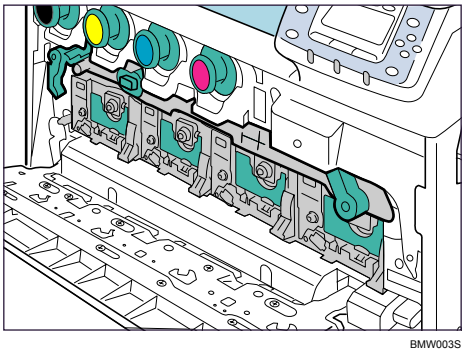
BMV065S

4. **Pulling the handle, slowly open the inner cover.**



BMV066S

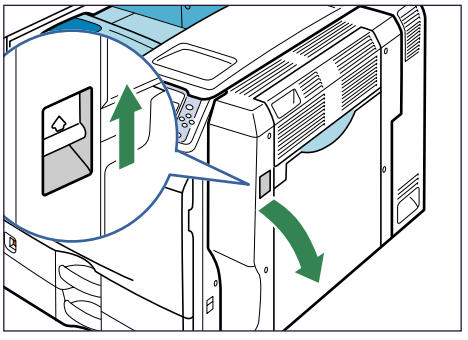
The transfer unit is installed as shown below.



BMW003S

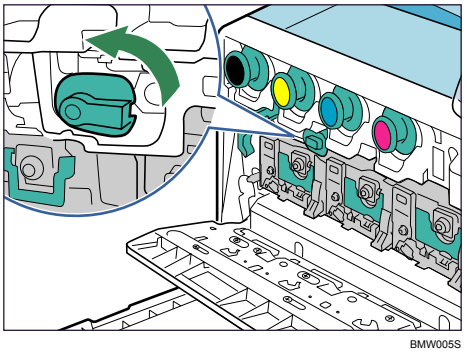
5. **Push up the lever on the right side, and open the printer's right cover carefully.**

Opening the right cover is necessary for transfer unit replacement.



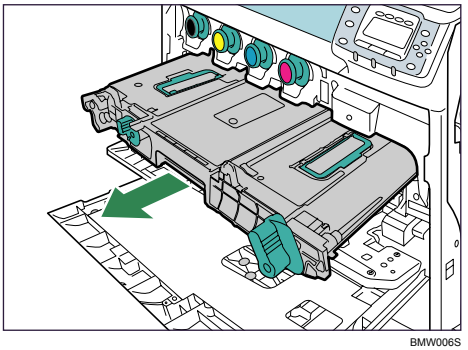
BMV103S

6. Turn the green lever located on the left side of the transfer unit counterclockwise.



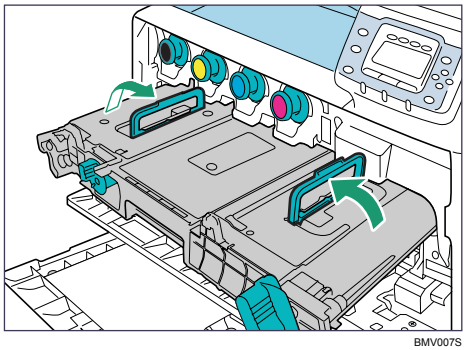
BMW005S

7. Holding the green grip in the center of the transfer unit, pull the unit out until the handles on the top surface become completely visible.



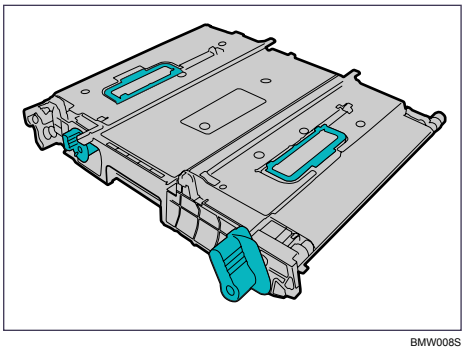
BMW006S

8. Lift the handles on the top surface.



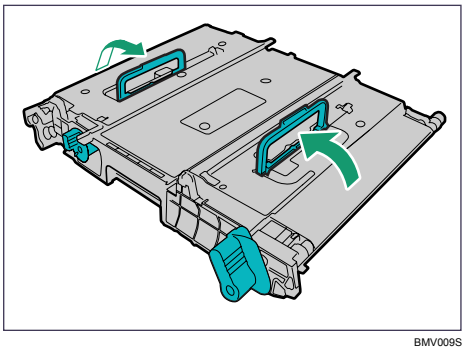
BMV007S

9. Holding the handles, slowly pull out the transfer unit.
10. Take the new transfer unit out of the bag and remove the cover from the transfer unit.



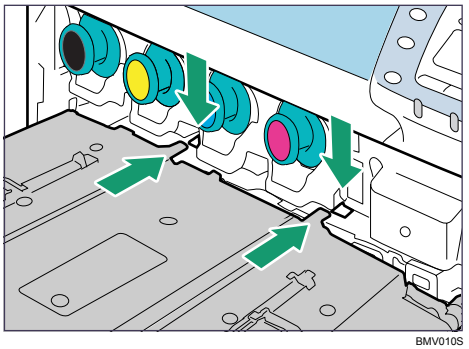
BMW008S

11. Lift the handles on the top surface.



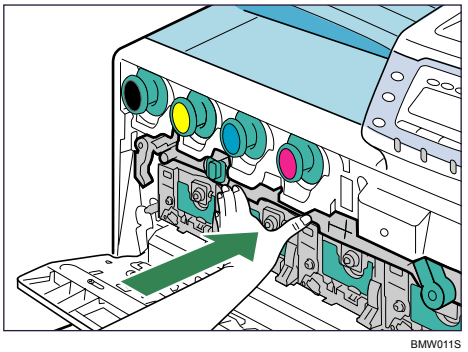
BMV009S

12. Slide the transfer unit along the guide rails into the printer until the upper handles touch the printer body.



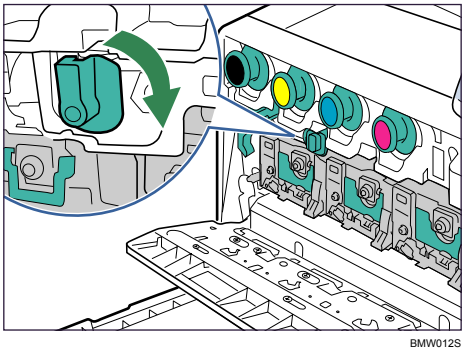
BMV010S

13. Lower the handles, and then push the front of the transfer unit to fully insert it into the printer.



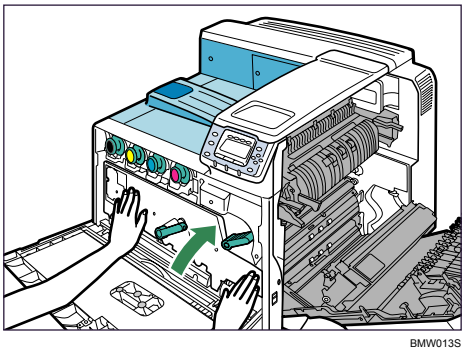
BMW011S

14. Turn the green lever on the left side of the transfer unit clockwise.



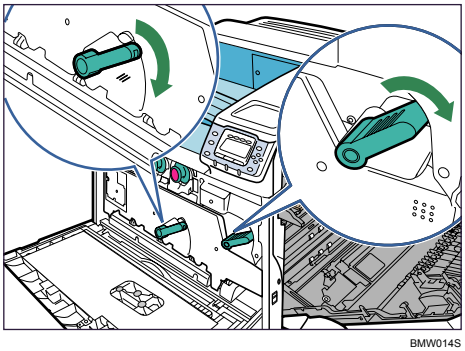
BMW012S

15. Pressing both sides, firmly close the inner cover.



BMW013S

16. Turn the green levers clockwise.



BMW014S

17. Carefully close the right cover.
18. Carefully close the front cover.
19. Plug in the power cable and turn on the printer.

Replacing the Waste Toner Bottle

⚠WARNING

- Do not incinerate spilled or used toner. Toner dust is flammable and might ignite when exposed to an open flame.
- Dispose of used toner containers in accordance with local regulations.

⚠CAUTION

- Keep toner (used or unused) and the toner containers out of reach of children. If a child swallows toner, consult a doctor immediately.

Important

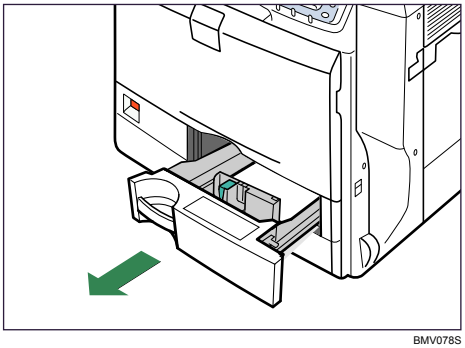
- **Waste toner bottles cannot be reused.**
- **Purchasing and storing extra waste toner bottles is recommended.**
- **Before removing the waste toner bottle from the printer, spread paper or some other material around the area to keep toner from dirtying your workspace.**

Replace the waste toner bottle if the following message appears on the display:

When the following message appears on the display, the waste toner bottle should be replaced soon. Prepare a new waste toner bottle.

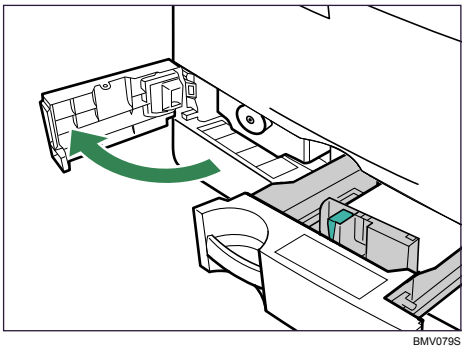
1. **Turn off the printer and unplug the power cable.**

2. Pull out Tray 1 carefully until it stops.



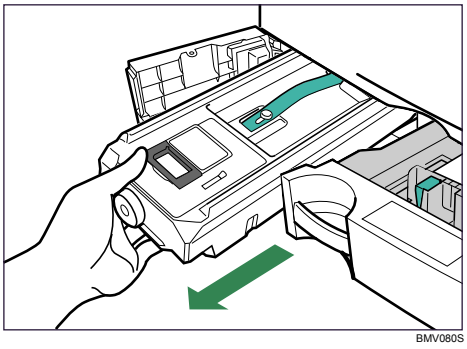
BMV078S

3. Open the left front cover slowly.



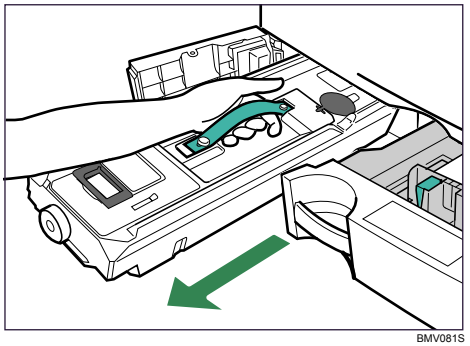
BMV079S

4. Holding the green grip located under the front of the waste toner bottle, and pull it out until the handle on the top is completely visible.



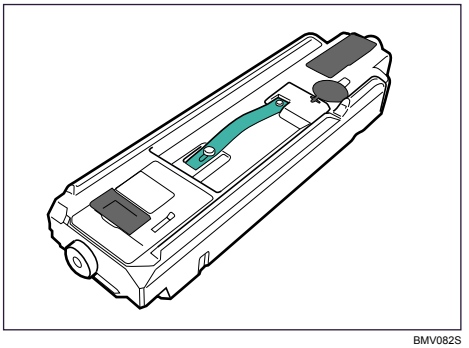
BMV080S

5. Holding the handle, carefully pull out the waste toner bottle horizontally.



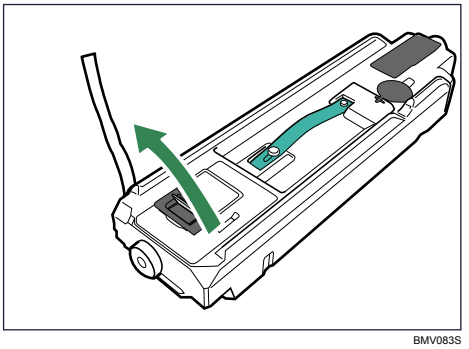
BMV081S

6. Put the waste toner bottle into the supplied plastic bag to prevent toner from leaking out of the bottle. Then, seal the bag.
7. Take the new waste toner bottle out of the box.



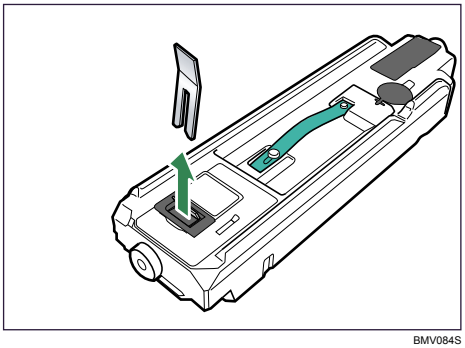
BMV082S

8. Remove the tape slowly.



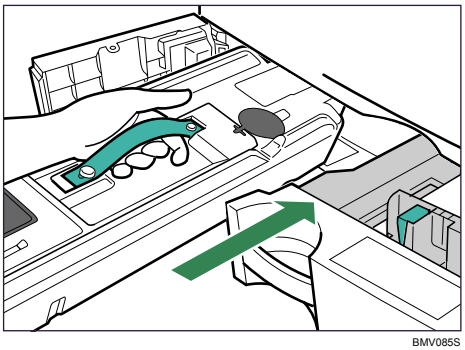
BMV083S

9. Slowly pull the thick paper out of the waste toner bottle vertically.



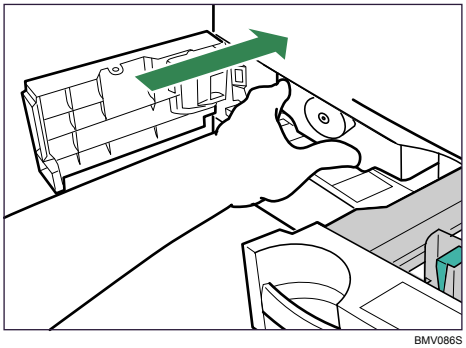
BMV084S

10. Holding the handle on the top, insert the waste toner bottle into the printer carefully.



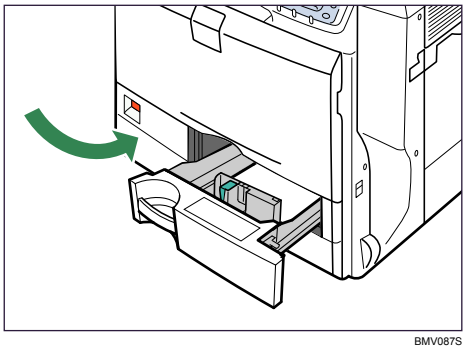
BMV085S

11. When the waste toner bottle is inserted to the handle area, push the front side of the waste bottle to fully insert it into the printer.



BMV086S

12. Carefully close the left front cover.

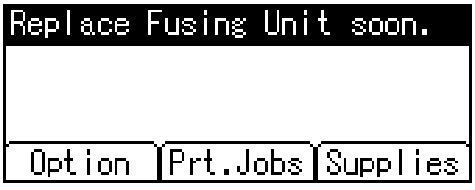


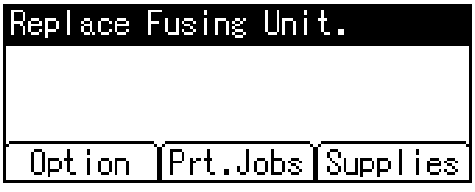
BMV087S

13. Carefully push Tray 1 into the printer until it stops.
14. Plug in the power cable and turn on the printer.

Replacing the Fusing Unit, Transfer Roller, and Dustproof Filter

Replace the fusing unit if any of the following messages appear on the display:





Replace the transfer roller and the dustproof filter at the same time.

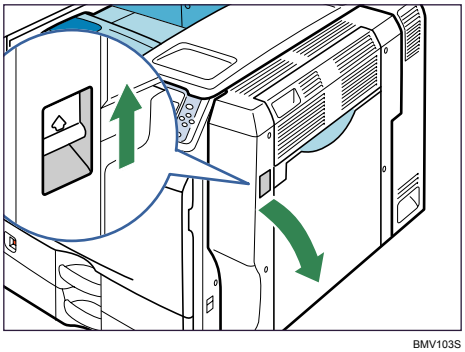
Replacing the Fusing Unit

When replacing the fusing unit, clean it simultaneously.

⚠CAUTION

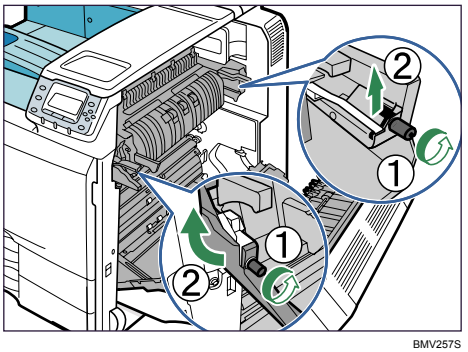
- The fusing unit becomes very hot. When installing a new fusing unit, turn off the printer and wait at least an hour after power off before replacing parts. Not allowing the printer to cool may result in burns.

1. **Turn off the printer and unplug the power cable.**
2. **Push up the lever on the right side, and open the printer's right cover carefully.**



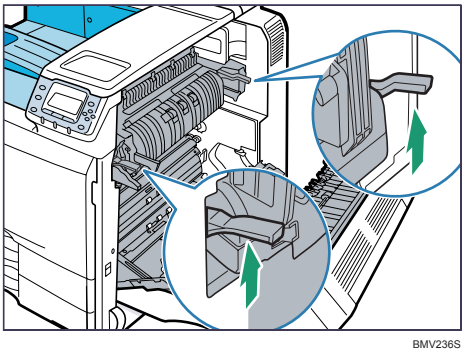
BMV103S

3. Loosen the screws to remove the brackets from both sides of the fusing unit.



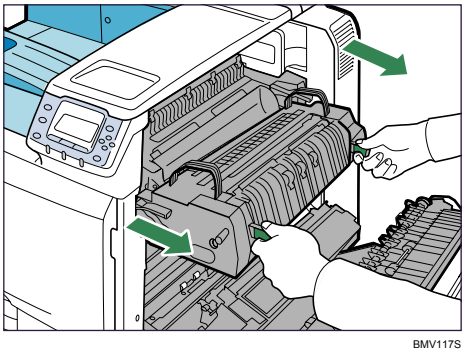
BMV257S

4. Raise the C1 levers on both sides.



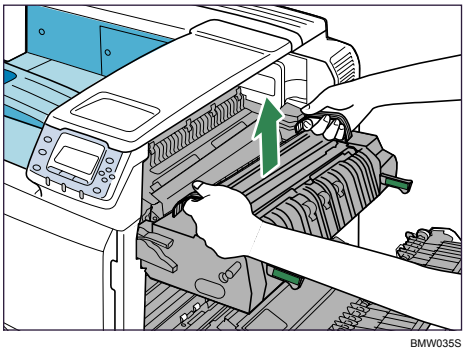
BMV236S

5. Holding the C2 levers, pull out the fusing unit.



BMV117S

6. **While holding the handles, slowly pull up the fusing unit.**

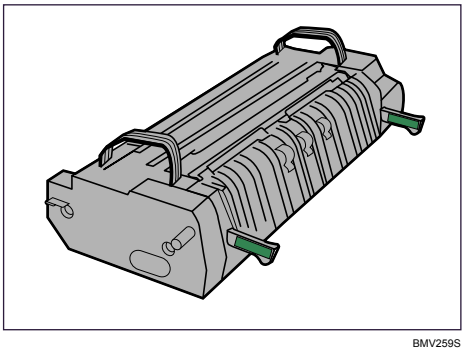


BMW035S

7. **Clean the lens inside of the printer after pulling up the fusing unit.**

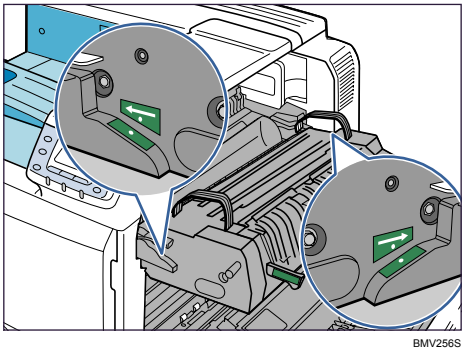
   For details about the cleaning procedure, see the replacement guide provided with the fusing unit.

8. **Take the new fusing unit out of the bag.**



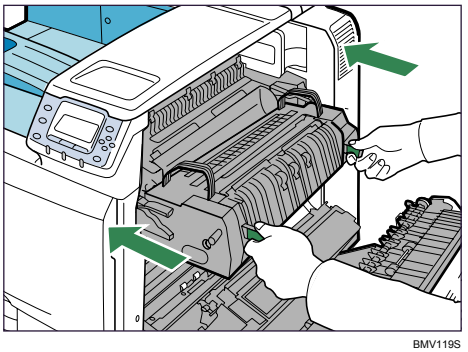
BMV259S

9. **Set the fusing unit on the guide plate, making sure to align the green marks on the fusing unit and the printer.**



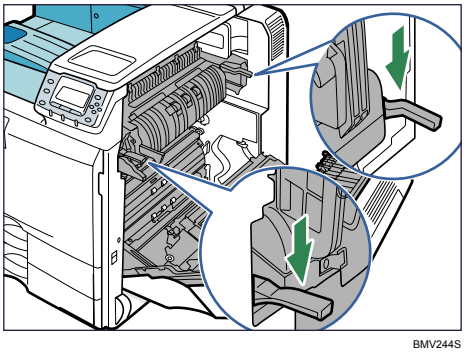
BMV256S

10. **Push the fusing unit back into the printer carefully until it completely stops.**



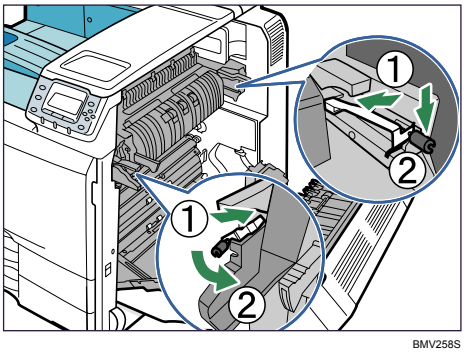
BMV119S

11. **Push down the C1 levers on both sides.**



BMV244S

12. **Reattach the brackets to both sides of the fusing unit and tighten the screws.**



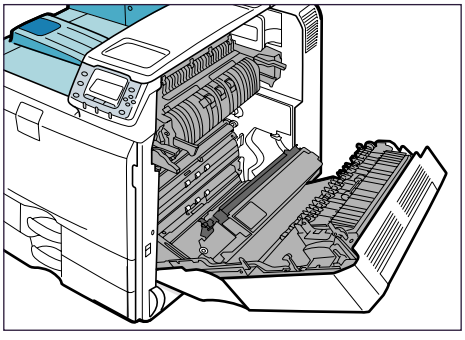
BMV258S

Note

- This completes fusing unit replacement. Leave the right cover open, replace the transfer roller and the dustproof filter as shown below.

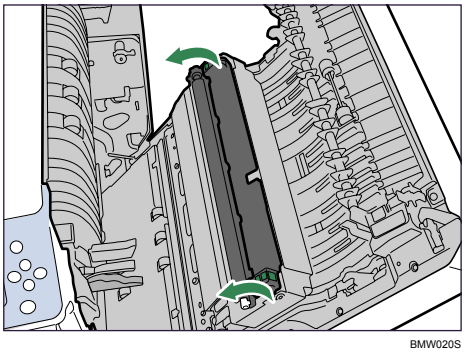
Replacing the Transfer Roller

1. The transfer roller is installed as shown below.



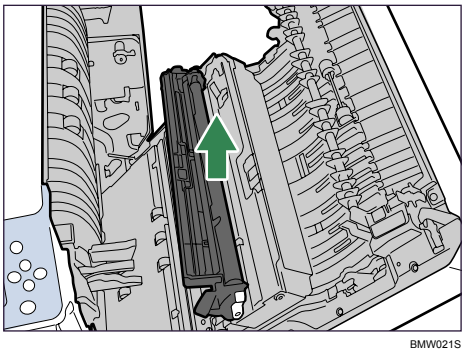
BMW019S

2. Holding the green grips on both sides, pull up the transfer roller.



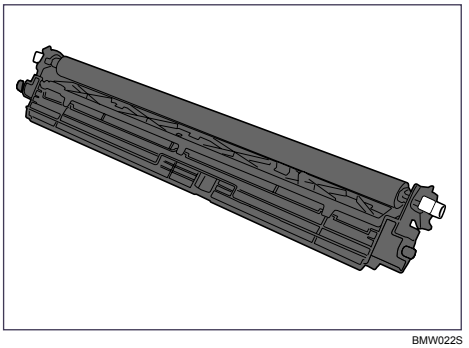
BMW020S

3. Holding the green grips, pull out the transfer roller from the printer.



BMW021S

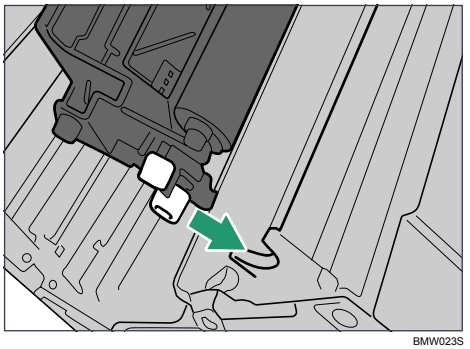
4. **Take the new transfer roller out of the bag.**



BMW022S

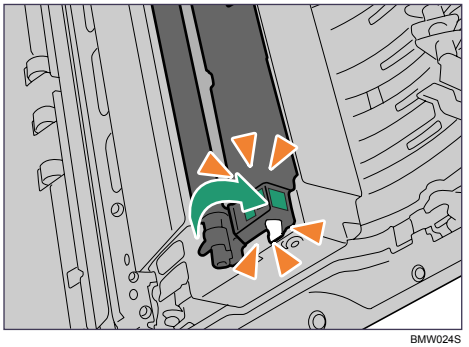
Hold the grips on both sides of the transfer roller.

5. **Place the transfer roller into the grooves of the printer.**



BMW023S

6. **Secure the transfer roller by pushing the green grips on both sides until it locks into place.**



BMW024S

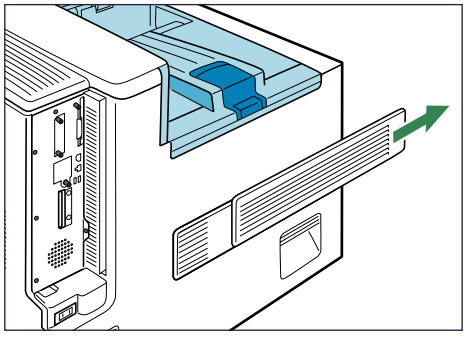
7. **Carefully close the right cover.**

Note

- This completes the transfer roller replacement. Follow the next procedure to replace the dustproof filter as shown below.

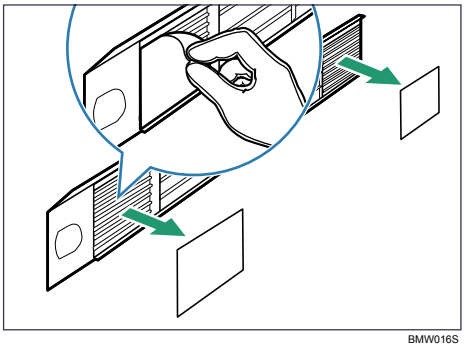
Replacing the Dustproof Filter

1. **Remove the dustproof filter cover by sliding it to the right.**



BMW015S

2. **Take out the new dustproof filters and glove from the box.**
3. **Put the glove on either hand.**
4. **Remove the filters with the gloved hand. Put the filters into the fusing unit's box.**



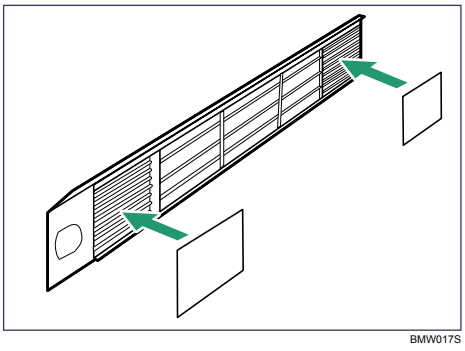
BMW016S

Handle the removed filters with care. Waving the filters will release toner.

5. **Remove the glove.**

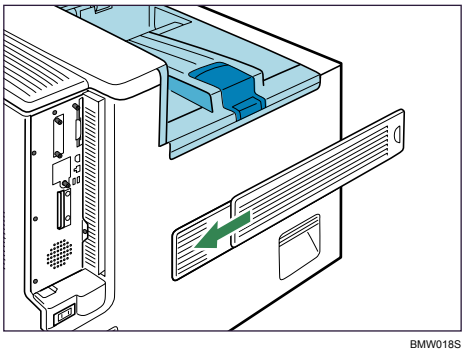
Put the glove into the fusing unit's box.

6. **Attach the new filters.**



BMW017S

7. Slide the dustproof filter cover back to its original position.



BMW018S

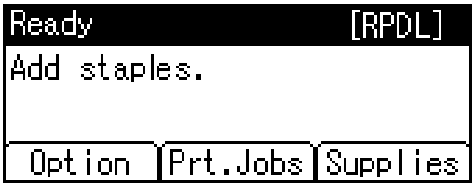
8. Plug in the power cable and turn on the printer.

Adding Staples

Important

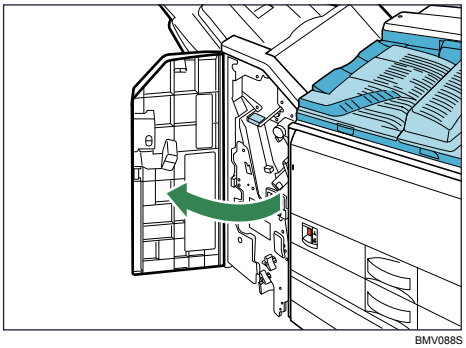
- Be sure to use the approved staple cartridges. Stapling failures or jams may occur if you use a staple cartridge other than that recommended.
- After the cartridge is replaced, the next five to seven sheets will not be stapled until the finisher has adjusted the position of the staple sheet.

Add staples to the finisher if the following messages appear on the display:

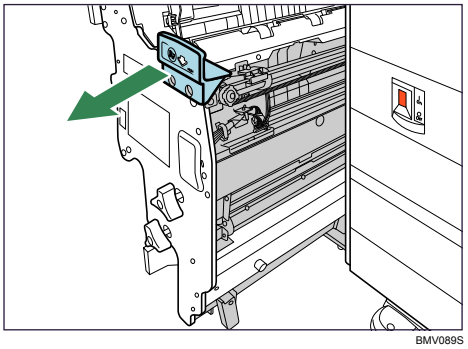


When the Booklet Finisher is Installed

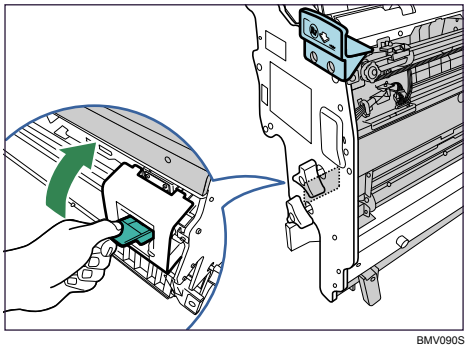
1. Open the front cover of the finisher.



2. Holding the R7 lever, pull out the staple unit.

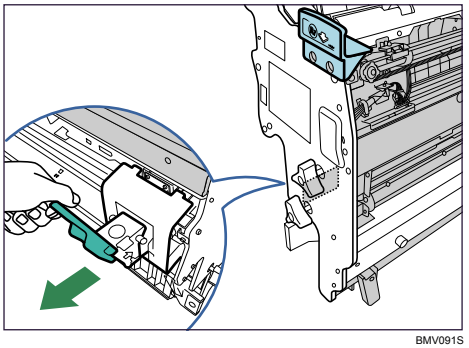


3. Raise the lever.



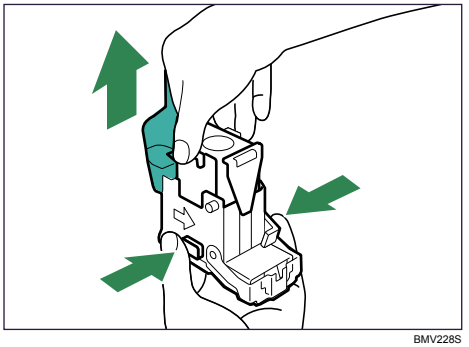
BMV090S

4. Holding the lever on the cartridge, pull the cartridge gently out of the staple unit.



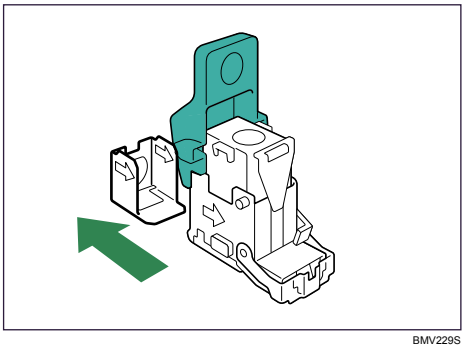
BMV091S

5. Pushing both sides of the cartridge, pull out the upper unit.



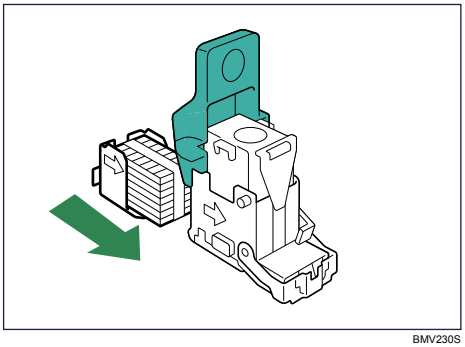
BMV228S

6. **Take out the empty staple case.**



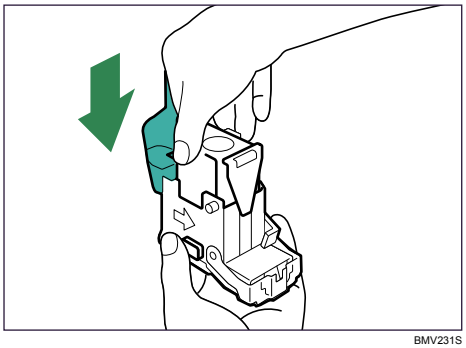
BMV229S

7. **Push the new case into the cartridge until it clicks.**



BMV230S

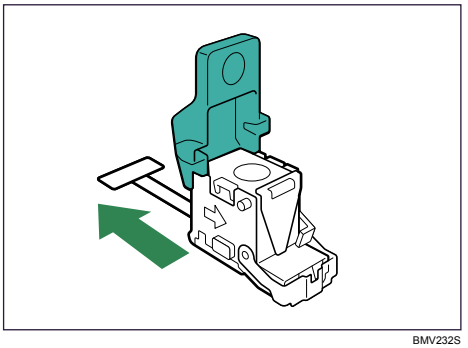
8. **Lower the upper unit carefully.**



BMV231S

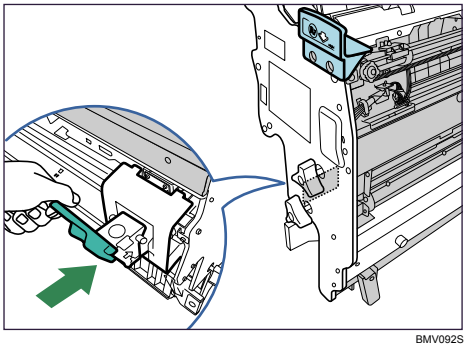
9. **Pull the ribbon out of the staple case that you attached.**

   The ribbon rolls around the staple case. Make sure to pull it out completely.



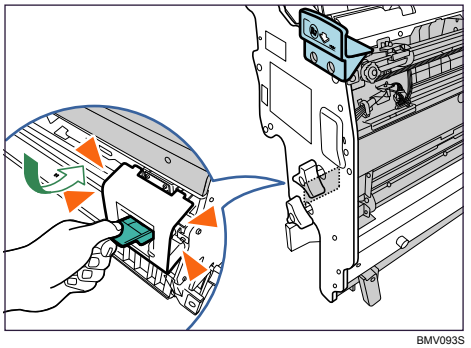
BMV232S

10. Holding the lever on the cartridge, push the cartridge gently into the staple unit until it clicks.



BMV092S

11. Push the lever down until it clicks.



BMV093S

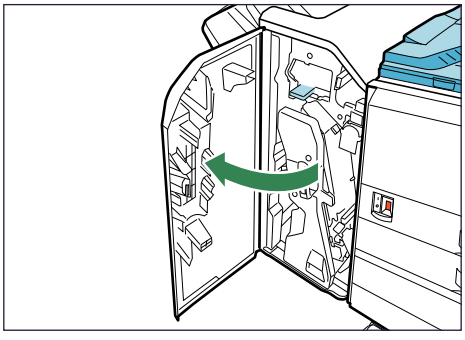
12. Return the staple unit to its original position.
13. Close the front cover of the finisher.

Note

- If you cannot pull out the upper unit there are staples remaining inside the cartridge. Use all the staple before replacing the cartridge.

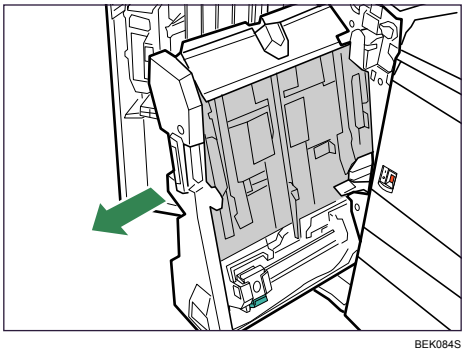
When the 2 Tray Finisher is Installed

1. Open the front cover of the finisher.



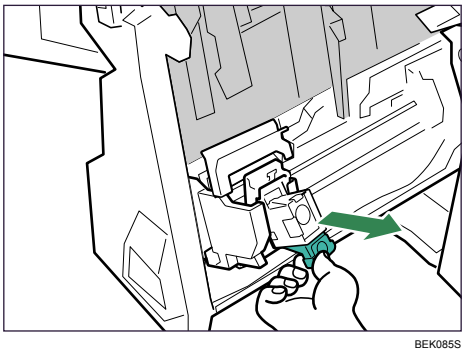
BMV094S

2. Holding the lever, pull out the staple unit.



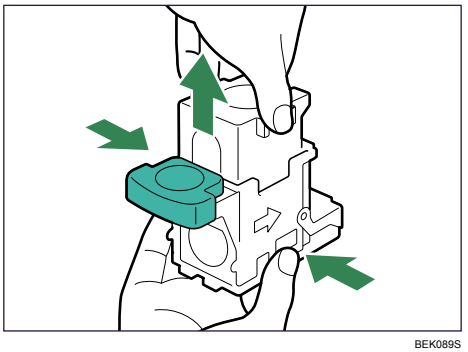
BEK084S

3. Hold and lift the lever on the cartridge and pull the cartridge gently out of the staple unit.



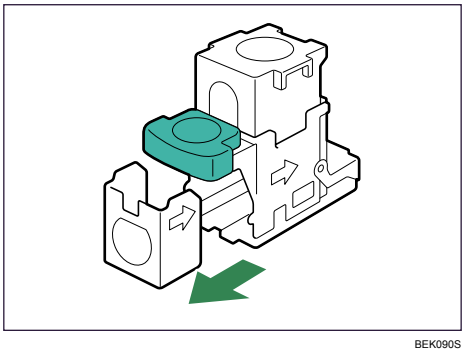
BEK085S

4. Pushing both sides of the cartridge, pull out the upper unit.



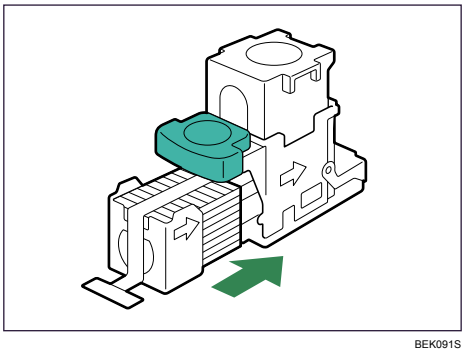
BEK089S

5. Take out the empty staple case.



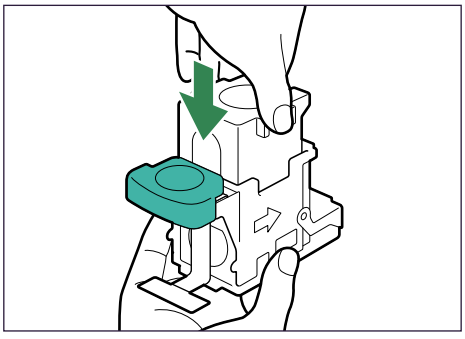
BEK090S

6. Push the new case into the cartridge until it clicks.



BEK091S

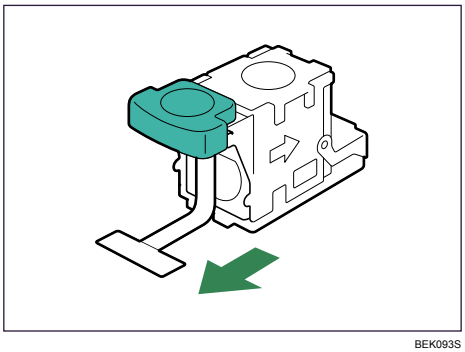
7. **Lower the upper unit carefully.**



BEK092S

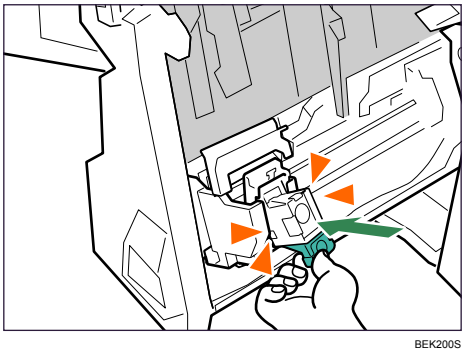
8. **Pull the ribbon out of the staple case that you attached.**

   The ribbon rolls around the staple case. Make sure to pull it out completely.



BEK093S

9. **Holding the lever on the cartridge, push the cartridge down gently into the staple unit until it clicks.**



BEK200S

10. **Return the staple unit to its original position.**
11. **Close the front cover of the finisher.**

Note

- If you cannot pull out the upper unit, there are staples remaining inside the cartridge. Use all the staples before replacing the cartridge.

7. Cleaning the Printer

This chapter explains how to clean this printer.

Cautions When Cleaning

⚠WARNING

- To avoid hazardous electric shock or laser radiation exposure, do not remove any covers or screws other than those specified in this manual. When the machine needs to be checked, adjusted, or repaired, contact your service representative.
- Do not take apart or attempt any modifications to this machine. There is a risk of fire, electric shock, explosion or loss of sight. If the machine has laser systems, there is a risk of serious eye damage.

⚠CAUTION

- When removing misfed paper, do not touch the fusing unit because it could be very hot.

Clean the printer periodically to maintain fine printing.

Dry wipe the exterior with a soft cloth. If dry wiping is not enough, wipe with a soft, wet cloth that is wrung out well. If you still cannot remove the stain or dirt, apply a neutral detergent, and then wipe over with a well-wrung wet cloth, dry wipe, and then let it dry.

Important

- **To avoid deformation, discoloration, or cracking, do not use volatile chemicals, such as benzine and thinner, or spray insecticide on the printer.**
- **If there is dust or grime inside the printer, wipe with a clean, dry cloth.**
- **You must disconnect the plug from the wall outlet at least once a year. Clean away any dust and grime from the plug and outlet before reconnecting. Accumulated dust and grime pose a fire hazard.**

Cleaning the Friction Pads

If the friction pad is dirty, multi-feeds or misfeeds might occur. In this case, clean the pad as shown below.

Important

- **Do not use chemical cleaner or organic solvent such as thinner or benzine.**

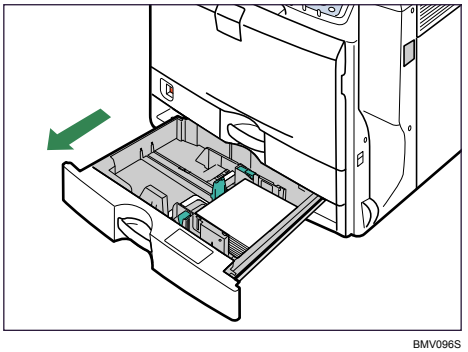
Note

- If misfeeds or multi-feeds of paper occur after cleaning the friction pad, contact your sales or service representative.

Paper Trays, 500/1000-sheet Paper Feed Unit

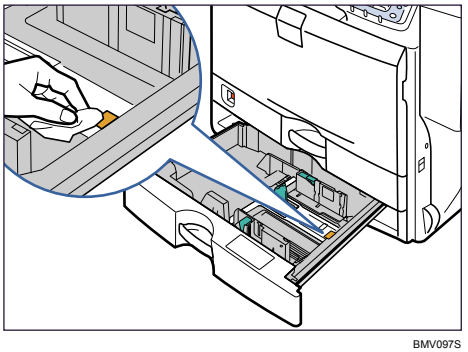
The same procedure is applied to clean the friction pads of the standard paper trays and the 500/1000-sheet paper feed units. Tray 2 is used as an example.

1. **Carefully pull out the paper tray until it stops.**



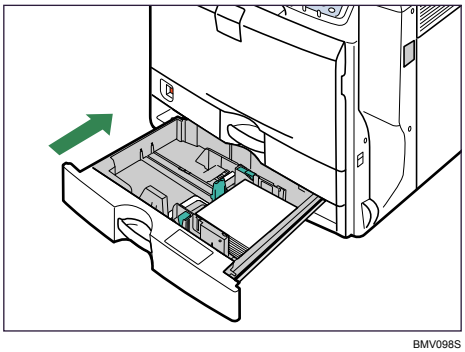
BMV096S

2. **Remove the loaded paper.**
3. **Wipe the friction pad with a soft damp cloth.**



BMV097S

4. **Reload the paper into the paper tray and push it gently into the printer until it stops.**

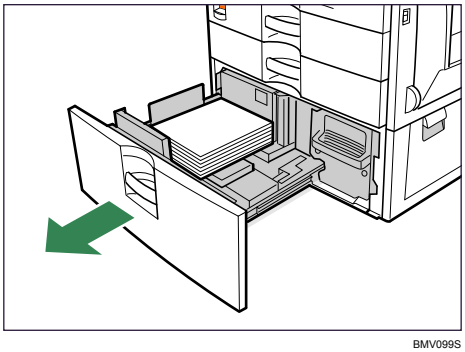


BMV098S

Do not slide the paper tray in with force. If you do, the paper guides might move.

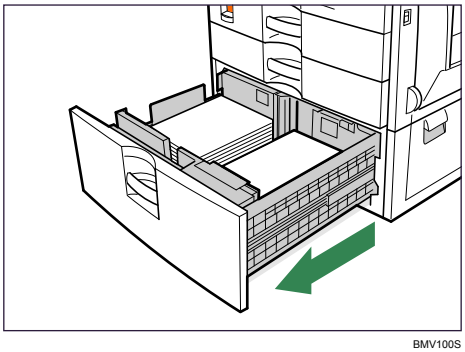
2000-sheet Paper Feed Unit

1. **Carefully pull out the paper tray until it stops.**



BMV099S

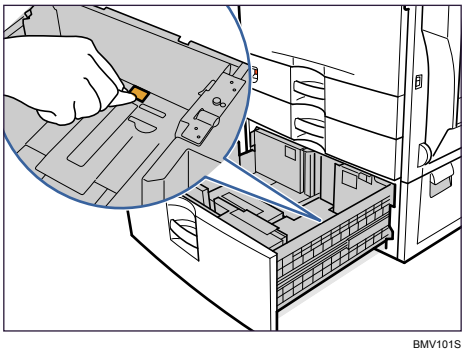
2. **Holding the lever on the right side of the tray, pull the tray completely out.**



BMV100S

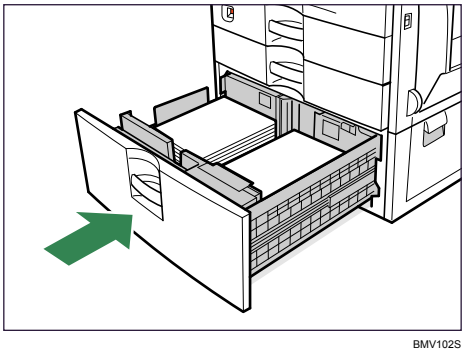
3. **Remove the loaded paper.**

4. **Wipe the friction pad with a soft damp cloth.**



BMV101S

5. **Reload the paper into the paper tray and push it gently into the printer until it stops.**



BMV102S

Cleaning the Registration Roller

If types of paper other than the standard types are used, specks of paper may stick around the registration roller, causing problems. Clean the registration roller if white dots appear on prints.

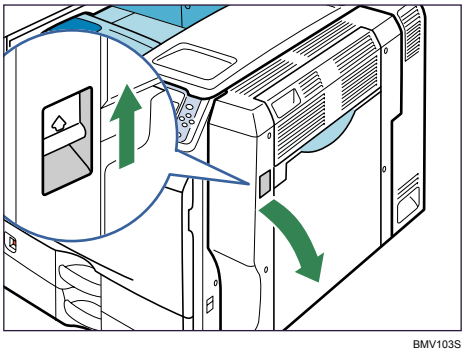
⚠CAUTION

- The inside of this printer becomes very hot. Do not touch parts labeled "⚠" (indicating a hot surface). Touching these parts will result in burns.

Important

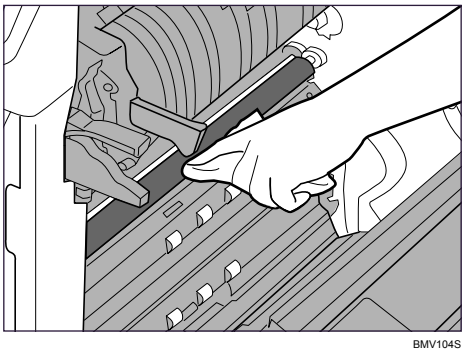
- **Do not use chemical cleaners or organic solvents such as thinners or benzine.**
- **Do not touch the belt of the roller when cleaning.**

1. **Turn off the printer and unplug the power cord.**
2. **Push up the lever on the right side, and open the printer's right cover carefully.**



BMV103S

3. **Clean the registration roller by applying a soft damp cloth while turning it.**



BMV104S

4. **Close the right cover.**
5. **Plug in the power cord and turn on the printer.**

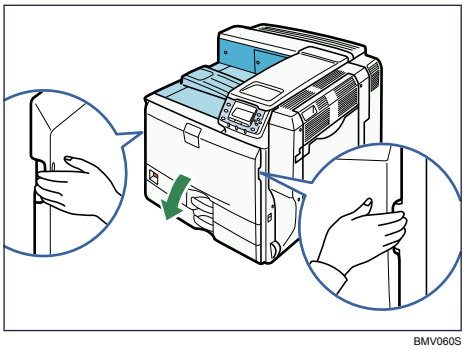
Cleaning the Dustproof Glass

Clean the dustproof glass if white lines appear on prints.

Important

- **Do not forcefully insert the cleaning stick. It may scratch the inside of the printer.**

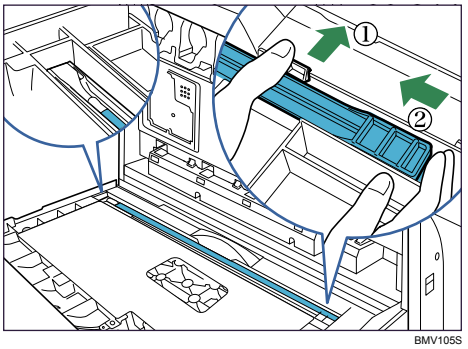
1. **Turn the printer off and unplug the power cable.**
2. **Holding the left and right handles, open the front cover.**



BMV060S

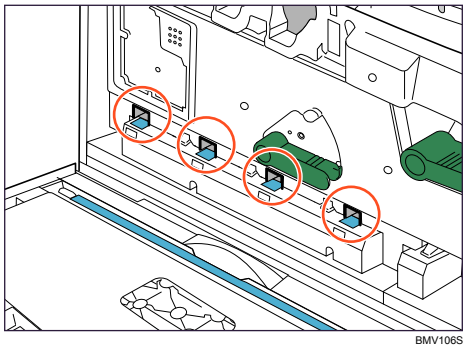
The cleaning stick is installed inside the front cover.

3. **Push and hold the grip in the center (①), and lift the handle of the cleaning stick (②).**

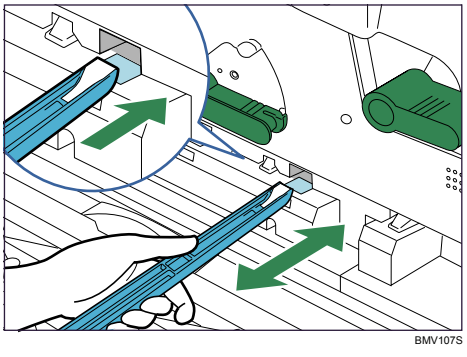


BMV105S

There are four holes to insert the cleaning stick.

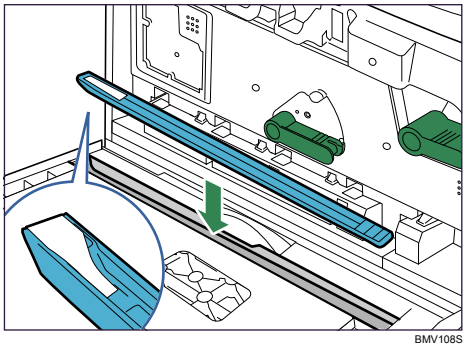

BMV106S

4. **Place the cleaning stick back inside the front cover.**


BMV107S

Clean all holes.

5. **Return the cleaning stick inside the front cover.**


BMV108S

Be sure the cloth tape faces down when you replace the stick.

6. **Close the front cover carefully.**
7. **Plug in the power cable and turn on the printer.**

8. Adjusting the Printer

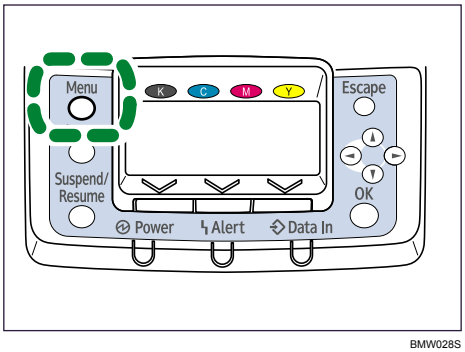
This chapter explains how to adjust the color gradations, color alignment, and print position.

Adjusting the Color Registration

This section describes automatic color adjustment.

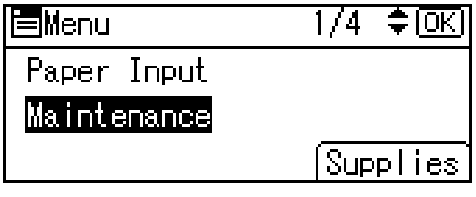
After moving the printer, printing on thick paper, or printing repeatedly for some time, color degradation may occur. By performing automatic color adjustment, you can restore optimum print quality.

1. **Press the [Menu] key.**

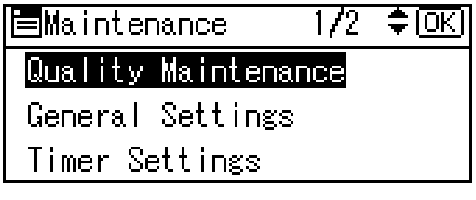


BMW028S

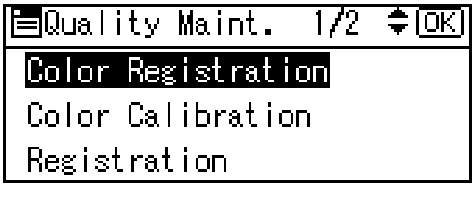
2. **Press the [▼] or [▲] key to select [Maintenance], and then press the [OK] key.**



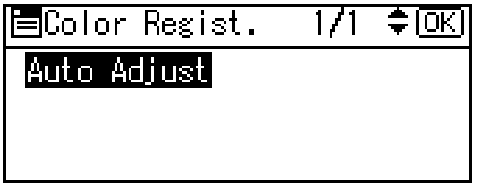
3. **Press the [▼] or [▲] key to select [Quality Maintenance], and then press the [OK] key.**



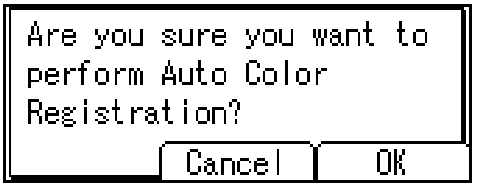
4. **Press the [▼] or [▲] key to select [Color Registration], and then press the [OK] key.**



5. **Press the [OK] key.**



6. **The confirmation message appears. Press [OK].**



Automatic adjustment begins.

Automatic adjustment takes about 30 seconds.

A confirm message appears when complete.

7. **Press [Exit].**

The display returns to the Color Registration screen.

The display returns to the initial screen.

Correcting the Color Gradation

This section describes correcting the color gradation.

Color gradation during color printing can change slightly, depending on a number of factors. If you print the same file repeatedly or toner was recently replaced, changes may occur in color tones. In such cases, you can obtain optimal print results by correcting the color gradation.

Note

- Color gradation correction is not required under normal circumstances.
- If a printer is not used for some time, changes could occur in color tones.
- If suitable results cannot be obtained after a single correction, repeat the correction several times as needed.
- Corrections to color gradation will be applied to all user jobs.
- Use the same type of paper when printing a run of gradation corrections. If a different type of paper is used, corrections may not be apparent.
- This feature requires the use of the supplied Color Calibration Sample Sheet.
- Corrections to color gradation are performed in the following order:
  1. Print gradation correction sheet 1.
  2. Adjust the parts of highlight colors.

     Set the correction value.

     Print the gradation correction sheet, and then check the result of the correction.
  3. Print gradation correction sheet 2.

     Adjust the parts of middle colors.

     Set the correction value.

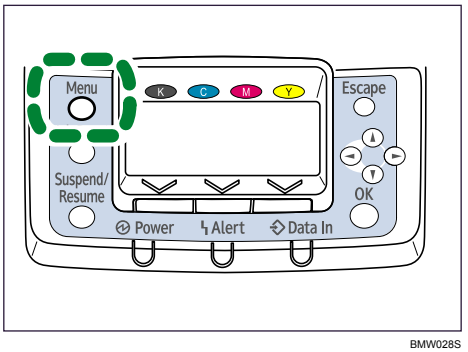
     Print the gradation correction sheet, and then check the result of the correction.
  4. Save the correction value.

Setting the Gradation Correction Value

The following procedure describes adjusting the gradation correction value.

Correct the gradation in two areas: bright areas (highlights), and medium areas (midtones). [Print Test Pattern 1] is used to set the correction value for highlights, and [Print Test Pattern 2] is used for mid tones.

1. **Press the [Menu] key.**



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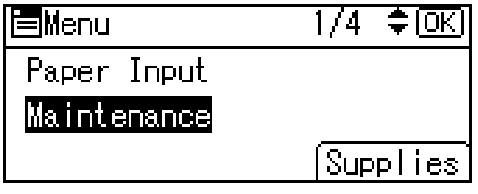
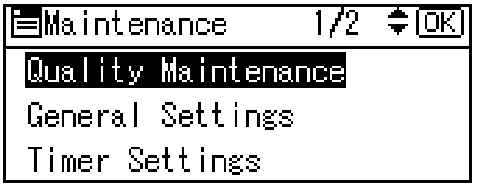
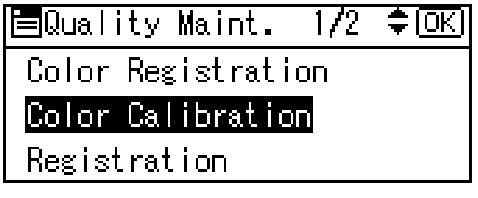
2. **Press the [▼] or [▲] key to select [Maintenance], and then press the [OK] key.**



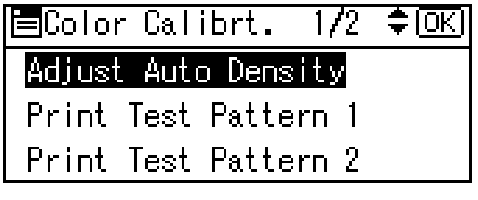
3. **Press the [▼] or [▲] key to select [Quality Maintenance], and then press the [OK] key.**



4. **Press the [▼] or [▲] key to select [Color Calibration], and then press the [OK] key.**



5. **Press the [▼] or [▲] key to select [Adjust Auto Density].**

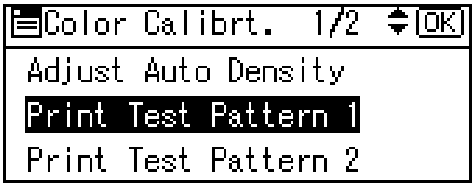


The confirmation message appears. Press [OK] to adjust Auto Density.

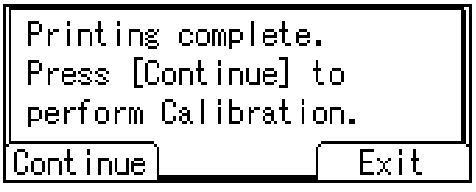
The confirmation message appears when complete. Press [Exit].

The display returns to the Color Calibration screen.

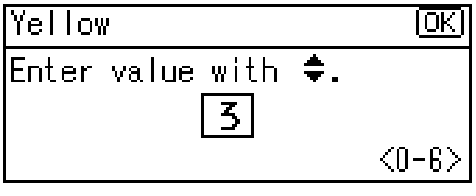
6. In the Color Calibration menu, press the [▼] or [▲] key to select [Print Test Pattern 1] or [Print Test Pattern 2], and then press the [OK] key.



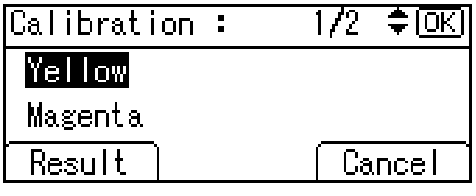
7. When the selected sheet is printed, the confirmation message appears. Press [Continue].



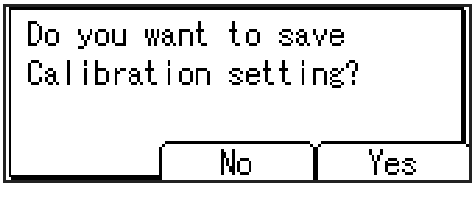
8. Press the [▼] or [▲] key to select the color you want to adjust, and then press the [OK] key.
9. Press the [▼] or [▲] key to adjust the correction value for the selected color, and then press the [OK] key.



10. Press [Result] to check the result by printing the calibration sheet.



11. After printing, press [Yes] to save the settings.



12. After completing all settings, press the [Online] key to return to the initial screen.

Viewing the Color Calibration Sample Sheet and Gradation Correction Sheet

The Color Calibration Sample Sheet contains two color sample columns "sample 1" column for adjusting highlights and "sample 2" column for adjusting midtones.

The gradation correction sheet contains: "gradation correction sheet 1" for adjusting highlights and "gradation correction sheet 2" for adjusting midtones. Gradation correction sheet 1 is used for correction 1, while gradation correction sheet 2 is used for correction 2.

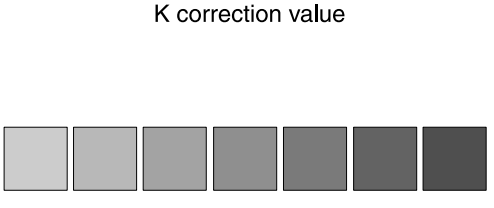
Color sample and correction values

The following explains how to view the color sample of the Color Calibration Sample Sheet and the correction values of the gradation correction sheet.

This explanation uses setting K (black) as an example. The setting method for M (magenta) is similar. For C/Y (cyan/yellow), the correction value is determined based on combinations of these two colors, although panel settings are configured for each color separately.

Note

- Hold the correction value (0 to 6) for "K" of the correction value setting sheet over the color sample of gradation correction 1 of the Color Calibration Sample Sheet and find the corrected color closest to that of the color sample. Then, enter the corresponding number using the operation panel. The currently set correction value is printed in red.



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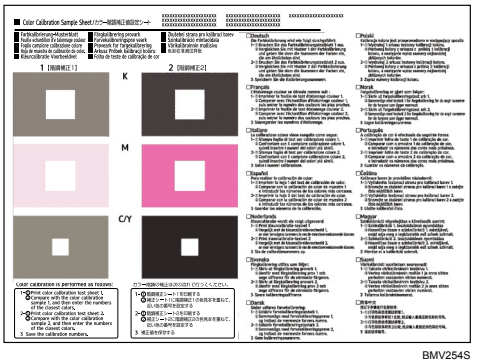

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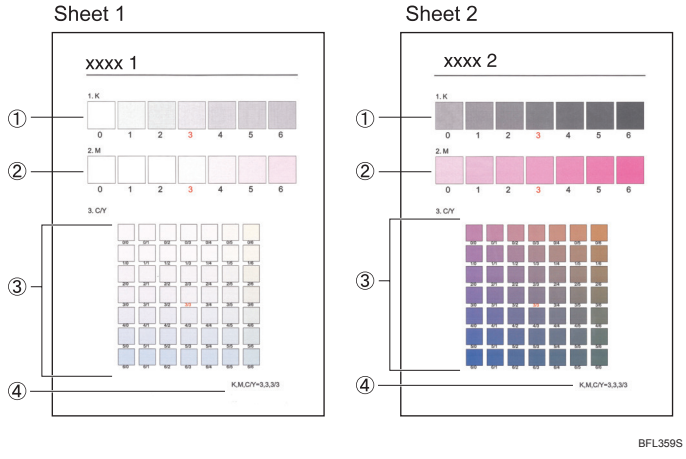
Reading the gradation correction sheet

The printed gradation correction sheet is read as shown below.

Comparing the gradation correction sheet and correction value of each color, K (black), M (magenta), and C (cyan)/Y (yellow) determine the required gradation correction and configure settings using the control panel.



1. **K (black) correction values**

   Used to adjust the color printed when only black toner is used. The currently set correction value is printed in red.

2. **M (magenta) correction values**

   Used to adjust the color printed when only magenta toner is used. The currently set correction value is printed in red.

3. **C (cyan)/Y (yellow) correction values**

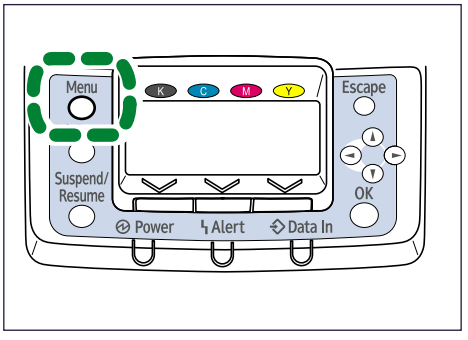
   Used to correct the colors printed when cyan and yellow are used. For C/Y (cyan/yellow), the correction value is determined based on combinations of these two colors, although panel settings are configured for each color.

4. **Setting value**

   The value displayed is the one currently set when the gradation correction sheet is printed. This value corresponds to the value set on the control panel.

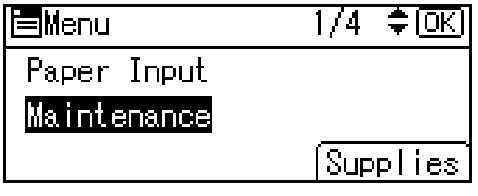
Resetting the Gradation Correction Value to the Initial Value

1. Press the [Menu] key.

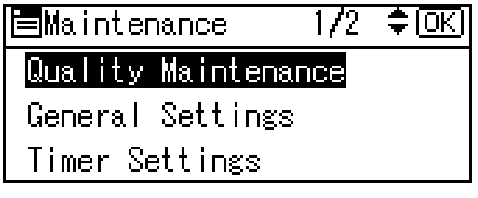


BMW028S

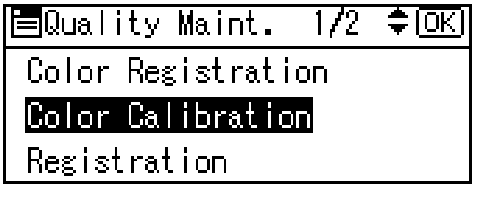
2. Press the [▼] or [▲] key to select [Maintenance], and then press the [OK] key.



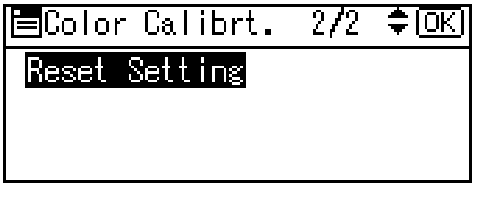
3. Press the [▼] or [▲] key to select [Quality Maintenance], and then press the [OK] key.



4. Press the [▼] or [▲] key to select [Color Calibration], and then press the [OK] key.



5. Press the [▼] or [▲] key to select [Reset Setting], and then press the [OK] key.



A confirmation message appears. Press [Yes] to reset Calibration setting.

The confirmation message appears when complete. Press [Exit].

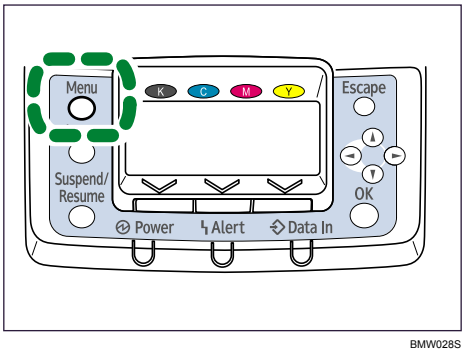
6. **Press the [Menu] key.**

   The display returns to the initial screen.

Adjusting Printing Position

You can adjust the printing position for the 500-sheet paper feed unit (tray 3) and the 1000-sheet paper feed unit (tray 3 to tray 5). Only the horizontal printing position can be adjusted. "Horizontal" means perpendicular to the feed direction. Normally you do not need to update the printing position. However, updating is useful in some cases when the optional paper feed unit is installed.

1. **Press the [Menu] key.**



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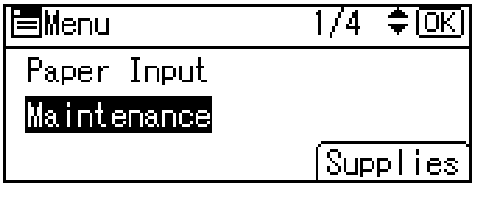
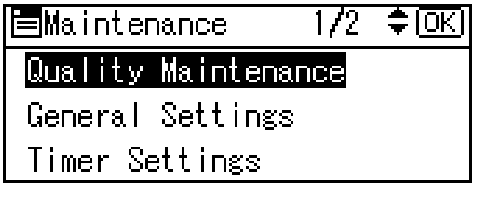
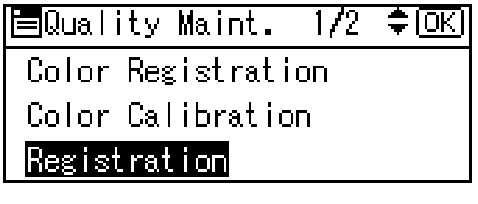
2. **Press the [▼] or [▲] key to select [Maintenance], and then press the [OK] key.**



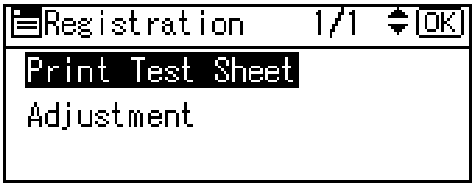
3. **Press the [▼] or [▲] key, and then press the [OK] key to select [Quality Maintenance].**



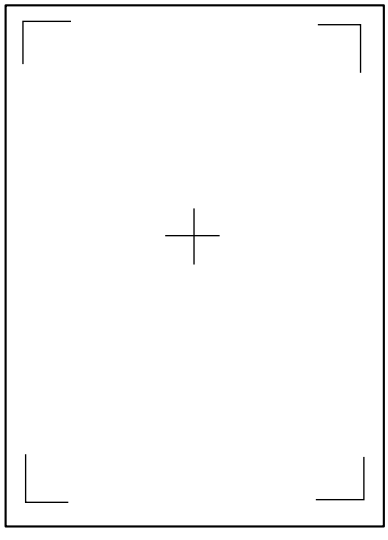
4. **Press the [▼] or [▲] key to select [Registration], and then press the [OK] key.**



5. **Press the [▼] or [▲] key to select [Print Test Sheet], and then press the [OK] key.**

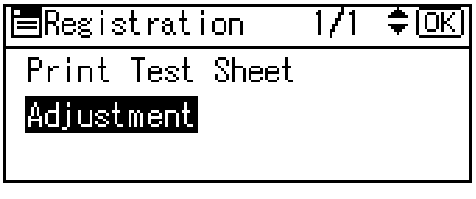


6. **Press the [▼] or [▲] key to select the tray you want to adjust, and then press the [OK] key.**
7. **Print the test sheet to preview the settings.**

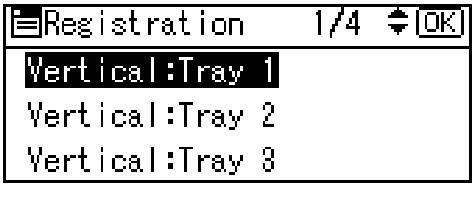


Use this sheet to confirm the current print position.

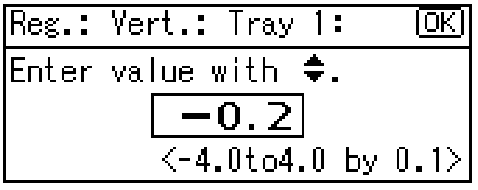
8. **Press the [Escape] key to return to the registration menu.**
9. **Press the [▼] or [▲] key to select [Adjustment], and then press the [OK] key.**



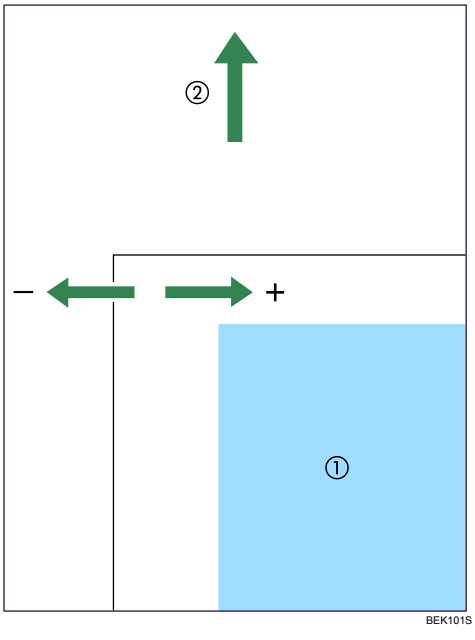
10. **Press the [▼] or [▲] key to select the tray you want to adjust, and then press the [OK] key.**



11. **Press the [▼] or [▲] key to change the registered value (mm).**



Increase the value to shift the print area in the direction indicated by the "+" symbol in the diagram below. Decrease to shift the print area in the direction indicated by the "-" symbol.



①): Print Area

②): Paper Feed Direction

12. **Press the [OK] key to return to the [Registration] menu.**
13. **Print the test sheet to confirm the adjustment result.**
14. **Press the [Menu] key.**

The display returns to the initial screen.

9. Troubleshooting

This chapter provides solutions to common problems and it also explains how to correct unwanted print results.

Error and Status Messages that Appear on the Control Panel

This section explains the meanings of messages that appear on the control panel and what to do when a particular message appears.

Status Messages (in alphabetical order)

@Remote Certif. updating...

The printer is updating the @Remote certificate.

Calibrating...

The printer is calibrating the color. Wait a while.

Energy Saver

The printer is in Energy Saver mode. Press any keys to recover to the normal mode.

Hex Dump Mode

In Hex Dump mode, the printer receives data in hexadecimal format. Turn off the printer after printing, and then turn back on.

Loading toner

The printer is loading the toner. Wait a while.

Offline

The printer is offline and cannot print.

Please wait...

This message may appear for a few seconds. It means the printer is preparing, cooling down the fusing unit, initializing the development unit, loading toner, or executing maintenance operations. Wait a while.

Preparing to start firmware update.

The printer is checking for firmware updates.

Printing...

The printer is printing. Wait a while.

Printing Suspended

Printing is suspended. Turn off the printer, and turn it on again to recover.

Ready

This is the default ready message. The printer is ready for use. No action is required.

Remote Diagnostics

The printer is performing diagnostic tests remotely.

Resetting Job...

The printer is resetting jobs. Wait a while.

Setting change...

The printer is changing settings. Wait a while.

Set the Fusing Unit correctly.

The fusing unit may not be installed correctly. Turn the printer off and re-install the fusing unit.

If the message is still displayed after re-installation, contact your sales or service representative.

See p.161 "Replacing the Fusing Unit, Transfer Roller, and Dustproof Filter" for fusing unit installation.

SmartServ.Call

The printer is contacting the Smart Service center. Some or all of the printer's functions may not be available.

Updating Certificate...

The printer is updating @Remote certificate.

Waiting for print data...

The printer is waiting for the next data to print. Wait a while.

Alert Messages (in alphabetical order)

@Remote Cert. update failed

Updating the @Remote certificate failed. Contact your sales or service representative.

@Remote error. Call service

There was an error with the @Remote line.

Add staples.

The finisher unit is out of staples. Add more staples, or print again without using the staple function.

Add staples and empty the punch receptacle

The finisher is out of staples, and the punch receptacle is full. Add more staples and empty the punch receptacle.

Add toner<K,C,M,Y>

The printer has run out of the indicated toner. Replace the indicated toner cartridge. See p.139 "Adding Toner".

Cannot connect=>Comm.Serv.

There was a communication error in the remote service modem.

Cannot connect=>Comm.Serv./ Check proxy user/password.

The proxy user name or password is incorrect. Check the proxy server settings, and change the user name and/or password if they are incorrect.

Netwrk connection failed./ Check IP Address.

The connection with the network has failed. Check that the IP address is correct.

Netwrk connection failed./ Contact the administrator.

The connection with the network failed. Contact the network administrator.

Netwrk connection failed./ Please call service.

The connection to the network failed.

Cannot connect with DHCP (101/201)

Cannot obtain IP address from DHCP server. Contact the network administrator.

Cannot connect with/ NetWare print server. (107/207)

Connection with NetWare print server is unavailable. Contact the network administrator.

Cannot connect with/ NetWare server.(106/206)

Connection with NetWare server is unavailable. Contact your network administrator.

Cannot print.

Check the file you want to print is a supported file type. Check for misfeeds and ask your network administrator for help.

Cannot recognize SDRAM mod./ Please call service.

The printer could not recognize the installed optional memory.

Cannot set IPv4 within/ the same subnet range. (###)

The IPv4 address cannot be set within the same subnet ranges.

Change (tray name) to the following settings: A4 (Recycled)

The specified paper type is different from the paper type in the indicated tray. This message does not apply to the bypass tray. Press [Change] to change the tray's settings, press [Job Reset] to reset the job, or press [FormFeed] to force printing.

Check @Remote Line

Check the connection status of @Remote Line.

Check network/ settings.(103/203)

The IP address setting is incorrect. Check the IP address, subnet mask, and gateway address. For details, see p.79 "Ethernet Configuration".

Connect failed:WirelessCard Turn power off, check card.

Check there is a wireless LAN board installed.

Check that it is a supported board. If it is, check it is installed correctly.

Install the correct board properly.

For details, see p.54 "Installing the Interface Units".

Cover Open

Close the cover indicated on the control panel.

Current wireless card is not WPA compatible. (###)

The wireless LAN you are using is not compatible with WPA.

Device access violation may have occurred. Contact the administrator.

An attempt was made to access the printer from outside of the network.

Duplex mode is in off position for (tray name)

The duplex mode for the indicated tray is off; you can only use one-sided printing. Press [Change] to change the tray's settings, press [Job Reset] to reset the job, or press [FormFeed] to force printing.

Empty the punch receptacle.

The punch unit's punch receptacle is full. Empty the receptacle.

Ethernet Board Error

An error on the Ethernet board is detected. Pull out and then re-install the controller board. If the problem persists, contact your sales or service representative.

Failed to connect to server for Remote Diagnostics.

The printer cannot communicate with Remote Communication Gate. Check the connection to the Remote Server Gate.

Finisher Booklet Tray is full. Remove the paper.

The finisher booklet tray is full. Remove the paper from the tray.

Finisher Error.Power OFF/ON/ Error recurs, call service.

An error has occurred in the finisher unit. Turn the power off, and then on again. If the error recurs, contact your sales or service representative.

Finisher Shift Tray Error.

An error has occurred in the shift tray motor. Contact your sales or service representative.

Finisher Shift Tray is full. Remove the paper.

The finisher shift tray is full. Remove the paper from the tray.

Finisher Upper Tray is full. Remove the paper.

The finisher upper tray is full. Remove the paper from the tray.

Hole punch receptacle is full. Empty it.

The hole punch receptacle is full. Empty the receptacle.

Independent-supply toner

Independent-supply toner is set. Use toner recommended for this printer.

IPv6 Address already exists Link-local Address (109/209)

The same IPv6 address already exists. Contact your network administrator.

IPv6 Address already exists Stateless Address (109/209)

The same IPv6 address already exists. Contact your network administrator.

IPv6 Address already exists Manual Config. Address (109/209)

The same IPv6 address already exists. Contact your network administrator.

LCT Error. Power Off/On. Error recurs, call service.

An error has occurred in the LCT unit. Turn the power off, and then back on again. If the error recurs, contact your sales or service representative.

Load paper in (tray name) or [Cancel] to FormFeed. A4 (Recycled)

There is no paper in the specified tray. Load the specified paper in the tray, press [Job Reset] to reset the job, or press [FormFeed] to force printing.

Load paper in (tray name) A4 (Recycled)

There is no paper in the specified tray. Load the specified paper in the tray, press [Job Reset] to reset the job, or press [FormFeed] to force printing.

Login failed due to user lockout. Please contact the administrator.

Login failed because the wrong password was repeatedly used for login.

Option RAM Error

The printer cannot detect an optional SDRAM module. It may be incorrectly installed.

Check if it is installed properly.

For details about installing the unit, see p.45 "Installing the Memory Expansion Units".

No paper in tray.

The indicated tray is out of paper. Add more paper.

Paper in Finisher

There is paper left in the finisher. Open the finisher cover and remove the paper.

Paper in Finisher. Open cover and remove the paper.

There is paper left in the finisher. Open the finisher cover and remove the paper.

Paper size/type mismatch. Change settings to: A4 (Recycled)

The paper type and size in all trays are not the same as the paper tray type and size setting, when Auto Paper Select mode is selected. Press [Change] to change the settings, press [Job Reset] to reset the job, or press [FormFeed] to force printing.

Malfunction: (tray name)

There is a problem with the paper tray motor. Select a different tray and force printing, or press [Reset Job] to reset the job.

Parallel I/F Error

The printer's self diagnostic test failed due to a loopback error. Replace the IEEE 1284 board that caused the error.

For details, see p.54 "Installing the Interface Units".

Printer Font Error.

There are problems with the printer's font file.

Contact your sales or service representative.

[Print] without below mode? [Staple] [Punch] [Staple/Punch]

Continue printing without using the function listed on the third line of the display. Press [OK] to cancel the displayed modes and resume printing.

Printing suspended. Resume printing from PC side.

Printing has been suspended. Resume the print job from your computer.

Problem with Hard Disk Please call service.

The printer cannot detect a hard disk. It may be incorrectly installed.

Check if it is installed properly or contact your sales or service representative.

For details about installing the unit, see p.54 "Installing the Interface Units".

Problem:Wireless card Please call service.

The printer has detected a wireless LAN board or Bluetooth failure, or it could not detect a wireless card. It may be incorrectly installed.

Check that the wireless LAN or Bluetooth board is installed properly, or contact your sales or service representative.

For details about installing the unit, see p.54 "Installing the Interface Units".

Proxy error. If it recurs: Please call service.

There is a problem connecting with the proxy server. Possible causes include: an incorrect proxy server address or port number, the proxy server is not activated, the center URL is incorrect, or the proxy server is not set.

Contact your sales or service representative if the problem persists.

Ready Server communicat. failed

There was no reply from the server.

Ready Problem:Printer Module

There was an error with a DIMM module (slot 1).

Ready Problem:PS3 module Please call service.

There was an error with a DIMM module (slot 1).

Full: Output Tray(s)

The output trays are full. Remove the paper.

Full: Mailbox (tray name)

The indicated mailbox tray is full. Remove the paper.

Replace Fusing Unit.

You need to replace the fusing unit. See p.161 "Replacing the Fusing Unit, Transfer Roller, and Dustproof Filter".

Replace Fusing Unit soon. A new kit is required. Contact your local vendor.

You will need to replace the fusing unit soon. Contact your sales or service representative to obtain a new unit.

Replace IntTrans Unit.

You need to replace the transfer unit.

Replace IntTrans Unit soon. A new unit is required. Contact your local vendor.

You will need to replace the transfer unit soon. Contact your sales or service representative to obtain a new unit.

Replace PCU:Black

You need to replace the black drum unit. See p.143 "Replacing the Black Drum Unit/Color Drum Units".

Replace PCU:Black soon. A new PCU is required. Contact your local vendor.

You will need to replace the black drum unit soon. Contact your sales or service representative to obtain a new unit.

Replace PCU:Colour.

You need to replace the color drum units. See p.143 "Replacing the Black Drum Unit/Color Drum Units".

Replace PCU:Colour soon. A new PCU is required. Contact your local vendor

You will need to replace the color drum units soon. Contact your sales or service representative to obtain a new unit.

Reset Paper Tray correctly. A4 (Recycled)

The paper tray is not set correctly. Set the indicated tray again, or select a different tray to print from.

SD Card authenticatn.failed Error recurs, call service

Authentication from the SD card failed. Turn the power off, and then back on. If the error recurs, contact your sales or service representative.

Set the Fusing Unit correctly.

The fusing unit is not set correctly. Set the fusing unit again.

Set the Intermediate Transfer Unit correctly.

The transfer unit is not set correctly. Set the transfer unit again.

Set the Toner Cartridge correctly.

The indicated toner cartridge is not set correctly. Set the indicated toner cartridge again.

Set Tray to below setting or [Cancel] to FormFeed. A4 (Recycled)

A size and paper type mismatch has occurred with Auto tray select mode set. Set the tray to the indicated size and paper type, press [Job Reset] to reset the job, or press [FormFeed] to force printing.

Set Waste Toner Bottle correctly.

The waste toner bottle is not set correctly. Set the waste toner bottle again.

SRAM problem occurred. SRAM was formatted.

There was an error in the SRAM.

Standard Tray is full. Remove the paper.

The standard output tray is full, or there is a problem with the paper tray motor. Remove the paper from the tray.

Staple Error. Please call service.

There was an error in the staple unit. Contact your sales or service representative.

The same IP Address exists on several interfaces (###)

The same IP address has already been set on several interfaces. Contact the network administrator.

The same IPv4 Address already exists.(102/202)

The IPv4 address specified for the machine is already in use by another device on the network. Contact the network administrator.

The selected job(s) has already been printed or deleted.

This message might appear if you print or delete a job from Web Image Monitor. Press Exit on the message screen.

This NetBIOS name is already in use.(108/208)

The NetBIOS name specified for the machine is already in use by another device on the network. Contact your network administrator.

Toner is almost empty.

The printer is almost out of the toner indicated in the message. Contact your sales or service representative to obtain a new unit.

(tray name) Error. Power Off/On. Error recurs, call service.

There was an error with an input tray motor. Turn the power off, and then on again.

Turn power off, then set the PCU correctly.

The black drum unit/color drum units are not set correctly. Turn the power off, and then set the black drum unit/color drum units again.

USB has a problem. Please call service.

The printer has detected a USB board failure. Turn the power off, and then on again. If the problem persists, contact your sales or service representative.

Values set for IPv6/Gateway addresses are invalid.(110/210)

The IPv6 address or gateway address is invalid. Check the network settings.

Waste Toner almost full Contact your local vendor. Please call service.

The waste toner bottle is almost full. Contact your sales or service representative.

Waste Toner Bottle full

Replace the waste toner bottle. See p.156 "Replacing the Waste Toner Bottle".

WPA Auth. incomplete.(211)

WPA authentication could not complete. Contact your network administrator.

Supply Alert Messages (in alphabetical order)

Out of toner. Replace Toner Cartridge.

The printer is out of the toner color indicated in the message. Replace the indicated toner cartridge. See p.139 "Adding Toner" for installation instructions.

Replacement Alert Replace Fusing Unit.

You need to replace the fusing unit. Contact your sales or service representative to obtain a new unit. See p.161 "Replacing the Fusing Unit, Transfer Roller, and Dustproof Filter" for installation instructions.

Replacement Alert Replace IntTrans Unit.

You need to replace the transfer unit. Contact your sales or service representative to obtain a new unit. See p.150 "Replacing the Transfer Unit" for installation instructions.

Replacement Alert Replace PCU:Black.

You need to replace the black drum unit. Contact your sales or service representative to obtain a new unit. See p.143 "Replacing the Black Drum Unit/Color Drum Units" for installation instructions.

Replacement Alert Replace PCU:Colour.

You need to replace the color drum units. Contact your sales or service representative to obtain a new unit. See p.143 "Replacing the Black Drum Unit/Color Drum Units" for installation instructions.

Supply order has failed.

The automatic supply order failed. The message indicates the supplies that the printer tried to order.

Print/Data Errors (in alphabetical order)

Command Error.

An RPCS command error occurred. Check the connection between the printer and the computer, make sure you are using the correct driver for the printer, and make sure that the memory settings for the driver match the memory installed in the printer.

Compressed Data Error

The printer detected corrupt compressed data. Check the connection between the computer and the printer. Check that the program you used to compress the data is functioning correctly.

Insufficient Memory.

A memory retrieval error occurred.

(a) Failure in memory retrieval while drawing.

(b) Failure in processing frame.

Add additional memory to the printer. See p.45 "Installing the Memory Expansion Units" for instructions on installing memory.

Memory Retrieval Error.

A memory retrieval error occurred. This alert is displayed when failures cannot be avoided even though additional memory is installed in the printer. For example, this error can occurs if there is a failure in initializing RPCS. Turn the printer off, and then on again. If the error persists, replace the memory module. See p.45 "Installing the Memory Expansion Units" for instructions on installing memory.

Paper Type Error

The paper type specified by the driver was not recognized by the printer. Retrieve the latest paper type information from the printer.

Receiving data failed.

This error occurs when the printer receives an unexpected end-of-file signal. Try printing again.

Sending data failed.

The printer received a command from the driver to suspend data transmission. Check that the host is operating normally.

Note

- Confirm error details by printing the Error Log. For details, see "List/Test Print Menu", Software Guide.

Panel Tones

The following table explains the meaning of the various tone patterns that the printer used to alerts to users about its condition.

Tone pattern	Meaning	Cause
Two long beeps.	Printer ready.	After cooling or being switched on, the printer has fully warmed up and is ready for use.
Single short beep.	Panel/screen input accepted.	A valid control panel or screen key was pressed. Single short beeps are produced only when valid keys are pressed.
Single long beep.	Job completed.	A printer job has finished.
Four long beeps.	Printer initialized.	The screen is changing back to the initial screen after the printer came out of the energy-saving mode or was reset.
Five short beeps repeated five times.	Printer alert.	Printer requires user attention. Paper may have jammed or toner may need replenishing.

Important

- **Users cannot mute the printer's tone alerts. When the printer beeps to alert users of a paper jam or toner request, if the printer's covers are opened and closed repeatedly within a short space of time, the tone alert might continue, even after normal status has resumed.**

Printer Does Not Print

Is the power on?

Confirm that the cord is securely plugged into both the power outlet and the printer.

Turn on the power.

Does the Alert indicator stay red?

If so, check the error message on the display and take the required action.

See p.197 "Error and Status Messages that Appear on the Control Panel".

Is paper loaded?

Load paper into the paper tray or onto the bypass tray.

See p.118 "Loading Paper".

Can you print a configuration page?

If you cannot print a configuration page, it probably indicates a printer malfunction. Contact your sales or service representative.

See “List/Test Print Menu”, Software Guide.

Is the interface cable connected securely to the printer and the computer?

Connect the interface cable securely. If it has a fastener, fasten it securely as well.

Are you using the correct interface cable?

The type of interface cable you should use depends on the computer you use. Be sure to use the correct one.

If the cable is damaged or worn, replace it with a new one.

See p.265 "Specifications".

Is the Data In indicator blinking or lit after starting the print job?

If not blinking or lit, the data is not being sent to the printer.

If the printer is connected to the computer using the interface cable

Check the port connection setting is correct. For details about checking the port connection, see p.211 "Checking the Port Connection".

Network Connection

Contact your network administrator.

How is the signal strength when using the wireless LAN?

Ad-hoc Channel

Either move to a location where the signal is good, or remove obstructions.

Infrastructure Mode

Check the signal status in the [Wireless LAN] menu on the control panel. If the signal is poor, either move to a location where it is good, or remove obstructions.

If printing still does not start, contact your sales or service representative. Consult with the store where the printer was purchased for information about the location of sales or service representatives.

How is the signal strength when using Bluetooth?

Try the following:

- Check that the Bluetooth interface unit is installed properly.
- Check that there are no obstructions between the computer, printer, and other devices.
- Change the location of the computer.
- Change the location of the printer.

When you use the optional Bluetooth interface unit.

SPP

1. Make sure the printer you want to use appears in the 3Com Bluetooth Connection Manager.
2. Make sure "Bluetooth Serial Client (COMx)" appears under Client Ports in the 3Com Bluetooth Connection Manager.
3. Restart the computer, this printer, and other devices.
4. Make sure no wireless LAN or other Bluetooth devices are in use.

   Note

   - Interference may occur with the wireless LAN interface board. Such interference may affect the transmission speed and other function.
5. Transmissions between computers, other devices, and this printer can be blocked by obstructions. Move this printer, computers, and other devices, if necessary.

HCRP, BIP

1. Restart the computer, this printer, and other devices.
2. Make sure no wireless LAN or other Bluetooth devices are in use.

   Note

   - Interference may occur with the wireless LAN interface board. Such interference may affect the transmission speed and other functions.
3. Transmissions between computers, other devices, and this printer can be blocked by obstructions. Move this printer, computers, and other devices, if necessary.

If printing still does not start, contact your sales or service representative. Consult with the store where the printer was purchased for information about the location of sales or service representatives.

Checking the Port Connection

*(n) varies depending on the number of printers connected. This section describes how to check the print port when the Data In indicator does not light up or blink.

Check if the print port setting is correct. When it is connected using a parallel interface, connect it to LPT1 or LPT2.

Windows 2000

1. Click the [Start] button, point to [Settings], and then click [Printers].
2. Click the icon of the machine. On the [File] menu, click [Properties].
3. Click the [Ports] tab.
4. In the [Print to the following port(s)] list, confirm the correct port is selected.

Windows XP Professional or Windows Server 2003/2003 R2

1. Click the [Start] button, and then click [Printers and Faxes].
2. Click the icon of the machine. On the [File] menu, click [Properties].
3. Click the [Ports] tab.
4. In the [Print to the following port(s)] list, confirm the correct port is selected.

Windows XP Home Edition

1. Click the [Start] button, and then click [Control Panel].
2. Click [Printers and Other Hardware].
3. Click [Printers and Faxes].
4. Click the icon of the machine. On the [File] menu, click [Properties].
5. Click the [Ports] tab.
6. In the [Print to the following port(s)] list, confirm the correct port is selected.

Windows Vista/ Windows Server 2008

1. Click the [Start] button, and then click [Control Panel].
2. Click [Printers].
3. Click the icon of the machine. On the [Organize] menu, click [Properties].
4. Click the [Ports] tab.
5. In the [Print to the following port(s)] list, confirm the correct port is selected.

Printing Problems

Toner smears appear on the print side of the page.

- The paper setting may not be correct. For example, although you are using thick paper, the setting for thick paper may not be set. Check the paper setting of the control panel and printer driver.

  See p.101 "Paper and Other Media" and the printer driver Help.

- When "Replace PCU:Black." or "Replace PCU:Colour." appears on the display, replace the black drum unit/color drum units.

  See p.143 "Replacing the Black Drum Unit/Color Drum Units".

- Confirm that the paper is not curled or bent. Envelopes can be curled easily. Flatten paper before loading.

  See p.107 "Paper Recommendations".

Paper jams occur frequently.

- Check the following:
  - Paper guides are set correctly, leaving no gaps between paper guides and paper.
  - The side guides of the paper tray are locked.
  - Paper guides are not set too tight. If too tight, re-position the guides so that they gently touch the loaded paper.
  - The top of the paper stack is not higher than the limit mark inside the tray, or side guides of the bypass tray.

    See p.118 "Loading Paper".

- If paper misfeeds every time duplex print is performed, check the following items.
  - The end guides of the paper tray are set correctly.
  - The loaded paper and the paper type set at the control panel match.

    For more solutions to this problem, see p.257 "Duplex Print Always Misfeeds".

- Make sure that nothing is placed on the finisher tray.
- The stapler cartridge may not be installed correctly.
- When printing on thick paper, it is recommended to load more than 20 sheets.
- If paper misfeeds occur regularly when printing from the bypass tray, the settings of the control panel and those of the printer driver may not match.
- Paper not suitable for printing is used. For example, paper may be too thick, too thin, bent or wrinkled, damp, or already been printed on.

  See p.107 "Paper Recommendations".

- Pages may be sticking together. Fan the paper before loading it, or feed the pages one at a time.

Multiple pages are fed at once.

- Check the following:
  - Paper guides are set correctly, leaving no gaps between paper guides and paper.
  - The side guides of the paper tray are locked.
  - Paper guides are not set too tight. If too tight, re-position the guides so that they gently touch the loaded paper.
  - The top of the paper stack is not higher than the limit mark inside the tray, or side guides of the bypass tray.

  See p.118 "Loading Paper".
- Paper not suitable for printing is used. For example, paper may be too thick, too thin, bent or wrinkled, damp, or already been printed on.

  See p.107 "Paper Recommendations".
- Pages may be sticking together. Fan the paper before loading it, or feed the pages one at a time.

Paper gets wrinkles or the paper edges become bent.

- Check the following:
  - Paper guides are set correctly, leaving no gaps between paper guides and paper.
  - The side guides of the paper tray are locked.
  - Paper guides are not set too tight. If too tight, re-position the guides so that they gently touch the loaded paper.
  - The top of the paper stack is not higher than the limit mark inside the tray, or side guides of the bypass tray.

  See p.118 "Loading Paper".
- Paper not suitable for printing is used. For example, paper may be too thick, too thin, bent or wrinkled, damp, or already been printed on.

  See p.107 "Paper Recommendations".
- The paper has a high moisture content. Store paper at an appropriate temperature and humidity level.
- The fusing unit is deteriorated or damaged. Replace the unit.

  See p.161 "Replacing the Fusing Unit, Transfer Roller, and Dustproof Filter".

The back of the paper is printed on.

- The paper has been loaded upside down.

  Load paper in the 500-sheet paper trays or 2000-sheet paper feed unit with the print side up. Load paper in the bypass tray with the print side down.

  See p.118 "Loading Paper".

Duplex printing cannot be performed.

- Duplex printing is not supported for the following paper types: labels, Thin paper, cardstock, OHP transparency, envelopes, thick paper ([Thick Paper 2], [Thick Paper 3]), coated paper, coated paper: gloss print.
- Paper heavier than 161 g/m^2 (40 lb.) is loaded. Change the paper for printing.

With Windows 2000/XP/Vista, Windows Server 2003/2003 R2/2008, when doing aggregate prints or bound prints.

- Check that the paper size and direction set in the [Menu] tab of the printer driver are the same as those set in the application.

  If the settings are not the same, change the settings of the printer driver.

Paper is not fed from the selected tray.

- When you are using a Windows operating system, the printer driver settings override those set using the control panel. Set the desired input tray using the printer driver.

  See the printer driver Help.

A printed image is different from the image on the computer's display.

- When you use some functions, such as enlargement and reduction, the layout of the image might be different from that displayed in the computer display.
- You might have selected to replace True Type fonts with printer fonts in the printing process. To print an image similar to the image on the computer, make the settings to print out True Type fonts as an image.

  See the printer driver Help.

It takes too much time to turn on the printer.

- If the printer is turned off while it is still accessing the hard disk (for example: during file deletion), the printer will require more time to power-up the next time it is turned on. To avoid this time delay, do not turn the power off while it is in operation.

It takes too much time to resume printing.

- The data is so large or complex that it takes time to process it. If the **Data In** indicator is blinking, the data is being processed. Just wait until it resumes.
- If an OHP transparency or glossy paper is being used, printing takes more time to start.
- The printer was in the Energy Saver mode. To resume from the Energy Saver mode, the printer has to warm up, and this takes time until printing starts. To disable the Energy Saver mode, select [Off] for [Energy Saver] in the [System] menu.

It takes too much time to complete the print job.

- Photographs and other data intensive pages take a long time for the printer to process, so simply wait when printing such data.

Changing the settings with printer driver may help to speed up printing.

See the printer driver Help.

- The data is so large or complex that it takes time to process it. If the **Data In** indicator is blinking, the data is being processed. Just wait until it resumes.
- If "Please wait." appears on the display, the printer is now warming up. Wait for a while.

Images are cut off, or excess pages are printed.

- If you are using paper smaller than the paper size selected in the application, use the same size paper as that selected in the application. If you cannot load paper of the correct size, use the reduction function to reduce the image, and then print.

  See the printer driver Help.

The color of the printout is different from the color on the computer's display.

- The colors made using color toner are different from colors displayed on the display in its production system.
- When [Toner saving] is checked under the “Print Quality” tab in the printer driver's dialog box, the color gradation may appear differently.

  See the printer driver Help.

Color changes extremely when adjusted with the printer driver.

- Do not extreme settings for the color balance under the “Print Quality” tab in the printer driver's dialog box.

  Please note that the sample image displayed in the printer driver is used only to show what processing will be performed, so may not match the print results.

  See the printer driver Help.

Photo images are coarse.

- Some applications lower the resolution for making prints.

  Raise the resolution in the settings for that application.

Color documents are printed in black and white.

- The printer driver is not set up for color printing.

  See the printer driver Help.

- Some applications print color files in black and white.

Fine dot pattern does not print.

- Change the [Dithering:] setting in the printer driver's dialog box.

  See the printer driver Help.

Solid areas, lines or text are shiny or glossy when created as a mixture of cyan, magenta, yellow.

- Select [K: Black] for [Gray reproduction (Text/Line Art):] in the printer driver's dialog box.

  See the printer driver Help.

Black gradation is not natural.

- Select [Gray reproduction (Text/Line Art):] in the printer driver's dialog box.

  See the printer driver Help.

Solid lines are printed as broken lines.

- Change the [Dithering:] setting in the printer driver's dialog box.

  See the printer driver Help.

Images are printed at an angle

- Confirm that the side guides of the paper tray are locked.

  If paper is not loaded correctly, it may be processed at an angle.

Images appear only partially.

- The Paper is damp. Use paper that has been stored properly.

  See p.107 "Paper Recommendations".

- Toner is almost depleted. When the "Add toner" or "Toner is almost empty." message appears on the display panel, or the toner indicator on the initial screen seems empty, replace the toner.

  See p.139 "Adding Toner".

- When "Replace PCU:Black." or "Replace PCU:Colour." appears on the display, replace the black drum unit/color drum units.

  See p.143 "Replacing the Black Drum Unit/Color Drum Units".

- Condensation may have collected. If rapid change in temperature or humidity occurs, use this printer only after it has acclimatized.

A color is missing or partially blurred.

- Paper is damp. Use paper that has been stored properly.

  See p.118 "Loading Paper".

- Toner is almost depleted. When the "Out of toner" / "Replace Toner cartridge." / "(color)", "Toner is almost empty" /"(color)", or "Add Toner:" message appears on the display panel, or the toner indicator on the initial screen seems empty, replace the toner cartridge of the displayed color.

  See p.139 "Adding Toner".

- When "Replace PCU:Black." or "Replace PCU:Colour." appears on the display, replace the black drum unit/color drum units.

  See p.143 "Replacing the Black Drum Unit/Color Drum Units".

- Condensation may have collected. If rapid change in temperature or humidity occurs, use this printer only after it has acclimatized.

The whole printout is blurred.

- Paper is damp. Use paper that has been stored properly.

  See p.107 "Paper Recommendations".

- If you select [Toner saving] on the [Print Quality] tab in the printer properties dialog box, printing is generally less dense.

  See the printer driver Help.

- Toner is almost depleted. When the "Out of toner" / "Replace Toner Cartridge." / "(color)", or "Toner is almost empty" /"(color)" message appears on the display panel, or the toner indicator on the initial screen seems empty, replace the toner cartridge of the displayed color.

  See p.139 "Adding Toner".

- When "Replace PCU:Black." or "Replace PCU:Colour." appears on the display, replace the black drum unit/color drum units.

  See p.143 "Replacing the Black Drum Unit/Color Drum Units".

- Condensation may have collected. If rapid change in temperature or humidity occurs, use this printer only after it has acclimatized.

White streaks appear or color streaks appear.

- Toner is almost depleted. When the "Out of toner" / "Replace Toner cartridge." / "(color)", or "Toner is almost empty" /"(color)" message appears on the display panel, or the toner indicator on the initial screen seems empty, replace the toner cartridge of the displayed color.

  See p.139 "Adding Toner".

- When "Replace PCU:Black." or "Replace PCU:Colour." appears on the display, replace the black drum unit/color drum units.

  See p.143 "Replacing the Black Drum Unit/Color Drum Units".

- The paper is damp. Use paper that has been stored at a suitable temperature and humidity.
- Specks of paper may be attached to the registration roller. Clean the registration roller.

  For details, see p.181 "Cleaning the Registration Roller".

White or color rivers appear.

- When "Replace PCU:Black." or "Replace PCU:Colour." appears on the display, replace the black drum unit/color drum units.

  See p.143 "Replacing the Black Drum Unit/Color Drum Units".

The backs of printed sheets are blemished.

- When removing a jammed sheet, the inside of the printer may have become dirtied. Print several sheets until they come out clean.

- If document size is larger than paper size, e.g. A4 document on B5 paper, the back of the next printed sheet may be dirtied.

Printed pages are faint, or have white streaks.

- If is flashing, toner is almost depleted. Add toner.

  See p.139 "Adding Toner".

Printed pages are faint.

- The appropriate paper is not loaded. (Printed pages may be faint when printing to coarse or coated paper.)

  For details, see p.107 "Paper Recommendations".

If rubbed with your finger, it smears out.

- The setting of the paper may not be correct. For example, although thick paper is used, the setting for thick paper may not be set.

  On the [Menu] tab of the printer driver, set [Paper Input] to [Thick Paper].

  - Check the paper settings of this printer.

    See p.107 "Paper Recommendations".

  - Check the paper settings of the printer driver.

    See the printer driver Help.

- The fusing unit is deteriorated or damaged. Replace the unit.

  See p.161 "Replacing the Fusing Unit, Transfer Roller, and Dustproof Filter".

When printing on OHP transparencies, a color is missing or black or white dots are obvious.

- The registration roller is dirty. Clean the registration roller.

  See p.181 "Cleaning the Registration Roller".

When printing on plain paper, white dots are obvious.

- The registration roller is dirty. Clean the registration roller.

  See p.181 "Cleaning the Registration Roller".

PDF Direct Print is not executed (PDF file is not printed).

- When printing a PDF with a password set, set the password of the PDF file using the [Change PDF Password] menu in [PDF Menu] or Web Image Monitor. For [Change PDF Password], see the “Print Settings Menu”, Software Guide.

  For Web Image Monitor, see Web Image Monitor Help.

- PDF files not allowed to be printed by the PDF file security setting cannot be printed.
- Highly compressed PDFs cannot be printed using PDF Direct Print.

  Open the relevant application and print the PDF file using the printer driver.

Set the file format to standard PDF.

As a result of printing using PDF Direct Printing, characters are missing or misshapen.

- Before printing, embed the font in the PDF file to be printed.

The paper size appears on the control panel and printing is not performed with PDF Direct Print.

- When using PDF Direct Print, printout requires paper set within the PDF file. When a message indicating a paper size appears, either place the indicated size in the paper tray, or perform Form Feed.

  Also, if [Sub Paper Size] in the [System] Menu is set to [Auto], printing is performed assuming letter size and A4 size to be the same size. For example, When a PDF file set to A4 size paper is printed using PDF Direct Print and letter size paper is installed in the paper tray, the file will print out. This applies similarly to the opposite case.

With Windows 2000/XP/Vista, Windows Server 2003/2003 R2/2008, attached options are not detected.

- The computer and printer are not in two-way communication. You must configure attached options in the printer properties.

  For details, see the printer driver Help.

  If the problem cannot be solved, contact your sales or service representative.

Additional Troubleshooting

Important

- **If the printer is still not operating satisfactorily after attempting the flowing solutions, contact your sales or service representative. Consult with the store where the printer was purchased for information about the location of sales or service representatives.**

Strange noise is heard.

- If a supply was recently replaced or an option attached in the area the strange noise is coming from, check the supply or option is properly attached. If the strange noise persists, contact your sales or service representative.

No e-mail is received when an Alert occurs, and after resolving an Alert.

- Confirm [Auto Email Notify] is active in the [System] Menu on the Control Panel. See "System Menu", Software Guide.
- Access the printer through the Web browser, log on as an Administrator on the Web Image Monitor, and then confirm the following settings in [Auto E-mail Notification]:
  - Device E-mail Address
  - Groups to Notify
  - Select Groups/Items to Notify

  For details about the settings, see Web Image Monitor Help.
- Access the printer through the Web browser, log on as an Administrator on the Web Image Monitor, and then confirm the settings of the SMTP server in [E-mail]. For details about the settings, see Web Image Monitor Help.
- When the power is turned off before the e-mail is transmitted, the e-mail will not be received.
- Check the e-mail address set for the destination. Confirm the printer's operation history using the Web Image Monitor's System Log menu in [Network]. If the e-mail was sent but not received, it is possible the destination was incorrect. Also check the information concerning error mail from the e-mail server.

  The setting for [Auto Email Notify] on the System Menu was changed from [Off] to [On], but e-mail is not arriving.
- After changing the setting, turn the main unit's power off and then back on again.

Error notification e-mail was received, but no error-solved e-mail is received.

- Check e-mail is set for sending using the Web Image Monitor's [Auto E-mail Notification] at the time the error was fixed. You must click the [Edit] button of [Detailed Settings of Each Item] in [Auto E-mail Notification], and set [Notify when error:] to [Occurs & Fixed] on the displayed screen.

  For details about the settings, see Web Image Monitor Help.

Alert Resolving is set for sending e-mail, but no Alert-resolved e-mail is sent.

- If the power of the main unit is turned off after an Alert occurs, the Alert is resolved during the time the power is off: no Alert-resolved e-mail is sent.

Alert Occurrence and Alert Resolving are set for sending e-mail, but while no Alert Occurrence mail is received, Alert-resolved e-mail is received.

- Alert-notification e-mail is not sent if the problem is resolved before sending. However, an Alert-resolved e-mail is sent.

Alert-notification level was changed, and e-mail stopped arriving.

- If an Alert-notification e-mail, set with the earlier notification level, arrives, later e-mail will not be sent, even if the notification level is changed after.

When no date information is included in sent e-mail, the mail server has a malfunction.

- Configure the setting for obtaining time information from the SNTP server. Refer to the Web Image Monitor's Help to the settings.

Printing using Bluetooth is slow.

- When using the optional Bluetooth interface unit, do the following:
  - Transmit fewer print jobs.
  - Make sure no wireless LAN or other Bluetooth devices are in use.

    Interference may occur with the wireless LAN interface board. Such interference may affect the transmission speed and other functions.
  - Transmissions between the client computer and the printer can be blocked by obstructions. Move the printer or client computer if necessary.

  When you use a Bluetooth connection, print jobs are transmitted relatively slowly.

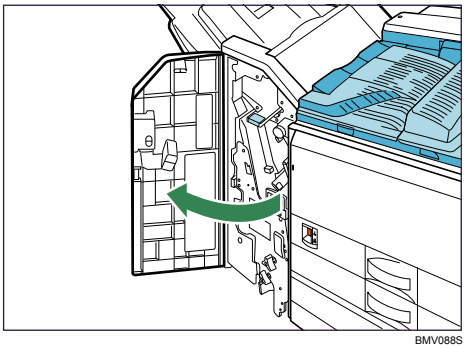
Removing Jammed Staples

Important

- Staples might be frequently jammed because of curled paper. In this case, try turning over the paper in the tray.
- After the cartridge is replaced, the next five to seven sheets of paper will not be stapled until the finisher has adjusted the position of the staple sheet.

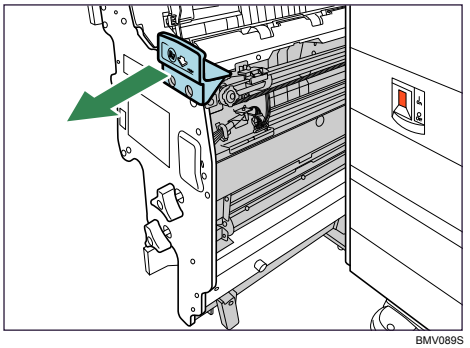
When the Booklet Finisher is Installed

1. Open the front cover of the finisher.



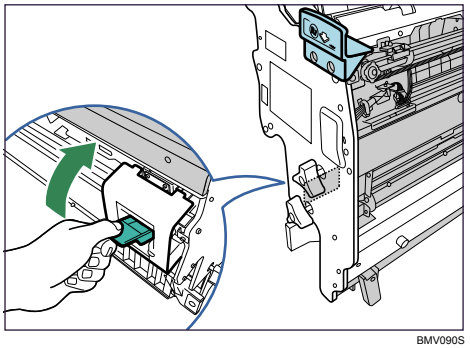
BMV088S

2. Holding the R7 lever, pull out the staple unit.



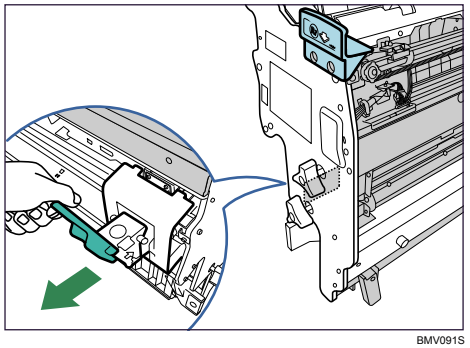
BMV089S

3. Raise the lever.



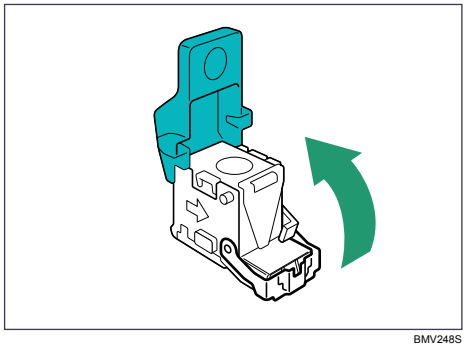
BMV090S

4. Holding the lever on the cartridge, pull the cartridge gently out of the staple unit.



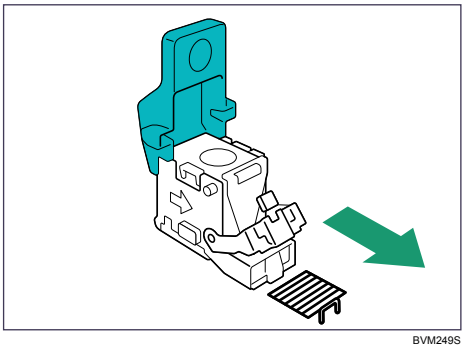
BMV091S

5. Raise the face plate of the cartridge.



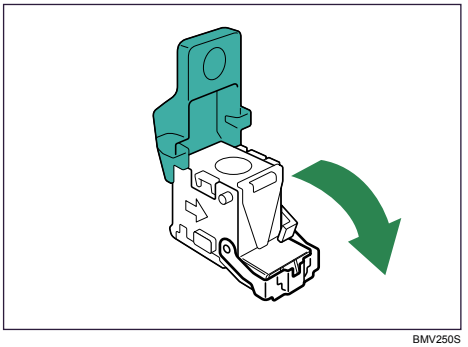
BMV248S

6. Remove the jammed staples.



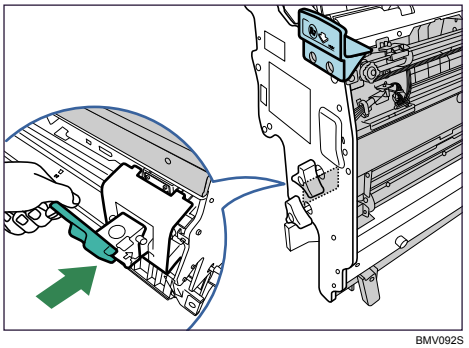
BVM249S

7. Push the face plate down until it clicks.



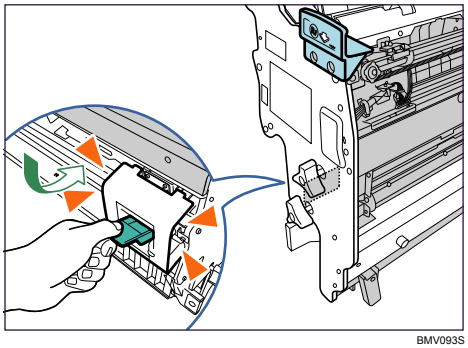
BMV250S

8. Holding the lever on the cartridge, push the cartridge gently into the staple unit until it clicks.



BMV092S

9. Push the lever down until it clicks.

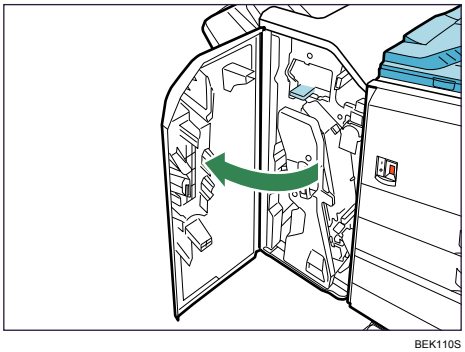


BMV093S

10. Return the staple unit to its original position.
11. Close the front cover of the finisher.

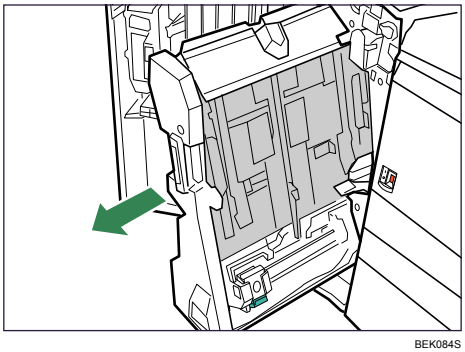
When the 2 Tray Finisher is Installed

1. Open the front cover of the finisher.



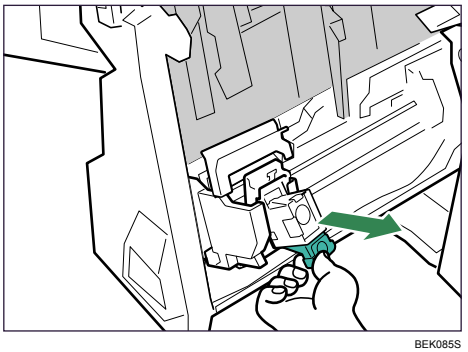
BEK110S

2. Holding the lever, pull out the staple unit.



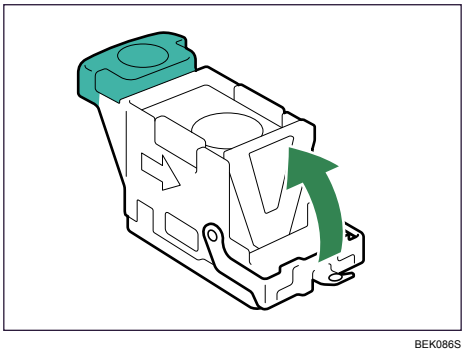
BEK084S

3. **Hold and lift the lever on the cartridge and pull the cartridge gently out of the staple unit.**



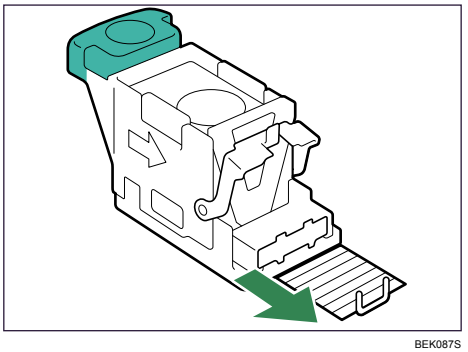
BEK085S

4. **Raise the face plate of the cartridge.**



BEK086S

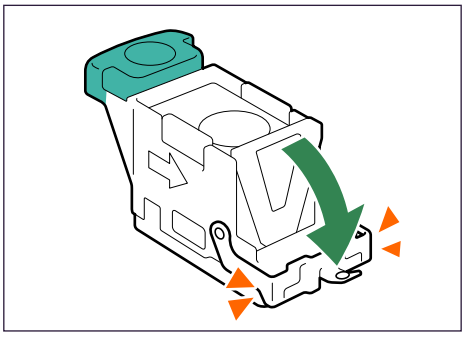
5. **Holding the cartridge's face plate up, remove the jammed staples.**



BEK087S

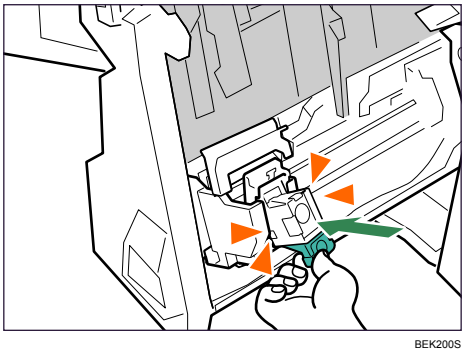
6. **Return the face plate to its original position.**

   Make sure it clicks into place.



BEK088S

7. Holding the lever on the cartridge, push the cartridge down gently into the staple unit until it clicks.



BEK200S

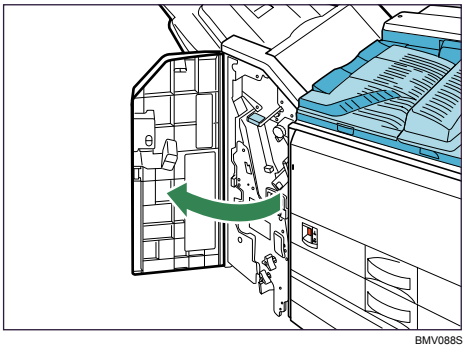
8. Return the staple unit to its original position.
9. Close the front cover of the finisher.

Removing Punch Waste

"Hole punch receptacle is full. Empty it." or "Empty the punch receptacle." message appears, remove punch waste from the finisher. When these messages appear on the display, you cannot use the punch function.

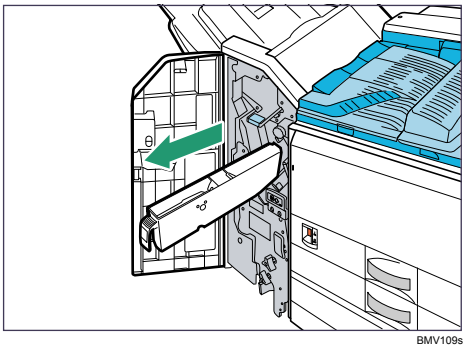
When the Booklet Finisher is Installed

1. **Open the front cover of the finisher.**



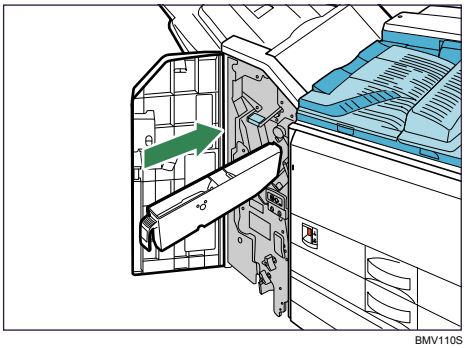
BMV088S

2. **Pull out the punch waste box carefully, and then remove punch waste.**



BMV109s

3. **Re-install the punch waste box.**

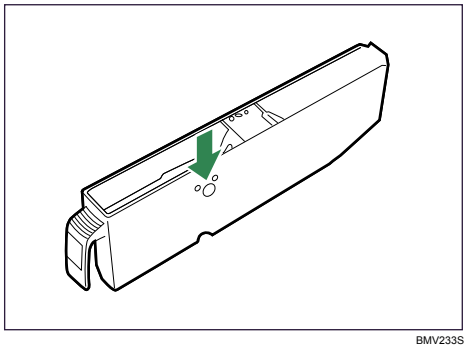


BMV110S

4. **Close the front cover of the finisher.**

Note

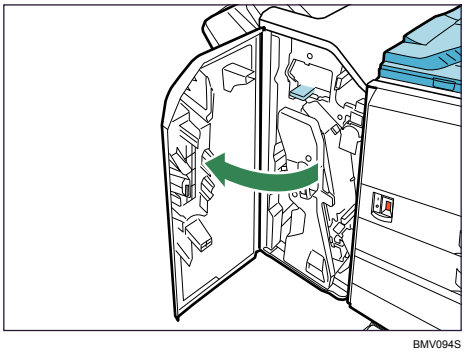
- If you do not re-install the punch waste box in step **3**, the message remains displayed.
- If the message remains displayed, re-install the punch waste box.
- The message might appear even when the punch waste box is not full. In this case, there may be some punch waste on the surface shown by the arrow. Remove the punch waste.



BMV233S

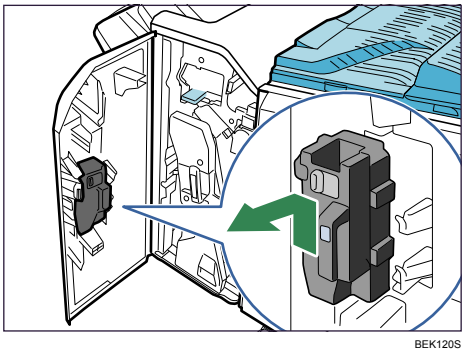
When the 2 Tray Finisher is Installed

1. **Open the front cover of the finisher.**



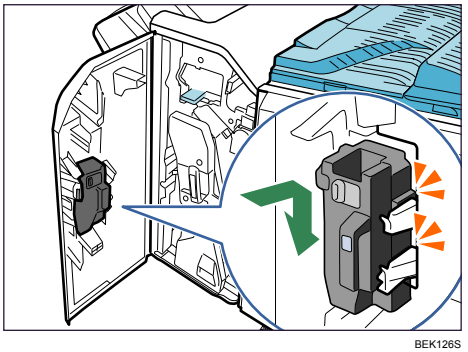
BMV094S

2. **Pull out the punch waste box carefully, and then remove punch waste.**



BEK120S

3. **Re-install the punch waste box.**

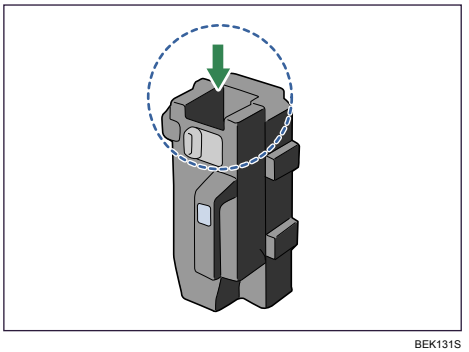


BEK126S

4. **Close the front cover of the finisher.**

Note

- If you do not re-install the punch waste box in step **3**, the message remains displayed.
- If the message remains displayed, re-install the punch waste box.
- The message might appear even when the punch waste box is not full. In this case, there may be some punch waste on the surface shown by the arrow. Remove the punch waste.



BEK131S

10. Removing Misfed Paper

This chapter explains how to remove misfed paper.

Removing Misfed Paper

An error message appears if a paper misfeed occurs. The error message gives the location of the misfeed. Check the location and remove the paper.

⚠CAUTION

- The inside of this printer becomes very hot. Do not touch parts labeled "⚠" (indicating a hot surface). Touching these parts will result in burns.

Important

- Do not forcefully remove misfed paper, it may tear and torn pieces may remain inside the printer.
- When paper is misfed a number of times, the following are possible causes.
  - The control panel settings do not match the size or orientation of the loaded paper.
  - The friction pad is dirty.
- Misfed paper may be covered with toner. Be careful not to get toner on your hands or clothes.
- If paper is still misfed after you have checked the above-mentioned causes, contact your sales or service representative.
- When printing restarts after removing jammed paper, the printing position may be different, depending on the location of the jam.
  - If the paper jam occurred in the optional finisher, printing will restart from the top page of the data currently being printed, or from the page where the paper jam occurred.
  - If the paper jam occurred in the printer, printing will restart from the page where the paper jam occurred.
  - Even if the paper jam occurred in the printer, the error will not be cleared unless the cover of the finisher is opened and closed.

Reference

- p.178 "Cleaning the Friction Pads"

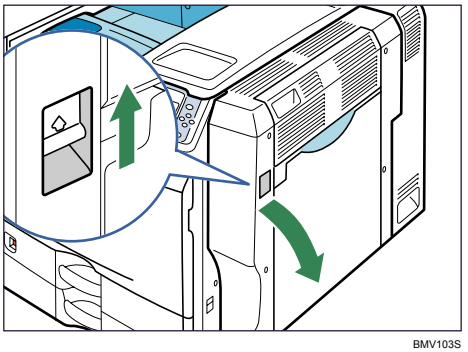
Paper Misfeed Message (A)

The "A Open the part as shown and remove paper." error message appears when a paper misfeed occurs in the paper feed section.

Important

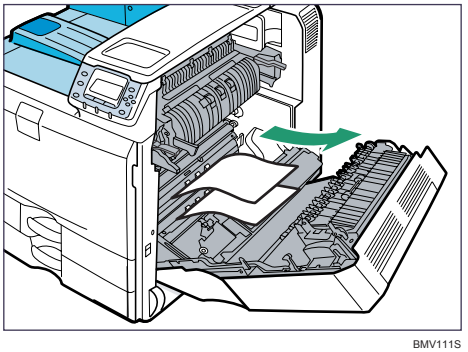
- The inside of this printer becomes very hot. Before removing paper around the fusing unit, wait until the temperature of the covers inside the fusing unit and duplex unit cool down.
- When a paper misfed (A) occurs, the paper tray is locked and cannot be pulled out. Do not forcefully pull out the tray.

1. Push up the lever on the right side, and open the printer's right cover carefully.



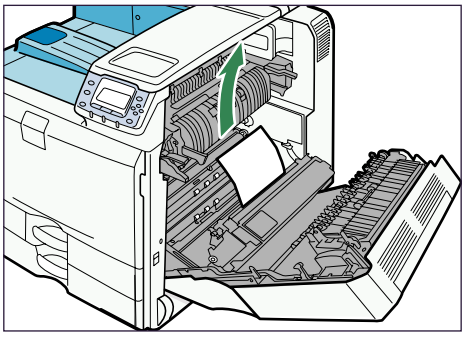
BMV103S

2. When using tray 1 or tray 2, remove the misfed paper slowly from inside of the printer's right cover.



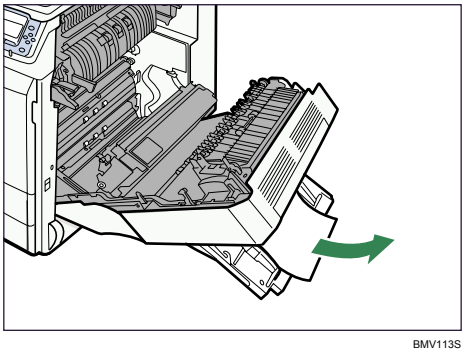
BMV111S

3. When using bypass tray, remove the misfed paper slowly from inside of the bypass tray.



BMV112S

4. If you cannot remove the misfed paper from inside of the bypass tray, remove the misfed paper slowly from outside of the bypass tray.



BMV113S

5. Carefully close the right cover.
6. Carefully close the bypass tray.

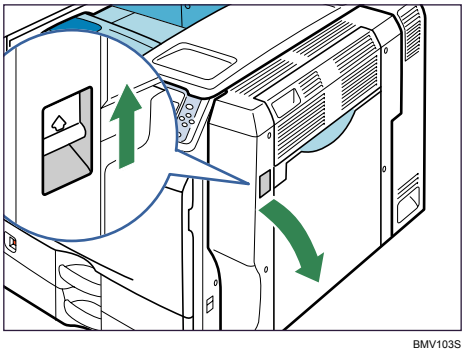
Paper Misfeed Message (B)

The "84rB Read instructions in Front Cover to remove." error message appears when a paper misfeed occurs in the paper feed section.

Important

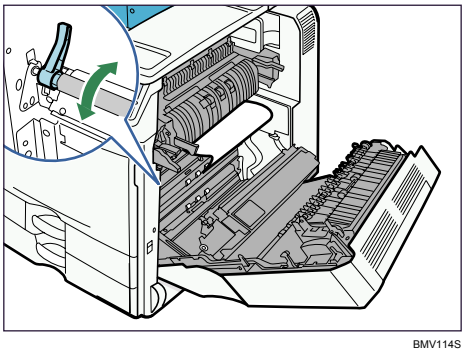
- The inside of this printer becomes very hot. Before removing paper around the fusing unit, wait until the temperature of the covers inside the fusing unit and duplex unit cool down.
- When removing misfed paper from the fusing unit, do not touch any parts other than those specified in this manual.
- When a paper misfeed (B) occurs, the paper tray is locked and cannot be pulled out. Do not forcefully pull out the tray.

1. Push up the lever on the right side, and open the printer's right cover carefully.



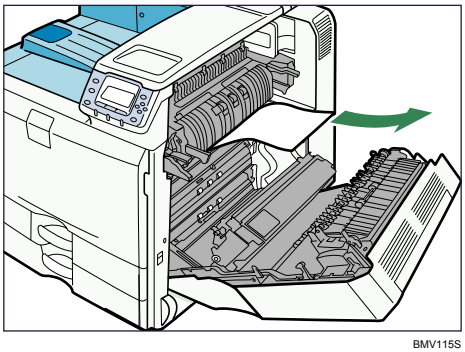
BMV103S

2. Turn lever B1 five to eight times.



BMV114S

3. **Remove misfed paper slowly.**



BMV115S

4. **Carefully close the right cover.**

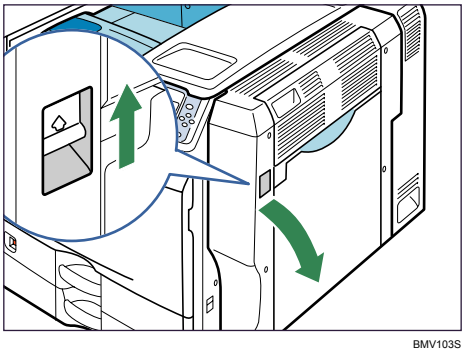
Paper Misfeed Message (C)

The "C Read instructions in Front Cover to remove." error message appears when a paper misfeed occurs in the paper feed section.

Important

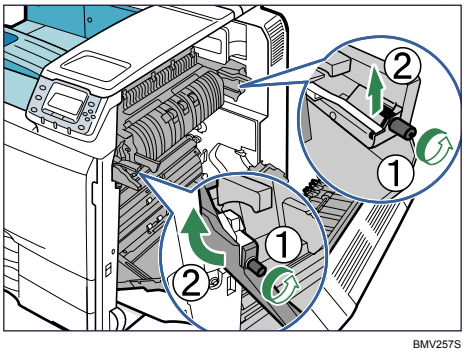
- The inside of this printer becomes very hot. Before removing paper around the fusing unit, wait until the temperature of the covers inside the fusing unit and duplex unit cool down.
- When removing misfed paper from the fusing unit, do not touch any parts other than those specified in this manual.
- When a paper misfeed (C) occurs, the paper tray is locked and cannot be pulled out. Do not forcefully pull out the tray.

1. Push up the lever on the right side, and open the printer's right cover carefully.



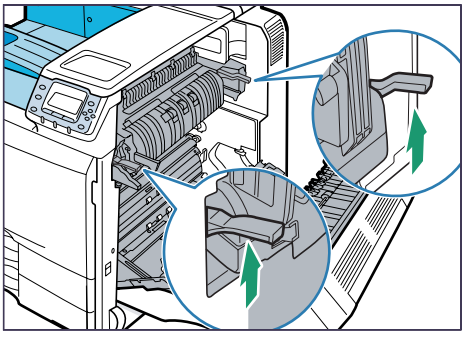
BMV103S

2. Loosen the screws to remove the brackets from both sides of the fusing unit.



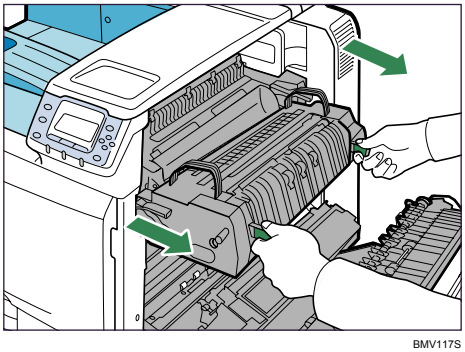
BMV257S

3. Raise the C1 levers on both sides.



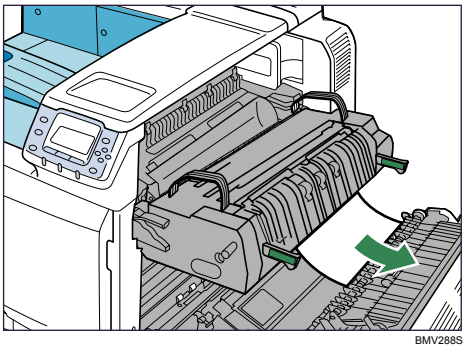
BMV236S

4. Holding the C2 levers, pull out the fusing unit.



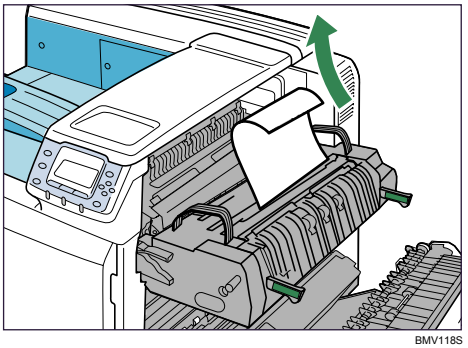
BMV117S

5. Remove the paper carefully.



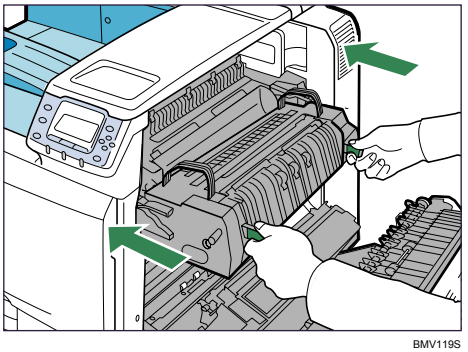
BMV288S

6. If you can not remove the misfeed paper, raise the C3 lever and remove the paper carefully.



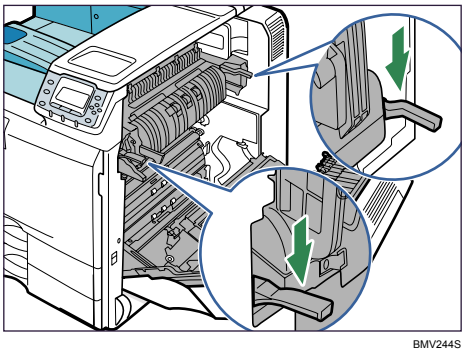
BMV118S

7. Push the fusing unit back into the printer carefully until it completely stops.



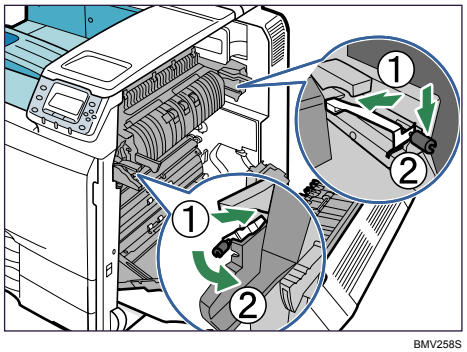
BMV119S

8. Push down the C1 levers on both sides.



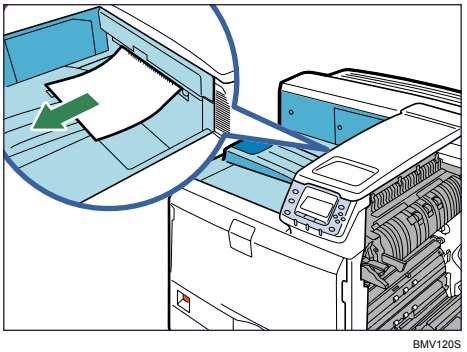
BMV244S

9. **Reattach the brackets to both sides of the fusing unit and tighten the screws.**



BMV258S

10. **Remove the paper slowly from the output area of the printer.**



BMV120S

11. **Carefully close the right cover.**

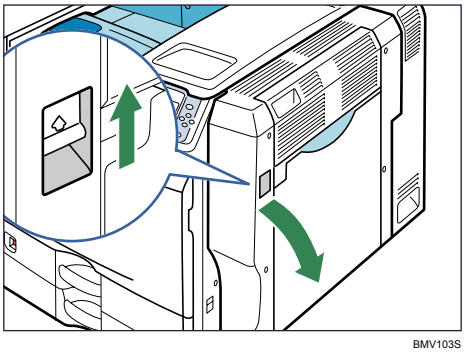
Note

- If the message indicating paper misfeed does not disappear, pull the fusing unit out and push it back in several times.

Paper Misfeed Message (D)

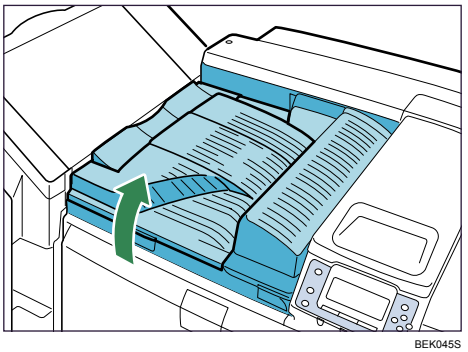
The "8VD Read instructions in Front Cover to remove." error message appears when a paper misfeed occurs while paper is being fed.

1. **Push up the lever on the right side, and open the printer's right cover carefully.**



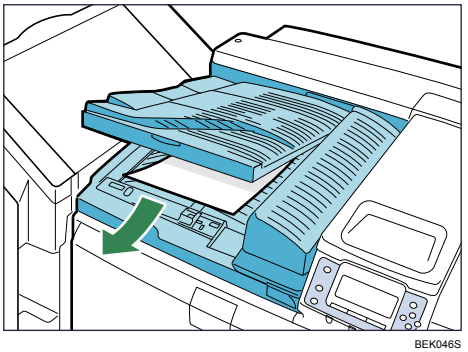
BMV103S

2. **Open the left cover of the bridge unit.**



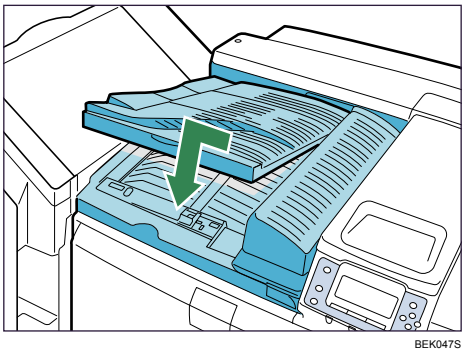
BEK045S

3. **Remove the paper.**



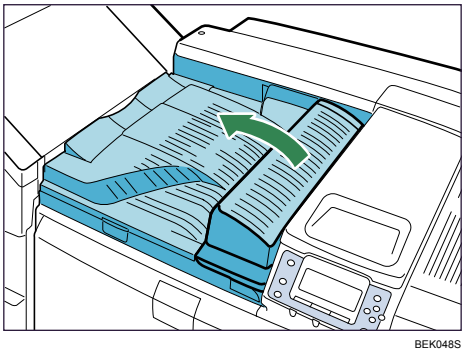
BEK046S

4. Close the left cover of the bridge unit.



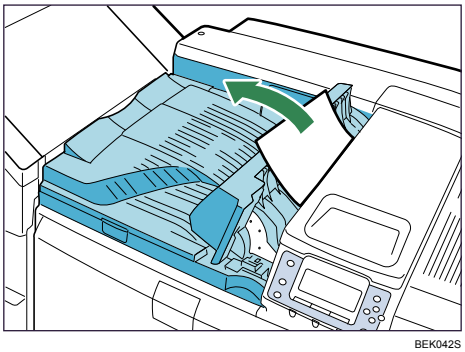
BEK047S

5. If the paper could not be removed, open the right cover of the bridge unit.



BEK048S

6. Remove the paper.



BEK042S

7. Close the right cover of the bridge unit.
8. Carefully close the right cover.

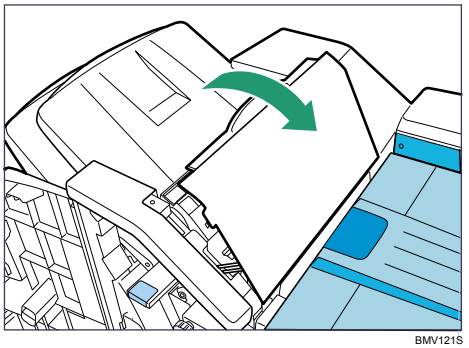
Paper Misfeed Message (R)

The "R Open Finisher and remove the paper." error message appears when a paper misfeed occurs inside the finisher.

When the Booklet Finisher is Installed

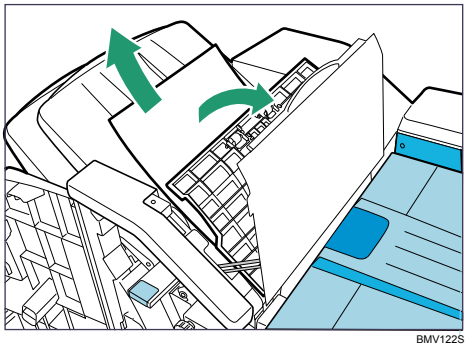
When R1, R2, or R3 is displayed.

1. Open the top cover of the finisher.



BMV121S

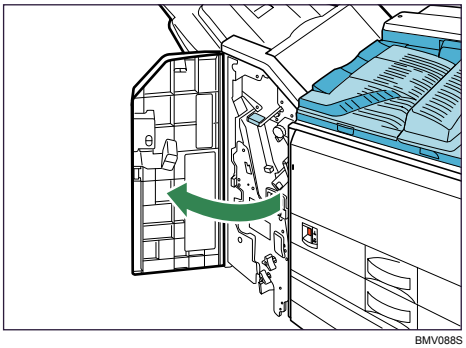
2. Raise the R1 lever and remove the paper.



BMV122S

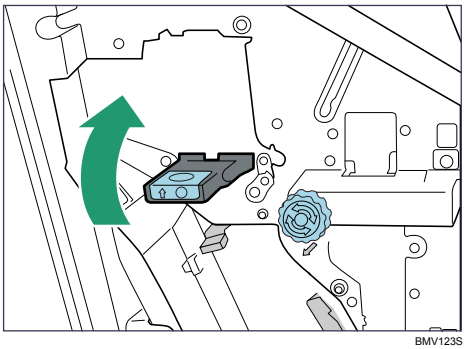
3. Return the R1 lever to its original position and close the top cover.

4. If the paper could not be removed, open the front cover of the finisher.



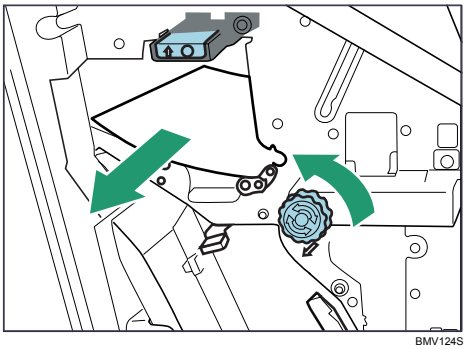
BMV088S

5. Raise the R2 lever.



BMV123S

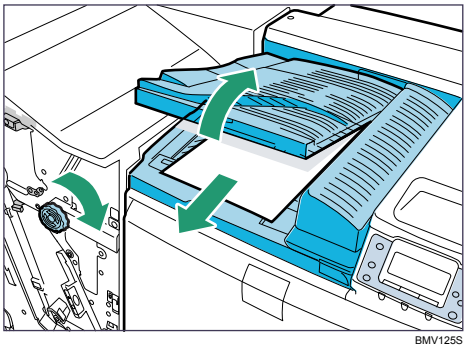
6. Turn the R3 knob counterclockwise to remove the paper.



BMV124S

7. Return the R2 lever to its original position.

8. If the paper could not be removed, open the left cover of the bridge unit, and then turn the R3 knob clockwise to remove the paper.

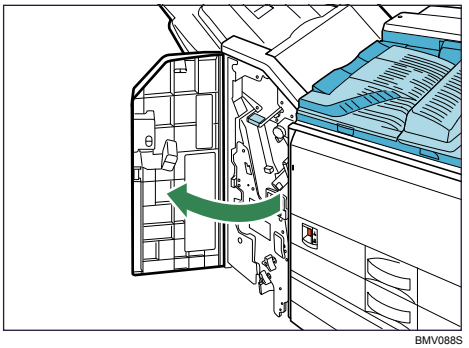


BMV125S

9. Close the left cover of the bridge unit and top cover of the finisher.

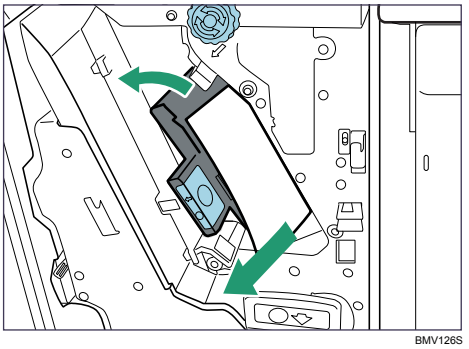
When R4, R5, or R6 is displayed.

1. Open the front cover of the finisher.



BMV088S

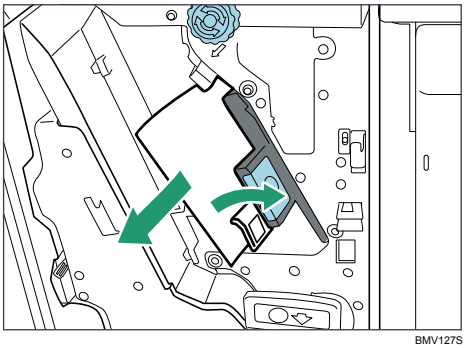
2. Open the R4 lever outward and remove the paper.



BMV126S

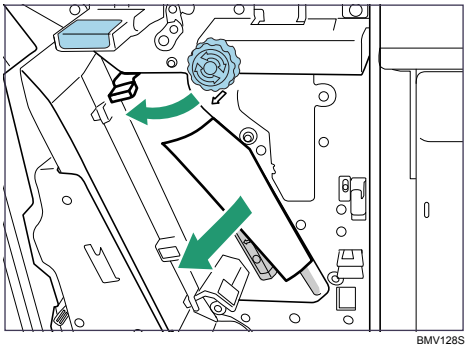
3. Return the R4 lever to its original position.

4. If the paper could not be removed, raise the R5 lever and remove the paper.



BMV127S

5. Return the R5 lever to its original position.
6. If the paper could not be removed, move the R6 lever and remove the paper.



BMV128S

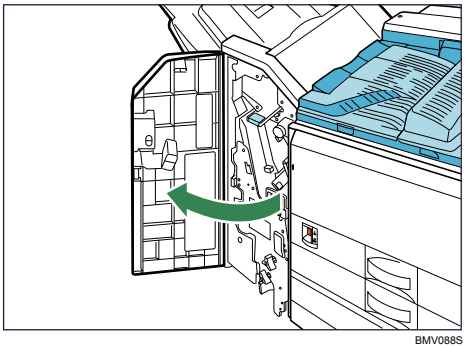
7. Return the R6 lever to its original position.
8. Close the front cover of the finisher.

When R7, R8, R9, R10, or R11 is displayed.

⚠CAUTION

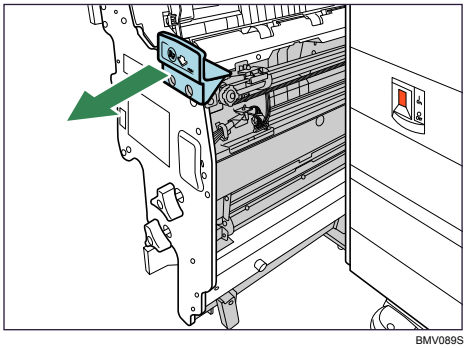
- Keep your hands clear of the booklet finisher tray when pulling out or pushing in the finisher's staple unit. You can trap your fingers if you do not.

1. Open the front cover of the finisher.



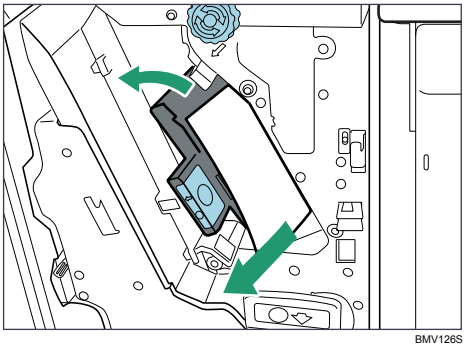
BMV088S

2. Holding the R7 lever, pull out the staple unit.



BMV089S

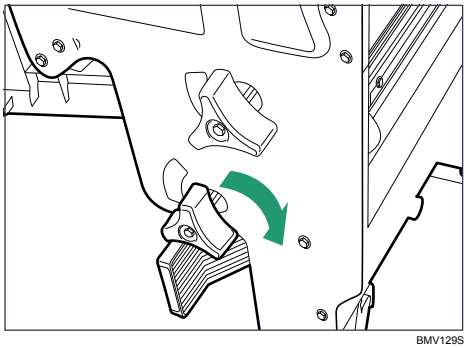
3. Pull the R8 lever and remove the paper.



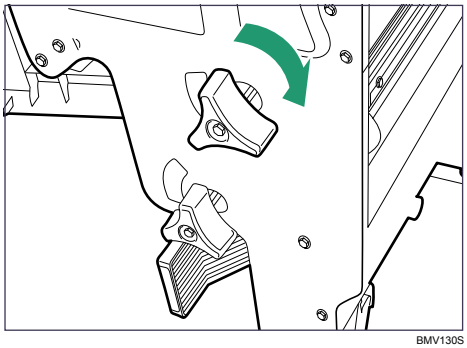
BMV126S

4. Return the R8 lever to its original position.

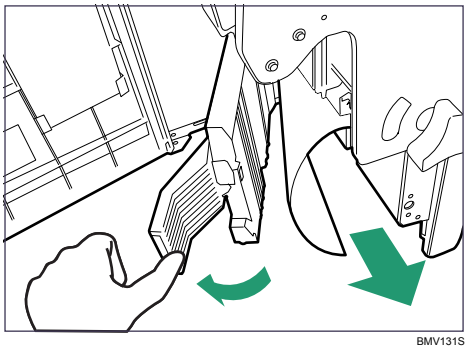
5. Turn the R9 lever clockwise.


BMV129S

6. Turn the R10 lever clockwise.


BMV130S

7. Push the R11 lever outward to remove the paper.

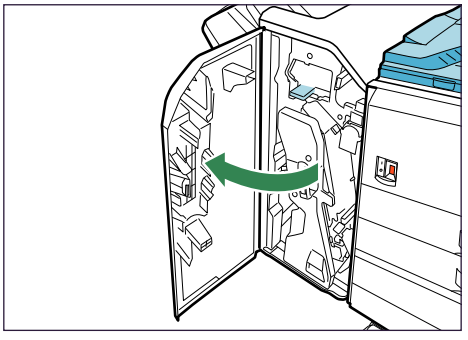

BMV131S

8. Return the R11 lever and reinstall the staple unit in.
9. Close the front cover of the finisher.

When the 2 Tray Finisher is Installed

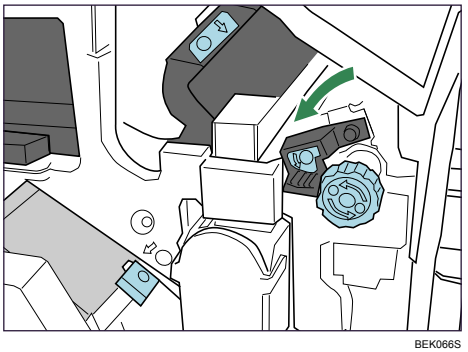
When R1, R2, R3, or R4 is displayed.

1. Open the front cover of the finisher.



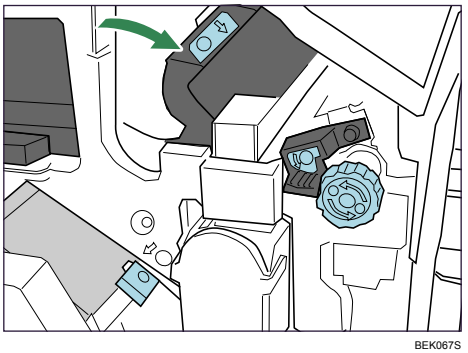
BEK110S

2. Turn lever R1 counterclockwise.



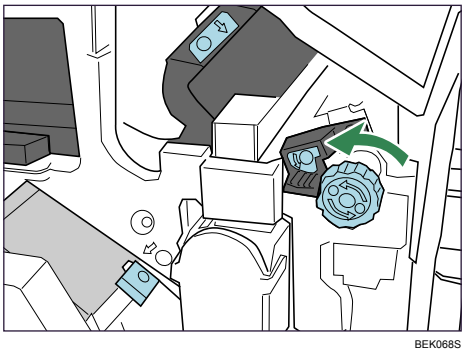
BEK066S

3. Open lever R3.



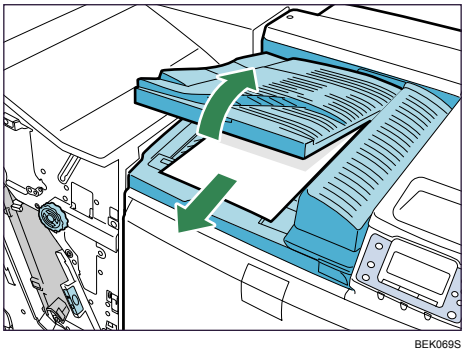
BEK067S

4. Turn lever R2 counterclockwise.



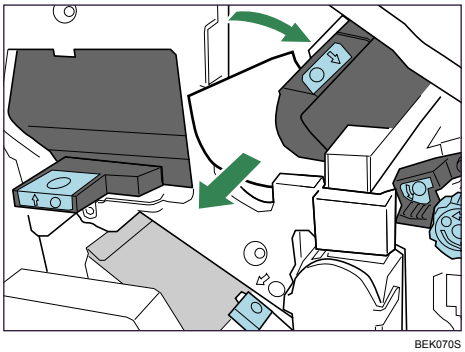
BEK068S

5. Open the left cover of the bridge unit and remove the paper.



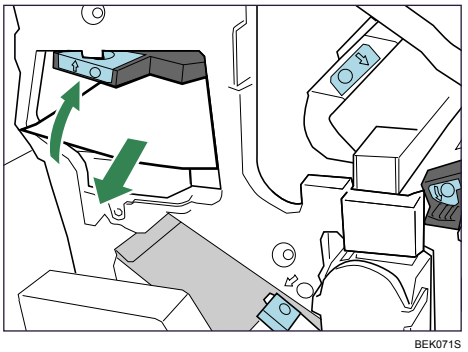
BEK069S

6. If the paper cannot be removed, open lever R3 and remove the paper.



BEK070S

7. Raise lever R4 up and remove the paper.

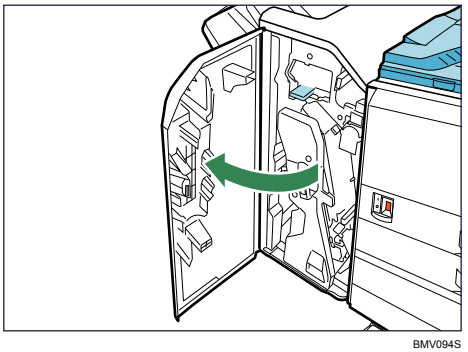


BEK071S

8. Return levers R3 and R4 to their original positions.
9. Close the front cover of the finisher.

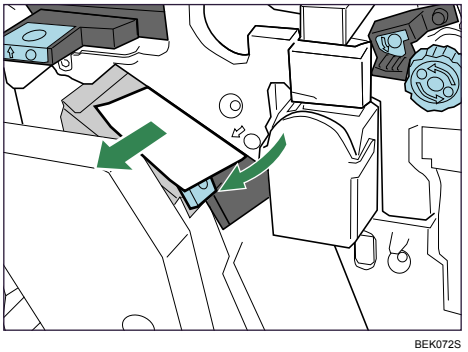
When R5, R6, R7, or R8 is displayed.

1. Open the front cover of the finisher.



BMV094S

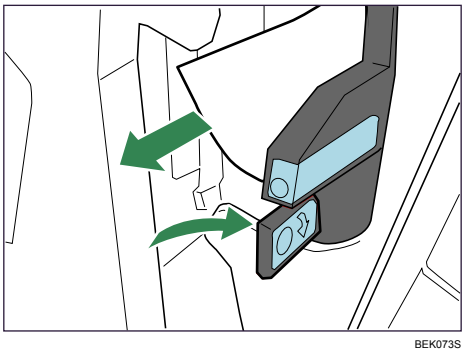
2. Push lever R5 outward and remove the paper.



BEK072S

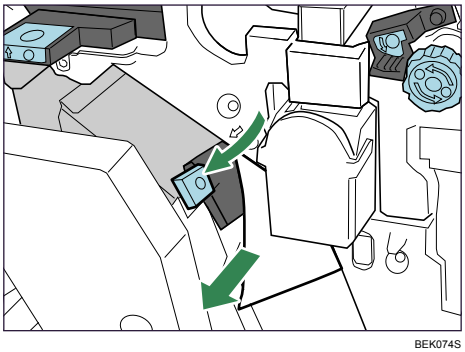
3. Return lever R5 to its original position.

4. If the paper could not be removed, raise lever R6 and remove the paper.



BEK073S

5. Return lever R6 to its original position.
6. Open lever R3.
7. Lower lever R7 and remove the paper.



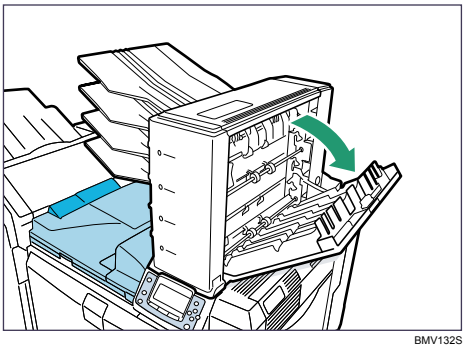
BEK074S

8. Return levers R3 and R7 to their original positions.
9. Close the front cover of the finisher.

Paper Misfeed Message (W)

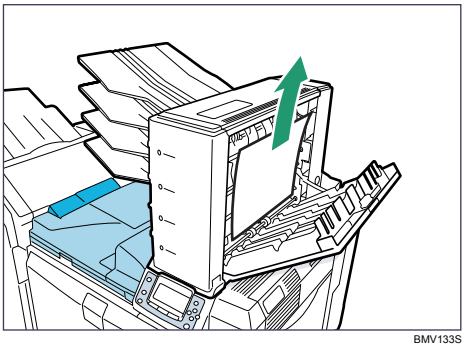
The "W Open mailbox and remove the paper." error message appears when a paper misfeed occurs in the paper feed section of the mailbox.

1. **Open the cover on the right side of the mailbox carefully.**



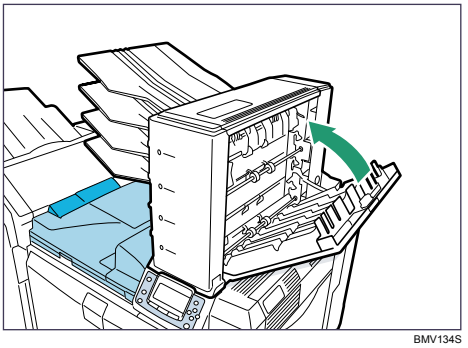
BMV132S

2. **Remove misfed paper slowly.**



BMV133S

3. **Close the cover on the right side of the mailbox carefully.**



BMV134S

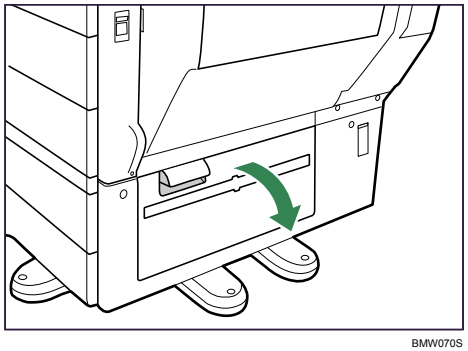
Paper Misfeed Message (Y)

The "Y Open the part as shown and remove paper." error message appears when a paper misfeed occurs in the paper feed section of an optional paper feed unit.

Important

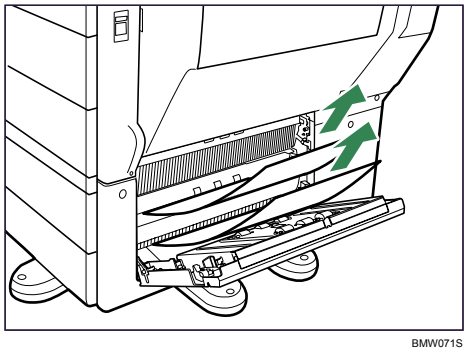
- **When a paper misfeed (Y) occurs, the paper tray is locked and cannot be pulled out. Do not forcefully pull out the tray.**

1. **Open the cover on the right side of the 1000-sheet paper feed unit or 2000-sheet paper feed unit carefully.**



BMW070S

2. **Remove misfed paper slowly.**



BMW071S

3. **Close the cover on the right side of the 1000-sheet paper feed unit or 2000-sheet paper feed unit carefully.**

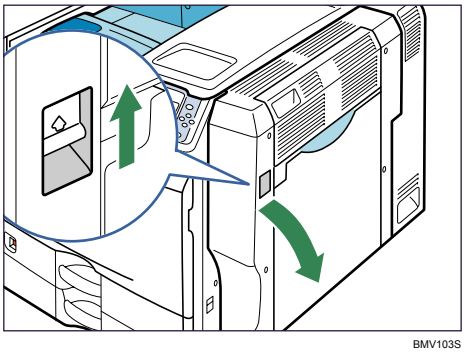
Paper Misfeed Message (Z)

The "Press Z to open cover and remove paper." error message appears when a paper misfeed occurs inside the duplex unit.

Important

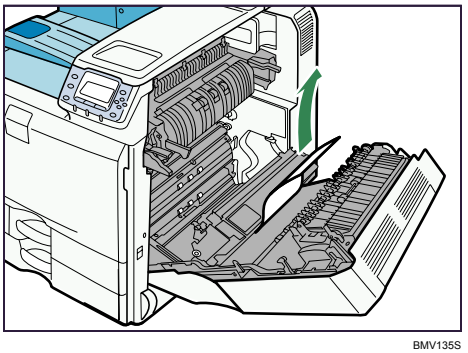
- The inside of this printer becomes very hot. Before removing paper around the fusing unit, wait until the temperature of the covers inside the fusing unit and duplex unit cool down.
- When a paper misfeed (Z) occurs, the paper tray is locked and cannot be pulled out. Do not forcefully pull out the tray.

1. Push up the lever on the right side, and open the printer's right cover carefully.



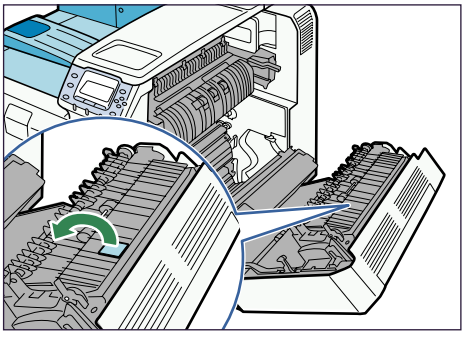
BMV103S

2. Remove misfed paper slowly.

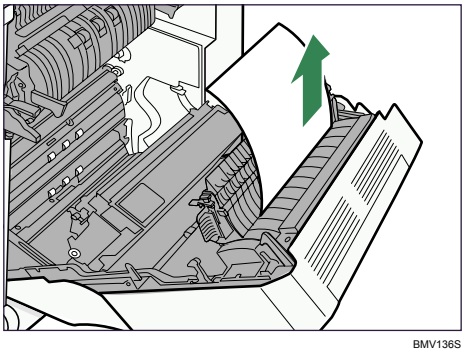


BMV135S

3. Holding knob Z, open the cover, and then remove the paper carefully.

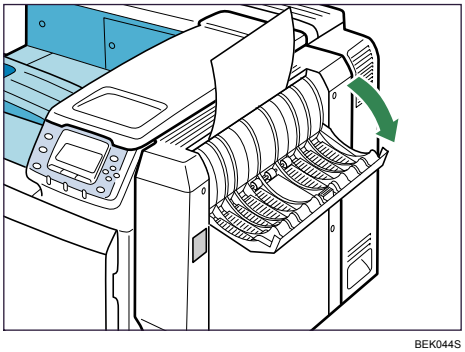


BMV242S



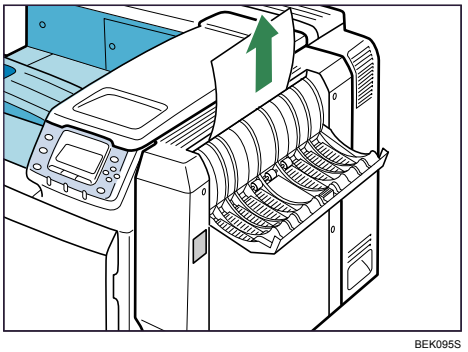
BMV136S

4. Close the cover.
5. Carefully close the right cover.
6. Open the upper right cover.



BEK044S

7. **Remove misfed paper slowly.**



BEK095S

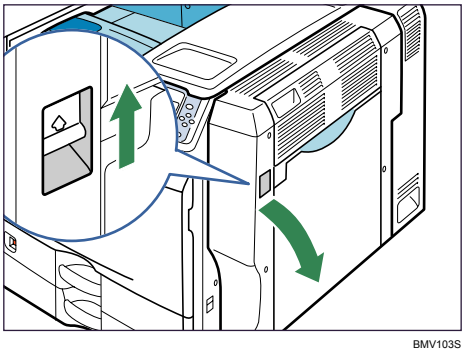
8. **Close the upper right cover.**

Duplex Print Always Misfeeds

Important

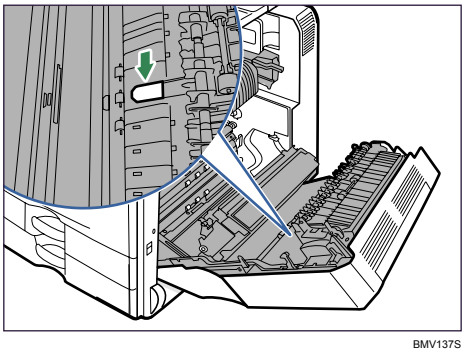
- The inside of this printer becomes very hot. Before removing paper around the duplex units, wait until the covers inside the fusing unit and duplex unit cool down.

1. Push up the lever on the right side, and open the printer's right cover carefully.



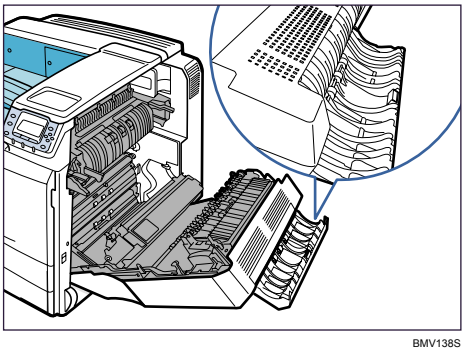
BMV103S

2. Check if there is paper in the location shown below.



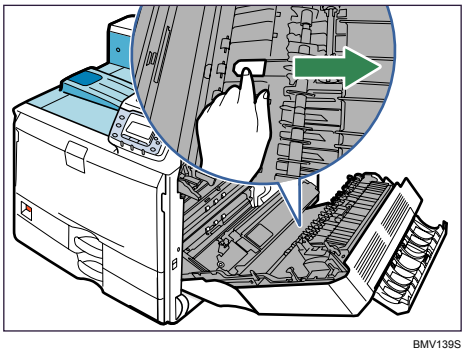
BMV137S

3. If there is paper, open the upper right cover.



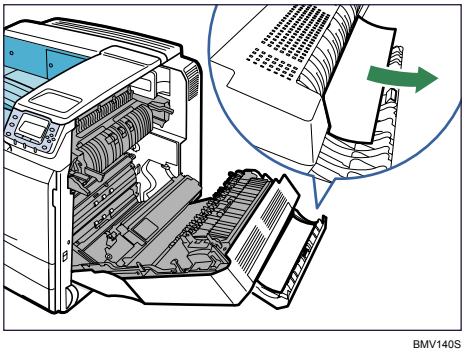
BMV138S

4. Using your finger, push the paper up in the direction of the arrow.



BMV139S

5. Remove the paper from the upper right cover area carefully.



BMV140S

6. Close the upper right cover.
7. Carefully close the right cover.

11. Appendix

This chapter explains safety precautions and procedures for moving the printer, consumables, and printer specifications and option specifications.

Moving and Transporting the Printer

⚠WARNING

- Disconnect the power plug (by pulling the plug, not the cable) if the power cable or plug becomes frayed or otherwise damaged.
- It is dangerous to handle the plug with wet hands. Doing this may result in receiving an electric shock.

⚠CAUTION

- Before moving the machine, unplug the power cord from the wall outlet. If the cord is unplugged abruptly, it could become damaged. Damaged plugs or cords can cause an electrical or fire hazard.
- When moving the printer after use, do not take out any of the toners, black drum unit/color drum units, nor waste toner bottle to prevent toner spill inside the machine.
- When moving the machine, hold the handles at both sides, and then lift the printer slowly. Lifting it carelessly or dropping it may cause an injury.

Important

- **Be sure to disconnect all cables from the printer before transporting it.**
- **The printer is a piece of precision machinery. Take care to avoid damage during transportation.**
- **If optional paper feed units are attached, remove them from the printer and move them separately.**

Repack the printer using its original packaging for transporting.

Note

- The printer weighs approximately 97 kg (214 lb.).

Moving the Printer

⚠CAUTION

- When moving the machine, hold the handles at both sides, and then lift the printer slowly. Lifting it carelessly or dropping it may cause an injury.
- Before moving the machine, unplug the power cable from the wall outlet. If the cable is unplugged abruptly, it could become damaged. Damaged plugs or cables can cause an electrical or fire hazard.

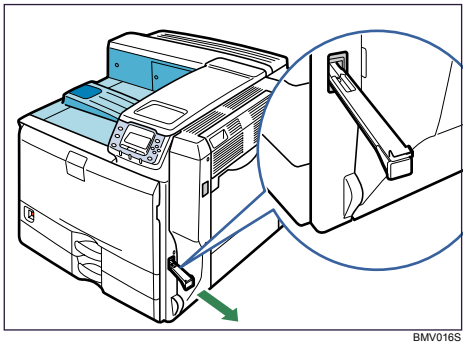
Moving the printer a short distance

Important

- **Be sure to place the printer on a smooth and stable place.**

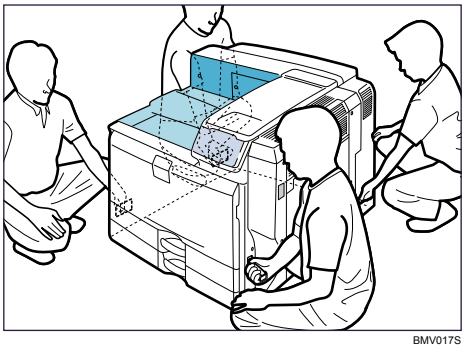
1. **Be sure to check the following points:**
   - The power switch is turned off.
   - The power cord is unplugged from the wall outlet.
   - The interface cable is unplugged from the printer.
2. **If any external options are attached, remove them.**

   See the relevant sections in this manual and reverse the steps to remove options.
3. **Pull out the handle from the right side of the printer.**



BMV016S

4. **Lift the printer with four people by using the handles on both sides of the printer, and then move it to the place where you want to install it, keeping it horizontal.**



BMV017S

5. **Return the handle you pulled out from the printer to its original position.**
6. **If you removed options, reattach them.**

   For details, see the relevant sections in this manual.

Note

- For turning on and off the power, see "Power on and off".

- At least four people are required to lift the printer.
- Be sure to keep the printer horizontal while moving it. To prevent toner from being released, move the printer slowly.
- If optional paper feed units are attached, remove them from the printer and move them separately.
- When finished, return the handles to their original position.

Reference

- p.25 "Power on and off"

Consumables

Print Cartridge

Toner	Average printable number of pages per toner *1
Black	20,000 pages
Cyan	15,000 pages
Magenta	15,000 pages
Yellow	15,000 pages

*1 A4/Letter 5% test chart; 3 pages/job; Cyan, Magenta and Yellow: color printing only.

Note

- Our products are engineered to meet the highest standards of quality and functionality. When purchasing expendable supplies, we recommend using only those specified by an authorized dealer.
- If the toner is not changed when necessary, printing will become impossible. We recommend keeping a stock of toner or purchasing one soon.
- The number of printable pages is an estimate, based on continuous print jobs of 3 pages. The actual number of printable pages varies depending on the image volume and density, number of pages to be printed at a time, paper type and paper size used, contents of print images, and environmental conditions such as temperature and humidity.
- Toner (consumable) is not covered by warranty. However, if there is a problem, contact the store where it was purchased.
- Toner may need to be changed sooner than indicated above due to deterioration over the period of use.

Black Drum Unit/Color Drum Unit

Name	Average printable number of pages *1
Black Drum Unit SP C820DN	40,000 pages
Color Drum Unit SP C820DN	40,000 pages

*1 A4/Letter 5% test chart; 3 pages/job; Color Drum Unit: color printing only.

Note

- The number of printable pages is an estimate, based on continuous print jobs of 3 pages. The actual number of printable pages varies depending on the image volume and density, number of pages to be printed at a time, paper type and paper size used, contents of print images, and environmental conditions such as temperature and humidity.
- If the black drum unit/color drum units are not changed when necessary, print quality is not guaranteed. We recommend keeping extra sets of black drum unit/color drum units.
- Black drum unit/color drum units (consumables) are not covered by warranty. However, if there is a problem, contact the store where they were purchased.
- Black drum unit/color drum units may need to be changed sooner than indicated above due to deterioration over the period of use.

Waste Toner Bottle

Name	Average printable number of pages *1
Waste Toner Bottle SP C811DN	40,000 pages

*1 A4/Letter 5% test chart; 3 pages/job; 30% B&W/70% color printing.

Note

- The number of printable pages is an estimate, based on continuous print jobs of 3 pages. The actual number of printable pages varies depending on the used paper type and size, and environmental conditions.
- Waste toner bottles are consumables and not covered by warranty. However, if there is a problem, contact the store where they were purchased.

Staple Cartridge

Name	Number of shots
Staple cartridge	5,000 shots × 1 with cartridge
Staple Refill cartridge	Refill 5,000 shots × 3

Transfer Unit

Name	Average printable number of pages*1
Transfer Unit SP C820DN	200,000 pages

*1 A4/Letter 5% test chart, 3 pages/job.

Note

- The number of printable pages is an estimate, based on continuous print jobs of 3 pages. The actual number of printable pages varies depending on the image volume and density, number of pages to be printed at a time, paper type and paper size used, and environmental conditions such as temperature and humidity.
- If the transfer unit is not changed when necessary, the quality of printing is not guaranteed. We recommend keeping a stock of transfer unit or purchasing one soon. Transfer unit package contains dustproof filters.

Fusing Unit

Name	Average printable number of pages*1
Fusing Unit SP C820DNA/C820DNE	160,000 pages

*1 A4/Letter 5% test chart, 3 pages/job.

Note

- The number of printable pages is an estimate, based on continuous print jobs of 3 pages. The actual number of printable pages varies depending on the image volume and density, number of pages to be printed at a time, paper type and paper size used, and environmental conditions such as temperature and humidity.
- If the fusing unit is not changed when necessary, print quality is not guaranteed. We recommend keeping a stock of fusing unit. A fusing unit package contains a transfer roller.

Specifications

Mainframe

Configuration:

Desktop

Memory:

Standard 512 MB, up to 1024 MB (with the optional memory unit)

Print Process:

Laser beam scanning and Electrophotographic printing

Dualcomponent development

First Print Speed:

Basic model

Color printing: 9 seconds or less, Monochrome printing: 8 seconds or less (A4, $8\frac{1}{2}$" × 11" (Letter))

HDD standard model

Color printing: 8 seconds or less, Monochrome printing: 7 seconds or less (A4, $8\frac{1}{2}$" × 11" (Letter))

Note that if the printer has not been used for some time, there may be a short delay before the first page starts printing.

Printing Speed:

Basic model

Maximum 40 pages per minute (A4, $8\frac{1}{2}$" × 11" (Letter))

HDD standard model

Maximum 50 pages per minute (A4, $8\frac{1}{2}$" × 11" (Letter))

Fonts:

Monotype Imaging 35 Intellifonts, 10 TrueType fonts, 13 International fonts

Paper Size:

See p.101 "Paper and Other Media".

Paper Weight:

See p.101 "Paper and Other Media".

Media Type:

See p.101 "Paper and Other Media".

Resolution:

1200 × 1200 dpi (true, 1 bit)

9000 × 600 dpi

1800 × 600 dpi

600 × 600 dpi

Printer Language:

RPCS, PCL5c/6, PostScript 3, PDF, PJL, PictBridge (optional)

Network protocol:

TCP/IP, IPX/SPX, AppleTalk, NetBEUI, IPP, SMB

Interfaces:

Standard:

- Ethernet (10BASE-T/100BASE-TX)
- USB 2.0, USB Host

  To use USB 2.0, a USB computer port and cable that support USB 2.0 are required.

Optional:

- Parallel (Bidirectional IEEE1284)
- Wireless LAN (IEEE802.11 a/b/g)
- Gigabit Ethernet (1000BASE-T)
- Bluetooth

Noise Emission (Sound Power Level)*1

Standby: 40 dB (A) or less

During Printing (color print):

- 67 dB (A) or less (Basic model)
- 68 dB (A) or less (HDD standard model)

During Printing (black and white print):

- 65 dB (A) or less (Basic model)
- 66 dB (A) or less (HDD standard model)

Noise Emission (Sound Pressure level)*2

Standby: 26 dB (A) or less

During Printing (color print):

- 53 dB (A) or less (Basic model)
- 54 dB (A) or less (HDD standard model)

During Printing (black and white print):

- 51 dB (A) or less (Basic model/HDD standard model)

*1 The preceding measurements made in accordance with ISO7779 are actual values.

*2 Measured at the position of a bystander.

Warm-up Time:

220-240V

Basic model: 34 seconds (23 °C, 73 °F)

HDD standard model: 48 seconds (23 °C, 73 °F)

120V

Basic model: 35 seconds (23 °C, 73 °F)

HDD standard model: 50 seconds (23 °C, 73 °F)

Paper Capacity:

Standard Paper Tray	550 sheets × 2 trays
Bypass Tray	100 sheets

Power Source:

220-240V

220-240 V, 50/60 Hz, 7 A or more

120V

120 V, 60 Hz, 12 A or more

Power Consumption:

220-240V

Maximum 1400 W (Unplug the power cord to turn off the power completely.)

Energy saver mode: 2.7 W

120V

Maximum 1400 W (Unplug the power cord to turn off the power completely.)

Energy saver mode: 2.2 W

Dimensions (W × D × H):

670 × 670 × 640 mm (26.4 × 26.4 × 25.2 inches)

Weight:

Approximately 97 kg (214 lb.)

Options

Paper Feed Unit PB3080

Paper Size:

A3, A4, A5, B4 JIS, B5 JIS, 11" × 17", $8\frac{1}{2}$" × 14" (Legal), $8\frac{1}{2}$" × 13" (Foolscap), $8\frac{1}{2}$" × 11" (Letter), $8\frac{1}{4}$" × 13" (Folio),

8" × 13" (F/GL), $7\frac{1}{4}$" × $10\frac{1}{2}$" (Executive), 8K, 16K

Custom Size: 182 to 297 mm (7.17 to 11.69 inches) in width, 148 to 432 mm (5.83 to 17.00 inches) in length

Dimensions (W × D × H):

580 × 620 × 120 mm (22.9 × 24.4 × 4.8 inches)

Paper Capacity (80 g/m², 20 lb.):

550 sheets × 1 trays

Weight:

Approximately 15 kg (33.1 lb.)

Power Consumption:

Maximum 55 W (Power is supplied from the main unit.)

Paper Feed Unit PB3040

Paper Size:

A3, A4, A5, B4 JIS, B5 JIS, 11" × 17", $8\frac{1}{2}$" × 14" (Legal), $8\frac{1}{2}$" × 13" (Foolscap), $8\frac{1}{2}$" × 11" (Letter), $8\frac{1}{4}$" × 13" (Folio),

8" × 13" (F/GL), $7\frac{1}{4}$" × $10\frac{1}{2}$" (Executive) , 8K, 16K

Custom Size: 182 to 297 mm (7.17 to 11.69 inches) in width, 148 to 432 mm (5.83 to 17.00 inches) in length

Dimensions (W × D × H):

580 × 620 × 260 mm (22.9 × 24.5 × 10.3 inches)

Paper Capacity (80 g/m², 20 lb.):

550 sheets × 2 trays

Weight:

Approximately 26 kg (57.4 lb.)

Power Consumption:

Maximum 60 W (Power is supplied from the main unit.)

LCIT PB3050

Paper Size:

220-240V: A4

120V: $8\frac{1}{2}$" × 11" (Letter)

Dimensions (W × D × H):

580 × 650 × 260 mm (22.9 × 24.5 × 10.3 inches)

Paper Capacity (80 g/m^2, 20 lb.):

1000 sheets × 2trays

Weight:

Approximately 26 kg (57.4 lb.)

Power Consumption:

Maximum 55 W (Power is supplied from the main unit.)

Booklet Finisher SR3000

[Finisher Upper Tray]

Paper Size:

A3, A4, A5, A6, B4 JIS, B5 JIS, B6 JIS, 12" × 18", 11" × 17", $8\frac{1}{2}$" × 14" (Legal), $8\frac{1}{2}$" × 13" (Foolscap), $8\frac{1}{2}$"× 11" (Letter),

$8\frac{1}{4}$" × 13" (Folio), 8" × 13" (F/GL), $7\frac{1}{4}$" × $10\frac{1}{2}$" (Executive), $5\frac{1}{2}$" × $8\frac{1}{2}$" (Half letter), 8K, 16K

Custom Size: 100 to 305 mm (3.94 to 12.00 inches) in width, 148 to 460 mm (5.83 to 18.11 inches) in length

Paper Weight:

52 to 105 g/m^2 (14 to 28 lb.)

Paper Capacity:

- 100 sheets for the following paper sizes (80 g/m^2, 20 lb.):

  A4, B5 JIS, A5, B6 JIS, A6, $8\frac{1}{2}$ × 13 (Foolscap), $8\frac{1}{2}$ × 11 (Letter), $8\frac{1}{4}$ × 13 (Folio), 8 × 13 (F/GL), $7\frac{1}{4}$ × $10\frac{1}{2}$ (Executive), $5\frac{1}{2}$ × $8\frac{1}{2}$ (Half letter), 16K

- 50 sheets for the following paper sizes (80 g/m^2, 20 lb.):

  A3, B4 JIS, 12 × 18, 11 × 17, 8 1/2 × 14 (Legal), 8K

[Finisher Shift Tray]

Paper Size:

A3, A4, A5, A6, B4 JIS, B5 JIS, B6 JIS, 12" × 18", 11" × 17", 8 1/2" × 14" (Legal), 8 1/2" × 13" (Foolscap), 8 1/2" × 11" (Letter),

8 1/4" × 13" (Folio), 8" × 13" (F/GL), 7 1/4" × 10 1/2" (Executive), 5 1/2" × 8 1/2" (Half letter), 8K, 16K

Custom Size: 100 to 305 mm (3.94 to 12.00 inches) in width, 148 to 460 mm (5.83 to 18.11 inches) in length

Paper Weight:

52 to 256 g/m^2 (14 to 68 lb.)

Paper Capacity:

No staple:

- 1000 sheets for the following paper sizes (80 g/m^2, 20 lb.):

  A4, B5 JIS, B6 JIS, A6, 8 1/2 × 13 (Foolscap), 8 1/2 × 11 (Letter), 8 1/4 × 13 (Folio), 8 × 13 (F/GL), 7 1/4 × 10 1/2 (Executive), 5 1/2 × 8 1/2 (Half letter), 16K

- 500 sheet for the following paper sizes (80 g/m^2, 20 lb.):

  A3, B4 JIS, A5, 12 × 18, 11 × 17, 8 1/2 × 14 (Legal), 8K

- 100 sheets for the following paper sizes (80 g/m2, 20 lb.):

  A5, B6, A6

Staple:

- 2 to 9 sheets, 100 sets for the following paper sizes (80 g/m^2, 20 lb.):

  A4, B5 JIS, 8 1/2 × 11 (Letter), 7 1/4 × 10 1/2 (Executive), 16K

- 10 to 50 sheets, 100 to 20 sets for the following paper sizes (80 g/m^2, 20 lb.):

  A4, B5 JIS, 8 1/2 × 11 (Letter), 7 1/4 × 10 1/2 (Executive), 16K

- 2 to 9 sheets, 50 sets for the following paper sizes (80 g/m^2, 20 lb.):

  A3, B4 JIS, 11 × 17, 8 1/2 × 14 (Legal), 8 1/2 × 13 (Foolscap), 8 1/4 × 13 (Folio), 8 × 13 (F/GL), 8K

- 10 to 30 sheets, 50 to 10 sets for the following paper sizes (80g/m^2, 20lb.):

  A3, B4 JIS, 11 × 17, 8 1/2 × 14 (Legal), 8 1/2 × 13 (Foolscap), 8 1/4 × 13 (Folio), 8 × 13 (F/GL), 8K

Staple Capacity:

- 2 to 50 sheets for the following paper sizes (80g/m^2, 20lb.):

A4, B5 JIS, 8 1/2 × 11 (Letter), 7 1/4 × 10 1/2 (Executive), 16K

- 2 to 30 sheets for the following paper sizes (80g/m^2, 20lb.):

  A3, B4 JIS, 11 × 17, 8 1/2 × 14 (Legal), 8 1/2 × 13 (Foolscap), 8 1/4 × 13 (Folio), 8 × 13 (F/GL), 8K

Staple Paper Size:

A3, B4 JIS, A4, B5 JIS, 11 × 17, 8 1/2 × 14 (Legal), 8 1/2 × 13 (Foolscap), 8 1/2 × 11 (Letter), 8 1/4 × 13 (Folio), 8 × 13 (F/GL), 7 1/4 × 10 1/2 (Executive), 8K, 16K

Staple Paper Weight:

60 to 90 g/m^2 (16 to 24 lb.)

Staple Position:

- 1 staple - 2 positions
- 2 staples - 2 positions

[Finisher Booklet Tray]

Paper Size:

A3, B4 JIS, A4, B5 JIS, 11 × 17, 8 1/2 × 14 (Legal), 8 1/2 × 11 (Letter)

Paper Capacity:

- 2 to 5 sheets: 30 sets
- 6 to 10 sheets: 15 sets

Power Consumption:

Approximately 60 W (power supplied from the main unit)

Dimensions:

535 × 600 × 930 mm (21.1 × 23.7 × 36.7 inches)

Weight:

Approximately 48 kg (105.9 lb.)

Finisher SR3030

[Finisher Upper Tray]

Paper Size:

A3, A4, A5, A6, B4 JIS, B5 JIS, B6 JIS, 11" × 17", 8 1/2" × 14" (Legal), 8 1/2" × 13 " (Foolscap), 8 1/2" × 11" (Letter),

8 1/4" × 13" (Folio), 8" × 13" (F/GL), 7 1/4" × 10 1/2" (Executive), 5 1/2" × 8 1/2" (Half Letter), 8K, 16K, 12" × 18"

Custom Size: 100 to 305 mm (3.94 to 12.00 inches) in width, 148 to 600 mm (5.83 to 23.62 inches) in length

Paper Weight:

52 to 163 g/m^2 (14 to 43 lb.)

Paper Capacity (80 g/m^2, 20lb.):

- 250 sheets:

  A4, B5 JIS, A5, B6 JIS, A6, 8 1/2" × 11" (Letter), 7 1/4" × 10 1/2" (Executive), 5 1/2" × 8 1/2" (Half Letter), 16K

- 50 sheets:

  A3, B4 JIS, 12" × 18", 11" × 17", 8 1/2" × 14" (Legal), 8 1/2" × 13" (Foolscap), 8 1/4"× 13" (Folio), 8" × 13" (F/GL), 8K

[Finisher Shift Tray]

Paper Size (no staple):

A3, A4, A5, A6, B4 JIS, B5 JIS, B6 JIS, 11" × 17", 8 1/2" × 14" (Legal), 8 1/2" × 13" (Foolscap), 8 1/2" × 11" (Letter),

8 1/4" × 13" (Folio), 8" × 13" (F/GL), 7 1/4" × 10 1/2" (Executive), 5 1/2" × 8 1/2" (Half Letter), Com10, Monarch, C5,C6, DL Env, 8K, 16K, 12" × 18"

Custom Size: 100 to 305 mm (3.94 to 12.0 inches) in width, 148 to 600 mm (5.83 to 23.62 inches) in length

Paper Weight:

52 to 256 g/m^2 (14 to 68 lb.)

Paper Capacity (no staple, 80g/m^2, 20lb.):

- 3,000 sheets:

  A4, 8 1/2" × 11" (Letter)

- 1500 sheets:

  A3, A4, B4 JIS, B5 JIS, 11" × 17", 8 1/2" × 14" (Legal), 8 1/2" × 11" (Letter), 12" × 18"

- 500 sheets for A5

- 100 sheets:

  A5, B6 JIS, A6, 5 1/2" × 8 1/2" (Half letter)

Staple Paper Size:

A3, A4, B4 JIS, B5 JIS, 11" × 17", 8 1/2" × 14" (Legal), 8 1/2" × 13" (Foolscap), 8 1/2" × 11" (Letter), 8 1/4" × 13" (Folio), 8" × 13" (F/GL),

7 1/4" × 10 1/2" (Executive), 8K, 16K, 12" × 18"

Staple Paper Weight:

64 to 90 g/m2 (17 to 24 lb.)

Staple Capacity (80g/m^2, 20lb.):

Without Mixed Size:

- 30 sheets:

  A3, B4 JIS, 11" × 17", 8 1/2" × 14" (Legal), 8 1/2" × 13" (Foolscap), 8 1/4" × 13" (Folio), 8" × 13" (F/GL), 8K, 12" × 18"

- 50 sheets:

  A4, B5 JIS, 8 1/2" × 11" (Letter), 7 1/4" × 10 1/2" (Executive), 16K

With Mixed Size:

- 30 sheets:

  A3/A4, B4 JIS/B5 JIS, 11" × 17"/8 1/2" × 11" (Letter)

Paper Capacity after staple (80g/m^2, 20lb.):

Without Mixed Size:

- 2 to 19 sheets: 150 sets

  A4, 8 1/2" × 11" (Letter)

- 20 to 50 sheets: 150 to 60 sets

  A4, 8 1/2" × 11" (Letter)

- 2 to 14 sheets: 100 sets

  A4, B5 JIS, 8 1/2" × 11" (Letter)

- 15 to 50 sheets: 100 to 30 sets

  A4, B5 JIS, 8 1/2" × 11" (Letter)

- 2 to 14 sheets: 100 sets

  A3, B4 JIS, 11" × 17", 8 1/2" × 14" (Legal), 8" × 13" (F/GL), 8 1/2" × 13" (Foolscap), 8 1/4" × 13" (Folio), 7 1/4" × 10 1/2" (Executive)

- 15 to 30 sheets: 100 to 33 sets

  A3, B4 JIS, 11" × 17", 8 1/2" × 14" (Legal), 8" × 13" (F/GL), 8 1/2" × 13" (Foolscap), 8 1/4" × 13" (Folio), 7 1/4" × 10 1/2" (Executive)

With Mixed Size:

- 2 to 30 sheets: 50 sets

  A3/A4, B4 JIS/B5 JIS, 11" × 17"/8 1/2" × 11" (Letter)

Staple Positions:

- 1 staple - 3 positions
- 2 staples - 2 positions

Power Consumption:

Approximately 96 W

Dimensions:

657 × 613 × 960 mm (25.9 × 24.2× 37.8 inches)

Weight:

Approximately 54 kg (119.1 lb.)

Output Jogger Unit Type 3260

Paper size

A3, B4, A4, B5, 11" × 17", $8^1/_2$" × 11"

Power consumption (Max):

16 W (power supplied from main unit)

Dimensions (W × D × H):

108 x 452 x 130 mm (4.3 x 17.8 x 5.2 inches)

Weight:

Approximately 2.0 kg (4.4 lb.)

Mail Bin Type C820

Paper size:

A3, A4, A5, A6, B4 JIS, B5 JIS, B6 JIS, 11" × 17", $8^1/_2$" × 14" (Legal), $8^1/_2$" × 11" (Letter), $8^1/_4$" × 13" (Folio), 8" × 13" (F/GL), $7^1/_4$" × $10^1/_2$" (Executive)

Paper Weight:

60 to 128 g/m2 (16 to 34 lb.)

Paper Capacity (80 g/m^2, 20 lb.):

500 sheets (125 sheets per output tray)

Power Consumption:

Approximately 17 W (power supplied from the main unit)

Dimensions (W × D × H):

440 × 475 × 370 mm (17.3 × 18.7 × 14.6 inches)

Weight:

Approximately 10 kg (22 lb.)

Memory Unit Type J 256 MB/Memory Unit Type J 512 MB

Module Type:

SO-DIMM (Small Outline Dual-in-line Memory Module)

Memory Type:

SDRAM (Synchronous Dynamic RAM)

Number of Pins:

200 pins

Printer Hard Disk Drive Type 820

Storage Capacity (Formatted):

80 GB

Specifications:

- Spooling print data to collate
- Storing/Spooling Sample Print/Locked Print/Hold Print/Stored Print data
- Storing PostScript fonts
- Storing log data

Note

- You can install PostScript fonts with this optional hard disk drive. With Mac OS, types of fonts supported are PostScript Type 1 and PostScript Type 2. To download them, use Printer Utility for Mac.

Gigabit Ethernet Type B

Interface Connector:

Ethernet (10BASE-T, 100BASE-TX, 1000BASE-T)

Data Transmission Speed: Ethernet: 10 Mbps, 100 Mbps, 1000 Mbps

Protocol:

TCP/IP, IPX/SPX, Apple Talk

Maximum Length of Cable Between Devices:

Ethernet: 100 m

IEEE 802.11a/g Interface Unit Type J

Transmission Specification:

Based on IEEE 802.11 a/b/g (Wireless LAN)

Data Transfer Speed:

Auto select from the following speed:

- IEEE 802.11 b:

  1 Mbps, 2 Mbps, 5.5 Mbps, 11 Mbps

- IEEE 802.11 g:

  1 Mbps, 2 Mbps, 5.5 Mbps, 6 Mbps, 9 Mbps, 11 Mbps, 12 Mbps, 18 Mbps, 24 Mbps, 36 Mbps, 48 Mbps, 54 Mbps

- IEEE 802.11 a:

  6 Mbps, 9 Mbps, 12 Mbps, 18 Mbps, 24 Mbps, 36 Mbps, 48 Mbps, 54 Mbps

Frequency Range:

- IEEE 802.11 b/g:
  - 220-240V: 2412 to 2472 MHz (Channels 1 to 13)
  - 120V: 2412 to 2462 MHz (Channels 1 to 11)
- IEEE 802.11 a:
  - 5180 to 5320 MHz (Channels 36, 40, 44, 48, 52, 56, 60, and 64)

Transmission Mode:

- Ad-hoc mode
- Infrastructure mode

IEEE 802.11g Interface Unit Type K

220-240V

Transmission Specification:

Based on IEEE 802.11b/g (Wireless LAN)

Data Transfer Speed:

Auto select from the following speed:

1 Mbps, 2 Mbps, 5.5 Mbps, 6 Mbps, 9 Mbps, 11 Mbps, 12 Mbps, 18 Mbps, 24 Mbps, 36 Mbps, 48 Mbps, 54 Mbps

Frequency Range:

2412 to 2462 MHz (Channels 1 to 11)

Transmission Mode:

- Ad-hoc mode
- Infrastructure mode

Bluetooth Interface Unit Type 3245

Supported Profiles:

SPP (Serial Port Profile), HCRP (Hardcopy Cable Replacement Profile), BIP (Basic Imaging Profile)

Frequency Range:

2.45 GHz ISM band

Data Transmission Speed:

723 kbps

Note

- The transmission speed is adjusted according to factors such as the distance and obstacles between the devices, radio signal condition and Bluetooth adaptor.

Maximum Range:

10 m

IEEE 1284 Interface Board Type A

Transmission Specification:

IEEE 1284

Required Cable:

Standard IEEE 1284-compliant Micro Getronics 36-pin cable

Punch Kit PU3000 (Booklet Finisher SR3000 Only)

Paper size:

2 and 3 holes type

2 holes	A3, B4 JIS, A4, B5 JIS, A5, 11" × 17", $8\frac{1}{2}$" × 14" (Legal), $8\frac{1}{2}$" × 11" (Letter), $7\frac{1}{4}$" × $10\frac{1}{2}$" (Executive), 8" × 13" (F/GL), $8\frac{1}{2}$" × 13" (Foolscap), $8\frac{1}{4}$" × 13" (Folio), 8K, 16K
3 holes	A3, B4 JIS, A4, B5 JIS, 11" × 17", $8\frac{1}{2}$" × 11" (Letter), $7\frac{1}{4}$" × $10\frac{1}{2}$" (Executive), 8K, 16K

2 and 4 holes type

2 holes	A3, B4 JIS, A4, B5 JIS, A5, 11" × 17", 8 1/2" × 14" (Legal), 8 1/2" × 11" (Letter), 7 1/4" × 10 1/2" (Executive), 8" × 13" (F/GL), 8 1/2" × 13" (Foolscap), 8 1/4" × 13" (Folio), 8K, 16K
4 holes	A3, B4 JIS, A4, B5 JIS, 11" × 17", 8 1/2" × 11" (Letter), 7 1/4" × 10 1/2" (Executive), 8K, 16K

4 holes type

4 holes	A3, B4 JIS, A4, B5 JIS, A5, 11" × 17", 8 1/2" × 14" (Legal), 8 1/2" × 11" (Letter), 7 1/4" × 10 1/2" (Executive), 8" × 13" (F/GL), 8 1/2" × 13" (Foolscap), 8 1/4" × 13" (Folio), 8K, 16K

Paper weight:

52 to 163 g/m^2 (14 to 43 lb.)

Punch Unit Type 3260 NA 3/2 (Finisher SR3030 Only)

Paper size:

2 and 3 holes type

2 holes	A3, A4, A5, B4 JIS, B5 JIS, 11" × 17", 8 1/2" × 14" (Legal), 8 1/2" × 13" (Foolscap), 8 1/2" × 11" (Letter), 8 1/4" × 13" (Folio), 8" × 13" (F/GL), 7 1/4" × 10 1/2" (Executive), 5 1/2" × 8 1/2" (Half Letter), 8K, 16K, 12" × 18"
3 holes	A3, A4, B4 JIS, B5 JIS, 11" × 17", 8 1/2" × 11" (Letter), 7 1/4" × 10 1/2" (Executive), 8K, 16K, 12" × 18"

Paper weight:

52 to 163 g/m^2 (14 to 43 lb.)

Punch Unit Type 3260 EU 2/4 (Finisher SR3030 Only)

Paper size:

2 and 4 holes type

2 holes	A3, A4, A5, B4 JIS, B5 JIS, 11" × 17", 8 1/2" × 14" (Legal), 8 1/2" × 13" (Foolscap), 8 1/2" × 11" (Letter), 8 1/4" × 13" (Folio), 8" × 13" (F/GL), 7 1/4" × 10 1/2" (Executive), 5 1/2" × 8 1/2" (Half Letter), 8K, 16K, 12" × 18"
4 holes	A3, A4, B4 JIS, B5 JIS, 11" × 17", 8 1/2" × 11" (Letter), 7 1/4" × 10 1/2" (Executive), 8K, 16K, 12" × 18"

Paper weight:

52 to 163 g/m^2 (14 to 43 lb.)

Punch Unit Type 3260 SC (Finisher SR3030 Only)

Paper size:

4 holes type

4 holes	A3, A4, A5, B4 JIS, B5 JIS, 11" × 17", 8 1/2" × 14" (Legal), 8 1/2" × 13" (Foolscap), 8 1/2" × 11" (Letter), 8 1/4" × 13" (Folio), 8" × 13" (F/GL), 7 1/4" × 10 1/2" (Executive), 5 1/2" × 8 1/2" (Half Letter), 8K, 16K, 12" × 18"

Paper weight:

52 to 163 g/m^2 (14 to 43 lb.)

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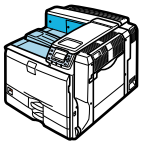

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