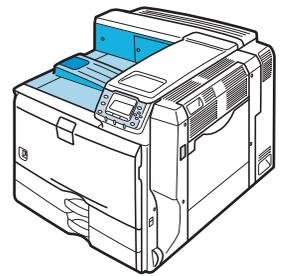


MLP150DN
SP 8200DN
LP150dn

Aficio SP 8200DN

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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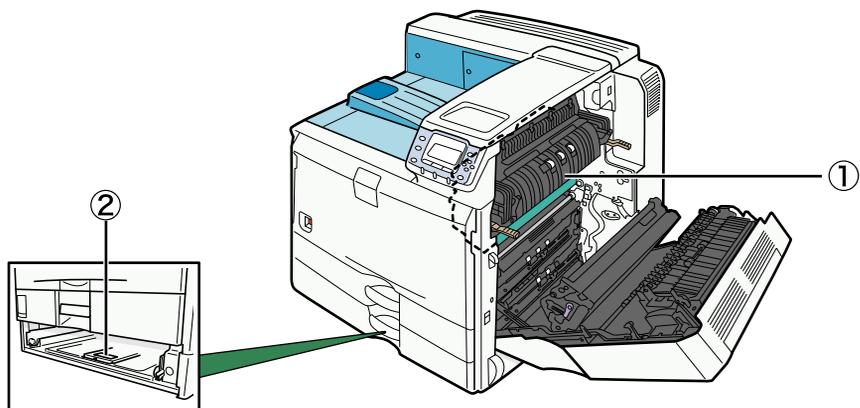
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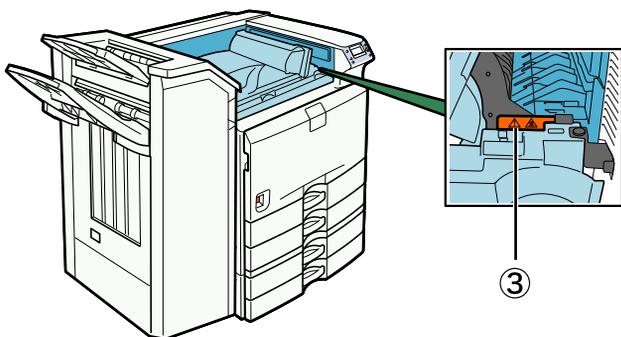
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Positions of WARNING and CAUTION Labels

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.



BEK206S



BEK206S



High temperature. Be careful of hot parts when clearing paper jams.



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

③



High temperature. Be careful of hot parts when clearing paper jams.

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.

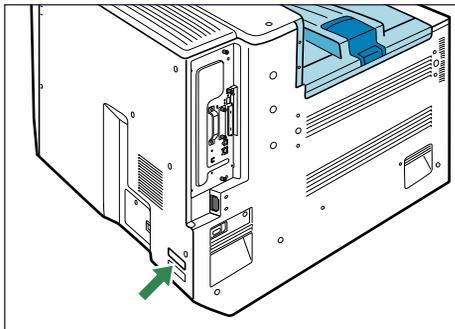
120V

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.



BEK189S

List of Options

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

Option name	Referred to as
HDD ENCRYPTION UNIT Type B	HDD encryption unit
VM Card Type G	VM card
Data Overwrite Security Unit Type J	Data overwrite security unit
IEEE802.11a/g Interface Unit Type J, IEEE802.11g Interface Unit Type K	Wireless LAN interface board
Data Storage Card Type A	Data storage card
Memory Unit Type G 128 MB, Memory Unit Type G 256 MB	SDRAM module
Hard Disk Drive Option Type 5000	Hard disk
Gigabit Ethernet Board Type A	Gigabit Ethernet board
IEEE 1284 Interface Board Type A	IEEE 1284 interface board
IPDS Unit Type 5100	IPDS unit
Finisher SR3030	2 tray finisher
Finisher SR790	1000-sheet 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 PB3040	1000-sheet paper feed unit
LCIT PB3050	2000-sheet paper feed unit
LCIT RT3000	1200-sheet paper feed unit
Bridge Unit BU3030	Bridge unit

Installing the Operating Instructions

The CD-ROM "Manuals" provided with this printer contains HTML version Operating Instructions. Follow the instructions below to install it.

★ Important

- **System Requirements:**
 - Windows 95/98/Me, Windows 2000/XP/Vista, Windows Server 2003/2003 R2, or Windows NT 4.0
 - 800 × 600 or higher monitor resolution
- **Web Browsers:**
 - Microsoft Internet Explorer 4.01 SP2 or later
 - Netscape 6.2 or later
- Non-recommended browsers can display the simplified manual only.
- HTML manuals can also be viewed on a Macintosh.

1. **Quit all applications currently running.**

2. **Insert the CD-ROM "Manuals" into the CD-ROM drive.**

The installer starts.

Auto Run may not work under certain operating system settings. In this case, launch "Setup.exe" in the CD-ROM root directory.

3. **Select an interface language, and click [OK].**

4. **Click [Install manuals].**

If you want to read manuals from the CD-ROM, click [Read HTML manuals] or [Read PDF manuals].

5. **Follow the instructions on the screen to complete the installation.**

6. **Click [Finish] when the installation is complete.**

7. **Click [Exit].**

↓ Note

- 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, click All Programs, then [Product Name], and then uninstall the data.
- If you are installing the manuals on a Macintosh, open the "Manuals.htm" file on the CD-ROM.

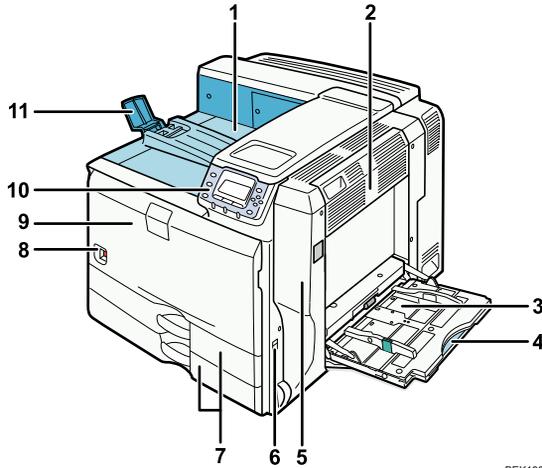


1. Guide to the Printer

Exterior: Front View

1

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



BEK193S

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.

5. Right Cover

Open this cover to remove jammed paper, or to replace Maintenance Kit B (the fusing unit and transfer unit).

6. Handle

Pull out this handle when lifting the printer.

7. Tray 1, Tray 2

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

8. Power Switch

Use this switch to turn the power on and off.

9. Front Cover

Open this cover to replace the toner or Maintenance Kit A (the development unit).

10. Control Panel

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

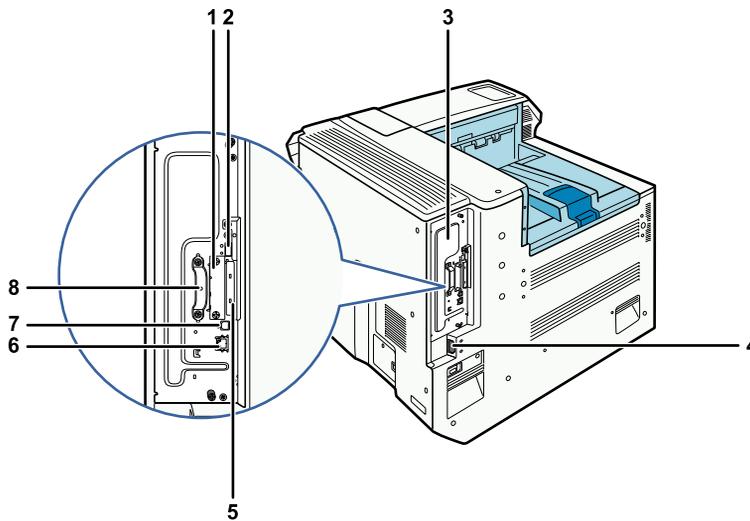
11. Paper Support

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

1

Exterior: Rear View

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



BEK133S

1. Optional Interface Board Slot

Install an optional interface board. The Gigabit Ethernet board, Wireless LAN board, or IEEE1284 interface board can be installed.

2. USB Port A

This port is usually not used.

3. Controller Board

Slide this out to install the hard disk or SDRAM module.

4. Power Connector

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

5. SD Card Slots

Remove the cover and install the SD cards. Install the data overwrite security unit, data storage card, or IPDS unit in the upper slot. Install the HDD encryption unit or VM card in the lower slot.

6. Ethernet Port

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

7. USB Port B

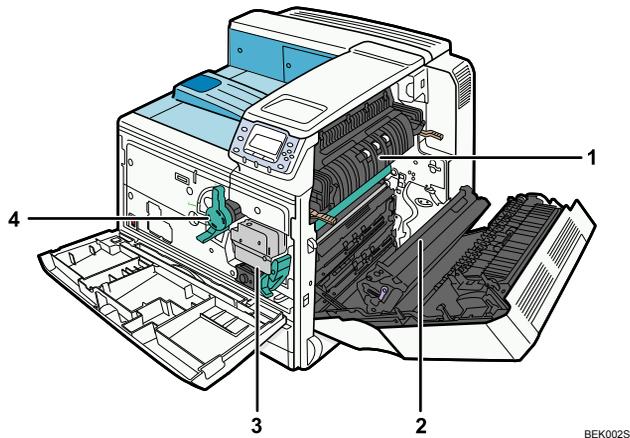
Use a USB cable to connect the printer to a computer.

8. Handle

Hold this handle when you pull out the controller board.

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 Maint. Kit B soon." / "A new kit is required." / "Contact your local vendor."
- "Replace Maintenance Kit B."

The fusing unit is included in Maintenance Kit B.

2. Transfer Unit

Replace the transfer unit when the following messages appear:

- "Replace Maint. Kit B soon." / "A new kit is required." / "Contact your local vendor."
- "Replace Maintenance Kit B."

The transfer unit is included in Maintenance Kit B.

3. Development Unit

Replace the development unit when the following messages appear:

- "Replace Maint. Kit A soon." / "A new kit is required." / "Contact your local vendor."
- "Replace Maintenance Kit A."

The development unit is included in Maintenance Kit A.

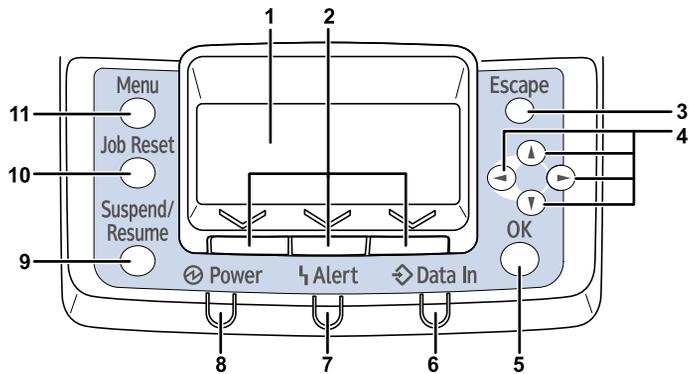
4. Toner

Replace the toner when the following messages appear:

-  Toner is almost empty." / "Contact your local vendor."
-  Add toner"

Control Panel

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



BEK202S

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

Press 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

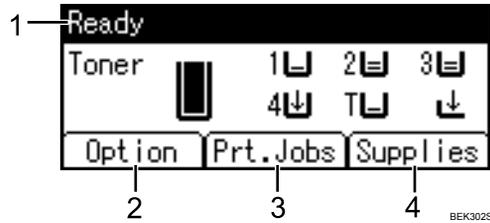
Press this key to configure and check the current printer settings.

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

Display Panel

The display panel shows machine status, error messages, and function menus.

The items are highlighted when selected.



1. Operational Status or Messages

Displays the current printer status or 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. For details, see Software Guide.

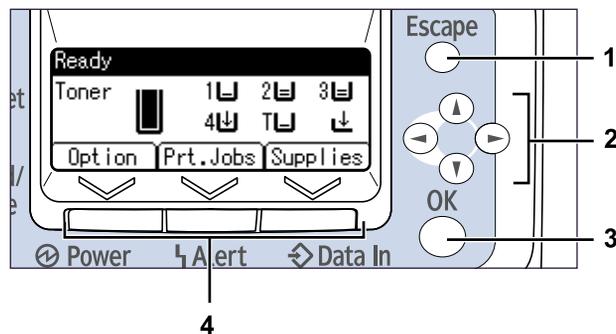
4. [Supplies]

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 and paper in each tray are displayed. You can change this setting by selecting [Maintenance] → [General Settings] → [Display Supply Info] → [Off].
- Adjust the brightness if the screen is dark. To adjust the display contrast, select [Maintenance] → [General Settings] → [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 or 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

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.

2

Order of Option Installation

When installing multiple options, the following order is recommended:

1. 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.

2. Attach the 1200-sheet paper feed unit

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.

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 interface board

Install in the slot of the controller board.

Only one interface board can be installed.

6. 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.

7. Attach the bridge unit

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

8. Attach the 1000-sheet finisher or 2 tray finisher

Either the 1000-sheet 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.

9. Install the punch unit in the 2 tray finisher

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

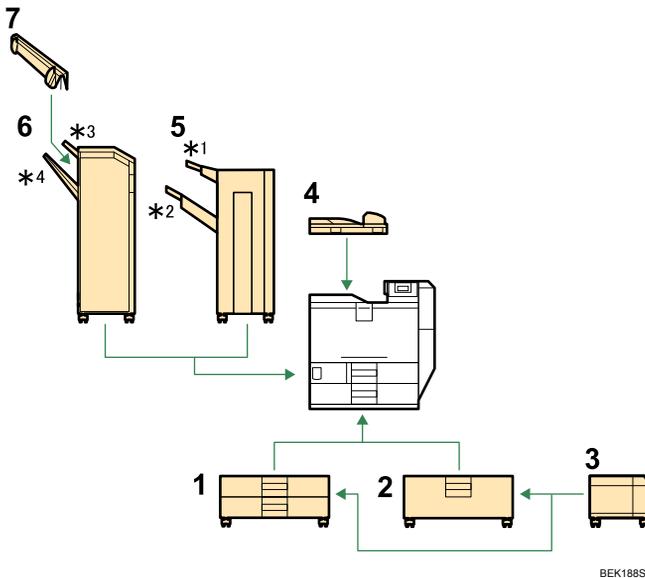
10. Attach the output jogger unit to the 2 tray finisher

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. 1000-sheet paper feed unit
Attach to the underside of the printer. See "Attaching the Paper Fed Unit".
2. 2000-sheet paper feed unit
Attach to the underside of the printer. See "Attaching the Paper Fed Unit".
3. 1200-sheet paper feed unit
Attach to the right side of the 1000-sheet paper feed unit or 2000-sheet paper feed unit.
To attach this option, contact your sales or service representative.
4. Bridge unit
Remove the output tray and attach the bridge unit.

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

5. 1000-sheet finisher

Attach to the left side of the printer.

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

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

6. 2 Tray finisher

Attach to the left side of the printer.

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

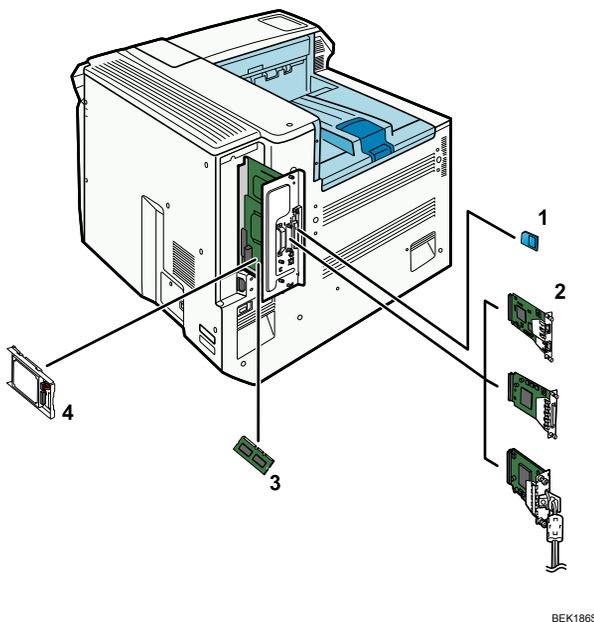
To attach this option, contact your sales or service representative.

7. Output jogger unit

Attach to the 2 tray finisher.

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

Internal options



BEK186S

1. Data overwrite security unit/data storage card/IPDS unit/HDD encryption unit

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, data storage card, or IPDS unit

- Lower slot: HDD encryption unit or VM card

See "Installing SD Card Options".

2. Optional interface board

Only one interface board can be installed.

- Gigabit Ethernet board
- IEEE 1284 interface board
- IEEE 802.11 g interface board
- IEEE 802.11 a/g interface board

See "Installing the Interface Units".

3. SDRAM module

See "Installing the Memory Expansion Units".

4. Hard disk

See "Installing the Memory Expansion Units".

Note

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

Reference

- p.26 "Attaching the Paper Feed Unit"
- p.46 "Installing SD Card Options"
- p.37 "Installing the Interface Units"
- p.30 "Installing the Memory Expansion Units"
- p.206 "Specifications"

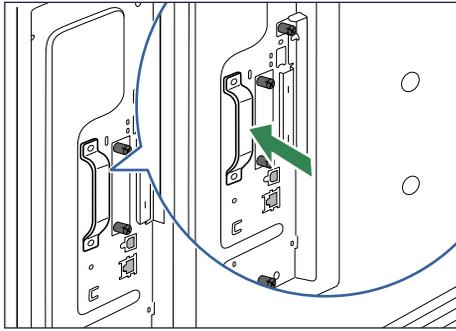
Cautions When Re-installing the Controller Board

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.



Attaching the Paper Feed Unit

This section describes how to attach the 1000-sheet paper feed unit or 2000-sheet paper feed unit to the printer. The procedure is the same for both units. The 1000-sheet paper feed unit is used as an example.

⚠ CAUTION

2

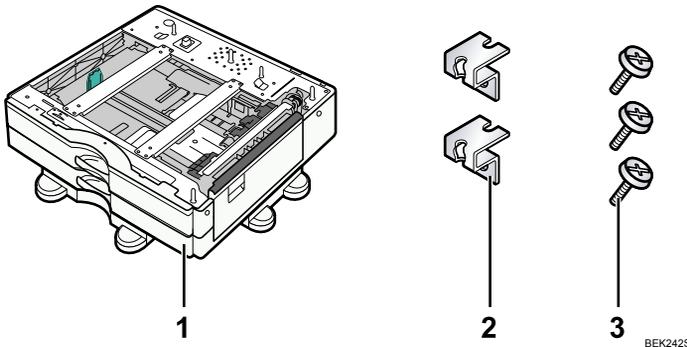
- The printer weights approximately 73 kg (161 lb.).
- Four or more people are required to move the printer. Hold the handles located on both sides, and then lift it slowly. Lifting it carelessly or dropping it may cause an injury.
- It is dangerous to handle the plug with wet hands. Doing this may result in receiving an electric shock.
- Before moving the machine, unplug the power cord from the outlet. If the cord is unplugged abruptly, it could become damaged. Damaged plugs or cords can cause an electrical or fire hazard.

★ Important

- When attaching multiple options, attach the paper feed unit first.
- Either the 1000-sheet paper feed unit or 2000-sheet paper feed unit can be attached, but not both.
- When the 1000-sheet paper feed unit or the 2000-sheet paper feed unit is attached, you can also attach the 1200-sheet paper feed unit. To attach the 1200-sheet paper feed unit, contact your sales or service representative.
- Before using the new paper feed unit, you must configure settings in the printer driver.

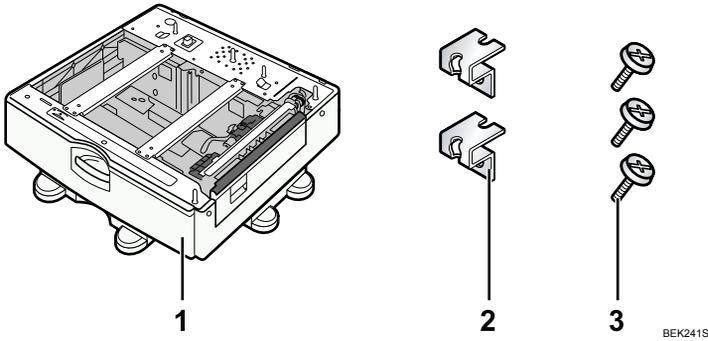
1. Check the contents of the package.

- For 1000-sheet paper feed unit:



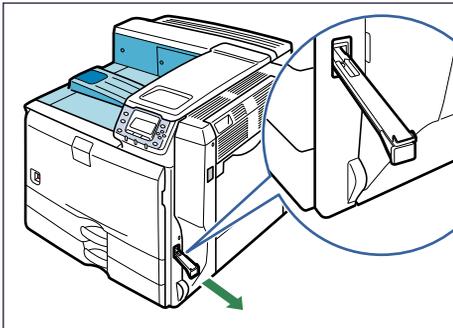
1. 1000-sheet paper feed unit
2. Two Brackets
3. Three Screws

- For 2000-sheet paper feed unit:



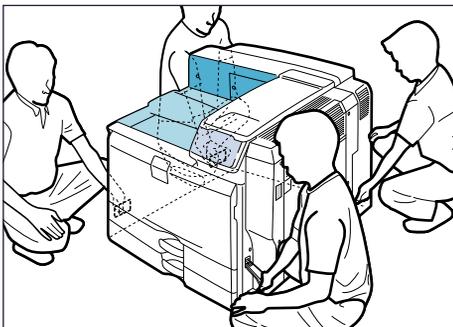
- 1. 2000-sheet paper feed unit
- 2. Two Brackets
- 3. Three Screws

- 2. Turn the printer off and unplug the power cord.
- 3. Remove the packaging from the paper feed unit.
- 4. Pull out the handle from the right side of the printer.



BEK011S

- 5. Lift the printer using the handles on both sides.

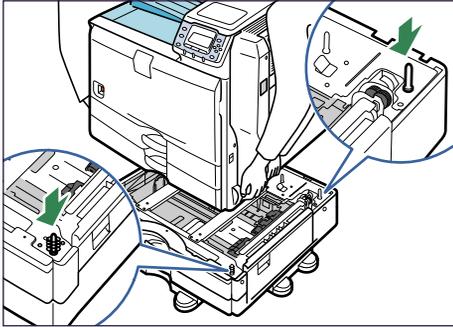


BEK012S

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

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

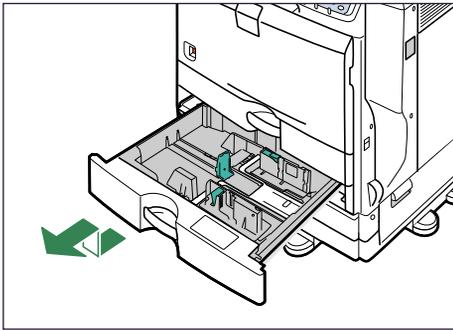
Place it so that it is held firmly in place by the vertical pins.



BEK102S

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

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

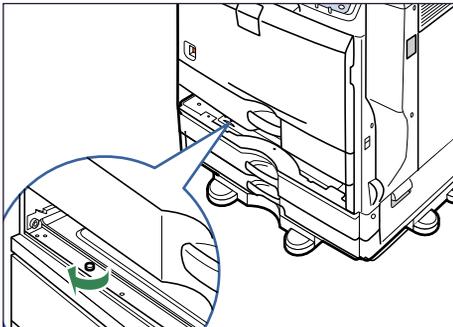


BEK103S

Place the tray on a flat surface.

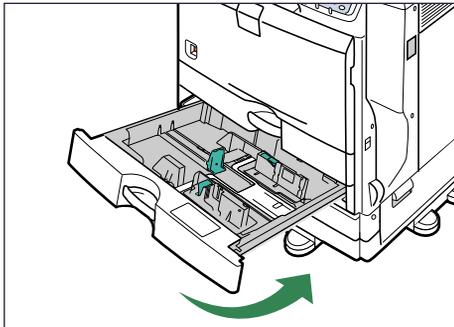
8. Attach a screw in the hole on the left side of the tray opening to secure the printer to the paper feed unit.

Tighten the screw firmly using a coin.



BEK104S

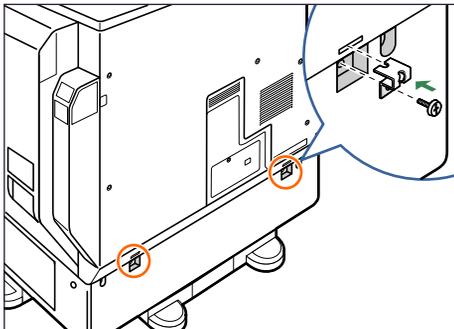
9. Lift the front of the tray, and slide it carefully into the printer until it stops.



BEK105S

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

Tighten the screws firmly using a coin.



BEK106S

11. Plug in the power cord, and then turn on the printer.

12. 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:
 - 1000-sheet paper feed unit: Lower Paper Trays
 - 2000-sheet paper feed unit: Tray 3
- If the optional paper feed unit was not installed properly, repeat the procedure from step 2. If it cannot be installed correctly even after reattempting installation, contact your sales or service representative.
- If the print area is not centered correctly, see "Adjusting Printing Position".
- For information about printing the configuration page, see "Test Printing", Quick Installation Guide.

Reference

- p.147 "Adjusting Printing Position"

Installing the Memory Expansion Units

This section describes how to install the memory expansion units.

2

Installing the SDRAM Module

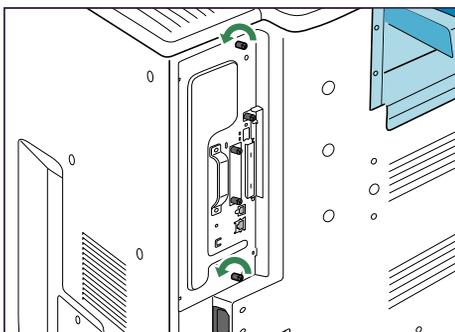
CAUTION

- 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, hard disk, and wireless LAN interface board together, install them in the following order: SDRAM module, hard disk, wireless LAN interface board. If the hard disk or wireless LAN interface board is already installed, remove it before installing the SDRAM module.
- The printer comes equipped with 256 MB of memory. This can be expanded to a maximum of 512 MB.
- Before using the new SDRAM module, you must configure settings in the printer driver.

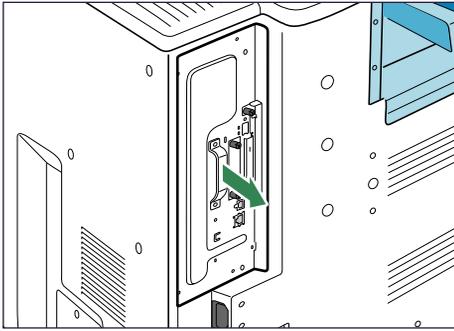
1. Turn the printer off and unplug the power cord.
2. Remove the two screws securing the controller board.



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

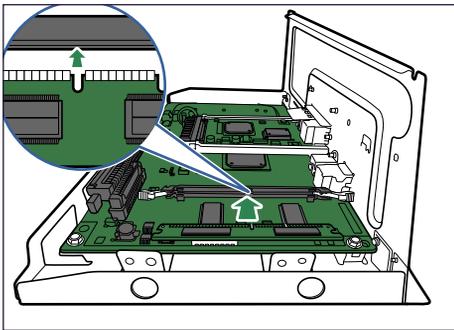
3. Holding the handle, carefully pull out the controller board.

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



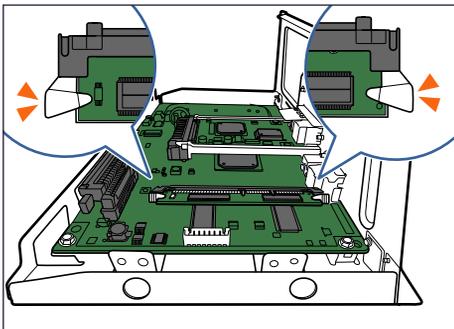
BEK135S

4. Align the notch on the SDRAM module with the slot, and then carefully push in the SDRAM module at an angle.



BEK138S

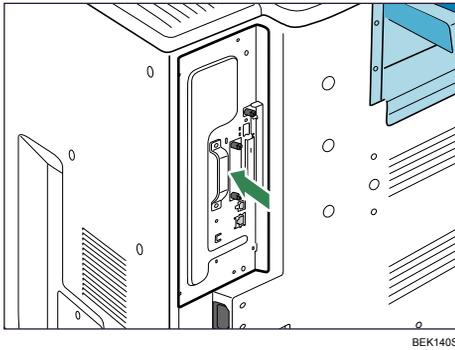
5. Holding the SDRAM module at an angle, press it down until it clicks into place.



BEK139S

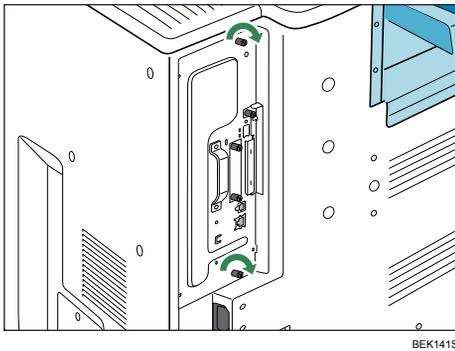
6. When also installing the hard disk, install it before returning the controller board to the printer.

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



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

8. Fasten the controller board to the printer using the two screws.



9. Plug in the power cord, and then turn on the printer.

10. Print the configuration page to confirm that the SDRAM module was installed correctly.

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
256MB	128MB	384MB
256MB	256MB	512MB

- 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 "Test Printing", Quick Installation Guide.

- Install the controller board carefully. For details, see "Cautions When Re-installing the Controller Board".

Reference

- p.24 "Cautions When Re-installing the Controller Board"

Installing the Hard Disk

2

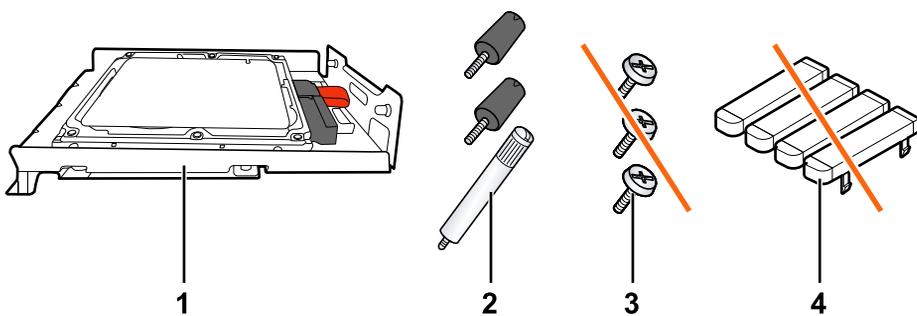
CAUTION

- 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 SDRAM module, hard disk, and wireless LAN interface board together, install them in the following order: SDRAM module, hard disk, 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.

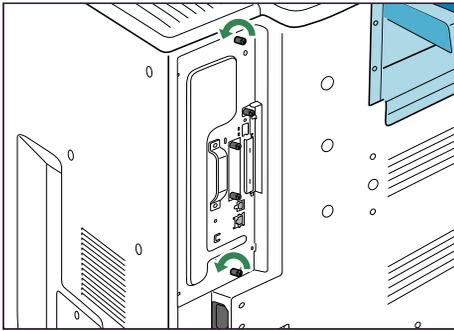


BEK199S

1. Hard Disk
2. Three Screws
3. Screws for Other Models
4. Key Tops

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

3. Remove the two screws securing the controller board.

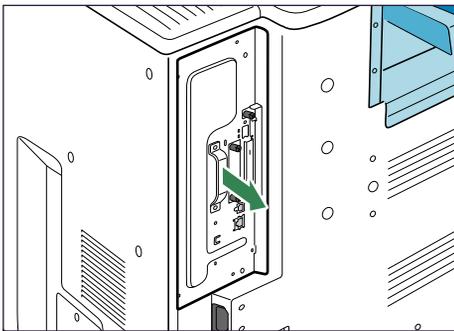


BEK134S

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

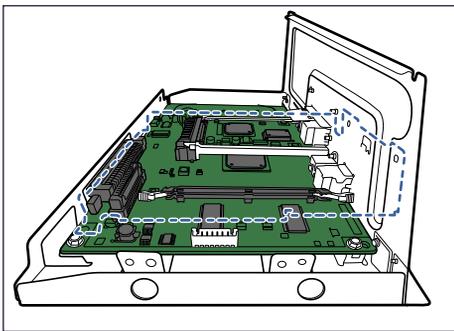
4. Holding the handle, carefully pull out the controller board.

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



BEK135S

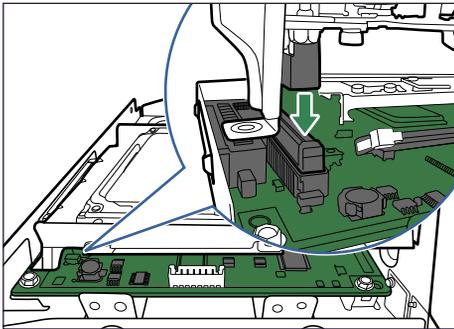
5. Install the hard disk in the indicated position.



BEK022S

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.

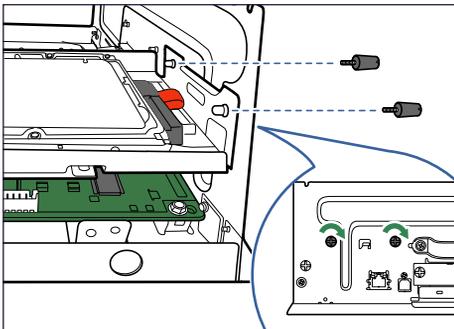
6. Fit the hard disk on the connector of the controller board carefully until it stops.



BEK023S

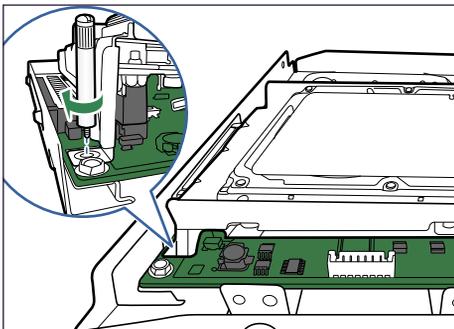
2

7. Fasten the two screws clockwise as shown by using a coin, to secure the hard disk.



BEK024S

8. Fasten the screw clockwise as shown by using a coin, to secure the hard disk.



BEK025S

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



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

10. Fasten the controller board to the printer using the two screws.



11. Plug in the power cord, and then turn on the printer.

When the power is turned on, the hard disk will be formatted automatically.

12. Print the configuration page to confirm that the hard disk was installed correctly.

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 step 2. If it cannot be installed correctly even after reattempting installation, contact your sales or service representative.
- For information on printing the configuration page, see "Test Printing", Quick Installation Guide.
- Install the controller board carefully. For details, see "Cautions When Re-installing the Controller Board".

Reference

- p.24 "Cautions When Re-installing the Controller Board"

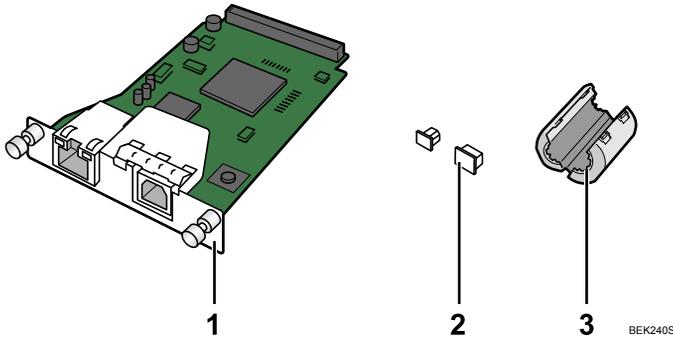
Installing the Interface Units

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 and USB ports are not available when the Gigabit Ethernet board is attached to the printer. Use the Ethernet and USB ports on the Gigabit Ethernet board.

1. Check the contents of the package.

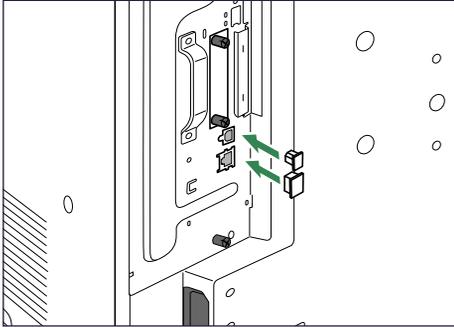


1. Gigabit Ethernet Board
2. Protective Caps (one each for the Ethernet port and the USB port)
3. Ferrite Core

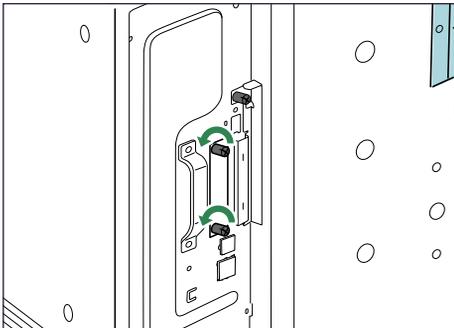
Use the included ferrite core when connecting an Ethernet cable to the board.

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

3. Unplug cables from the USB and Ethernet ports, and then cover them with the protective caps.

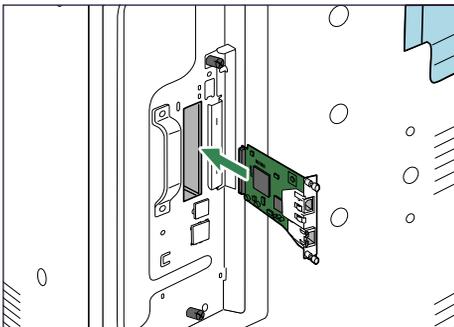


4. Loosen the two screws and remove the slot cover.



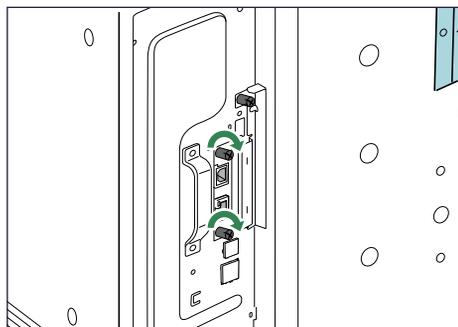
The removed cover will not be reused.

5. Fully insert the Gigabit Ethernet board.



Confirm that the Gigabit Ethernet board is firmly connected to the controller board.

6. Tighten the two screws to secure the board.



7. Plug in the power cord, and then turn on the printer.

8. 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, "Gigabit Ethernet Board" will appear for "Device Connection" on the configuration page.
- If the board was not installed properly, repeat the procedure from step 2. If it cannot be installed correctly even after reattempting installation, contact your sales or service representative.
- For information on printing the configuration page, see "Test Printing", Quick Installation Guide.
- Before using the board, you must configure settings from the control panel. For details, see "Ethernet Configuration".

Reference

- p.55 "Ethernet Configuration"

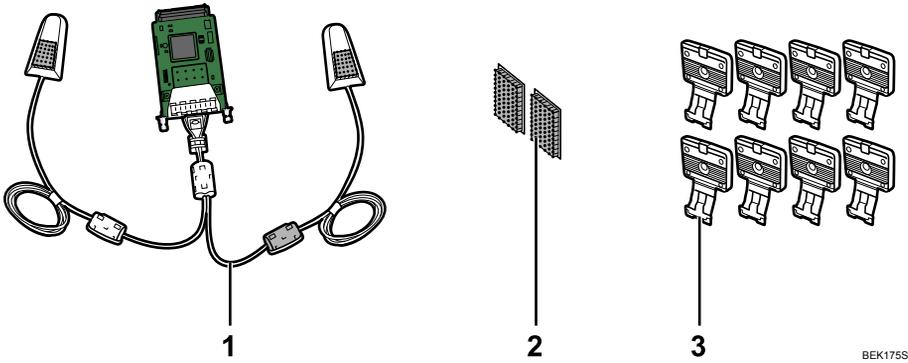
Installing the Wireless LAN Interface Board

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. If the wireless LAN interface board is already installed, remove it before installing the hard disk.

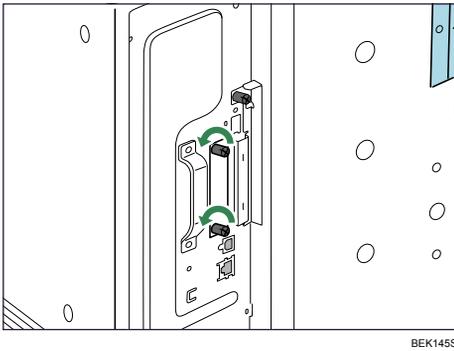
2

1. Check the contents of the package.



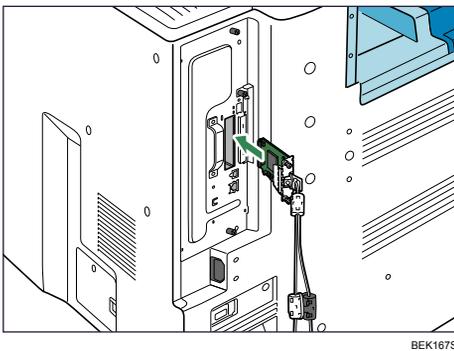
- 1. Wireless LAN Interface Board
- 2. Two Hook-and-loop Fasteners
- 3. Eight Hooks

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



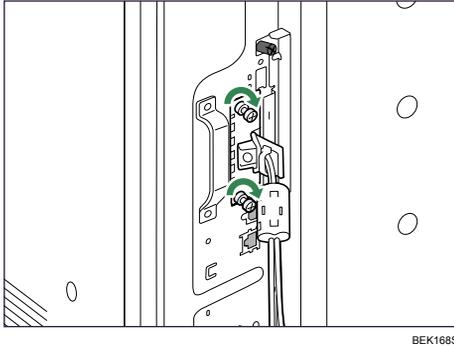
The removed cover will not be reused.

4. Fully insert the interface board.

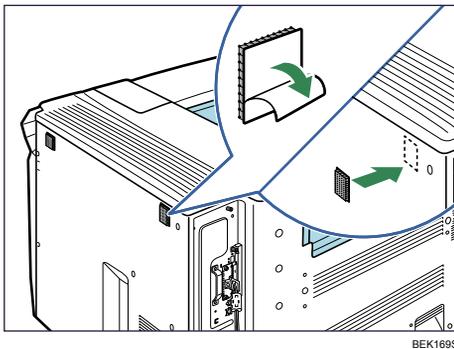


Confirm that the interface board is firmly connected to the controller board.

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

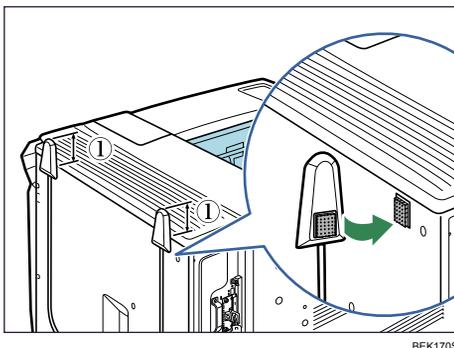


6. Remove protective paper from the hook-and-loop fasteners, and then place them as far away from each other as possible on the upper side of the printer rear.



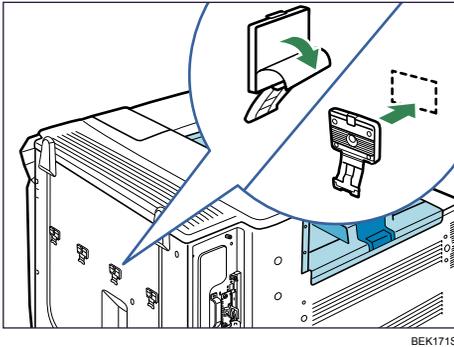
Make sure that the hook-and-loop fasteners are not placed over any screw holes or seams on the printer body.

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.



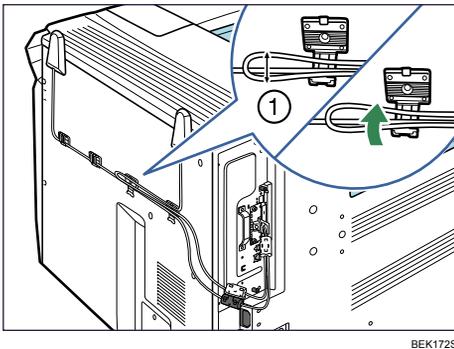
①: The antenna tops must project at least 4 cm (1.6 inches) above the printer body.

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



Extra hooks are spare accessories.

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

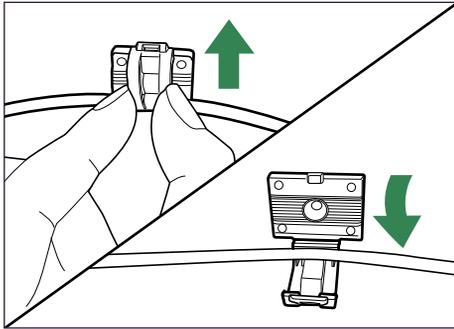


①: The loop must have a diameter of at least 1 cm (0.4inches).

10. Plug in the power cord, and then turn on the printer.
11. 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, "Wireless LAN" will appear for "Device Connection" on the configuration page.
- If the board was not installed properly, repeat the procedure from step 2. If it cannot be installed correctly even after reattempting installation, contact your sales or service representative.
- For information on printing the configuration page, see "Test Printing", Quick Installation 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

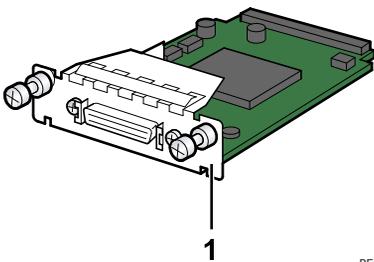
- p.64 "Wireless LAN Configuration"

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.

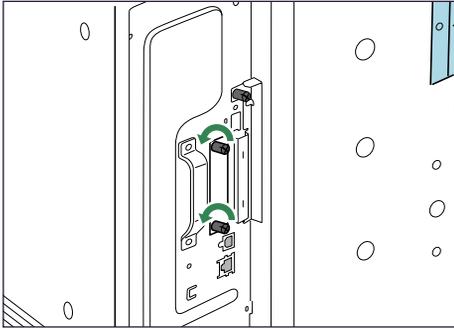
1. Check the contents of the package.



BEK224S

1. IEEE 1284 Interface Board
2. Turn the printer off and unplug the power cord.

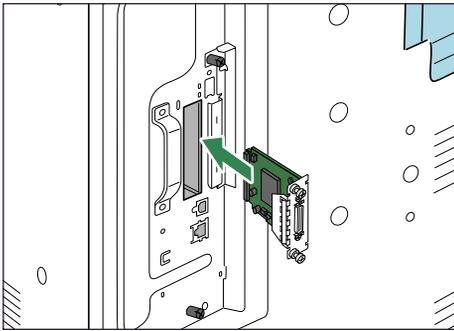
3. Loosen the two screws and remove the slot cover.



BEK145S

The removed cover will not be reused.

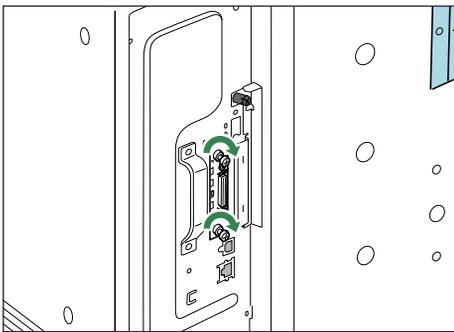
4. Fully insert the IEEE 1284 interface board.



BEK146S

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

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



BEK147S

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 step 2. If it cannot be installed correctly even after reattempting installation, contact your sales or service representative.
- For information on printing the configuration page, see "Test Printing", Quick Installation Guide.

Reference

- p.54 "Parallel Cable Connection"

Installing SD Card Options

This section provides the procedure for installing the following SD cards: a data overwrite security unit, data storage card, IPDS unit, HDD encryption unit, and VM card.

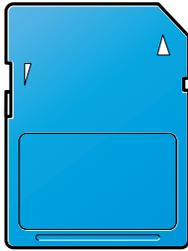
CAUTION

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

Important

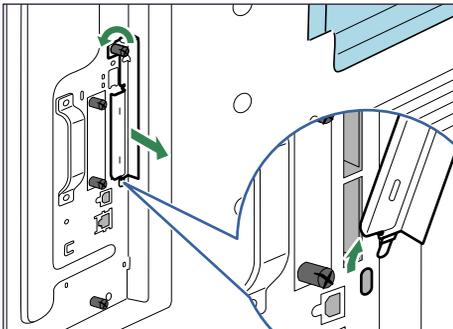
- Do not subject the card to physical shocks.

1. Check the contents of the package.



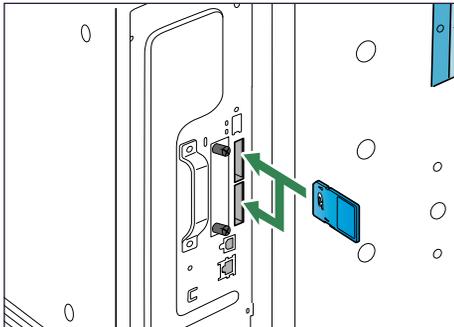
BFL308S

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



BEK107S

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

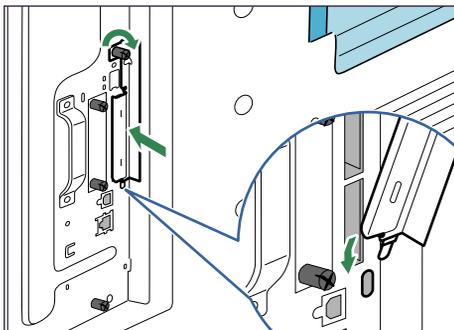


BEK149S

Insert the SD card in the appropriate slot as follows:

- Upper slot: data overwrite security unit, data storage card, or IPDS unit
- 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.



BEK150S

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.
 - IPDS unit: [IPDS Menu] appears in [Print Settings].
 - HDD encryption unit: [Machine Data Encryption] appears in [Security Options].
- 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 "Test Printing", Quick Installation Guide.

3. Connecting the Printer 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

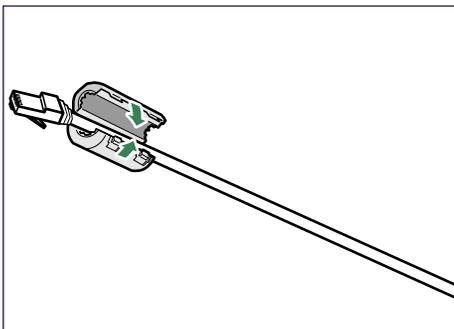
- A network interface cable with a ferrite core must be used for RF interference suppression.
- For users outside the United States of America: properly shielded and grounded cables and connectors must be used for connections to a host computer (and/or peripheral) in order to meet emission limits.
- 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.
- The Ethernet cable must be an Unshielded Twisted Pair cable (UTP) or Shielded Twisted Pair cable (STP), and Category type 5 or more.

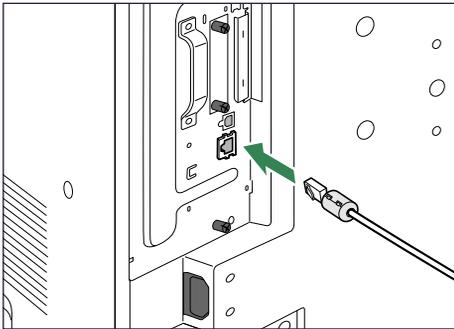
Connecting to the standard Ethernet port

1. Attach the ferrite core supplied with this printer at the printer end of the Ethernet cable.



BEK096S

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



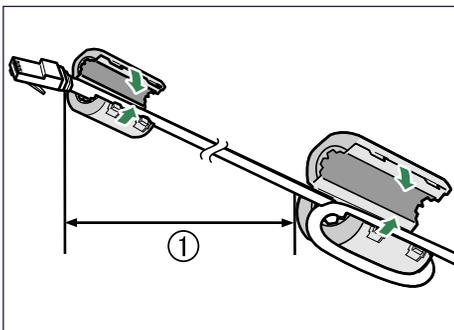
BEK151S

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

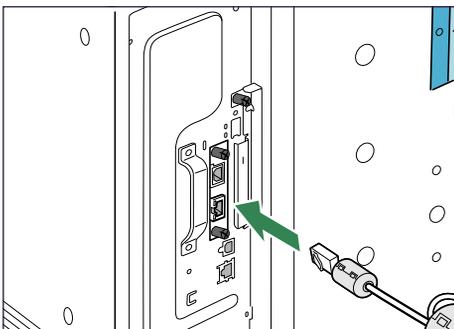
1. Attach the two ferrite cores to the Ethernet cable.

Attach the core supplied with the printer at the printer end of the Ethernet cable. Attach the core supplied with the Gigabit Ethernet board about 10 cm (4 inches) from the connector (①), making a loop as shown.



BEK108S

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



BEK152S

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

↓ Note

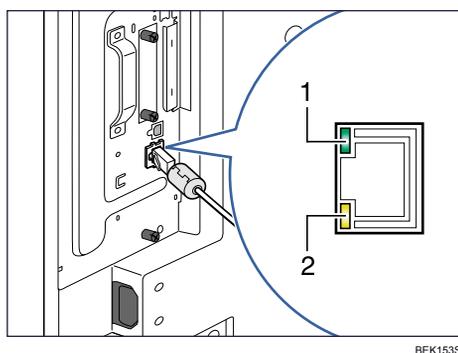
- For details about configuring the network environment, see "Ethernet Configuration".

📖 Reference

- p.37 "Installing the Gigabit Ethernet Board"
- p.55 "Ethernet Configuration"

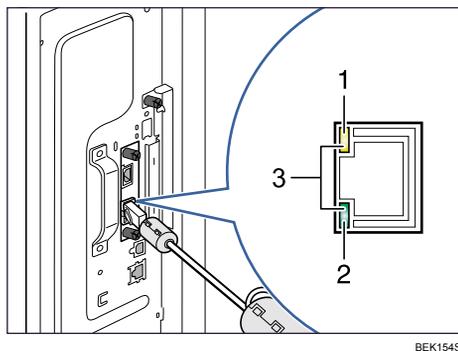
Reading the LED Lamps

Standard Ethernet port



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

Ethernet port of the Gigabit Ethernet board



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

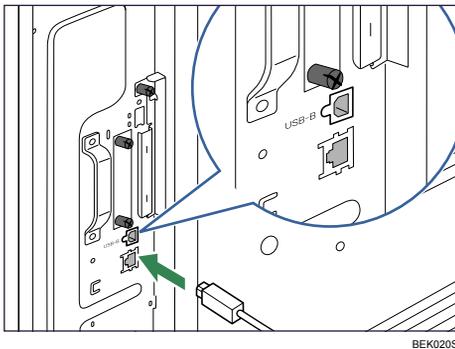
3

★ Important

- USB connection is possible under Windows 2000/XP/ Vista, Windows Server 2003/2003 R2, Mac OS 9.x, and Mac OS X.
- USB connection with Mac OS is only possible via the printer's USB port, not the Gigabit Ethernet board's USB port.
- A USB cable is not supplied with this printer. Select your cable according to the computer.
- The printer's USB port is not available when the Gigabit Ethernet board is attached to the printer.

Connecting to the standard USB port

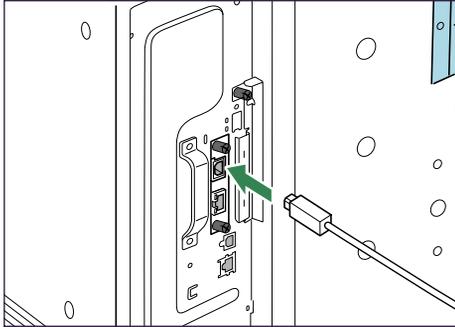
1. Connect the square-shaped connector of the USB cable to USB port B on the left side of the printer.



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

Connecting to the USB port of the Gigabit Ethernet board

1. Connect the square-shaped connector of the USB cable to the USB port of the Gigabit Ethernet board.



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

↓ Note

- "Installing the Printer Driver Using USB", Software Guide

📖 Reference

- p.37 "Installing the Gigabit Ethernet Board"

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.

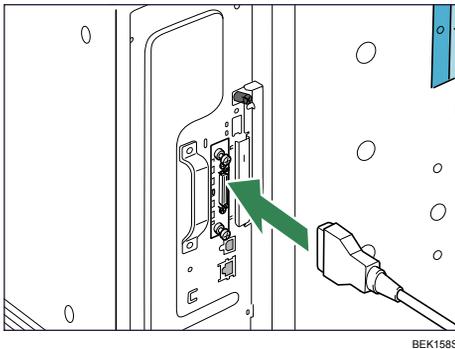
⚠ CAUTION

- 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.



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.43 "Installing the IEEE 1284 Interface Board"

4. Configuration

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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• IPv4: Active• IPv6: Inactive• NetWare: Active• SMB: Active• Apple Talk: Active
Ethernet Speed	Auto Select
LAN Type	Ethernet

↓ Note

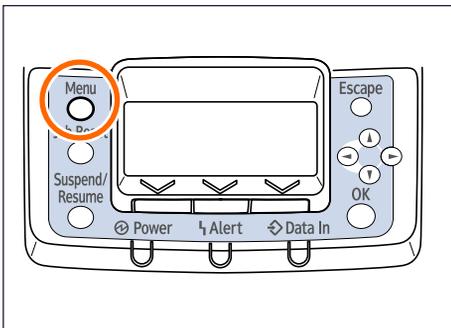
- If DHCP is in use on your network, the IP address, subnet mask, and gateway address are all set automatically.
- If the printer is already placed on a TCP/IP-capable environment, you can also use SmartDeviceMonitor for Admin or a Web browser to configure IP address-related settings.

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.

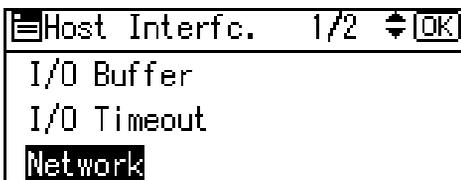


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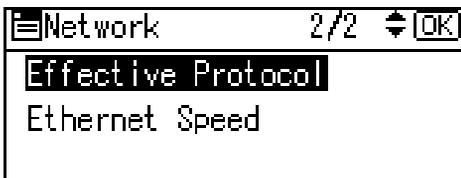
2. Press the [▼] or [▲] key to select [Host Interface], and then press the [OK] key.



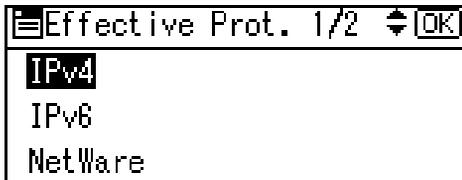
3. Press the [▼] or [▲] to select [Network], and then press the [OK] key.



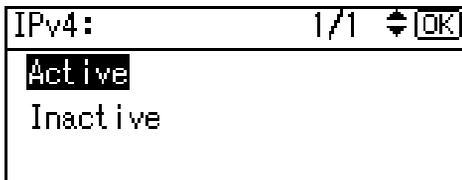
4. Press the [▼] or [▲] key to select [Effective Protocol], and then press the [OK] key.



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.

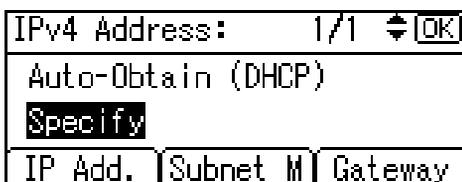
- Select [Inactive] for unused protocols.
- Enable IPv4 to use the pure IPv4 environment of NetWare5/5.1, Netware 6/6.5.

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].



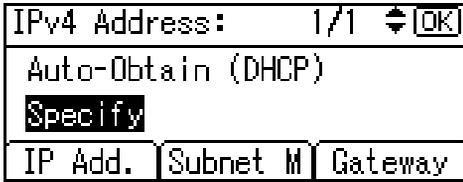
If you use IPv4, also assign the subnet mask and gateway address. To assign these, press [Subnet M] or [Gateway].

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 “Test printing”, Quick Installation Guide.

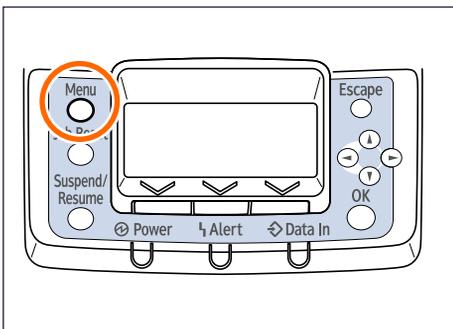
Receiving an IP Address Automatically (DHCP)

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.

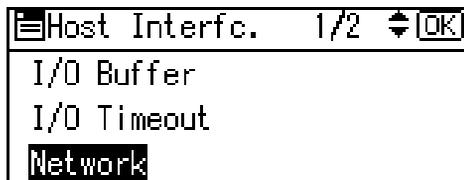


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- Press the [▼] or [▲] key to select [Host Interface], and then press the [OK] key.



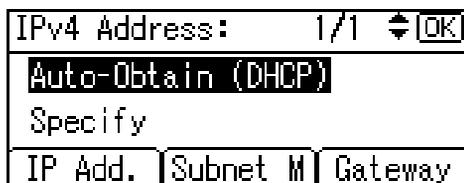
- Press the [▼] or [▲] key to select [Network], and then press the [OK] key.



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



- 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

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

↓ Note

- For details about printing the configuration page, see “Test printing”, Quick Installation Guide.

Configuring Network Settings When Using NetWare

If you use NetWare, select the appropriate NetWare frame type.

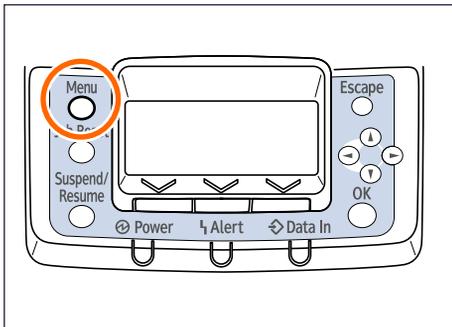
Select one of the items below as necessary.

- 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.

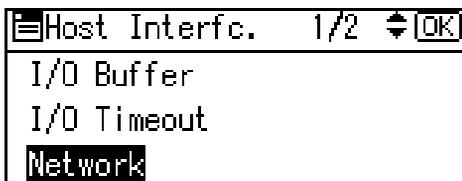


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2. Press the [▼] or [▲] key to select [Host Interface], and then press the [OK] key.



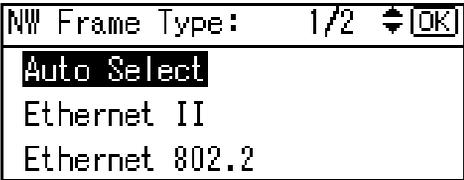
3. Press the [▼] or [▲] key to select [Network], and then press the [OK] key.



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 "Test printing", Quick Installation 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.

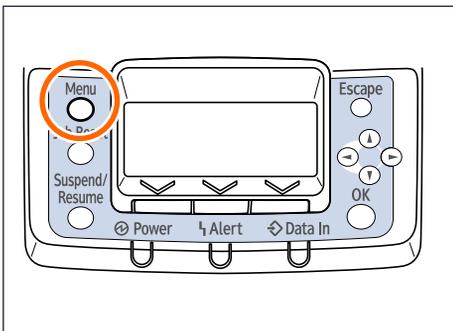
Router/HUB	Printer				
	[10Mbps Half D.]	[10Mbps Full D.]	[100Mbps Half D.]	[100Mbps Full D.]	[Auto Select]
10 Mbps half duplex	○	-	-	-	○
10 Mbps full duplex	-	○	-	-	-
100 Mbps half duplex	-	-	○	-	○
100 Mbps full duplex	-	-	-	○	-

Router/HUB	Printer				
	[10Mbps Half D.]	[10Mbps Full D.]	[100Mbps Half D.]	[100Mbps Full D.]	[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].

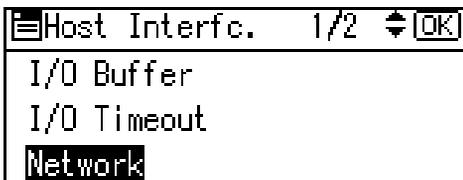
1. Press the [Menu] key.



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



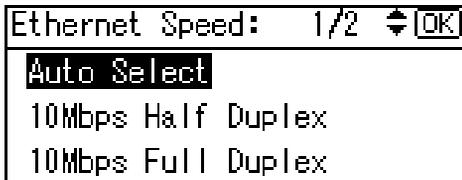
3. Press the [▼] or [▲] key to select [Network], and then press the [OK] key.



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 "Test Printing", Quick Installation Guide.

Wireless LAN Configuration

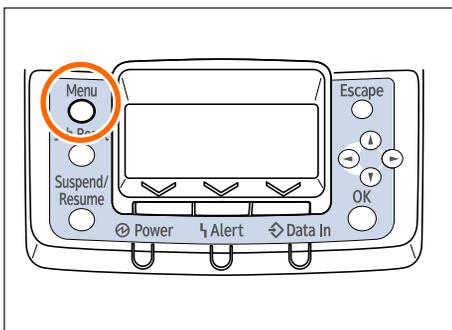
Configure the following wireless LAN settings according to the network environment using the control panel.

★ 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
Ad-hoc Channel	<ul style="list-style-type: none"> • When using the IEEE 802.11a/g Interface Board: 36 • When using the IEEE 802.11g Interface Board: 11
Communication Speed	Auto
SSID Setting	blank
Security Method	None

1. Press the [Menu] key.



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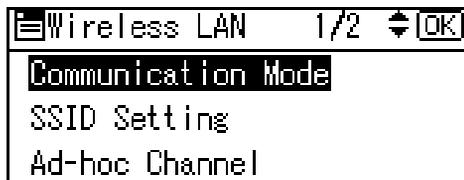
2. Press the [▼] or [▲] key to select [Host Interface], and then press the [OK] key.



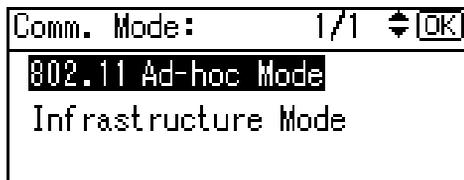
3. Press the [▼] or [▲] key to select [Wireless LAN], and then press the [OK] key.



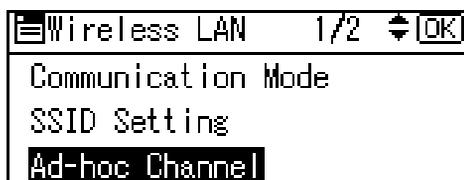
4. Press the [▼] or [▲] key to select [Communication Mode], and then press the [OK] key.



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.

Ad-hoc Channel : 1/1					[OK]
1	2	3	4	5	
6	7	8	9	10	
11	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 “Test Printing”, Quick Installation Guide.

📖 Reference

- p.55 "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.

Wireless LAN		1/2	[OK]
Communication Mode			
SSID Setting			
Ad-hoc Channel			

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 "Test Printing", Quick Installation Guide.

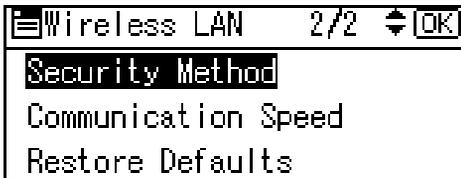
Setting Security Method of Wireless LAN

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 "Test Printing", Quick Installation Guide.

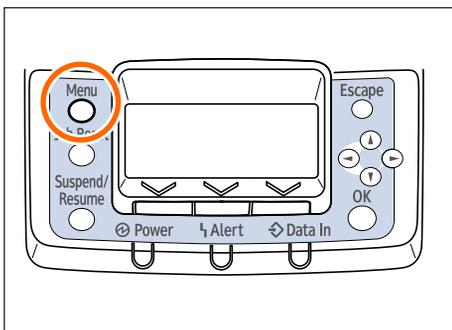
Setting WPA

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.

★ Important

- For setting WPA, installing the optional HDD or the optional Data Storage Card is required.

1. Press the [Menu] key.

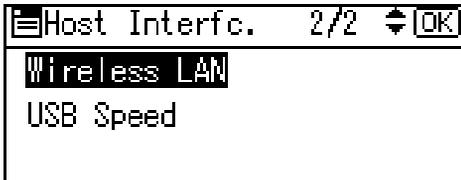


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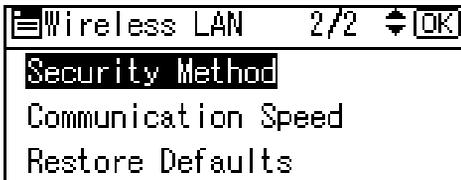
2. Press the [▲] or [▼] key to select [Host Interface], and then press the [OK] key.



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



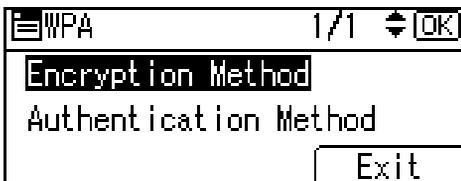
4. Press the [▲] or [▼] key to select [Security Method], and then press the [OK] key.



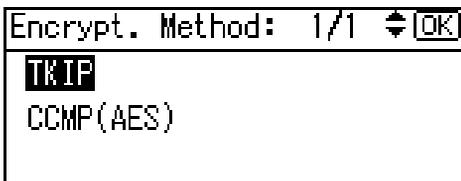
5. Press the [▲] or [▼] key to select [WPA], and then press [Details].



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.



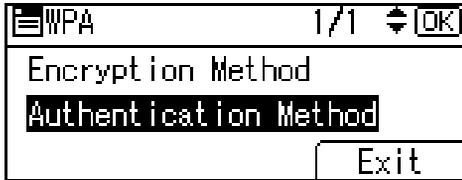
Consult your network administrator for information about making encryption settings.

Encryption settings are as follows:

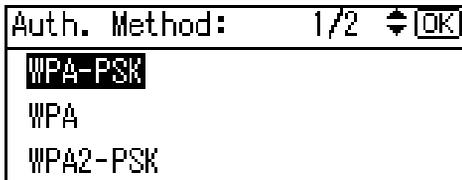
- [TKIP]
 - Uses the same algorithm as RC4, but further reduces vulnerability using methods such as key mixing.
- [CCMP(AES)]
 - Increases security using AES (Advanced Encryption Standard).

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.

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



Wait for two seconds. The display returns to the [Auth. 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 “Test Printing”, Quick Installation Guide.

Configuring WPA/WPA2

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

WPA/WPA2 can be configured using Web Image Monitor's administrator mode. You can select four types of EAP authentication method: EAP-TLS, LEAP, EAPTTLS and PEAP. Note that each EAP authentication method has different configuration settings and authentication procedures.

Types and requirements of certificates are as follows:

If a certificate is required, configure all settings after installing the certificate.

EAP Types Requiring a "Site Certificate"

EAP-TLS, EAP-TTLS, PEAP (Necessary except LEAP)

EAP Types Requiring a "Site Certificate" and a "Device Certificate"

EAP-TLS, PEAP (Phase 2 is for TLS only)

★ Important

- To set WPA/WPA2, you must enable SSL.
- To set WPA/WPA2, 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, consult 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 1] or [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 1] or [Certificate 2] on "Device Certificate" window, and then click [Install].
If you have selected [Certificate 1] in step 6, click [Certificate 1] in this step. If you have selected [Certificate 2] in step 6, click [Certificate 2] in this step.
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 1] or [Certificate 2] on "Certification", and then click [OK].
If you have selected [Certificate 1] in step 6, click [Certificate 1] in this step. If you have selected [Certificate 2] in step 6, click [Certificate 2] in this step.
18. Click [Logout].
19. Quit the Web browser.

↓ Note

- 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. In "User Name", enter the user name set in the RADIUS server.
11. Enter the domain name in "Domain Name".
12. Select "EAP Type". Configurations differ according to the EAP Type.

EAP-TLS

- Make the following settings according to the operating system you are using:
 - Select the client certificate you want to use in "WPA Client Certificate".
 - Select [On] or [Off] in "Authenticate Server Certificate".
 - Select [On] or [Off] in "Trust Intermediate Certificate Authority".
 - Enter the host name of the RADIUS server on "Server ID".
 - Select [On] or [Off] in "Permit Sub-domain".

LEAP

- Click [Change] in "Password", and then enter the password set in the RADIUS server.

EAP-TTLS

- Click [Change] in "Password", and then enter the password set in the RADIUS server.

- Click [Change] in “Phase 2 User Name”, and then enter the user name set in the RADIUS server.
- Select [CHAP], [MSCHAP], [MSCHAPv2], [PAP], or [MD5] in “Phase 2 Method”.
- Certain methods might not be available, depending on the RADIUS server you want to use.
- Make the following settings according to the operating system you are using:
 - Select [On] or [Off] in “Authenticate Server Certificate”.
 - Select [On] or [Off] in “Trust Intermediate Certificate Authority”.
 - Enter the host name of the RADIUS server in “Server ID”.
 - Select [On] or [Off] in “Permit Sub-domain”.

PEAP

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- Select [MSCHAPv2] or [TLS] in “Phase 2 Method”.
- When you select [TLS], select the client certificate you want to use in “WPA Client Certificate”.
- When you select [MSCHAPv2],
 - click [Change] in “Password”, and then enter the password set in the RADIUS server.
 - click [Change] on “Phase 2 User Name”, and then enter the user name set in the RADIUS server.
- Make the following settings according to the operating system you are using:
 - Select [On] or [Off] in “Authenticate Server Certificate”.
 - Select [On] or [Off] in “Trust Intermediate Certificate Authority”.
 - Enter the host name of the RADIUS server on “Server ID”.
 - Select [On] or [Off] in “Permit Sub-domain”.

13. Click [OK].

14. Click [Logout].

15. 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 “IEEE802.11 a” 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

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.

Note

- "□" and "▢" indicate paper feeding directions: □ indicates short-edge feed direction, and ▢ indicates long-edge feed direction.
- Be careful of the paper feed direction when loading paper. The direction is determined for each paper size.

500-sheet Paper Trays

	Metric version	Imperial version
Paper sizes selected automatically	A3□, A4□□, A5□, B5 JIS□□, 8 1/2" × 11" (Letter)□	11" × 17"□, 8 1/2" × 14" (Legal)□, 8 1/2" × 11" (Letter)□□, A5□, B5 JIS□
Paper sizes requiring manual setting	B4 JIS□, 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)□□ Custom size: 182 to 297 mm in width, 148 to 432 mm in length	8 1/2" × 13" (Foolscap)□, 8 1/4" × 13" (Folio)□, 8" × 13" (F/GL)□, 7 1/4" × 10 1/2" (Executive)□□, A3□, A4□, A5□, B4 JIS□ Custom size: 7.17" to 11.69" in width, 5.83" to 17.00" in length

Note

- When using paper whose sizes are not automatically selected, select the paper size manually using the control panel. See "Loading Paper".

Reference

- p.89 "Loading Paper"

2000-sheet Paper Feed Unit

Metric version	Imperial version
A4	8 1/2" × 11" (Letter)

Note

- The paper tray guides are fixed. 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.

1200-sheet Paper Feed Unit

Metric version	Imperial version
A4	8 1/2" × 11" (Letter)

Note

- The paper tray guides are fixed. However, you can switch the setting between A4, 8 1/2" × 11" (Letter), and B5 JIS. If you wish to use a paper size other than the default, contact your sales or service representative.

Bypass Tray

	Metric version	Imperial version
Paper sizes selected automatically	A3, A4, A5	11" × 17" (Letter), 8 1/2" × 11" (Letter), 5 1/2" × 8 1/2" (Half Letter)
Paper sizes requiring manual setting	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), 4 1/8" × 9 1/2", 3 7/8" ×	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), 4 1/8" × 9 1/2", 3 7/8" × 7 1/2", C5 Env., C6 Env., DL Env., A3, A4, A5, A6, B5 JIS, B4 JIS, B6 JIS

	Metric version	Imperial version
	$7\frac{1}{2}$ "  , C5 Env.  , C6 Env.  , DL Env.  Custom size: 90 to 305 mm in width, 148 to 600 mm in length	Custom size: 3.55" to 12.00" in width, 5.83" to 23.62" in length

↓ 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.
- When using paper whose sizes are not automatically selected, select the paper size manually using the control panel. See "Loading Paper".

📖 Reference

- p.89 "Loading Paper"

Paper Weight and Capacity

Tray	Supported paper weight	Supported capacity (Plain paper)
Tray 1	60 to 216 g/m ² (16 to 57 lb.)	550 sheets (80 g/m ² , 20 lb.)
Tray 2	60 to 216 g/m ² (16 to 57 lb.)	550 sheets (80 g/m ² , 20 lb.)
1000-sheet paper feed unit	60 to 216 g/m ² (16 to 57 lb.)	550 sheets × 2 (80 g/m ² , 20 lb.)
2000-sheet paper feed unit	60 to 216 g/m ² (16 to 57 lb.)	1000 sheets × 2 (80 g/m ² , 20 lb.)
1200-sheet paper feed unit	60 to 216 g/m ² (16 to 57 lb.)	1200 sheet (80 g/m ² , 20 lb.)
Bypass tray	52 to 216 g/m ² (14 to 57 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.

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Types of Paper and Other Media

This section describes the types of paper and required settings.

Plain paper

Paper thickness	60 to 81 g/m ² (14 to 21 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	<ul style="list-style-type: none"> • Tray 1, 2: 550 • Tray 3: 550 (1000-sheet paper feed unit) or 2000 (2000-sheet paper feed unit) • Tray 4: 550 • LCT: 1200 • 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

Middle Thick

Paper thickness	82 to 105g/m ² (21 to 28lb.)
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	<ul style="list-style-type: none"> • Tray 1, 2: 550 • Tray 3: 550 (1000-sheet paper feed unit) or 2000 (2000-sheet paper feed unit) • Tray 4: 550 • LCT: 1200 • Bypass tray: 100 <p>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.</p>
Duplex printing	Supported

5

Thick paper

Paper thickness	<p>106 to 216 g/m² (28 to 58 lb.)</p> <ul style="list-style-type: none"> • [Thick Paper 1]: 106 to 160 g/m² (28 to 45 lb.) • [Thick Paper 2]: 161 to 216 g/m² (45 to 57 lb.) • [Thick Paper 3]: 161 to 216 g/m² (45 to 57 lb.)
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Printer setup	Select [Paper Input] → [Paper Type: (tray name)] → [Thick Paper 1]. Select [Paper Input] → [Paper Type: Bypass Tray] → [Thick Paper 2] to [Thick Paper 3]
Printer driver setup	Select [Thick Paper 1] to [Thick Paper 3] in [Paper Type].
Supported paper feeding tray	[Thick Paper 1]: Any input tray can be used. [Thick Paper 2] and [Thick Paper 3]: Bypass tray
Paper capacity	<ul style="list-style-type: none"> Bypass tray: 40 for [Thick Paper 1], 20 for [Thick Paper 2] and [Thick Paper 3] <p>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.</p>
Duplex printing	<ul style="list-style-type: none"> [Thick Paper 1]: Supported [Thick Paper 2,] [Thick Paper 3]: Not supported
Additional cautions	<ul style="list-style-type: none"> Print speed is slightly slower than when using plain paper. When printing on the reverse side of thick paper that is already printed on, select [Paper Type: (tray name)] → [Thick 1: Dup.Back 1] to [Thick 1: Dup.Back3] using control panel or printer driver.

Thin paper

Paper thickness	52 to 60 g/m ² (14 to 16lb.)
Printer setup	Select [Paper Input] → [Paper Type: (tray name)] → [Thin Paper].
Printer driver setup	Select [Thin Paper] 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

OHP transparencies

Printer setup	Select [Paper Input] → [Paper Type: Bypass Tray] → [OHP transparencies].
Printer driver setup	Select [OHP transparencies] 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	<ul style="list-style-type: none"> • 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.

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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	<ul style="list-style-type: none"> • Paper tray: When loading paper vertically, make sure to set its header to the back; when horizontally, make sure to set its header to the left. • Bypass tray: When loading paper vertically, make sure to set its header to the back; when horizontally, make sure to set its header to the right.

Label paper

Printer setup	Select [Paper Input] → [Paper Type: Bypass Tray] → [Labels].
Printer driver setup	Select [Label Paper] in [Paper Type].
Supported paper feeding tray	Bypass tray
Paper capacity	1
Duplex printing	Not supported
Label paper setup	Default: [Labels 1] If the print quality needs to be improved, select [Maintenance] → [General Settings] → [Labels]

	→ [Labels 1] to [Labels 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	<ul style="list-style-type: none"> • 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.

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 Paper 1] to [Special Paper 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

5

Envelopes

Printer setup	Select [Paper Input] → [Paper Type: Bypass Tray] → [Envelope].
Printer driver setup	Select [Envelope Settings] 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
Envelope setup	<p>Default: [Envelope 1]</p> <p>If the print quality needs to be improved, select a paper type that is appropriate for the thickness of the envelope you are using. Select [Maintenance] → [General Settings] → [Envelope] → [Envelope 1] to [Envelope 3].</p> <p>High numbered settings allow thicker paper to be used, but are printed more slowly.</p>
Additional cautions	<ul style="list-style-type: none"> • 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.89 "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

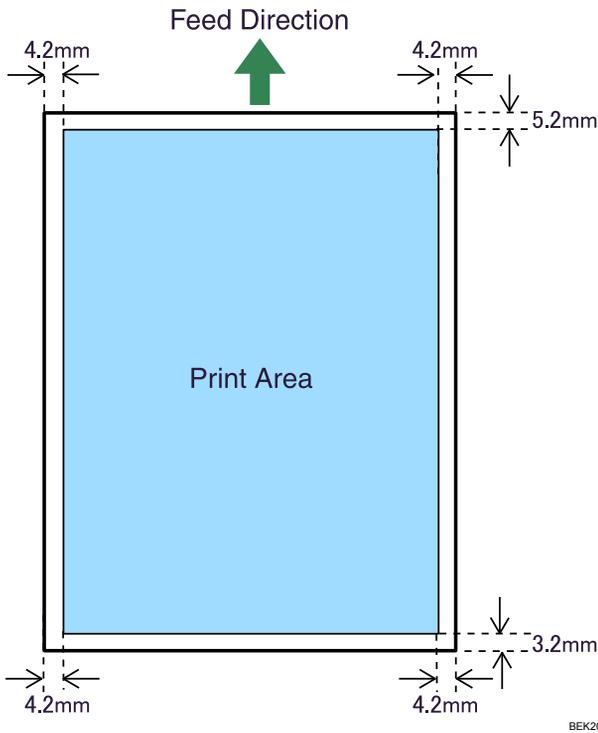
- Even if paper is adequate for the printer, poorly stored paper can cause paper misfeeds, print quality degradation, or malfunctions.

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



BEK207S

↓ 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 600 mm (23.62 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.

500-sheet Paper Feed Trays

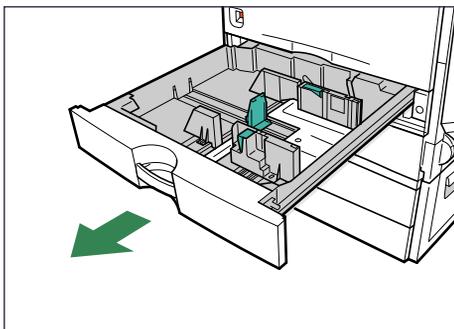
The following example explains how to load paper into paper trays, and how to change paper size.

The same procedure can be used for all trays. Tray 1 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.

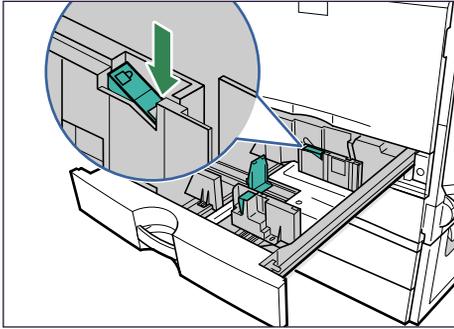
1. Carefully pull out the paper tray until it stops.



BEK246S

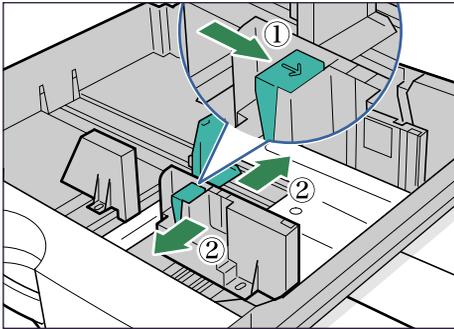
When printing using the bypass tray, do not pull out the paper tray.

2. Unlock the side guides.



BEK097S

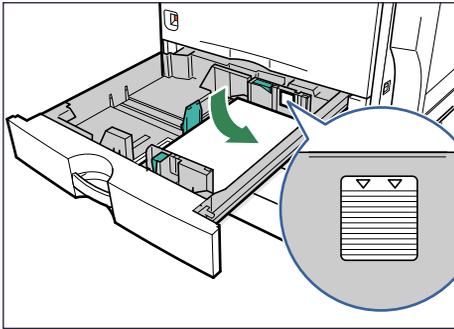
3. Pinch the clip on the side guide (1), and match the guides to the paper size (2).



BEK001S

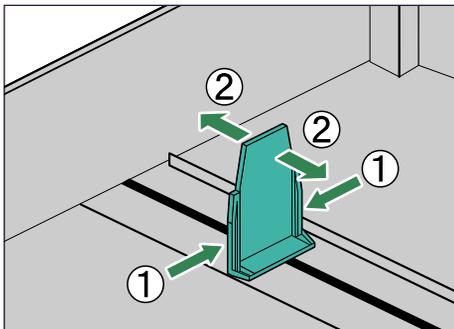
4. Align and load paper in the tray with the print side up.

You can load up to 550 sheets in each tray.



BEK098S

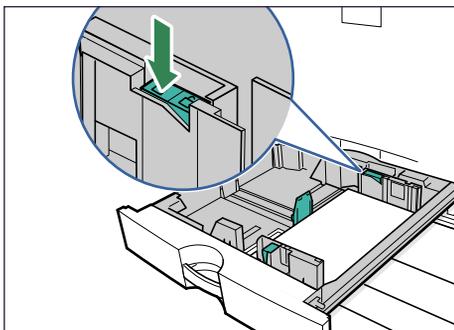
5. Pinch the clips on the end guide (①), and match the guide to the paper size (②).



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.



BEK099S

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

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

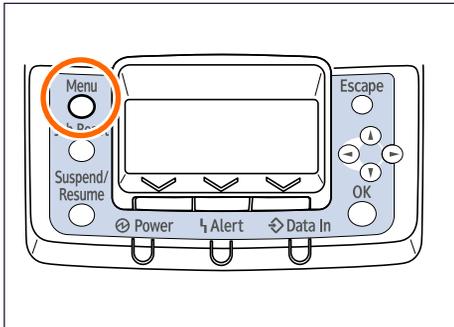
Reference

- For details about types of paper supported by this printer, see p.77 "Supported Paper for Each Tray".

Setting paper size not selected automatically

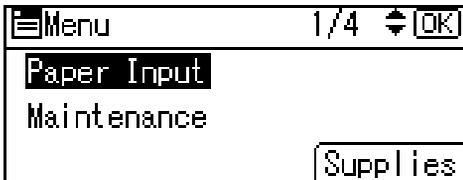
Set the paper size using the control panel when loading paper whose size cannot be selected automatically.

1. Press the [Menu] key.



BEK204S

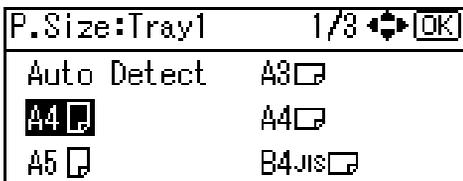
2. Press the [▼] or [▲] key to select [Paper Input], and then press the [OK] key.



3. Press the [▼] or [▲] key to select [Paper Size:(tray name)], and then press the [OK] key. For example, [Paper Size: Tray 1] is selected for Tray 1 as shown.



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



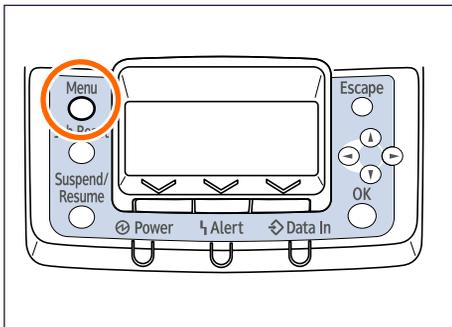
About two seconds later, the display returns to the [Paper Input] screen.

5. Press the [Menu] key.

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

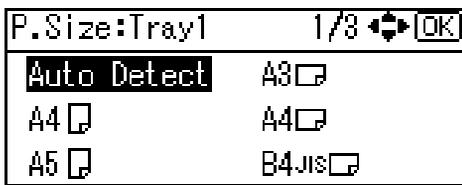
If you want to return the settings to [Auto Detect], load paper into the paper tray and follow the procedure below.

6. Press the [Menu] key.



BEK204S

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 1], 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.

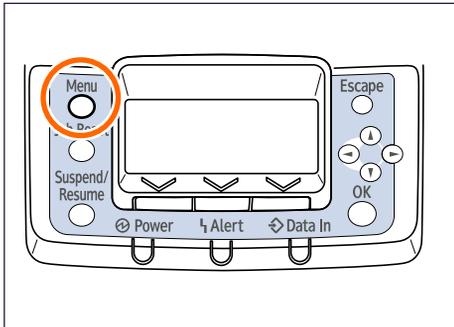
Setting custom size paper

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.

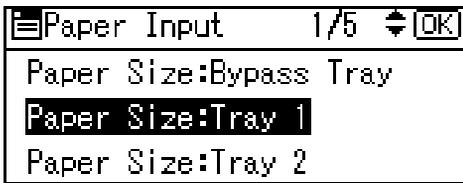


BEK204S

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



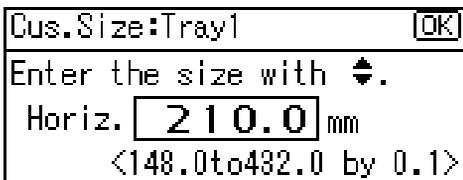
3. Press the [▼] or [▲] key to select [Paper Size: (tray name)], and then press the [OK] key. For example, [Paper Size: Tray 1] is selected for Tray 1 as shown.



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

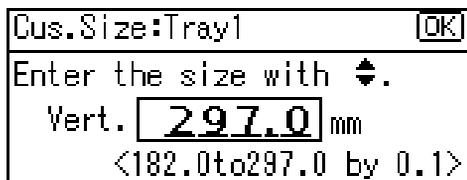


5. Press the [▼] or [▲] key to enter the horizontal value, and then press the [OK] key.



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.

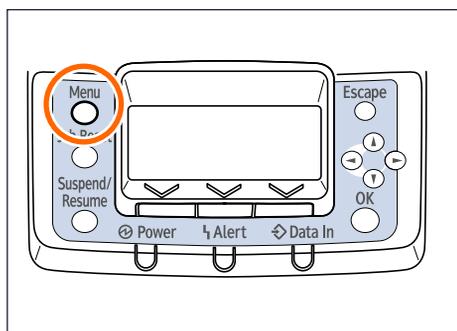
The settings appear and about two seconds later, the display returns to the [Paper Input] screen.

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.



BEK204S

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 1], 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.

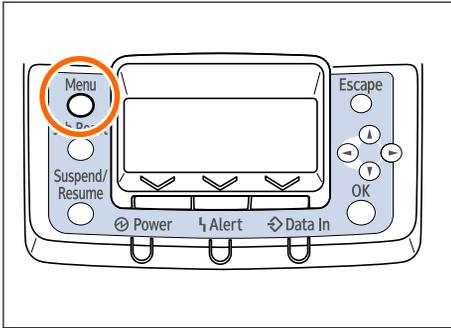
12. Press the [Menu] key.

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.



BEK204S

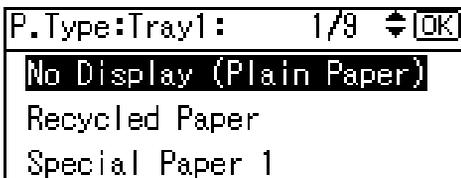
2. Press the [▼] or [▲] key to select [Paper Input], and then press the [OK] key.



3. Press the [▼] or [▲] key to select [Paper Type: (tray name)], and then press the [OK] key. For example, [Paper Type: Tray 1] is selected for Tray 1 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, thick paper ([Thick Paper 2], [Thick Paper 3]), the reverse side of thick paper ([Thick 2:Dup.Back], [Thick 3:Dup.Back]).

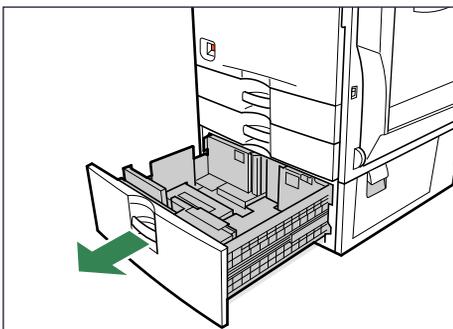
2000-sheet Paper Feed Unit

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.

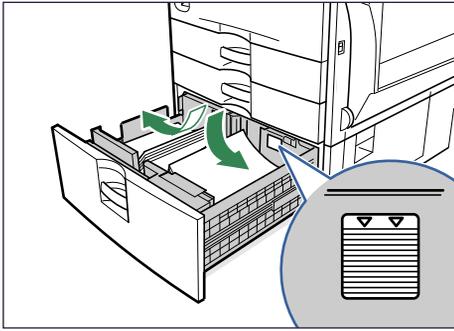


BEK247S

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.



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

Reference

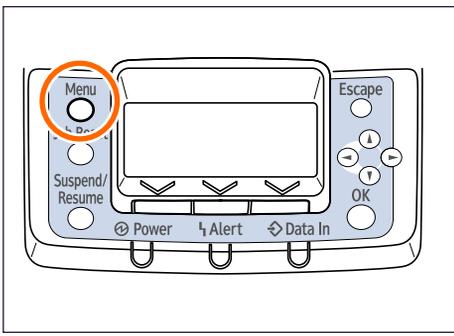
- For details about types of paper supported by this printer, see p.77 "Supported Paper for Each Tray".

5

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.



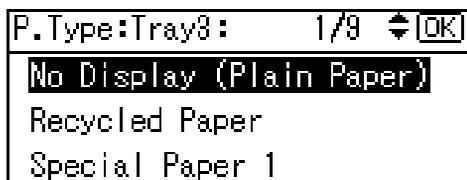
2. Press the [▼] or [▲] key to select [Paper Input], and then press the [OK] key.



3. Press the [▼] or [▲] key to select [Paper Type: Tray 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: labels, thin paper, cardstock, thick paper ([Thick Paper 2], [Thick Paper 3]), the reverse side of thick paper ([Thick 2:Dup.Back], [Thick 3:Dup.Back]).

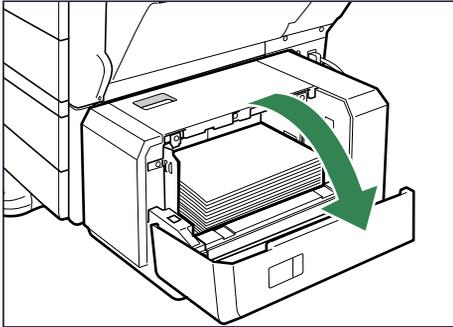
1200-sheet Paper Feed Unit

This section describes how to load paper into the 1200-sheet paper feed unit (LCT).

★ Important

- Align the paper stacks and load them against the left and right walls, or a paper misfeed might occur.
- The tray can hold up to 1,200 sheets of paper. Do not stack paper over the limit mark.
- 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, 8 1/2 × 11 (Letter), or B5 JIS. If you wish to use a paper size other than the default, contact your sales or service representative.

1. Open the top cover of the 1200-sheet paper feed unit.

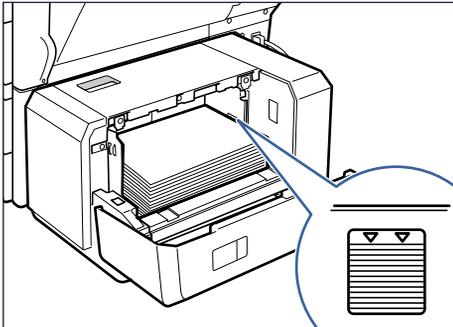


BEK260S

2. Align and load paper in the tray along the edge on the back with the print side down.

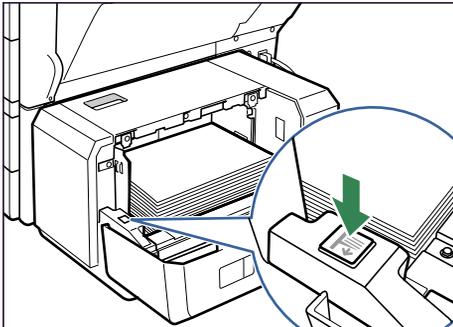
You can load up to 1200 sheets in the tray.

5



BEK187S

3. Press the [Down] key to lower the paper stack down.



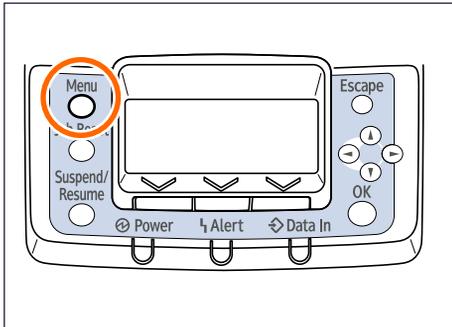
BEK261S

4. Load paper by repeating steps 2 and 3.
5. Close the cover of the 1200-sheet paper feed unit.

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.



BEK204S

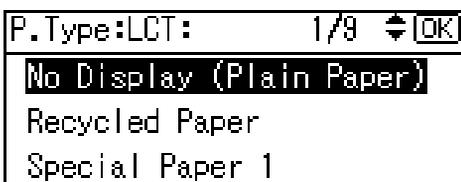
2. Press the [▼] or [▲] key to select [Paper Input], and then press the [OK] key.



3. Press the [▼] or [▲] key to select [Paper Type: LCT], 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: labels, thin paper, cardstock, thick paper ([Thick Paper 2], [Thick Paper 3]), the reverse side of thick paper ([Thick 2:Dup.Back], [Thick 3:Dup.Back]).

Bypass Tray

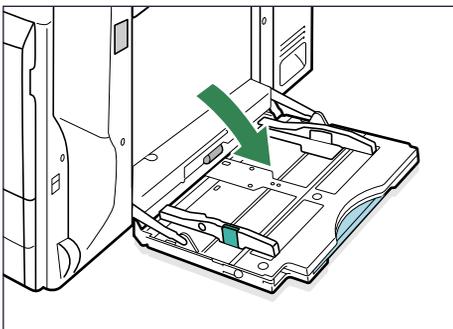
This section explains how to load paper into the bypass tray and change paper size.

Loading standard size paper

★ Important

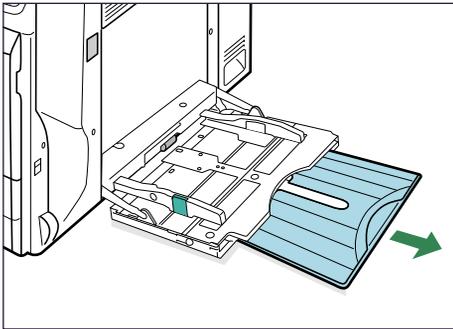
- Shuffle paper before loading the stack onto the tray, so multiple sheets are not fed in together.
- Set the size and direction of the loaded paper on the control panel or with the printer driver. Make sure the settings do not conflict. Otherwise, the paper may jam or the print quality may be affected.
- 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.



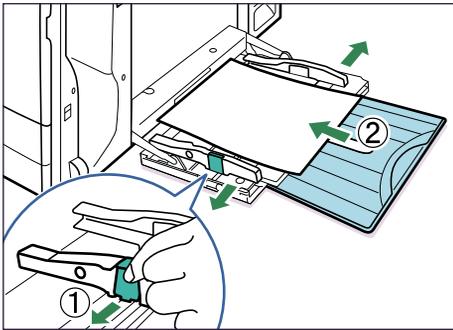
BEK013S

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



BEK014S

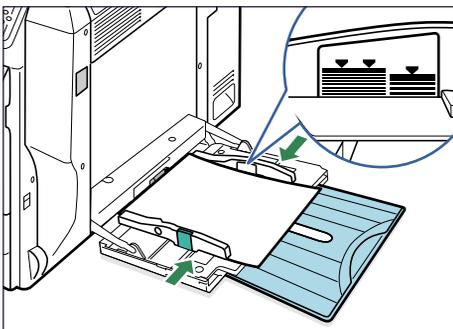
3. Slide the side guides outward (1), and then load paper with the print side down (2), flush against the printer.



BEK015S

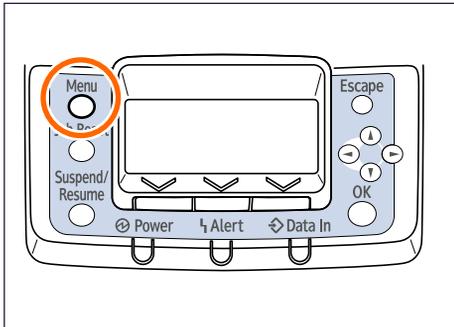
4. Adjust the side guides to fit the paper width.

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.

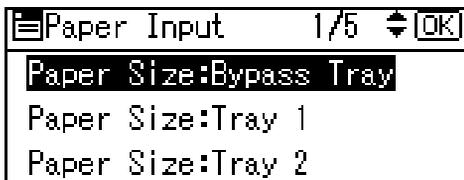


BEK204S

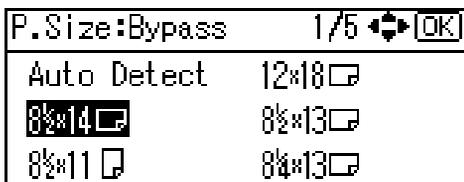
6. Press the [▼] or [▲] key to select [Paper Input], and then press the [OK] key.



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

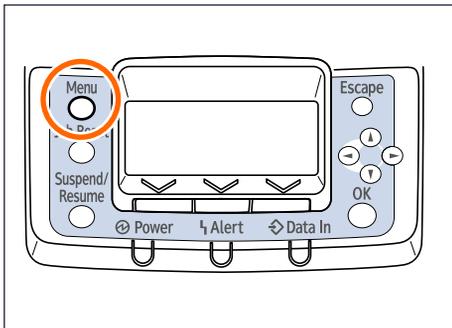
- Make sure paper is not stacked higher than the paper guides inside the bypass tray.
- Be sure to select the appropriate paper type when you load labels, thick paper, envelopes, or OHP transparencies in the bypass tray.

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 600 mm (5.83 to 23.62 inches) in length.
- The printer cannot print to custom size paper from applications that do not support custom size paper.

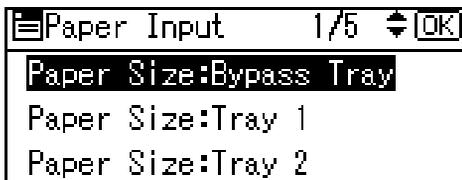
1. Press the [Menu] key.



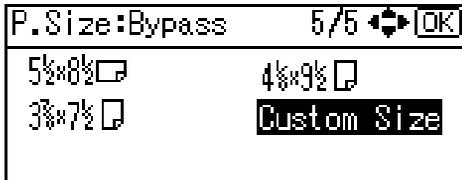
2. Press the [▼] or [▲] key to select [Paper Input], and then press the [OK] key.



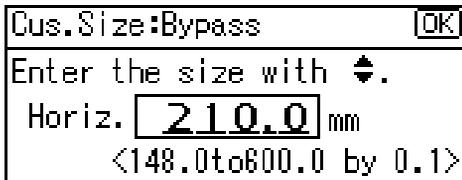
3. Press the [▼] or [▲] key to select [Paper Size: Bypass Tray,] and then press the [OK] key.



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

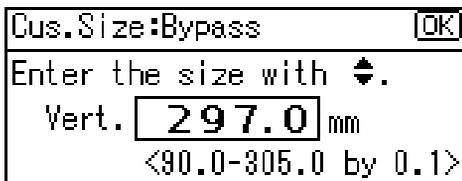


5. Press the [▼] or [▲] key to enter the horizontal value, and then press the [OK] key.



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.

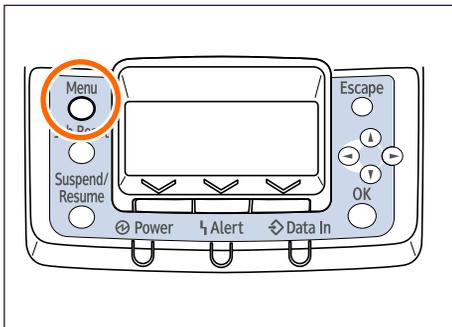
Specifying a paper type

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

★ Important

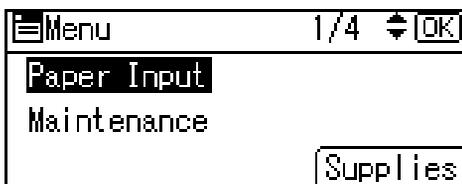
- Be sure to select the appropriate paper type when you load labels, thick paper, envelopes, or OHP transparencies in the bypass tray.
- The paper type selected using the printer driver overrides that selected using the control panel.

1. Press the [Menu] key.



BEK204S

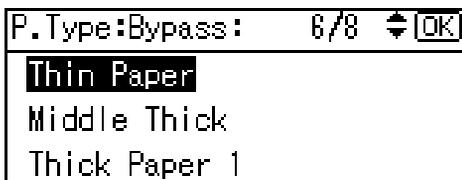
2. Press the [▼] or [▲] key to select [Paper Input], and then press the [OK] key.



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.

6. Replacing 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.

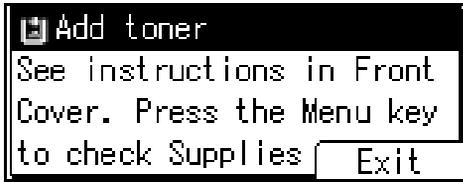
CAUTION

- 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.**

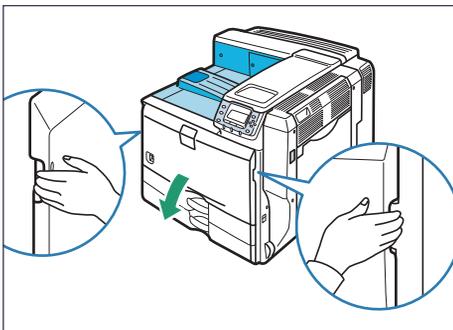
Replace the toner when the following message appears on the display:



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

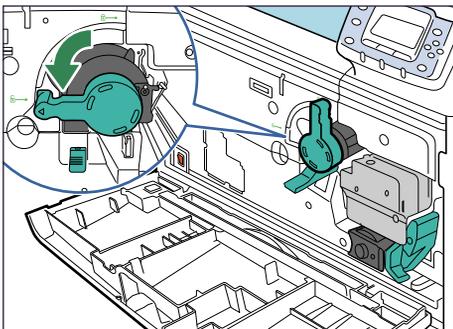


1. Holding the left and right side grips, carefully open the front cover.



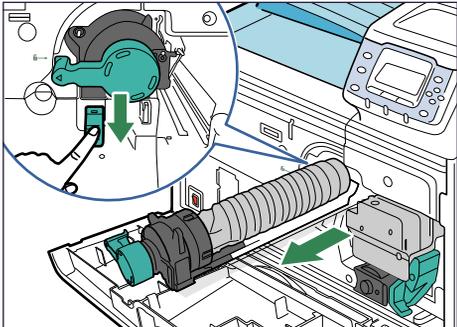
BEK003S

2. Turn the green handle counterclockwise until it clicks into place.

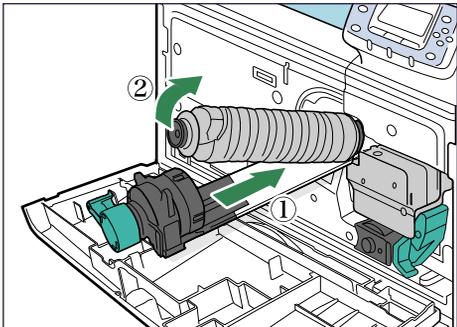


BEK004S

- 3. Pushing the green locking lever down, pull out the toner holder carefully by the handle until it stops.



- 4. Slide the toner slightly towards the printer, raise its top, and then take it out of the holder carefully.

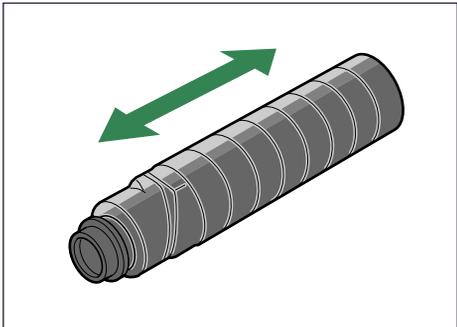


Do not shake the removed toner. Any remaining toner may leak.

Pull the toner out carefully to prevent leakage.

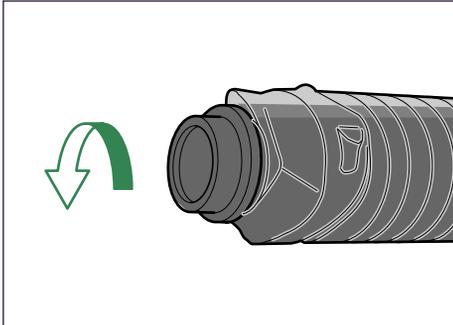
Place the used toner on paper or some other material to avoid dirtying your workspace.

- 5. Take the new toner out of the box.
- 6. Shake the new toner back and forth five or six times.



Even distribution of toner improves print quality.

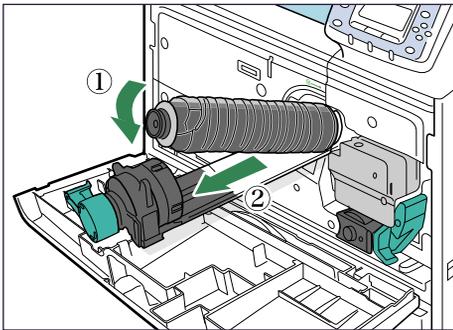
- 7. Remove the black cap of the new toner by turning it counterclockwise.**



BEK010S

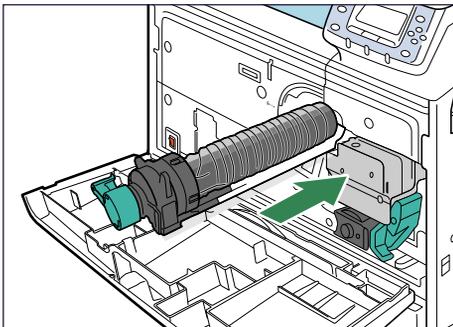
Do not shake or jar the toner after removing the black cap as toner can scatter easily.

- 8. Put the toner onto the toner holder in angle (1), place it flat on the toner holder, and then slide it towards you to secure it in place (2).**



BEK008S

- 9. Push the toner holder back in carefully until it clicks into place.**

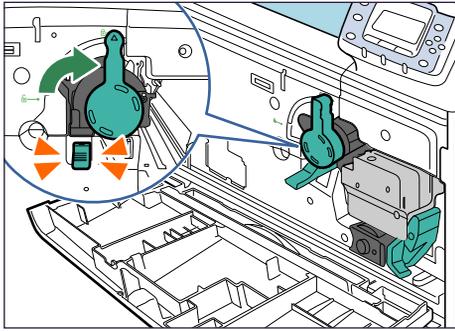


BEK007S

Do not push in and remove the holder repeatedly. Doing so results in toner leak.

- 10. Turn the green handle clockwise until it clicks into place.**

Confirm that the holder is secured with the green locking lever.



11. Carefully close the front cover.

Wait until "Please wait." disappears from the display.

Replacing Maintenance Kit A

Replacing the Development Unit

⚠ WARNING

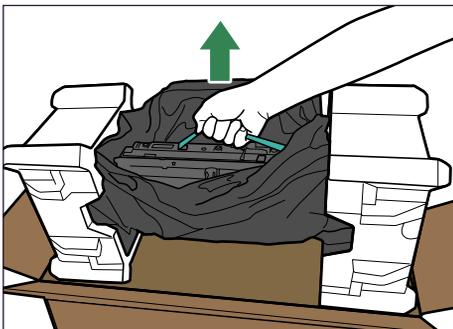
- Do not incinerate the development unit. Toner dust might ignite when exposed to an open flame. Dispose of the used development unit in accordance with local regulations.

⚠ CAUTION

- Wait at least one hour after power off before replacing parts. Not allowing the printer to cool may result in burns.
- 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

- When taking the development unit out of the box, be sure to hold the unit by the handle on the top of the unit. Do not touch any parts of the development unit.



BEK040S

- Exposure to light reduces development unit performance. Replace the unit as quickly as possible.
- Do not pull out the development unit quickly or with force as it may fall.
- Take care that nothing comes into contact with the photo conductor area of the development unit.
- Place no objects on the front or inner cover.

Replace the Maintenance Kit A when the following message appears on the display:

```
Replace Maintenance Kit A.  
Open the Duplex Unit to  
replace. Press the Menu key  
to check supplies.
```

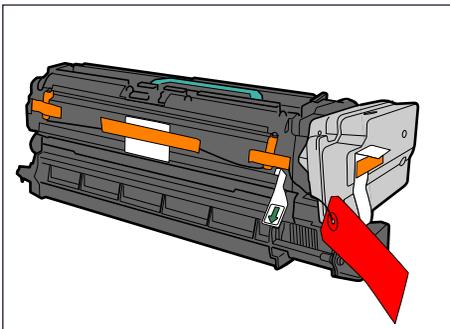
When the following message appears on the display, the Maintenance Kit A should be replaced soon. Prepare a new Maintenance Kit A.



The box contains the following parts. Confirm that the contents of the box match the following lists. Check the contents of the box before replacing Maintenance Kit A.

Maintenance Kit SP 8200 A

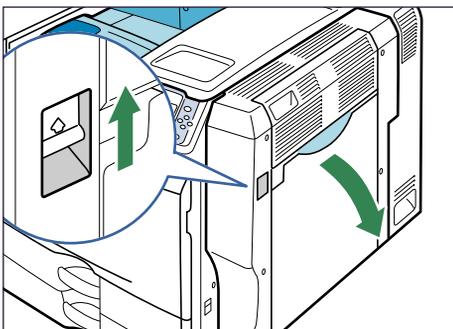
- Replacement Guide
- Leaflet about Unpacking the Development Unit
- Development Unit



BEK179S

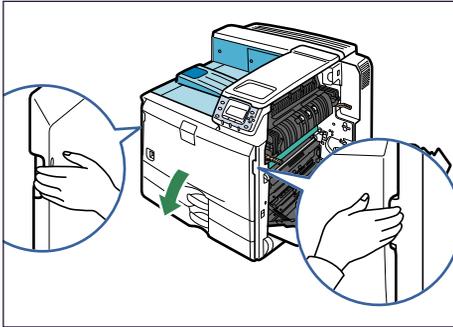
- Disposal Bag
For packing the used development unit

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.



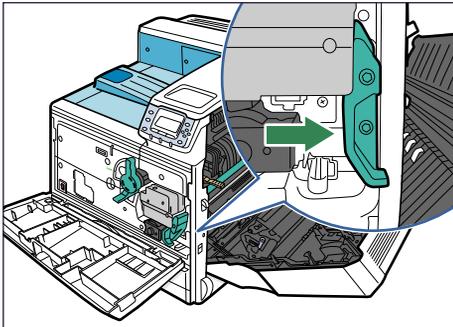
BEK198S

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



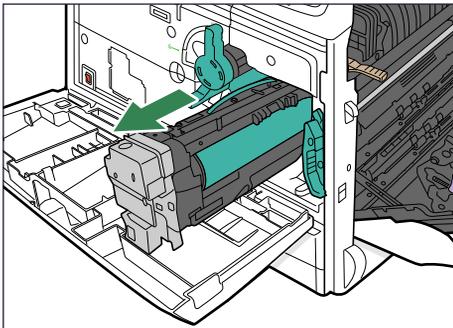
BEK248S

4. Unlock the right green lever.



BEK121S

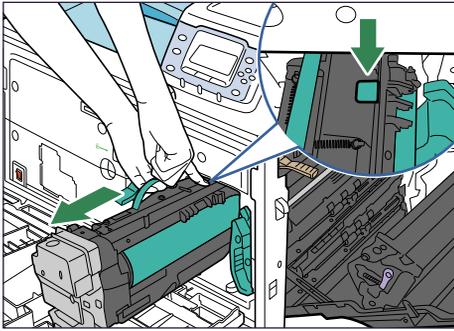
5. Slide the used development unit out slowly until it stops.



BEK122S

6. Holding the green handle, push the lock down, and then remove the development unit completely.

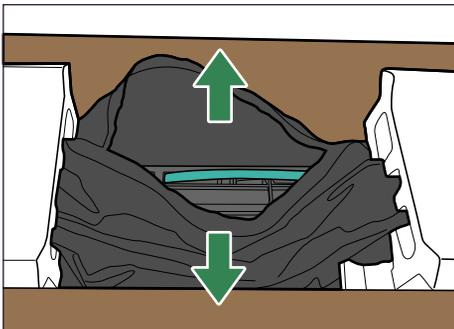
Put the used development unit on paper or similar material to avoid dirtying your workspace.



BEK123S

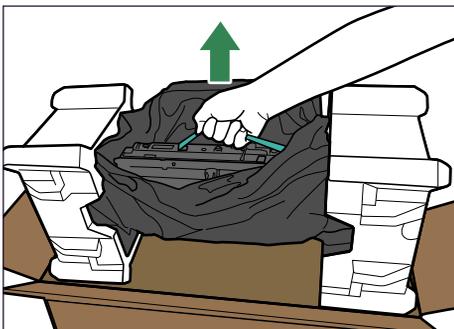
Be careful not to tilt or shake the unit. Otherwise, toner might scatter.

7. Open the box of the new development unit, and then open the plastic bag from the center.



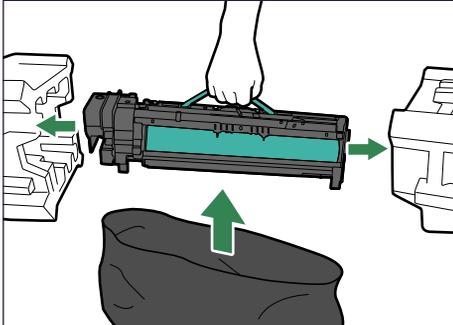
BEK035S

8. Holding the green handle, lift the development unit out of the box, without removing its protective materials.



BEK040S

9. Holding the green handle, remove the protective materials from both ends, and then take the development unit out of the plastic bag.

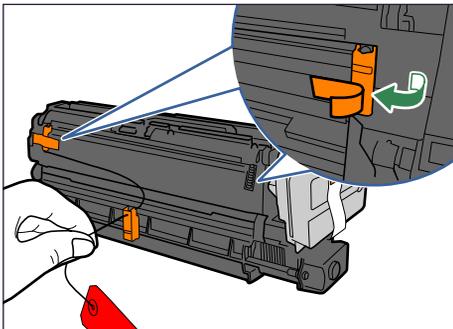


BEK037S

After taking the new development unit from the box, do not to shake or jar the unit.

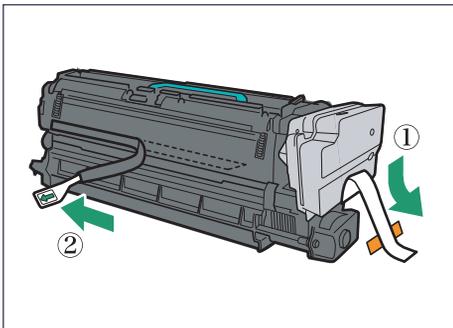
10. Remove the desiccant from the development unit.
11. Remove the tapes from both sides, and then take out the fixtures by pulling the wire with a red tag toward you.

6



BEK060S

12. Remove the tape from the side of the development unit (①), and then take out the transparent tape (②).

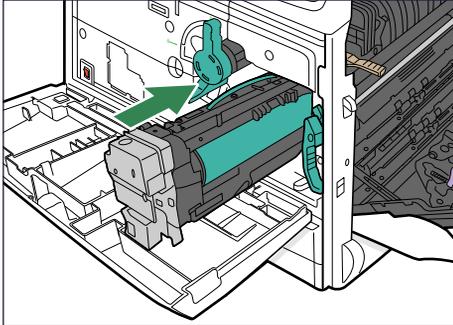


BEK061S

While pulling out the tape, keep the development unit horizontal. Tilting or shaking the unit might cause the toner to scatter.

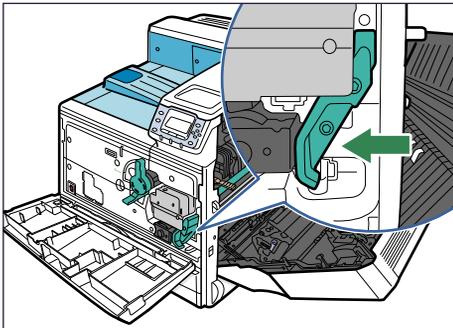
Do not remove the black sheet until you finish installing the unit. The black sheet is used to protect the photo conductor area of the development unit.

- 13. Slide the development unit into the printer completely.**



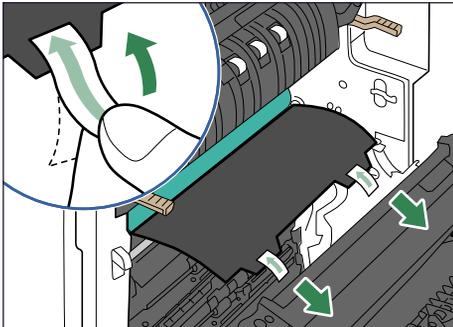
BEK184S

- 14. Lock the right green lever back in place.**



BEK124S

- 15. At the right side of the printer, remove the tape on the left and right sides of the black sheet, and then pull out the sheet using both hands.**



BEK271S

Do not touch the photo conductor area protected by the black sheet.

- 16. Carefully close the front cover.**
17. Carefully close the right cover.
18. Put the old development unit into the disposal bag.

19. Turn on the printer.

"Please wait." 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.

↓ Note

- Confirm that the "Replace Maintenance Kit A." message on the display has cleared. Replacing the Maintenance Kit A is finished.

Replacing Maintenance Kit B

⚠ CAUTION

- Wait at least one hour after power off before replacing parts. Not allowing the printer to cool may result in burns.
- The inside of this printer becomes very hot. Do not touch parts labeled "⚠" (indicating a hot surface). Touching these parts will result in burns.

Replace the Maintenance Kit B when the following message appears on the display:

```
Replace Maintenance Kit B.
Open the Duplex Unit to
replace. Press the Menu key
to check supplies.
```

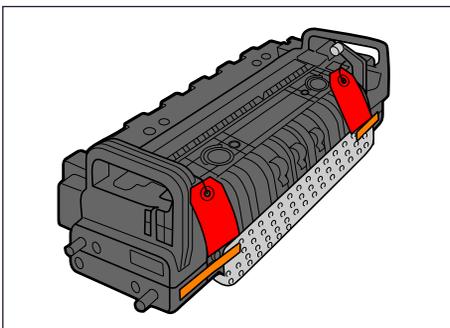
When the following message appears on the display, the Maintenance Kit B should be replaced soon. Prepare a Maintenance Kit B.

```
Replace Maint. KitB soon.
Option  Prt.Jobs  Supplies
```

The box contains the following parts. Confirm that the contents of the box match the following lists. Check the contents of the box before replacing Maintenance Kit B.

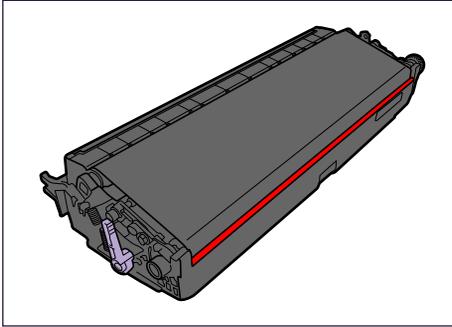
Maintenance Kit SP 8200 B

- Replacement Guide
- Fusing Unit



BEK182S

- Transfer Unit



BEK162S

Replacing the Transfer Unit

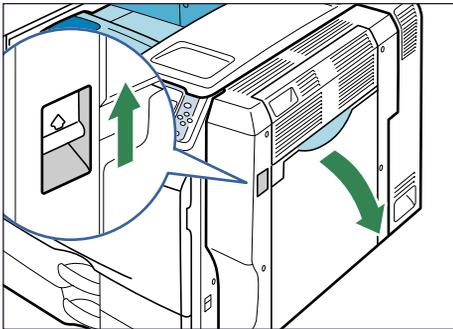
WARNING

- Do not incinerate the transfer unit. Toner dust might ignite when exposed to an open flame. Dispose of the used transfer unit in accordance with local regulations.

6

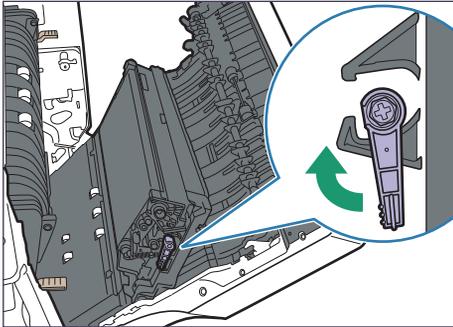
Important

- If you attempt to start printing when the transfer unit is not installed correctly, the message "SC440" may appear on the display. If this happens, contact your sales or service representative.
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.



BEK198S

3. Raise the purple lever inside the right cover.



BEK160S

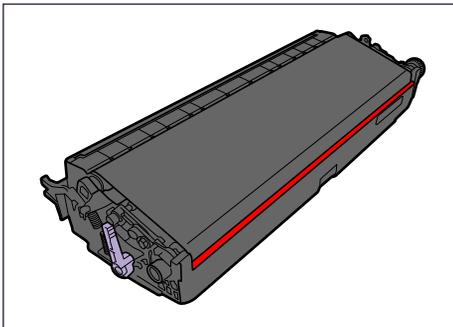
4. Holding both sides of the unit, lift the unit slightly and bring it towards the printer to unhook it from the right cover (①), and then take it out completely (②). Put the used transfer unit on paper or similar material to avoid dirtying your workspace.



BEK161S

Be careful not to tilt or shake the unit. Otherwise, toner might scatter.

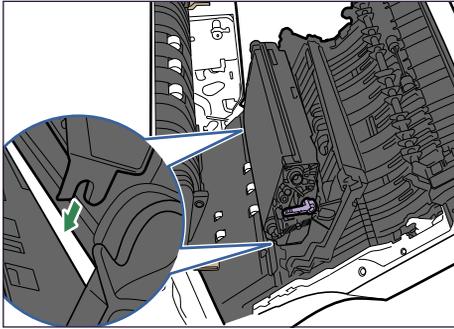
5. Take the new transfer unit out of the box, and remove the plastic bag.



BEK162S

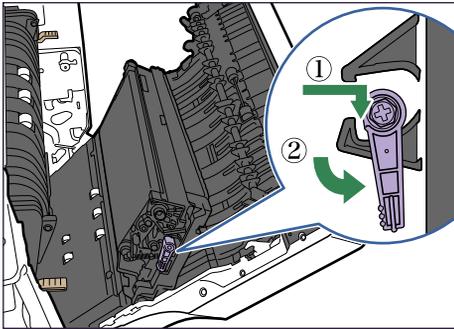
6. Remove the desiccant from the transfer unit.

7. Align the new transfer unit with the shaft.



BEK163S

8. Return the purple lever back in place (1), and then lock the transfer unit (2).



BEK164S

9. Put the old transfer unit into the bag that the new transfer unit was in.

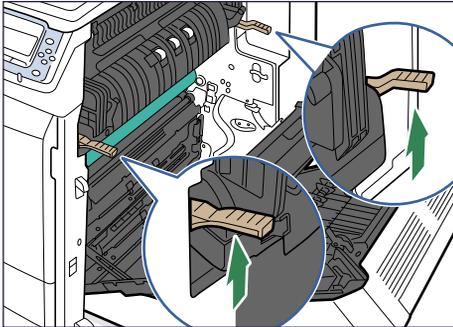
This completes transfer unit replacement. Leave the right cover open, and replace the fusing unit as shown below.

↓ Note

- If you cannot return the purple lever to its original position, raise the purple lever and remove the transfer unit. After that, try to install the transfer unit again.

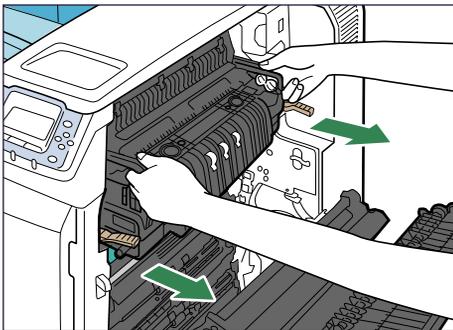
Replacing the Fusing Unit

1. Raise the brown levers on both sides.



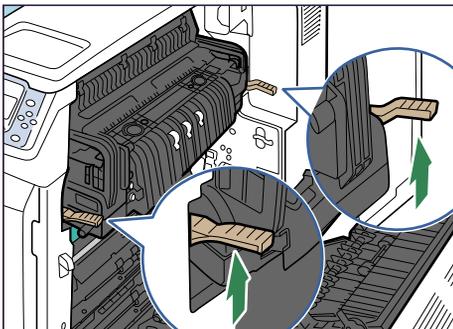
BEK181S

2. Holding the fusing unit by the handles, slowly pull out the fusing unit until it stops.



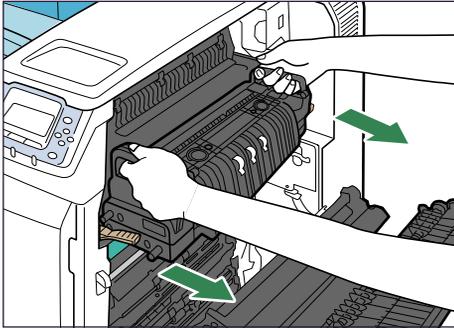
BEK065S

3. Raise the brown levers on both sides again.



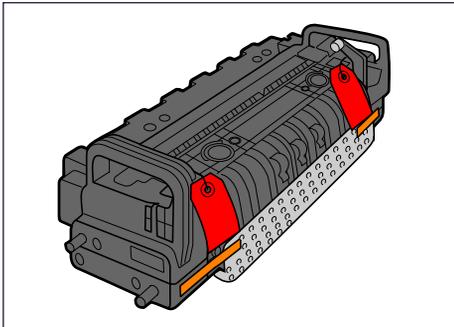
BEK075S

4. Holding the fusing unit firmly by the handles, pull out the fusing unit completely.



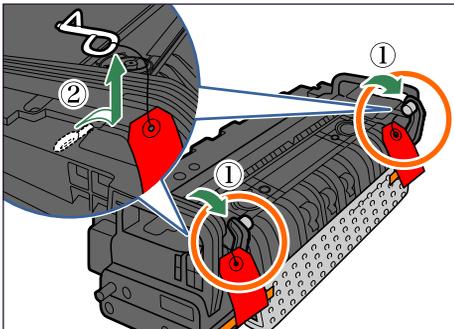
BEK180S

5. Take the new fusing unit out of the bag.



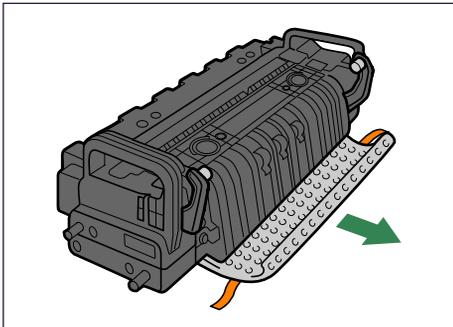
BEK182S

6. Pull down the levers on both sides of the unit (1), turn the pins with a red tag toward you, and then pull them out (2).



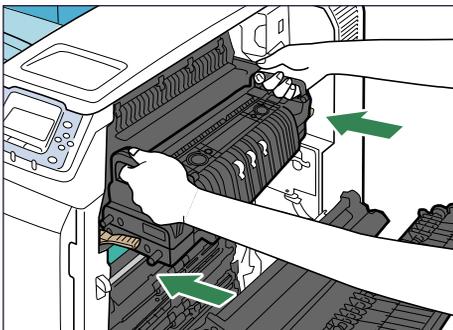
BEK063S

7. Remove the tapes from both sides and take out the protective material.



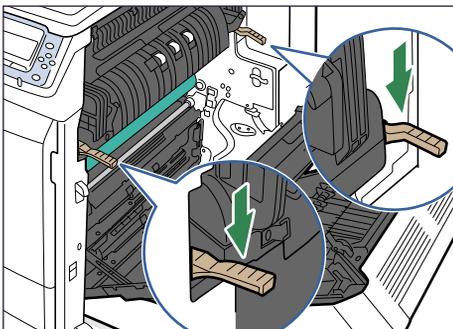
BEK064S

8. Holding the fusing unit by the handles, carefully push the fusing unit into the printer completely.



BEK185S

9. Lower the brown levers back in place.



BEK183S

10. Carefully close the right cover.
11. Turn on the printer.

Note

- The first time you turn on the printer after installation or after replacing the fusing unit, it will make several noises. This is due to the fusing unit initializing and is perfectly normal.

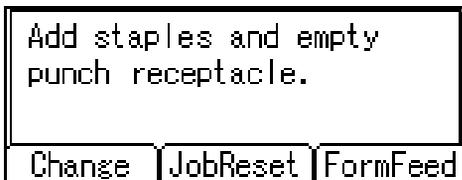
- Confirm that the "Replace Maintenance Kit B." message on the display has cleared. Replacing the Maintenance Kit B is finished.

Adding Staples

★ Important

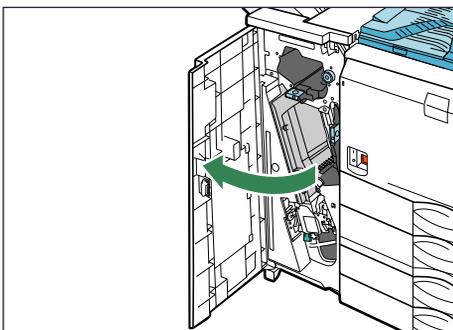
- Be sure to use the approved staple cartridges. Stapling failures or jams may occur if you use a staple cartridge other than that recommended.
- After the cartridge is replaced, the next five to seven sheets will not be stapled until the finisher has adjusted the position of the staple sheet.

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

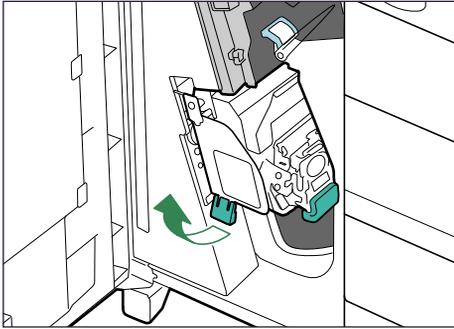


When the 1000-sheet Finisher is Installed

1. Open the finisher front cover.

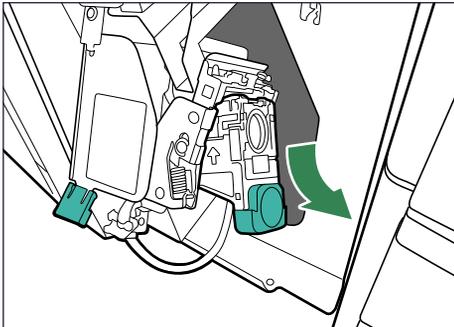


2. Lift the staple unit.



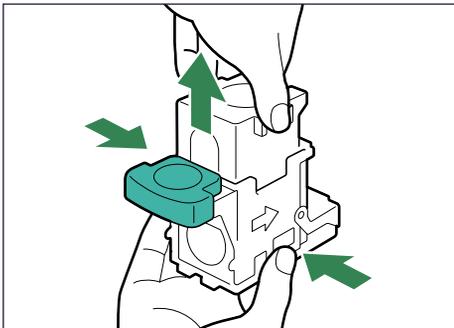
BEK050S

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



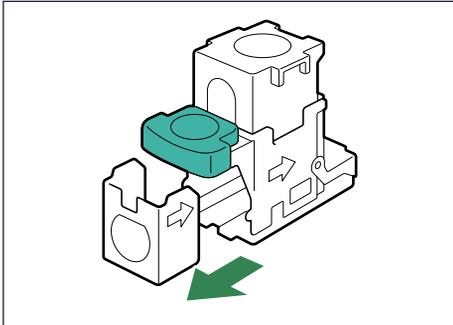
BEK051S

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



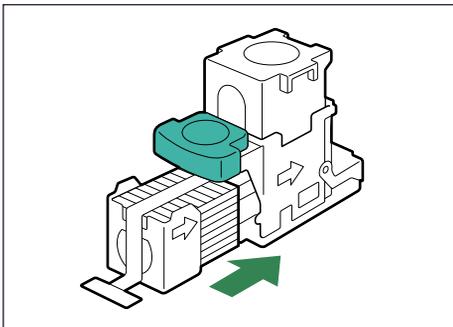
BEK089S

5. Take out the empty staple case.



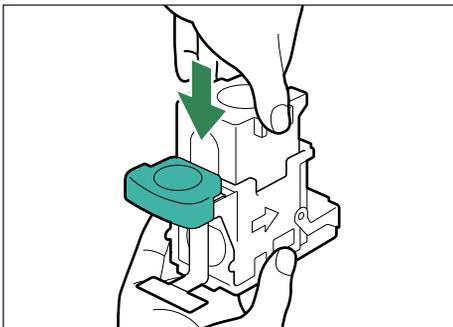
BEK090S

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



BEK091S

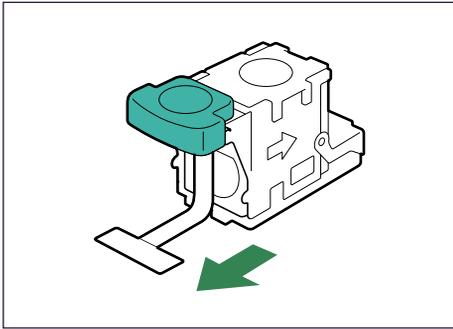
7. Lower the upper unit carefully.



BEK092S

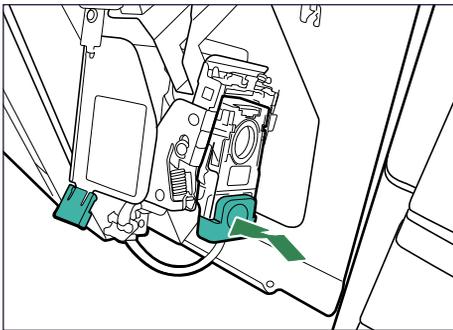
8. Pull the ribbon out of the staple case that you attached.

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.



BEK082S

10. Return the staple unit to its original position.

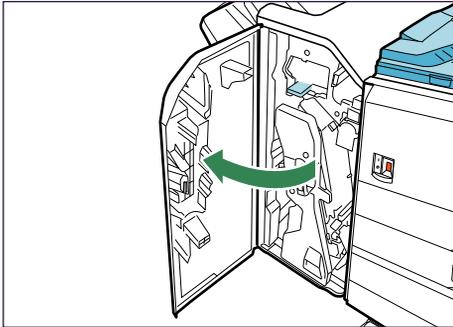
11. Close the front cover of the finisher.

Note

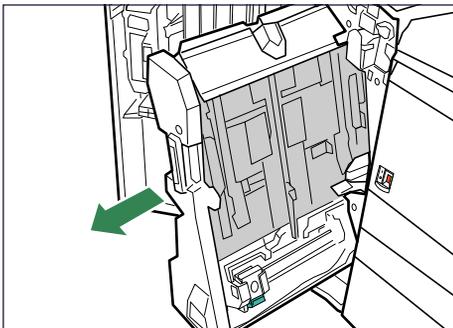
- If you cannot pull out the upper unit there are staples remaining inside the cartridge. Use all the staples before replacing the cartridge.

When the 2 Tray Finisher is Installed

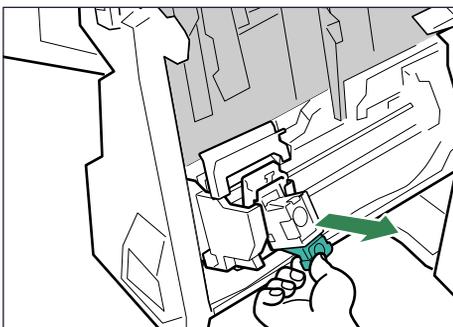
1. Open the front cover of the finisher.



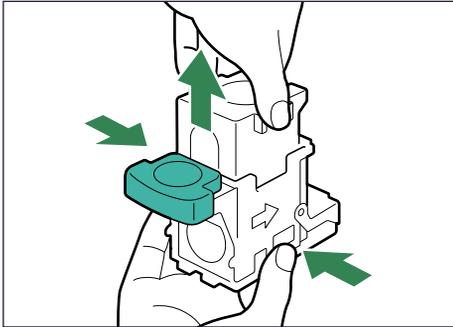
2. Holding the lever, pull out the staple unit.



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

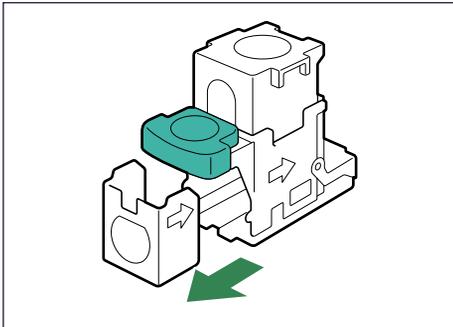


4. Pushing both sides of the cartridge, pull out the upper unit.



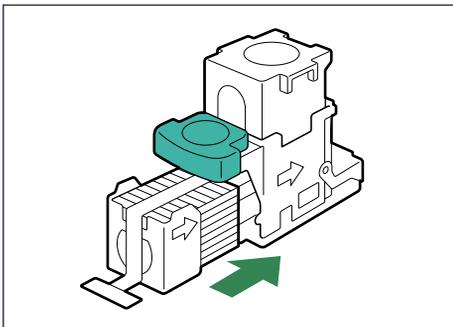
BEK089S

5. Take out the empty staple case.



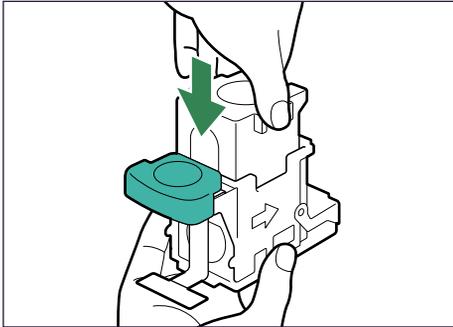
BEK090S

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



BEK091S

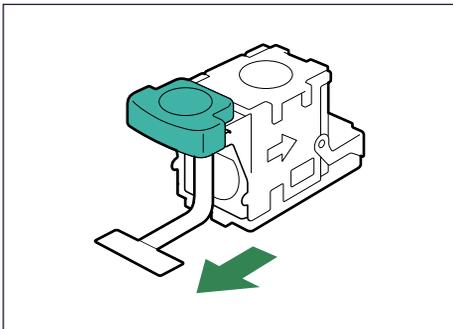
7. Lower the upper unit carefully.



BEK092S

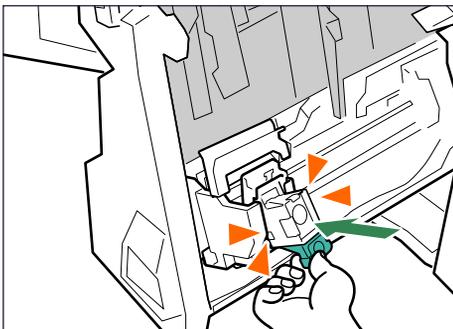
8. Pull the ribbon out of the staple case that you attached.

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

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 benzene.

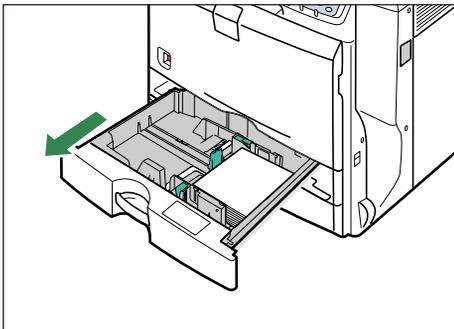
↓ Note

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

500-sheet Paper Trays

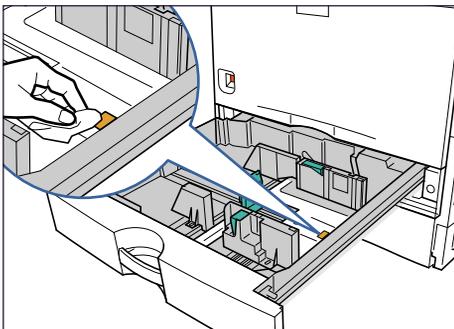
The same procedure is applied to clean the friction pads of standard paper trays and 1000-sheet paper feed unit. Tray 1 is used as an example.

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



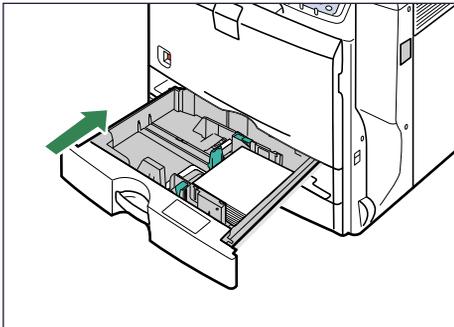
BEK034S

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



BEK265S

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

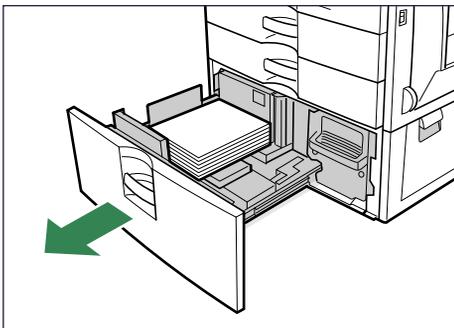


BEK341S

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

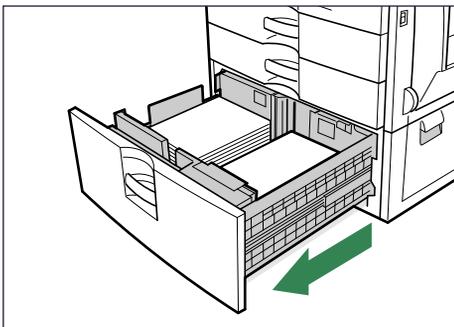
2000-sheet Paper Feed Unit

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



BEK115S

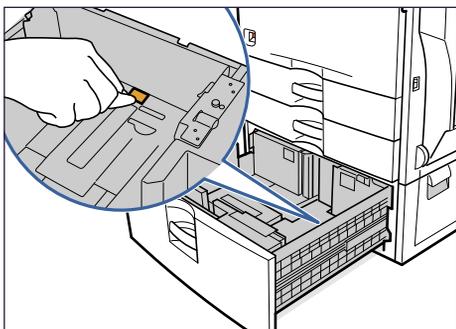
2. Holding the lever on the right side of the tray, pull the tray completely out.



BEK116S

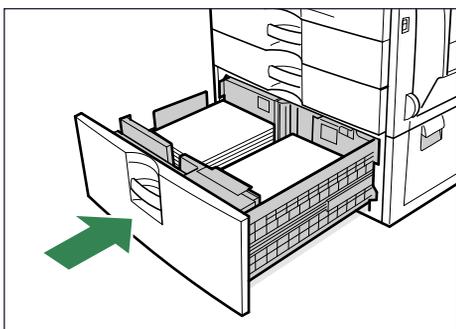
3. Remove the loaded paper.

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



BEK117S

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

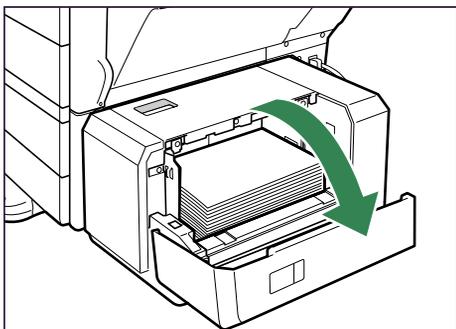


BEK118S

7

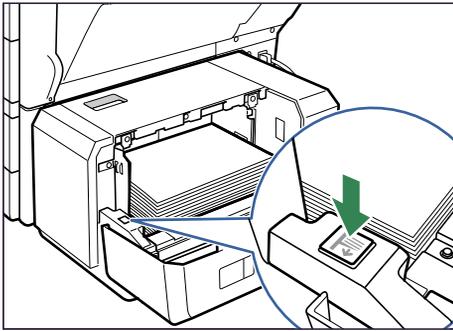
1200-sheet Paper Feed Unit

1. Carefully open the top cover of the 1200-sheet paper feed unit.



BEK260S

2. Press the [Down] key.

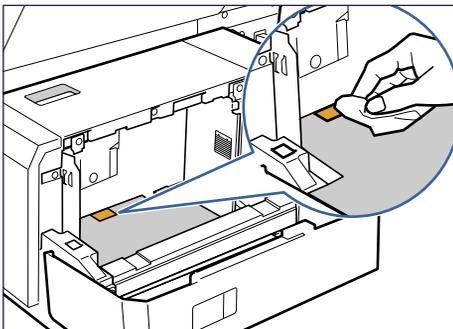


BEK261S

The bottom plate is moving down.

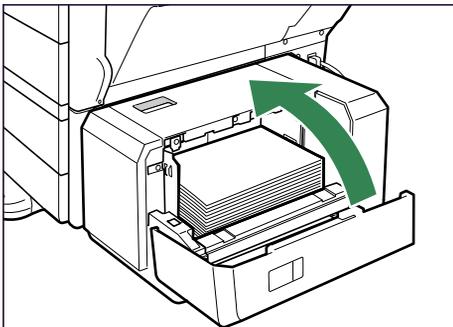
3. Remove the loaded paper.

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



BEK127S

5. Reload the paper into the 1200-sheet paper feed unit and close the top cover of the 1200-sheet paper feed unit.



BEK262S

Cleaning the Registration Roller

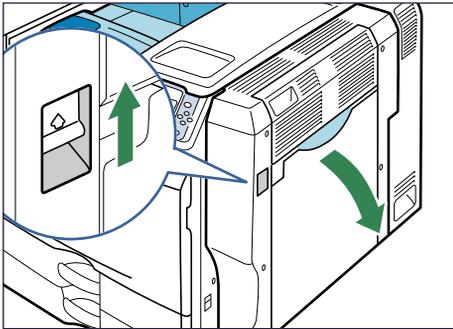
If types of paper other than the standard types are used, specks of paper may stick around the registration roller, causing problems. Clean the registration roller if white dots appear on prints.

⚠ 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.

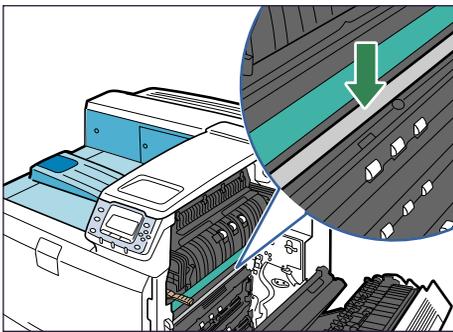
★ Important

- 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.



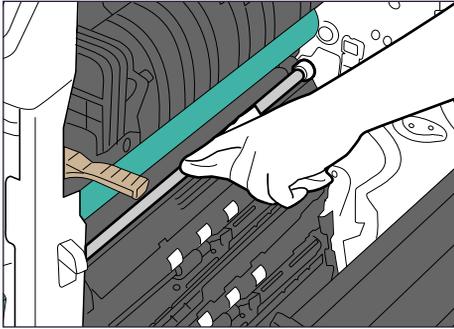
BEK198S

The registration roller is installed as shown below.



BEK038S

3. Clean the registration roller by applying a soft damp cloth while turning it.



BEK039S

4. Close the right cover.
5. Plug in the power cord and turn on the printer.

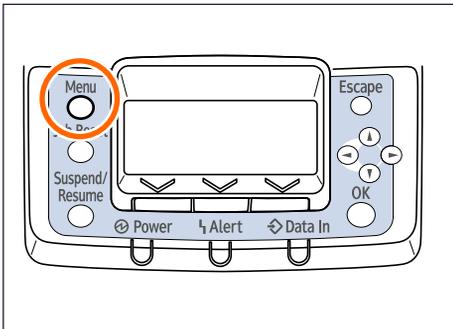
8. Adjusting the Printer

Adjusting Image Density

This section describes how to adjust image density.

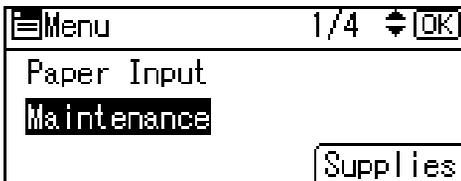
After moving the printer, printing on thick paper, or printing repeatedly for some time, image degradation may occur. By performing automatic image adjustment, you can restore optimum print quality.

1. Press the [Menu] key.

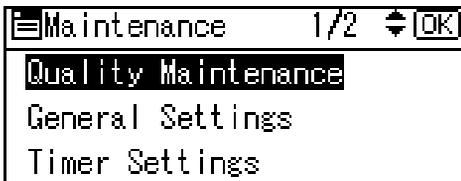


BEK204S

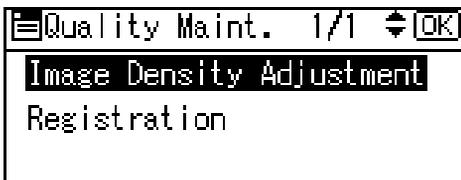
2. Press the [▼] or [▲] key to select [Maintenance], and then press the [OK] key.



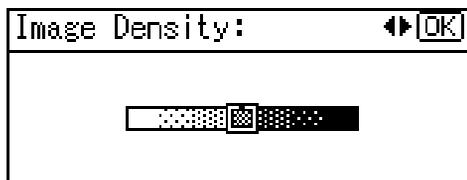
3. Press the [▼] or [▲] key, and then press the [OK] key to select [Quality Maintenance].



4. Press the [▼] or [▲] key to select [Image Density Adjustment], and then press the [OK] key.



5. Press the [▼] or [▲] key to select the image density, and then press [OK].



Enter the value between -3 and 3.

About two seconds later, the display returns to the [Quality Maintenance Menu] screen.

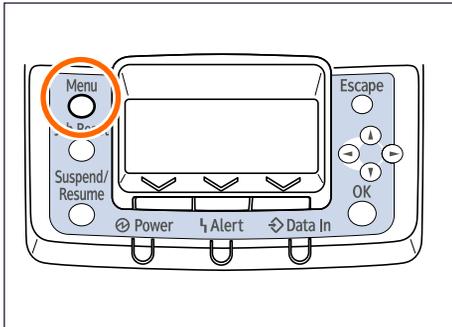
6. Press the [Menu] key.

The display returns to the initial screen.

Adjusting Printing Position

You can adjust the printing position for each tray. 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.

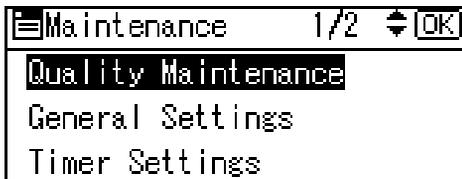


BEK204S

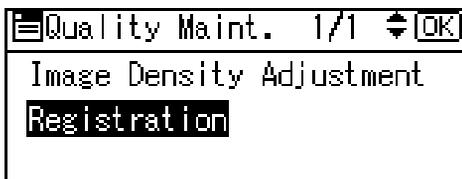
2. Press the [▼] or [▲] key to select [Maintenance], and then press the [OK] key.



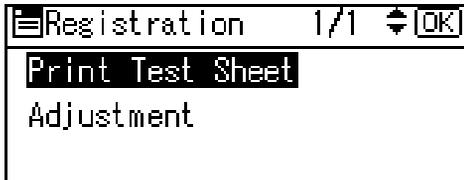
3. Press the [▼] or [▲] key, and then press the [OK] key to select [Quality Maintenance].



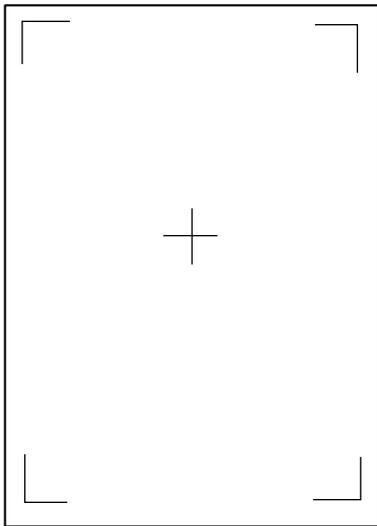
4. Press the [▼] or [▲] key to select [Registration], and then press the [OK] key.



5. Press the [▼] or [▲] key to select [Print Test Sheet], and then press the [OK] key.



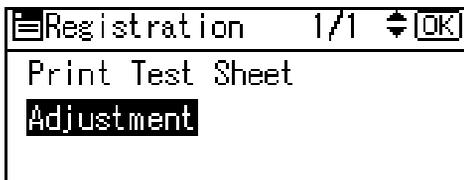
6. Press the [▼] or [▲] key to select the tray you want to adjust, and then press the [OK] key.
7. Print the test sheet to preview the settings.



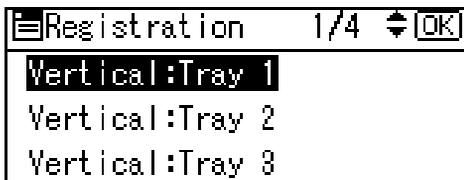
8

Use this sheet to confirm the current print position.

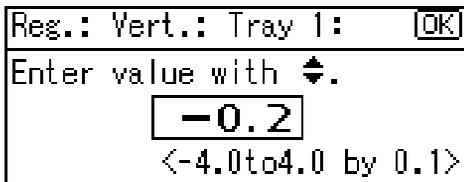
8. Press the [Escape] key to return to the registration menu.
9. Press the [▼] or [▲] key to select [Adjustment], and then press the [OK] key.



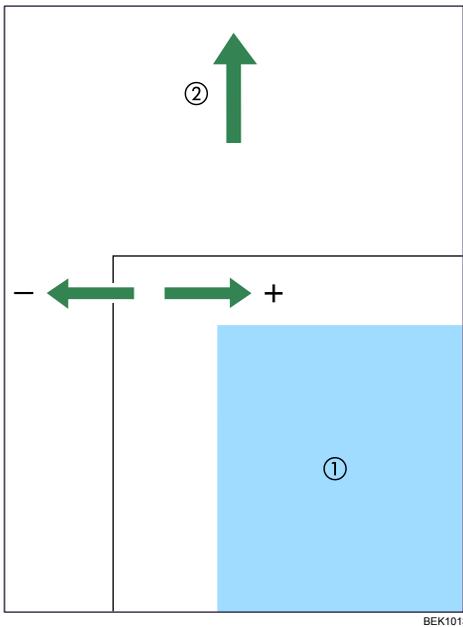
10. Press the [▼] or [▲] key to select the tray you want to adjust, and then press the [OK] key.



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

Error and Status Messages Appears 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)

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.

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.

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.

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.121 "Replacing Maintenance Kit B" for fusing unit installation.

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)

Cannot connect with DHCP server.(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.

Check network settings.(103/203)

The IP address setting is incorrect. Check the IP address, subnet mask, and gateway address. For details, see "p.55 "Ethernet Configuration"".

Connect failed:Wireless Card 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.37 "Installing the Interface Units".

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.

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.

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.30 "Installing the Memory Expansion Units".

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.37 "Installing the Interface Units".

Printer Font Error.

There are problems with the printer's font file.

Contact your sales or service representative.

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.37 "Installing the Interface Units".

Problem:Wireless board Please call service.

The printer cannot detect a wireless board failure. 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.37 "Installing the Interface Units".

Problem:Wireless card Please call service.

The printer cannot detect a wireless card. 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.37 "Installing the Interface Units".

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.

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 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.

Values set for IPv6/Gateway addresses are invalid.(110/210)

The IPv6 address or gateway address is invalid. Check the network settings.

WPA Auth. incomplete.(211)

WPA authentication could not complete. Contact your network administrator.

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.151 "Error and Status Messages Appears on the Control Panel".

Is paper loaded?

Load paper into the paper tray or onto the bypass tray.
See p.89 "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 "Test Printing", Quick Installation 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.206 "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.157 "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.

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

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.77 "Paper and Other Media" and the printer driver Help.
- When "Replace Maint. Kit A soon." or "Replace Maintenance Kit A." appears on the display, replace the photo conductor unit.
See p.114 "Replacing Maintenance Kit A".
- Confirm that the paper is not curled or bent. Envelopes can be curled easily. Flatten paper before loading.
See p.80 "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.89 "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.198 "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.80 "Paper Recommendations".
- When loading paper, fan the paper well before loading.

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.89 "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.80 "Paper Recommendations".

- When loading paper, fan the paper well before loading.

Paper gets wrinkles.

- 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.89 "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.80 "Paper Recommendations".

- The fusing unit is deteriorated or damaged. Replace the unit.

See p.121 "Replacing Maintenance Kit B".

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 1200-sheet feed unit or bypass tray with the print side down.

See p.89 "Loading Paper".

Duplex printing cannot be performed.

- Paper is loaded in the bypass tray. Duplex printing cannot be done from the bypass tray.

- 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]), the reverse side of thick paper ([Thick 2:Dup.Back], [Thick 3:Dup.Back]).
- Paper heavier than 161 g/m² (40 lb.) is loaded. Change the paper for printing.

With Windows 2000/XP/Vista, Windows Server 2003/2003 R2, 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.

Photo images are coarse.

- Some applications lower the resolution for making prints.

Raise the resolution in the settings for that application.

Fine dot pattern does not print.

- Change the [Dithering:] setting 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.80 "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.109 "Adding Toner".

- When "Replace Maint. Kit A soon." or "Replace Maintenance Kit A." appears on the display, replace the photo conductor unit.

See p.114 "Replacing Maintenance Kit A".

- 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.80 "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 "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.109 "Adding Toner".
- When "Replace Maint. Kit A soon." or "Replace Maintenance Kit A." appears on the display, replace the photo conductor unit.
See p.114 "Replacing Maintenance Kit A".
- Condensation may have collected. If rapid change in temperature or humidity occurs, use this printer only after it has acclimatized.

White streaks appear.

- 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.109 "Adding Toner".
- When "Replace Maint. Kit A soon." or "Replace Maintenance Kit A." appears on the display, replace the photo conductor unit.
See p.114 "Replacing Maintenance Kit A".
- 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.142 "Cleaning the Registration Roller".

White rivers appear.

- When "Replace Maint. Kit A soon." or "Replace Maintenance Kit A." appears on the display, replace the photo conductor unit.
See p.114 "Replacing Maintenance Kit A".

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.109 "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.204 "Consumables".

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.80 "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.121 "Replacing Maintenance Kit B".

When printing on OHP transparencies, black or white dots are obvious.

- The registration roller is dirty. Clean the registration roller.
See p.142 "Cleaning the Registration Roller".

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When printing on plain paper, white dots are obvious.

- The registration roller is dirty. Clean the registration roller.
See p.142 "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, 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 following 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.

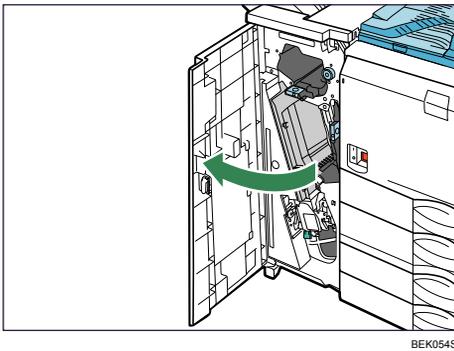
Removing Jammed Staples

★ 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 1000-sheet Finisher is Installed

1. Open the finisher front cover.



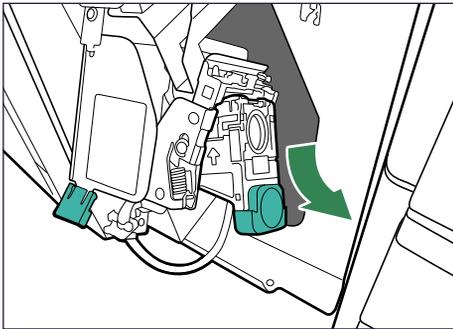
BEK054S

2. Lift the staple unit.



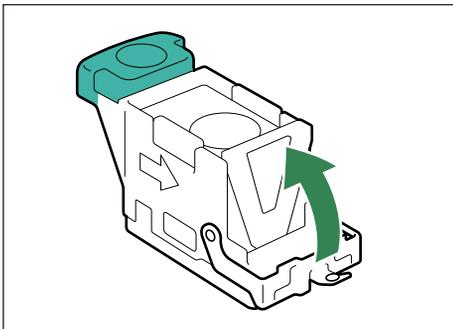
BEK050S

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



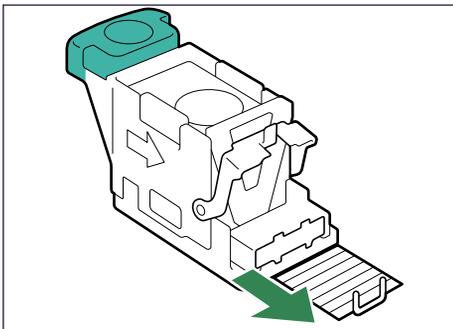
BEK051S

4. Raise the face plate of the cartridge.



BEK086S

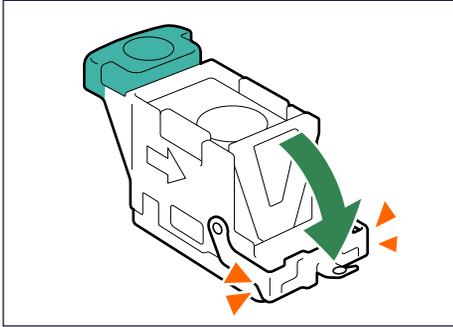
5. Holding the cartridge's face plate up, remove the jammed staples.



BEK087S

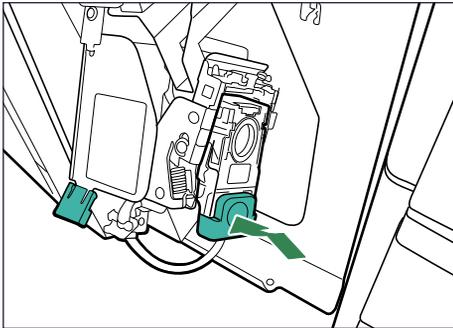
6. Return the face plate to its original position.

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.



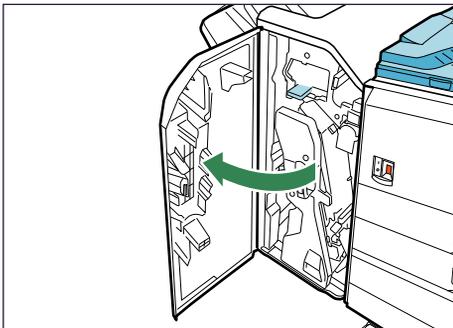
BEK082S

8. Return the staple unit to its original position.
9. Close the front cover of the finisher.

9

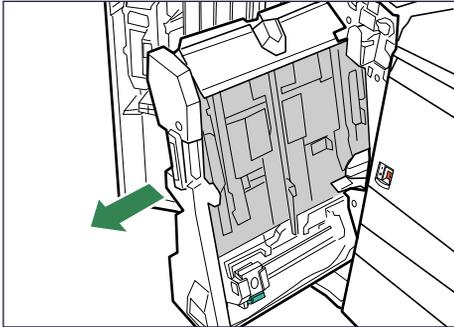
When the 2 Tray Finisher is Installed

1. Open the front cover of the finisher.



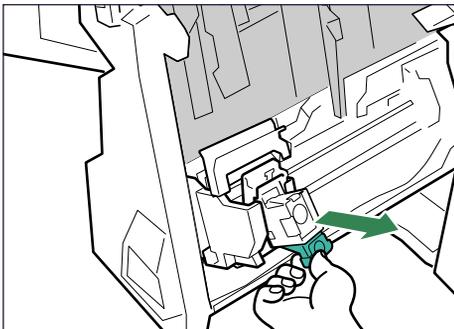
BEK110S

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



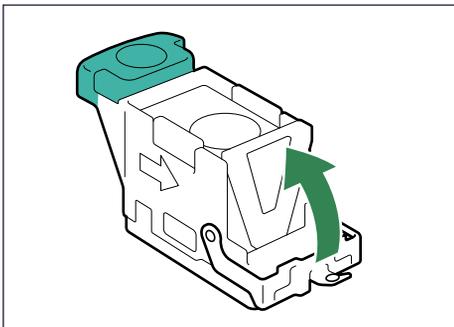
BEK084S

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



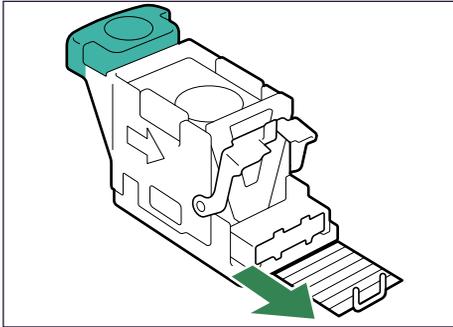
BEK085S

4. Raise the face plate of the cartridge.



BEK086S

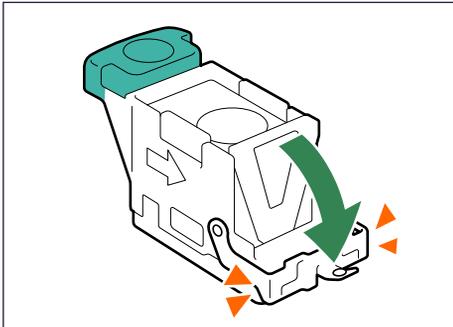
5. Holding the cartridge's face plate up, remove the jammed staples.



BEK087S

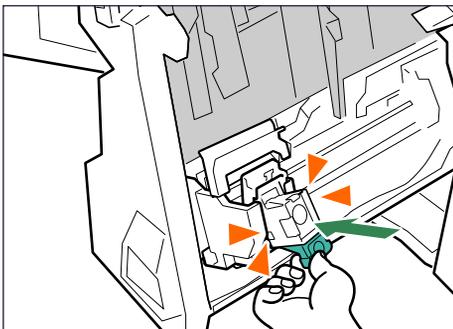
6. Return the face plate to its original position.

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

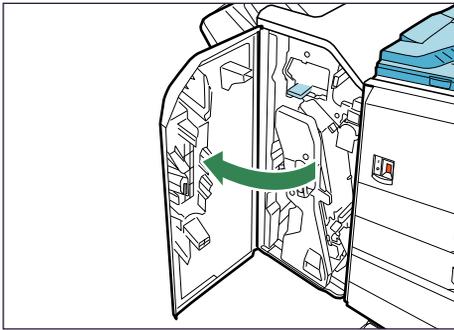
8. Return the staple unit to its original position.
9. Close the front cover of the finisher.

Removing Punch Waste

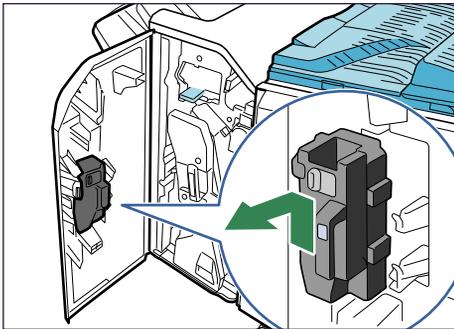
"The punch hole receptacle is full." or "Empty the punch waste." message appears, remove punch waste from the finisher. When these messages appear on the display, you cannot use the punch function.

When the 2 Tray Finisher is Installed

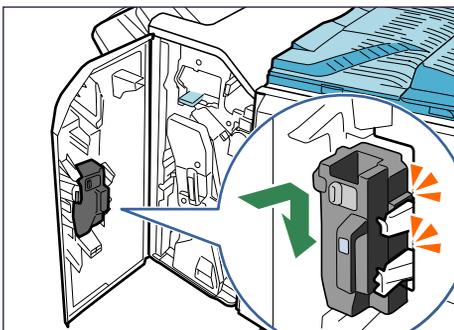
1. Open the front cover of the finisher.



2. Pull out the punch waste box carefully, and then remove punch waste.



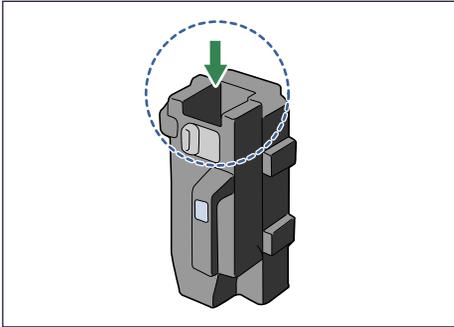
3. Re-install the punch waste box.



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

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.

Reference

- p.138 "Cleaning the Friction Pads"

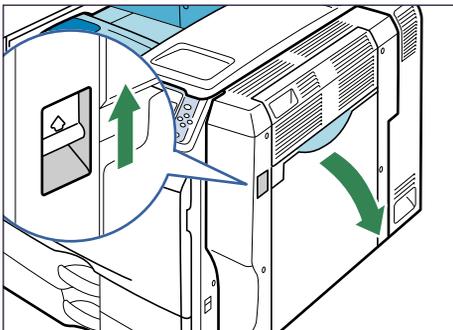
Paper Misfeed Message (A)

The "⚠️ A Open the part as shown and remove paper." error message appears when a paper misfeed occurs in the paper feed section.

★ Important

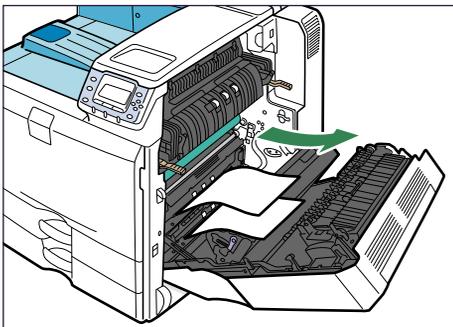
- The inside of this printer becomes very hot. Before removing paper around the fusing unit, wait until the temperature of the covers inside the fusing unit and duplex unit cool down.
- When a paper misfed (A) occurs, the paper tray is locked and cannot be pulled out. Do not forcefully pull out the tray.

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



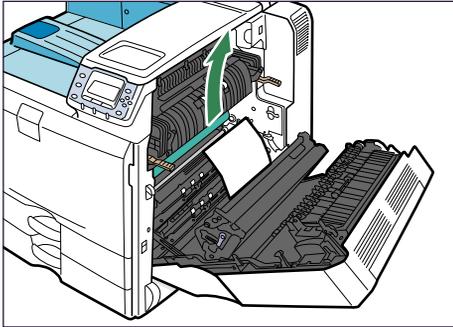
BEK198S

2. Remove misfed paper slowly.



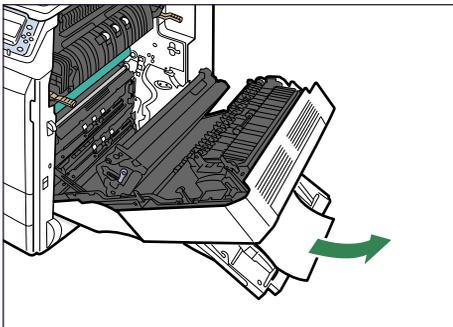
BEK026S

3. If the paper cannot be removed, open the bypass tray and pull it out slowly.



BEK027S

4. Remove the paper slowly from the bypass tray.



BEK028S

5. Carefully close the right cover.
6. Carefully close the bypass tray.

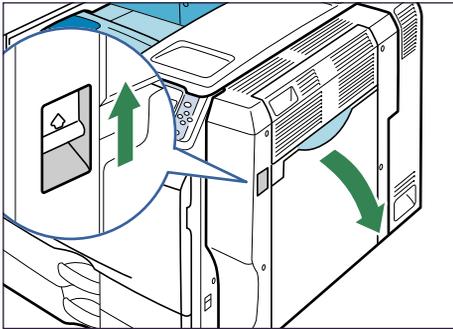
Paper Misfeed Message (B)

The "B Read instructions in Front Cover to remove." error message appears when a paper misfeed occurs in the paper feed section.

★ Important

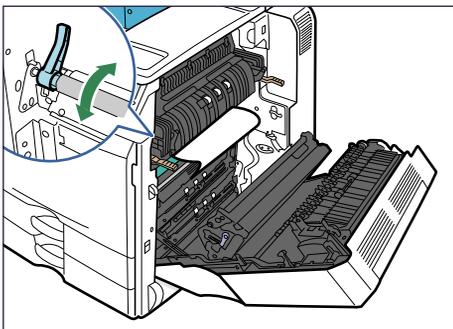
- The inside of this printer becomes very hot. Before removing paper around the fusing unit, wait until the temperature of the covers inside the fusing unit and duplex unit cool down.
- When removing misfed paper from the fusing unit, do not touch any parts other than those specified in this manual.
- 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.



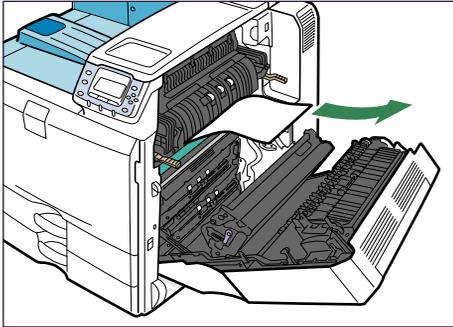
BEK198S

2. Turn lever B1 five to eight times.



BEK029S

3. Remove misfed paper slowly.



BEK030S

4. Carefully close the right cover.

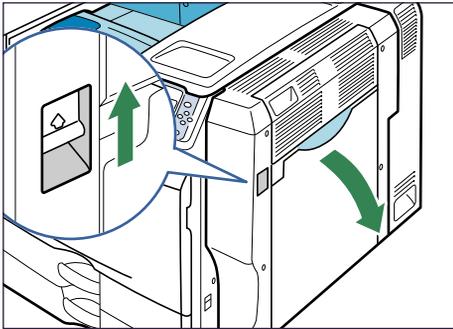
Paper Misfeed Message (C)

The "⚠️C Read instructions in Front Cover to remove." error message appears when a paper misfeed occurs in the paper feed section.

★ Important

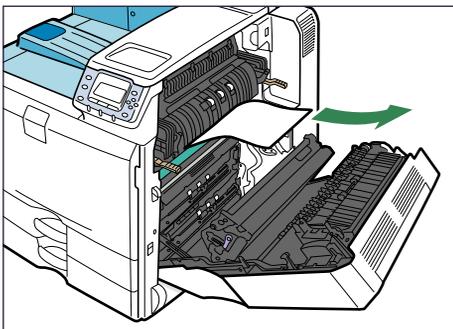
- The inside of this printer becomes very hot. Before removing paper around the fusing unit, wait until the temperature of the covers inside the fusing unit and duplex unit cool down.
- When removing misfed paper from the fusing unit, do not touch any parts other than those specified in this manual.
- 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.



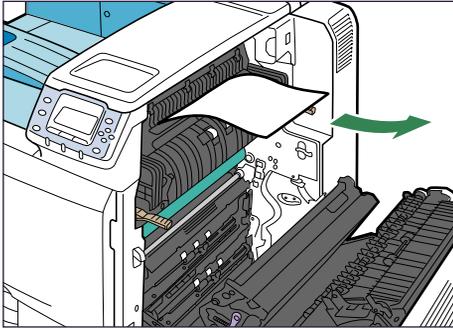
BEK198S

2. Remove misfed paper slowly.

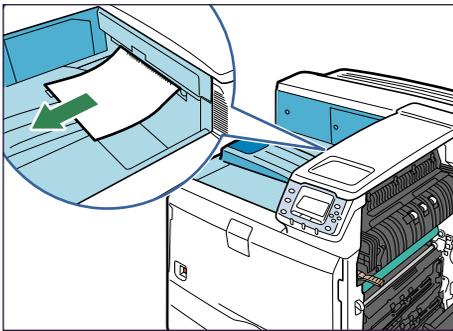


BEK030S

3. Remove misfed paper slowly.



4. Remove the paper slowly from the output area of the printer.



5. Carefully close the right cover.

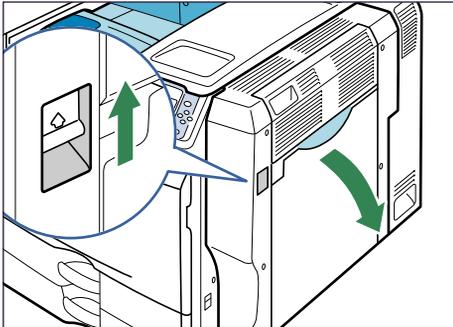
Note

- 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)

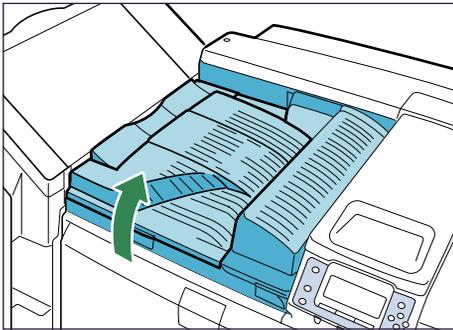
The "8vD Read instructions in Front Cover to remove." error message appears when a paper misfeed occurs while paper is being fed.

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



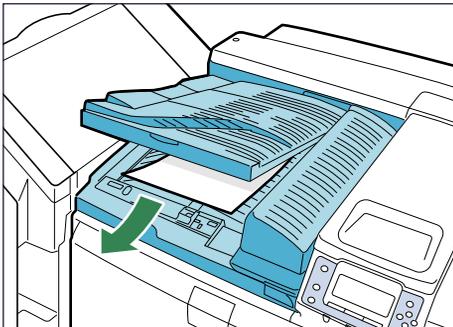
BEK198S

2. Open the left cover of the bridge unit.



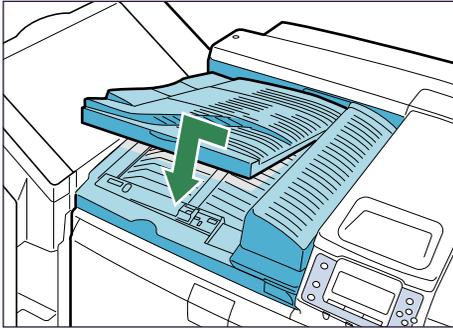
BEK045S

3. Remove the paper.



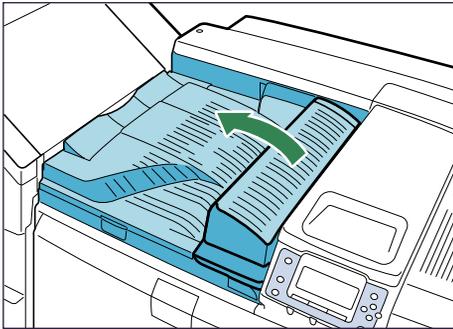
BEK046S

4. Close the left cover of the bridge unit.



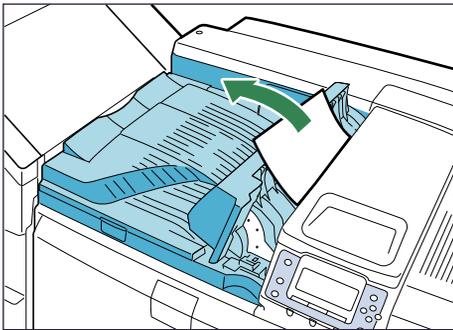
BEK047S

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.

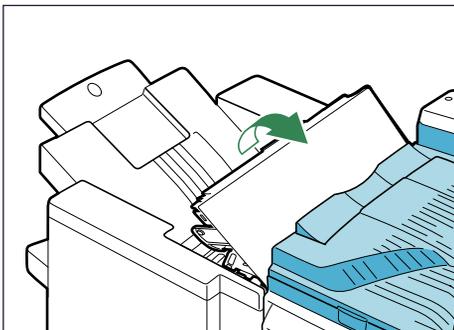
Paper Misfeed Message (R)

The "R Open Finisher and remove the paper." error message appears when a paper misfeed occurs inside the finisher.

When the 1000-sheet Finisher is Installed

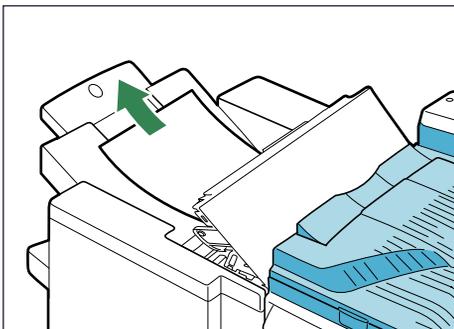
When R1 to R5 is displayed.

1. Open the finisher upper cover.



BEK052S

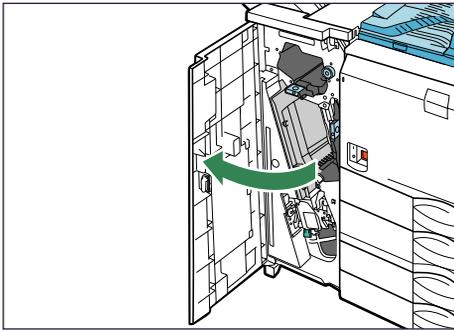
2. Remove the misfed paper.



BEK053S

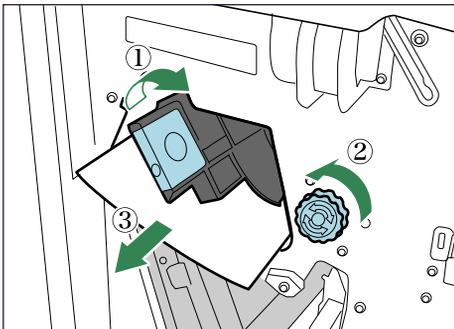
3. Close the finisher upper cover.

4. Open the finisher front cover.



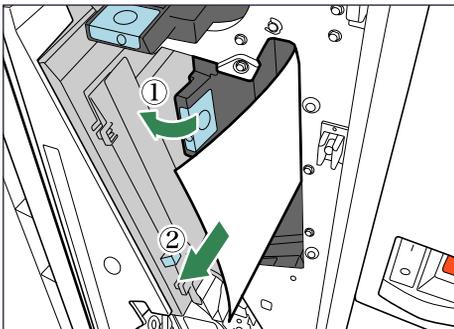
BEK054S

5. Holding up lever R1, turn knob R2 counterclockwise to remove the paper.



BEK055S

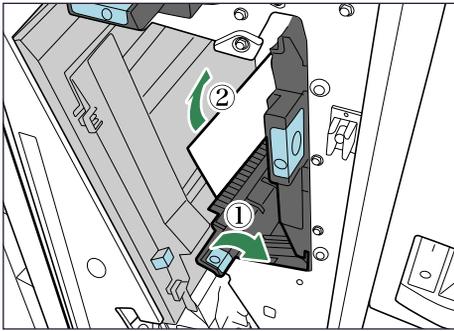
6. If you cannot remove the paper, open lever R3 to the left, and then remove the paper.



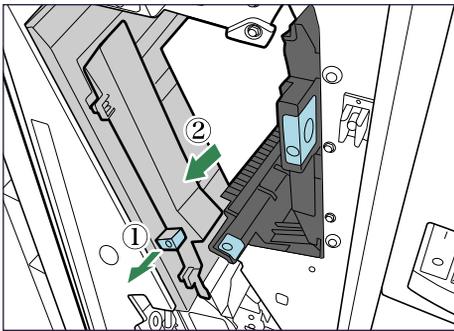
BEK057S

7. Return the lever R3 to its original position.

8. Pulling lever R4 to the right, remove the paper.



9. Pull lever R5 and remove the paper.



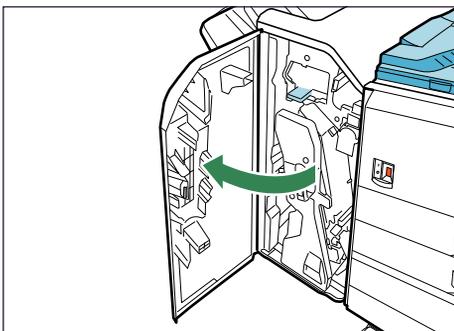
10. Close the finisher front cover.

When the 2 Tray Finisher is Installed

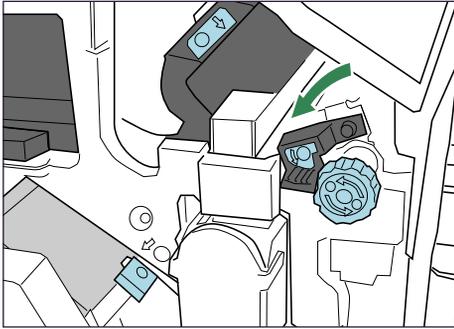
10

When R1, R2, R3, or R4 is displayed.

1. Open the front cover of the finisher.

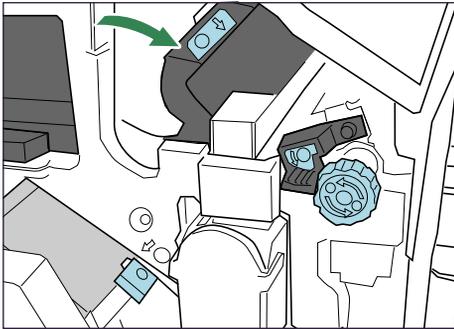


2. Turn lever R1 counterclockwise.



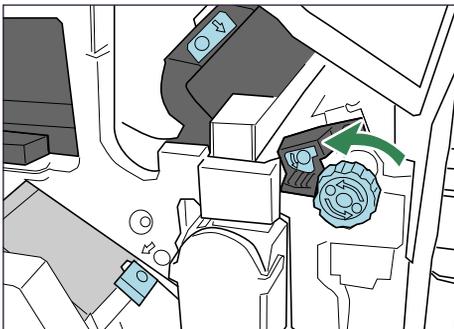
BEK066S

3. Open lever R3.



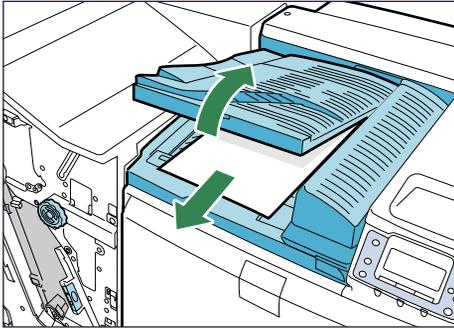
BEK067S

4. Turn lever R2 counterclockwise.

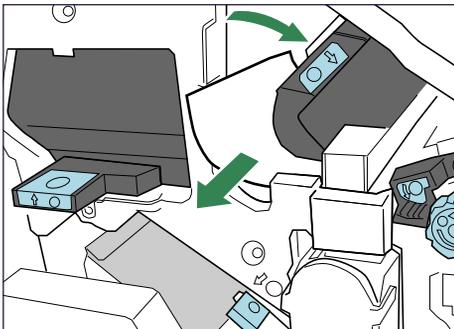


BEK068S

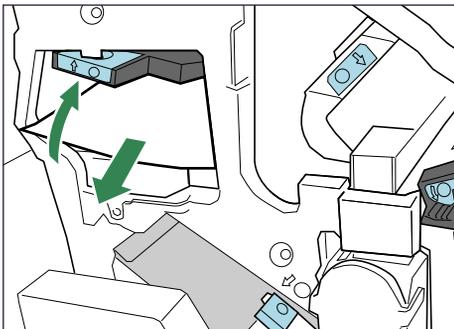
5. Open the left cover of the bridge unit and remove the paper.



6. If the paper cannot be removed, open lever R3 and remove the paper.



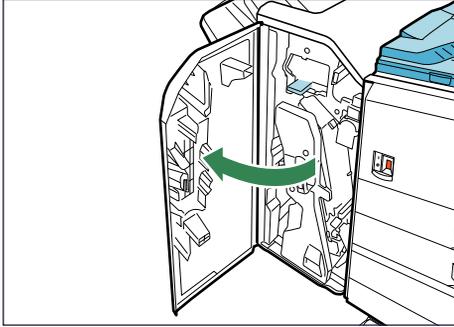
7. Raise lever R4 up and remove the paper.



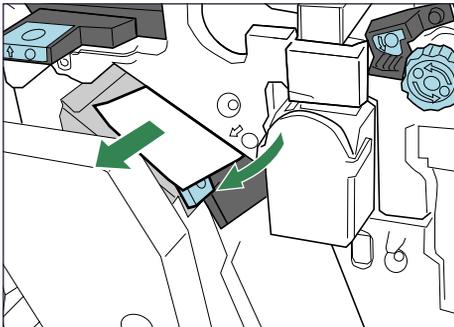
8. Return levers R3 and R4 to their original positions.
9. Close the front cover of the finisher.

When R5, R6, R7, or R8 is displayed.

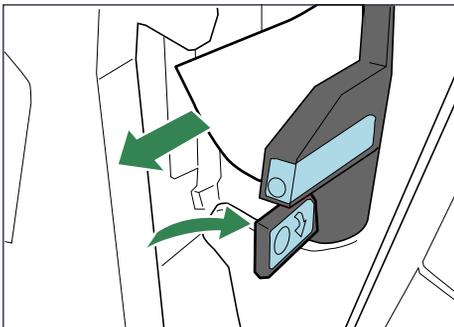
1. Open the front cover of the finisher.



2. Push lever R5 outward and remove the paper.

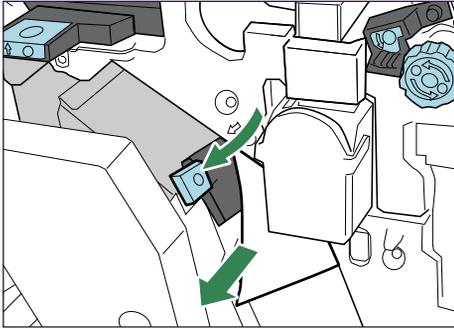


3. Return lever R5 to its original position.
4. If the paper could not be removed, raise lever R6 and remove the paper.



5. Return lever R6 to its original position.
6. Open lever R3.

7. Lower lever R7 and remove the paper.



8. Return levers R3 and R7 to their original positions.

9. Close the front cover of the finisher.

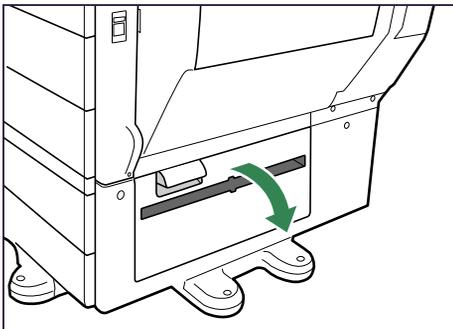
Paper Misfeed Message (Y)

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

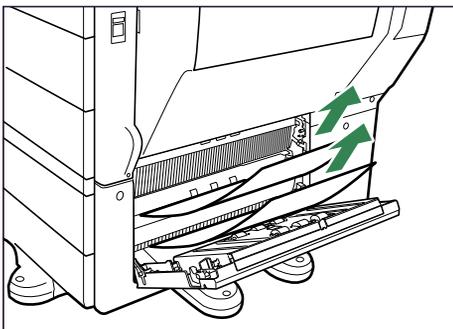
- When a paper misfeed (Y) occurs, the paper tray is locked and cannot be pulled out. Do not forcefully pull out the tray.
- If the 1200-sheet paper feed unit is installed, pull the 1200-sheet paper feed unit before following the procedure below.

1. Open the cover on the right side of the paper feed unit or 2000-sheet paper feed unit carefully.



BEK128S

2. Remove misfed paper slowly.



BEK129S

3. Close the cover on the right side of the paper feed unit or 2000-sheet paper feed unit carefully.

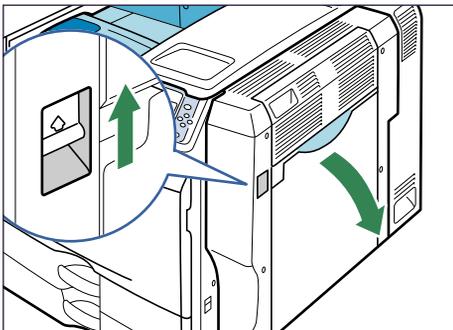
Paper Misfeed Message (Z)

The "Press Z to open cover and remove paper." error message appears when a paper misfeed occurs inside the duplex unit.

★ Important

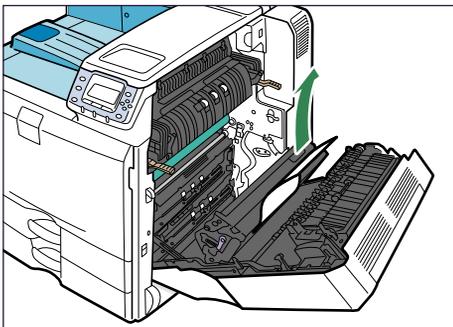
- The inside of this printer becomes very hot. Before removing paper around the fusing unit, wait until the temperature of the covers inside the fusing unit and duplex unit cool down.
- When a paper misfeed (Z) occurs, the paper tray is locked and cannot be pulled out. Do not forcefully pull out the tray.

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



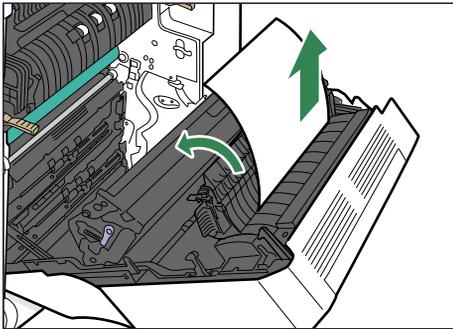
BEK198S

2. Remove misfed paper slowly.



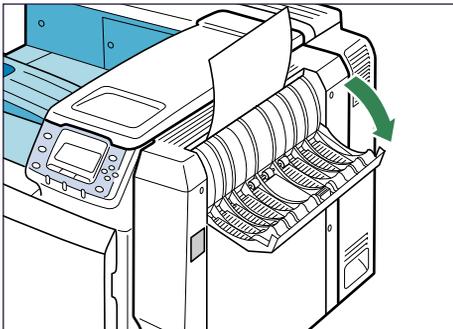
BEK094S

3. Holding knob Z, open the cover, and then remove the paper carefully.



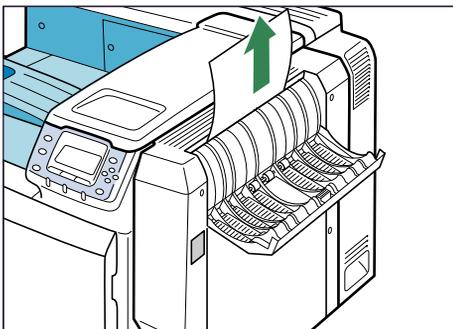
BEK043S

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.

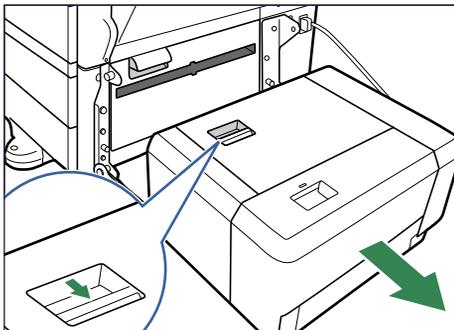
Paper Misfeed Message (U)

The "U 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

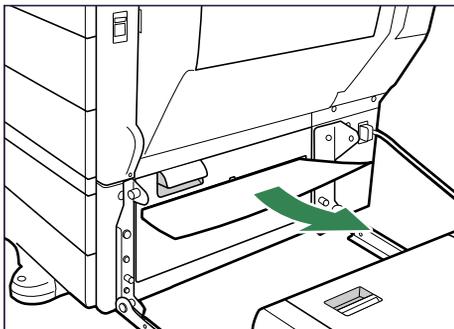
- The inside of this printer becomes very hot. Before removing paper around the fusing unit, wait until the temperature of the covers inside the fusing unit and duplex unit cool down.
- When a paper misfeed (U) occurs, the paper tray is locked and cannot be pulled out. Do not forcefully pull out the tray.

1. Unlock the lever on the 1200-sheet paper feed unit, pull the 1200-sheet paper feed unit.



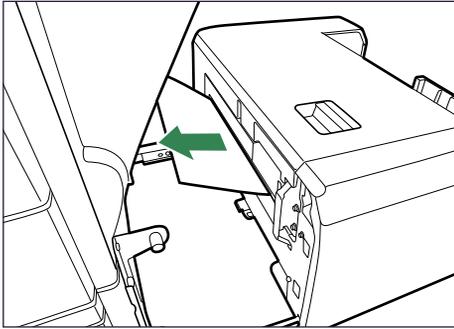
BEK231S

2. Remove the misfed paper from the printer slowly.



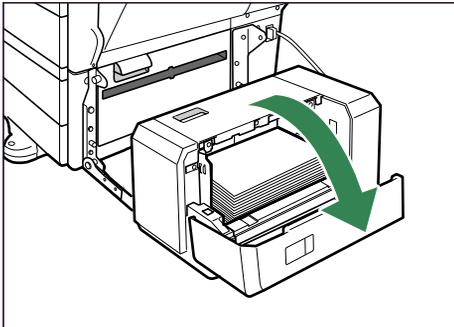
BEK232S

3. Remove the misfed paper from the 1200-sheet paper feed unit slowly.



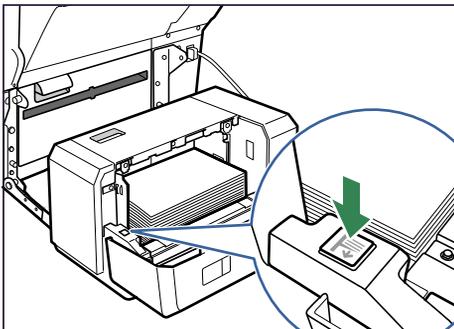
BEK233S

4. If the paper cannot be removed, open the cover of the 1200-sheet paper feed unit.



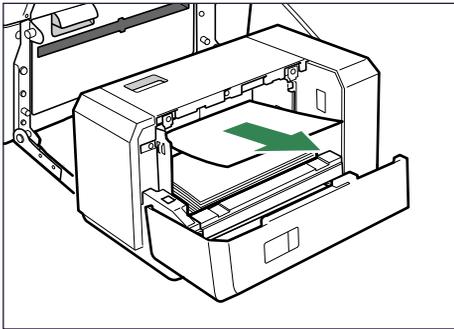
BEK234S

5. Press the [Down] key to lower the bottom plate.



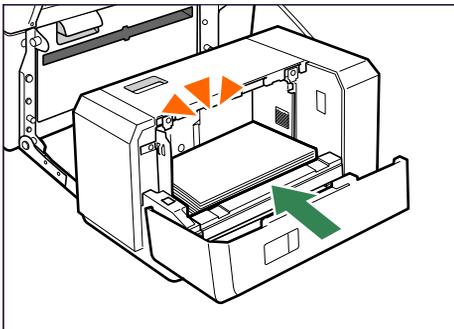
BEK235S

6. Remove misfed paper slowly.



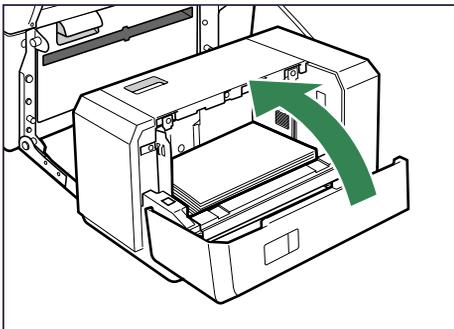
BEK236S

7. Load paper correctly.



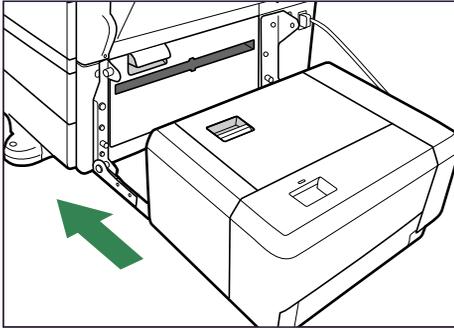
BEK237S

8. Close the cover of the 1200-sheet paper feed unit.



BEK238S

9. Return the 1200-sheet paper feed unit to its original position.

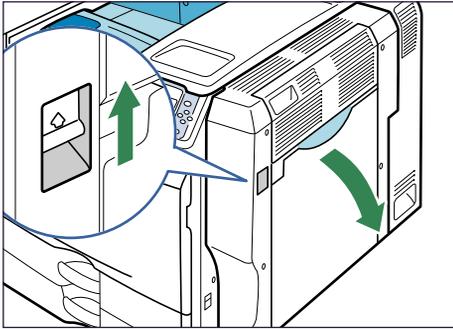


BEK239S

Duplex Print Always Misfeeds

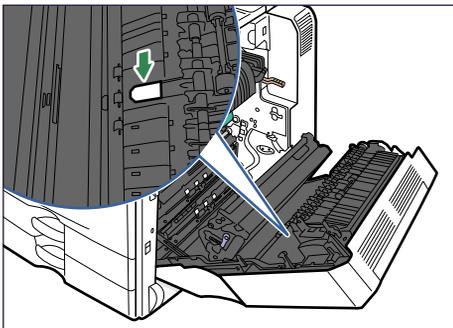
★ Important

- 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.



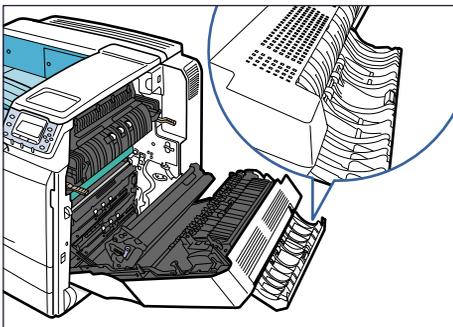
BEK198S

2. Check if there is paper in the location shown below.



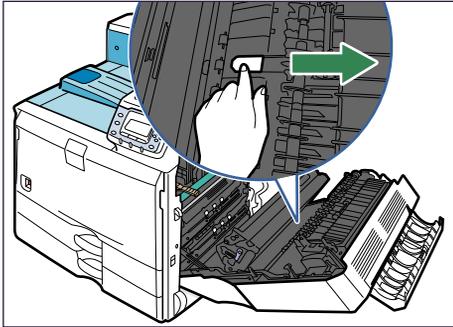
BEK111S

3. If there is paper, open the upper right cover.



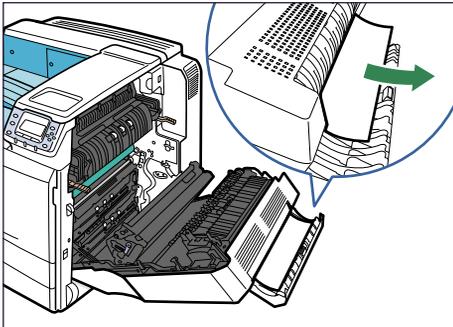
BEK112S

4. Using your finger, push the paper up in the direction of the arrow.



BEK113S

5. Remove the paper from the upper right cover area carefully.



BEK114S

6. Close the upper right cover.
7. Carefully close the right cover.

11. Appendix

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.

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 machine, hold the handles at both sides, and then lift the printer slowly. Lifting it carelessly or dropping it may cause an injury.
- When moving the printer after use, do not take out any of the toners, photo conductor units, nor waste toner bottle to prevent toner spill inside the machine.

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 73 kg (161 lb.).

Moving the Printer

CAUTION

- When lifting the machine, use the inset grips on both sides. Otherwise the printer could break or cause an injury if dropped.
- 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.**

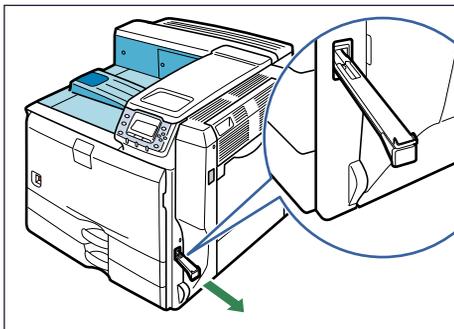
1. Be sure to check the following points:

- 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.

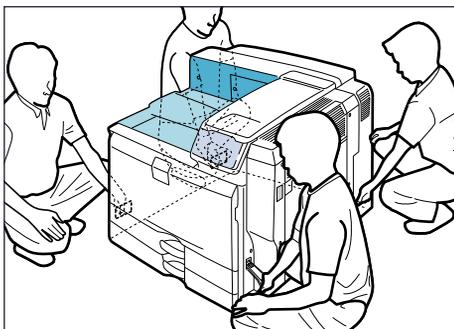
See the relevant sections in this manual and reverse the steps to remove options.

3. Pull out the handle from the right side of the printer.



BEK011S

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.



BEK012S

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

- 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.

Consumables

Toner

Toner	Average printable number of pages per toner
Black	36,000 pages

Note

- Toner can print up to 36,000 pages when it is compliant with ISO/IEC 19752 and the image density is set as the factory default. ISO/IEC 19752 is an international standard on measurement of printable pages, set by the International Organization for Standardization.
- 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 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.

Maintenance Kit

Maintenance Kit SP 8200 A

Name	Average printable number of pages
Development Unit	160,000 pages

Maintenance Kit SP 8200 B

Name	Average printable number of pages
Fusing Unit	160,000 pages
Transfer Unit	160,000 pages

Note

- 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 Maintenance Kit is not changed when necessary, the quality of printing is not guaranteed. We recommend keeping a stock of Maintenance Kit or purchasing one soon.
- Maintenance Kit (consumables) is not covered by warranty. However, if there is a problem, contact the store where they were purchased.
- Maintenance Kit may need to be changed sooner than indicated above due to deterioration over the period of use.

Staple Cartridge

Name	Number of shots
Staple cartridge	5,000 shots × 1 with cartridge
Staple Refill cartridge	Refill 5,000 shots × 3

Specifications

Mainframe

Configuration:

Desktop

Memory:

Standard 256 MB, up to 512 MB (with the optional memory unit)

Print Process:

Laser beam scanning and Electrophotographic printing

Dualcomponent development

First Print Speed:

3.5 seconds or less (A4☐, 8 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:

Maximum 50 pages per minute (A4☐, 8 1/2" × 11" (Letter)☐)

Fonts:

Monotype Imaging 35 Intellifonts, 10 TrueType fonts, 13 International fonts

Paper Size:

See p.77 "Paper and Other Media".

Paper Weight:

See p.77 "Paper and Other Media".

Media Type:

See p.77 "Paper and Other Media".

Resolution:

600 dpi

300 dpi

Printer Language:

RPCS, PCL 6/5e, PostScript 3, PDF

Network protocol:

TCP/IP, IPX/SPX, Apple Talk, 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)

Noise Emission:

During Printing: 72 db (A) or less

Standby: 48 db (A) or less

Warm-up Time:

Less than 22 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, 8 A or more

120V

120 V, 60 Hz, 12 A or more

Power Consumption:

220-240V

Printing	Maximum 1420 W or less (Unplug the power cord to turn off the power completely.)
Energy saver mode	7 W or less

120V

Printing	Maximum 1370 W or less (Unplug the power cord to turn off the power completely.)
Energy saver mode	7 W or less

Dimensions (W × D × H):

670 × 677 × 560 mm (26.4 × 26.7 × 22.1 inches)

Weight:

Approximately 73 kg (161 lb.)

Options

Paper Feed Unit PB3040

Paper Size:

A3☐, A4☐, A5☐, B4 JIS☐, B5 JIS☐, 11" × 17"☐, 8¹/₂" × 14" (Legal)☐, 8¹/₂" × 13" (Foolscap)☐, 8¹/₂" × 11" (Letter)☐, 8¹/₄" × 13" (Folio)☐, 8" × 13" (F/GL)☐, 7¹/₄" × 10¹/₂" (Executive)☐

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 (57.3 lb.)

Power Consumption:

Maximum 50 W (Power is supplied from the main unit.)

LCIT PB3050

Paper Size:

220-240V: A4☐

120V: 8¹/₂" × 11" (Letter)☐

Dimensions (W × D × H):

580 × 650 × 260 mm (22.9 × 24.5 × 10.3 inches)

Paper Capacity (80 g/m², 20 lb.):

1000 sheets × 2trays

Weight:

Approximately 26 kg (57.3 lb.)

Power Consumption:

Maximum 50 W (Power is supplied from the main unit.)

LCIT RT3000**Paper Size:**

A4☐, B5 JIS☐, 8¹/₂" × 11" (Letter)☐

Dimensions (W × D × H):

530 × 540 × 290 mm (20.9 × 21.3 × 11.4 inches)

Paper Capacity (80 g/m², 20 lb.):

1200 sheets

Weight:

Approximately 14 kg (30.9 lb.).

Power Consumption:

Maximum 55 W (Power is supplied from the main unit.)

Finisher SR3030

[Finisher Upper Tray]

Paper Size:

A3☐, A4☐☐, A5☐☐, A6☐, B4 JIS☐, B5 JIS☐☐, B6 JIS☐, 11" × 17"☐, 8¹/₂" × 14" (Legal) ☐, 8¹/₂" × 13" (Foolscap) ☐, 8¹/₂" × 11" (Letter) ☐☐, 8¹/₄" × 13" (Folio) ☐, 8" × 13" (F/GL) ☐, 7¹/₄" × 10¹/₂" (Executive) ☐☐, 5¹/₂" × 8¹/₂"☐ (Half Letter), 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/m² (14 to 43 lb.)

Paper Capacity (80g/m², 20lb.):

- 250 sheets:

A4☐☐, B5 JIS☐☐, A5☐☐, B6 JIS☐, A6☐, 8¹/₂" × 13" (Foolscap) ☐, 8¹/₂" × 11" (Letter) ☐☐, 8¹/₄" × 13" (Folio) ☐, 8" × 13" (F/GL) ☐, 7¹/₄" × 10¹/₂" (Executive) ☐☐, 5¹/₂" × 8¹/₂" (Half Letter)☐

- 50 sheets:

A3, B4 JIS, 12" × 18", 11" × 17", 8¹/₂" × 14" (Legal)

[Finisher Shift Tray]

Paper Size (no staple):

A3, A4, A5, A6, B4 JIS, B5 JIS, B6 JIS, 11" × 17", 8¹/₂" × 14" (Legal), 8¹/₂" × 13" (Foolscap), 8¹/₂" × 11" (Letter), 8¹/₄" × 13" (Folio), 8" × 13" (F/GL), 7¹/₄" × 10¹/₂" (Executive), 5¹/₂" × 8¹/₂" (Half Letter), Com10, Monarch, C5, C6, DL Env, 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/m² (14 to 68 lb.)

Paper Capacity (no staple, 80g/m², 20lb.):

- 3,000 sheets:

A4, 8¹/₂" × 11" (Letter)

- 1,500 sheets:

A3, A4, B4 JIS, B5 JIS, 11" × 17", 8¹/₂" × 14" (Legal), 8¹/₂" × 11" (Letter), 12" × 18"

- 500 sheets for A5

- 100 sheets:

A5, B6 JIS, A6, 5¹/₂" × 8¹/₂"

Staple Paper Size:

A3, A4, B4 JIS, B5 JIS, 11" × 17", 8¹/₂" × 14" (Legal), 8¹/₂" × 13" (Foolscap), 8¹/₂" × 11" (Letter), 8¹/₄" × 13" (Folio), 8" × 13" (F/GL),

7¹/₄" × 10¹/₂" (Executive), 12" × 18"

Staple Paper Weight:

64 to 90 g/m² (17 to 24 lb.)

Staple Capacity (80g/m², 20lb.):

Without Mixed Size:

- 30 sheets:

A3, B4 JIS, 11" × 17", 8¹/₂" × 14" (Legal), 8¹/₂" × 13" (Foolscap), 8¹/₄" × 13" (Folio), 8" × 13" (F/GL)

- 50 sheets:

A4, B5 JIS, 8¹/₂" × 11" (Letter), 7¹/₄" × 10¹/₂" (Executive), 12" × 18"

With Mixed Size:

- 30 sheets:

A3/A4, B4 JIS/B5 JIS, 11" × 17"/8 1/2" × 11" (Letter)

Paper Capacity after staple (80g/m², 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.)

Finisher SR790

[Finisher Upper Tray]

Paper size:

A3☐, A4☐, A5☐, A6☐, B4 JIS☐, B5 JIS☐, B6 JIS☐, 11" × 17"☐, 8¹/₂" × 14" (Legal)☐, 8¹/₂" × 13" (Foolscap)☐, 8¹/₂" × 11" (Letter)☐, 8¹/₄" × 13" (Folio)☐, 8" × 13" (F/GL)☐, 7¹/₄" × 10¹/₂" (Executive)☐, 5¹/₂" × 8¹/₂" (Half Letter)☐, 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 260 g/m² (14 to 68 lb.)

Paper capacity (80 g/m², 20 lb.):

- 250 sheets:

A4☐, B5 JIS☐, A5☐, B6 JIS☐, A6☐, 8¹/₂" × 13" (Foolscap)☐, 8¹/₂" × 11" (Letter)☐, 8¹/₄" × 13" (Folio)☐, 8" × 13" (F/GL)☐, 7¹/₄" × 10¹/₂" (Executive)☐, 5¹/₂" × 8¹/₂" (Half Letter)☐

- 50 sheets:

A3☐, B4 JIS☐, 12" × 18"☐, 11" × 17"☐, 8¹/₂" × 14" (Legal)☐

[Finisher Shift Tray]

Paper size(no staple):

A3☐, A4☐, A5☐, B4 JIS☐, B5 JIS☐, 11" × 17"☐, 8¹/₂" × 14" (Legal)☐, 8¹/₂" × 13" (Foolscap)☐, 8¹/₂" × 11" (Letter)☐, 8¹/₄" × 13" (Folio)☐, 8" × 13" (F/GL)☐, 7¹/₄" × 10¹/₂" (Executive)☐, 5¹/₂" × 8¹/₂" (Half Letter)☐, 12" × 18"☐

Paper weight:

52 to 163 g/m² (14 to 43 lb.)

Paper capacity (no staple, 80g/m², 20lb.):

- 1,000 sheets:

A4☐, B5 JIS☐, 8¹/₂" × 11" (Letter)☐, 7¹/₄" × 10¹/₂" (Executive)☐

- 500 sheets:

A3☐, B4 JIS☐, 11" × 17"☐, 8¹/₂" × 14" (Legal)☐, 8¹/₂" × 13" (Foolscap)☐, 8¹/₄" × 13" (Folio)☐, 8" × 13" (F/GL)☐, 12" × 18"☐

Staple paper size:

A3☐, A4☐, B4 JIS☐, B5 JIS☐, 11" × 17"☐, 8¹/₂" × 14" (Legal)☐, 8¹/₂" × 13" (Foolscap)☐, 8¹/₂" × 11" (Letter)☐, 8¹/₄" × 13" (Folio)☐, 8" × 13" (F/GL)☐, 7¹/₄" × 10¹/₂" (Executive)☐, 12" × 18"☐

Staple paper weight:

64 to 90 g/m² (17 to 28 lb.)

Staple capacity (80 g/m², 20 lb.):

- 50 sheets:
A4, B5 JIS, 8 1/2" × 11" (Letter), 7 1/4" × 10 1/2" (Executive)
- 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), 12" × 18"

Paper capacity after stapling (80 g/m², 20 lb.):

- 2 to 9 sheets: 100 sets (A4, B5 JIS, 8 1/2" × 11")
- 10 to 50 sheets: 100 to 20 sets (A4, 8 1/2" × 11")
- 10 to 50 sheets: 50 to 10 sets (A4, B5 JIS, 8 1/2" × 11")
- 2 to 9 sheets: 50 sets (A3, B4 JIS, 11" × 17", 8 1/2" × 14", 12" × 18")
- 10 to 30 sheets: 50 to 10 sets (A3, B4 JIS, 11" × 17", 8 1/2" × 14", 12" × 18")

Staple position:

3 positions (Top, Bottom, 2 Staples)

Power consumption:

50 W (Power is supplied from the main unit.)

Dimensions (W × D × H):

270 × 520 × 790 mm (10.7 × 20.5 × 31.2 inches)

Weight:

Approximately 25 kg (55.2 lb.)

Output Jogger Unit Type 3260**Paper size**

A3, B4, A4, B5, 11" × 17", 8 1/2" × 11"

Power consumption (Max):

7 W (power supplied from main unit)

Dimensions (W × D × H):

125 × 450 × 100 mm (4.9 × 17.8 × 3.9 inches)

Weight:

Approximately 1.7 kg (3.8 lb.)

Memory Unit Type G 128 MB/Memory Unit Type G 256 MB

Module Type:

SO-DIMM (Small Outline Dual-in-line Memory Module)

Memory Type:

SDRAM (Synchronous Dynamic RAM)

Number of Pins:

200 pins

Hard Disk Drive Option Type 5000

Storage Capacity (Formatted):

40 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 Board Type A

Interface Connector:

Ethernet (10BASE-T, 100BASE-TX, 1000BASE-T)

USB 2.0

To use USB 2.0, a USB computer port and cable that support USB 2.0 are required.

Data Transmission Speed: Ethernet: 10 Mbps, 100 Mbps, 1000 Mbps

USB: 480 Mbps (High speed: USB 2.0), 12Mbps (Full speed)

Protocol:

TCP/IP, IPX/SPX, Apple Talk

Maximum Length of Cable Between Devices:

Ethernet: 100 m

USB: 5 m

IEEE 802.11 a/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 802.11 g 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

IEEE 1284 Interface Board Type A

Transmission Specification:

IEEE 1284

Required Cable:

Standard IEEE 1284-compliant Micro Getronics 36-pin cable

Punch Unit Type 3260 NA 3/2 (Finisher SR3030 Only)

Paper size:

2 and 3 holes type

2 holes	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)☐
3 holes	A3☐, A4☐, B4 JIS☐, B5 JIS☐, 11" × 17"☐, 8 ¹ / ₂ " × 11" (Letter)☐, 7 ¹ / ₄ " × 10 ¹ / ₂ " (Executive)☐

Paper weight:

52 to 163 g/m² (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☐☐, A6☐, B4 JIS☐, B5 JIS☐☐, B6 JIS☐, 11" × 17"☐, 8 ¹ / ₂ " × 14" (Legal)☐,
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	<p>8 1/2" x 13" (Foolscap)☐, 8 1/2" x 11" (Letter)☐☐, 8 1/4" x 13" (Folio)☐, 8" x 13" (F/GL)☐, 7 1/4" x 10 1/2" (Executive)☐☐, 5 1/2" x 8 1/2" (Half Letter)☐</p>
4 holes	<p>A3☐, A4☐, B4 JIS☐, B5 JIS☐, 11" x 17"☐, 8 1/2" x 11" (Letter)☐, 7 1/4" x 10 1/2" (Executive)☐</p>

Paper weight:

52 to 163 g/m² (14 to 43 lb.)

Punch Unit Type 3260 SC (Finisher SR3030 Only)

Paper size:

4 holes type

4 holes	<p>A3☐, A4☐☐, A5☐☐, A6☐, B4 JIS☐, B5 JIS☐☐, 11" x 17"☐, 8 1/2" x 14" (Legal)☐, 8 1/2" x 13" (Foolscap)☐, 8 1/2" x 11" (Letter)☐☐, 8 1/4" x 13" (Folio)☐, 8" x 13" (F/GL)☐, 7 1/4" x 10 1/2" (Executive)☐☐, 5 1/2" x 8 1/2" (Half Letter)☐</p>
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Paper weight:

52 to 163 g/m² (14 to 43 lb.)

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